

EVC 2: Coast Banksia Woodland

Description:

Restricted to near coastal localities on secondary or tertiary dunes behind Coastal Dune Scrub. Usually dominated by a woodland overstorey of Coast Banksia *Banksia integrifolia* to 15 m tall over a medium shrub layer. The understorey consists of a number of herbs and sedges, including scramblers.

Large trees:

 Species
 DBH(cm)
 #/ha

 Banksia spp.
 50 cm
 10 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Banksia spp.Coast Banksia

Life Forms:

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

LF Code	Species typical of at least part of EVC range	Common Name
MS	Leucopogon parviflorus	Coast Beard-heath
MS	Rhagodia candolleana ssp. candolleana	Seaberry Saltbush
MS	Leptospermum laevigatum	Coast Tea-tree
LH	Senecio minimus	Shrubby Fireweed
LH	Haloragis brownii	Swamp Raspwort
MH	Sambucus gaudichaudiana	White Elderberry
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Lobelia anceps	Angled Lobelia
MH	Sarcocornia quinqueflora	Beaded Glasswort
SH	Hydrocotyle sibthorpioides	Shining Pennywort
SH	Dichondra repens	Kidney-weed
GF	Pteridium esculentum	Austral Bracken
SC	Galium australe	Tangled Bedstraw
SC	Clematis microphylla	Small-leaved Clematis

Recruitment:

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

Organic Litter:

40 % cover

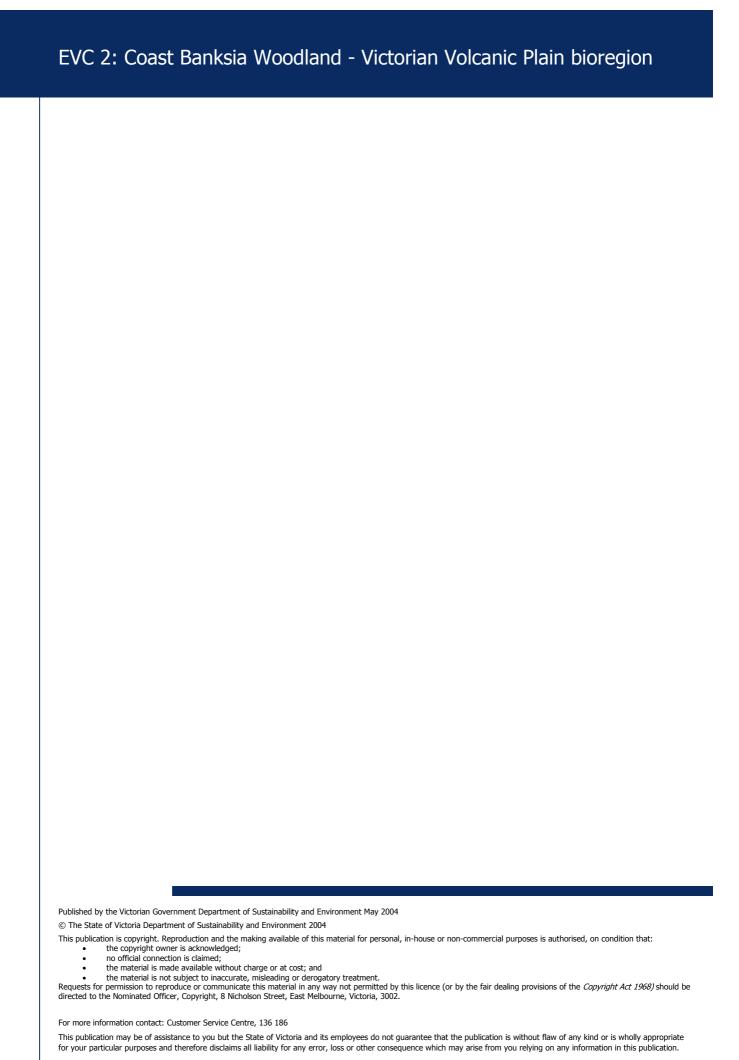
Logs

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low





www.dse.vic.gov.au

EVC 3: Damp Sands Herb-rich Woodland

Description:

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

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus baxteri s.s.Brown Stringybark

Understorey:

Jiidei Stoi e y i			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	15%	T
Medium Shrub	6	15%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	3	5%	PS
Large Herb	4	5%	LH
Medium Herb	15	25%	MH
Small or Prostrate Herb	6	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	12	15%	MTG
Medium to Tiny Non-tufted Graminoid	4	10%	MNG
Ground Fern	1	10%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

15 m/0.1 ha.



EVC 3: Damp Sands Herb-rich Woodland -Victorian Volcanic Plain bioregion

T T T MS	Species typical of at least part of EVC range Acacia melanoxylon Exocarpos cupressiformis Acacia mearnsii Banksia marginata	Common Name Blackwood Cherry Ballart Black Wattle Silver Banksia
MS	Melaleuca squarrosa	Scented Paperbark
MS	Leptospermum continentale	Prickly Tea-tree
MS	Acacia verticillata	Prickly Moses
SS	Hibbertia riparia	Erect Guinea-flower
SS	Hibbertia fasciculata var. prostrata	Bundled Guinea-flower
SS	Amperea xiphoclada var. xiphoclada	Broom Spurge
PS	r <i>Boronia nana var. nana</i>	Dwarf Boronia
PS	Xanthosia pusilla spp. agg.	Heath Xanthosia
PS	Acrotriche serrulata	Honey-pots
LH	Senecio tenuiflorus	Slender Fireweed
LH	Wahlenbergia gracilis s.s.	Sprawling Bluebell
MH	Veronica gracilis	Slender Speedwell
MH	Euchiton collinus s.s.	Creeping Cudweed
MH	Goodenia geniculata	Bent Goodenia
MH	Lagenophora stipitata	Common Bottle-daisy
SH	Nertera granadensis	Matted Nertera
SH	Opercularia varia	Variable Stinkweed
SH	Hydrocotyle laxiflora	Stinking Pennywort
SH	Kennedia prostrata	Running Postman
LTG	Xanthorrhoea minor ssp. lutea	Small Grass-tree
LTG	Deyeuxia quadriseta	Reed Bent-grass
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Lomandra nana	Dwarf Mat-rush
MTG	Austrodanthonia setacea var. setacea	Bristly Wallaby-grass
MTG	Dianella revoluta s.s.	Black-anther Flax-lily
MTG	Poa sieberiana var. sieberiana	Grey Tussock-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
TTG	Isolepis marginata	Little Club-sedge
TTG	Centrolepis strigosa ssp. strigosa	Hairy Centrolepis
GF	Pteridium esculentum	Austral Bracken
SC	Billardiera scandens var. scandens	Common Apple-berry

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Centaurium tenuiflorum	Slender Centaury	low	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
SH	Medicago polymorpha	Burr Medic	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MNG	Aira caryophyllea	Silvery Hair-grass	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

Description:

EVC 6: Sand Heathland

Treeless heathland (or with scattered emergent mallee-form eucalypts) occurring on deep infertile sands. Consists of a low, dense heathy shrub layer and a number of sedges and sedge-like species.

Large trees⁺:

SpeciesDBH(cm)#/haEucalyptus spp.50 cm15 / ha

Tree Canopy Cover+:

%coverCharacter SpeciesCommon Name10%Eucalyptus obliquaMessmate Stringybark

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	6	30%	MS
Small Shrub	8	20%	SS
Prostrate Shrub	3	5%	PS
Medium Herb	3	5%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code MS MS MS MS SS SS	Species typical of at least part of EVC range Banksia marginata Epacris impressa Leptospermum myrsinoides Leptospermum continentale Platylobium obtusangulum Isopogon ceratophyllus	Common Name Silver Banksia Common Heath Heath Tea-tree Prickly Tea-tree Common Flat-pea Horny Cone-bush
SS	Pimelea humilis	Common Rice-flower
SS	Tetratheca ciliata	Pink-bells
PS PS	Acrotriche serrulata Gompholobium ecostatum	Honey-pots Dwarf Wedge-pea
PS	Astroloma humifusum	Cranberry Heath
MH	Goodenia geniculata	Bent Goodenia
MH	Drosera peltata ssp. auriculata	Tall Sundew
SH	Viola cleistogamoides	Hidden Violet
LTG	Xanthorrhoea australis	Austral Grass-tree
LTG	Austrostipa mollis	Supple Spear-grass
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Schoenus apogon	Common Bog-sedge
MTG	r <i>Lepidosperma canescens</i>	Hoary Rapier-sedge
MTG	Austrodanthonia setacea	Bristly Wallaby-grass
MNG	Hypolaena fastigiata	Tassel Rope-rush
TTG	Schoenus breviculmis	Matted Bog-sedge
GF	Lindsaea linearis	Screw Fern
SC	Cassytha pubescens s.s.	Downy Dodder-laurel
SC	Cassytha glabella	Slender Dodder-laurel



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

EVC 6: Sand Heathland - Victorian Volcanic Plain bioregion

Recruitment:

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

Organic Litter:

20% cover

Logs:

15 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

Published by the Victorian Government Department of Sustainability and Environment December 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

Description:

Treeless heathland (or with scattered emergent mallee-form eucalypts) occurring on deep infertile sands. Consists of a low, dense heathy shrub layer and a number of sedges and sedge-like species.

Large Trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 50 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name10%Eucalyptus obliquaMessmate Stringybark

Lifeform	#Spp	%Cover	LF Code
Medium Shrub	6	30%	MS
Small Shrub	8	20%	SS
Prostrate Shrub	3	5%	PS
Medium Herb	3	5%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	10%	LTG
Large Non-Tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-Tufted Graminoid	1	1%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens		10%	BL
Soil Crust		10%	S/C



EVC 6_61: Treed Sand Heathland

LF Code		Species typical of at least part of EVC range	Common Name
MS		Banksia marginata	Silver Banksia
MS		Epacris impressa	Common Heath
MS		Leptospermum continentale	Prickly Tea-tree
MS		Leptospermum myrsinoides	Heath Tea-tree
SS		Isopogon ceratophyllus	Horny Cone-bush
SS		Pimelea humilis	Common Rice-flower
SS		Platylobium obtusangulum	Common Flat-pea
SS		Tetratheca ciliata	Pink-bells
PS		Acrotriche serrulata	Honey-pots
PS		Astroloma humifusum	Cranberry Heath
PS		Gompholobium ecostatum	Dwarf Wedge-pea
MH		Drosera peltata subsp. auriculata	Tall Sundew
MH		Goodenia geniculata	Bent Goodenia
SH		Viola cleistogamoides	Hidden Violet
LTG		Austrostipa mollis	Supple Spear-grass
LTG		Xanthorrhoea australis	Austral Grass-tree
LNG		Gahnia radula	Thatch Saw-sedge
MTG		Austrodanthonia setacea	Bristly Wallaby-grass
MTG	r	Lepidosperma canescens	Hoary Rapier-sedge
MTG		Lomandra filiformis	Wattle Mat-rush
MTG		Schoenus apogon	Common Bog-sedge
MNG		Hypolaena fastigiata	Tassel Rope-rush
GF		Lindsaea linearis	Screw Fern
SC		Cassytha glabella	Slender Dodder-laurel
SC		Cassytha pubescens s.s.	Downy Dodder-laurel

Recruitment:

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

Organic Litter:

20 % cover

Logs:

15 m/0.1ha.

Weediness: There are no consistent weeds in this EVC

For more information contact: Customer Service Centre, 136 186

Published by the Victorian Government Department of Sustainability and Environment December 2004
© The State of Victoria Government Department of Sustainability and Environment 2004
This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-comercial is authorised, on condition that:

• the copyright owner is acknowledged;

• no official connection is claimed;

• the material is made available without charge or cost; and

• the material is made available without charge or cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson St, East Melbourne, Victoria 3002.



EVC 8: Wet Heathland

Description:

A low, generally treeless heathland to 5 m tall although sometimes emergent eucalypts may be present. Occurs on lower slopes, flats or depressions, which are infertile and subjected to prolonged water logging. Understorey is often dominated by a range of sedges, grasses and shrubs.

Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	7	50%	MS
Small Shrub	6	15%	SS
Prostrate Shrub	1	5%	PS
Medium Herb	3	5%	MH
Small Herb	2	1%	SH
Large Tufted Graminoid	2	15%	LTG
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid	3	10%	MNG
Ground Fern	2	10%	GF
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	Melaleuca squarrosa	Scented Paperbark
MS	Leptospermum continentale	Prickly Tea-tree
MS	Banksia marginata	Silver Banksia
MS	Epacris impressa	Common Heath
SS	Leucopogon australis	Spike Beard-heath
SS	Tetratheca ciliata	Pink-bells
SS	Dillwynia glaberrima	Smooth Parrot-pea
SS	Amperea xiphoclada var. xiphoclada	Broom Spurge
PS	Xanthosia dissecta s.l.	Cut-leaf Xanthosia
PS	Acrotriche serrulata	Honey-pots
MH	Gonocarpus tetragynus	Common Raspwort
MH	Selaginella uliginosa	Swamp Selaginella
MH	Drosera peltata ssp. auriculata	Tall Sundew
MH	Acianthus spp.	Mosquito Orchid
SH	Goodenia lanata	Trailing Goodenia
LTG	Xanthorrhoea australis	Austral Grass-tree
LTG	Gymnoschoenus sphaerocephalus	Button Grass
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
LTG	Lomandra longifolia	Spiny-headed Mat-rush
MTG	Lepidosperma filiforme	Common Rapier-sedge
MTG	Stylidium graminifolium s.s.	Grass Trigger-plant
MNG	Empodisma minus	Spreading Rope-rush
MNG	Schoenus lepidosperma	Slender Bog-sedge
MNG	Tetrarrhena distichophylla	Hairy Rice-grass
MNG	Hypolaena fastigiata	Tassel Rope-rush
GF	Lindsaea linearis	Screw Fern
GF	Pteridium esculentum	Austral Bracken
GF	Lycopodium deuterodensum	Bushy Clubmoss
SC	Cassytha pubescens s.s.	Downy Dodder-laurel

Recruitment:

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

Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.





for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication.

www.dse.vic.gov.au

EVC 9: Coastal Saltmarsh

Description:

Occurs on and immediately above marine and estuarine tidal flats and contains distinct floristic communities as bands or zones in the same location, depending on the positioning of the various floristic communities in relation to the saline environment. Consists of a range of life forms including succulent herbs, low succulent shrubs, rushes and sedges.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	1	20%	MS
Small Shrub	2	10%	SS
Medium Herb	2	30%	MH
Small or Prostrate Herb	1	1%	SH
Medium to Small Tufted Graminoid	1	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
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	Sclerostegia arbuscula	Shrubby Glasswort
SS	Suaeda australis	Austral Seablite
SS	Frankenia pauciflora var. gunnii	Southern Sea-heath
MH	Sarcocornia quinqueflora ssp. quinqueflora	Beaded Glasswort
MH	Samolus repens	Creeping Brookweed
SH	Disphyma crassifolium ssp. clavellatum	Rounded Noon-flower

Recruitment:

Continuous

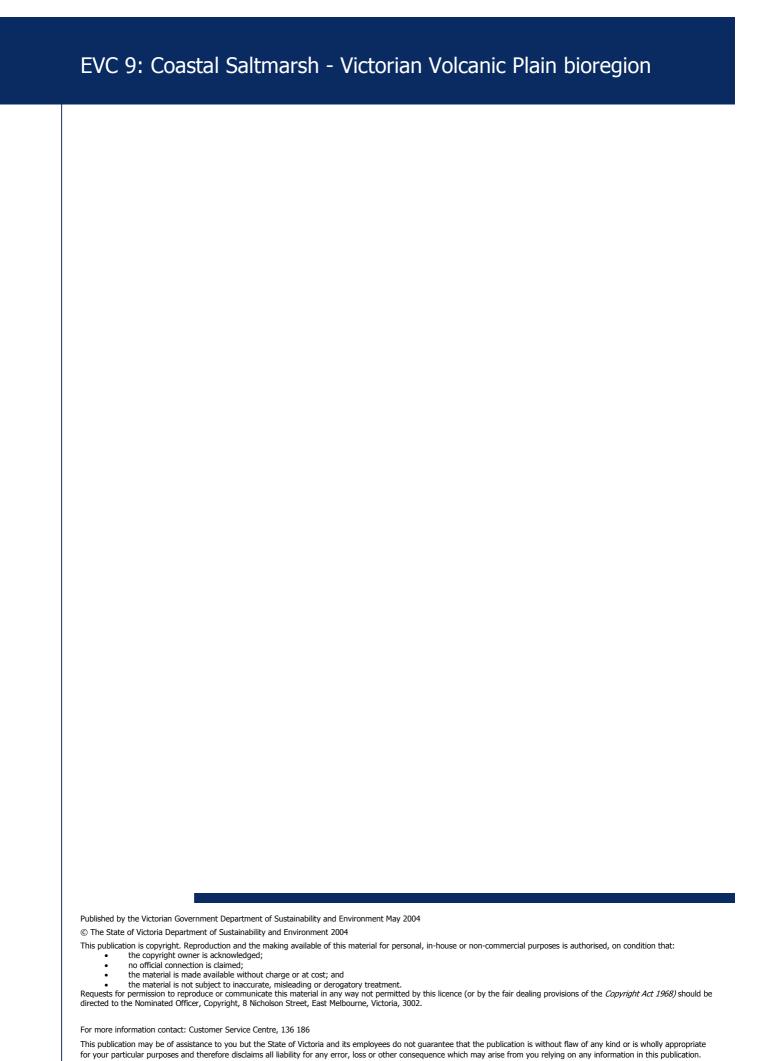
Organic Litter:

10% Cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Plantago coronopus	Buck's-horn Plantain	high	high
MTG	Critesion marinum	Sea Barley-grass	high	high
MTG	Lolium rigidum	Wimmera Rye-grass	high	low





www.dse.vic.gov.au



EVC 10: Estuarine Wetland

Description:

Grows on anaerobic peat-rich muds on the edges of estuarine waterbodies such as creeks, rivers and lagoons with intermediate salinity conditions. Vegetation is determined by fluctuating salinity, which varies in time from occasionally fresh to brackish or occasionally saline according to river flood and marine tide events. Dominated by graminoids and halophytic herbs and often fringed by a tall scrub layer of Swamp Paperbark Melaleuca ericifolia or Woolly Tea-tree Leptospermum lanigerum at the landward edge.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	1	1%	MS
Large Herb	3	10%	LH
Medium Herb	4	10%	MH
Small or Prostrate Herb	4	15%	SH
Large Tufted Graminoid	1	10%	LNG
Large Non-tufted Graminoid	1	25%	LNG
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Scrambler or Climber	1	5%	SC
Total understorey projective foliage cover		80%	

Total understorey projective foliage cover

MS LH MH MH SH SH SH SH LTG LNG	Species typical of at least part of EVC range Leptospermum lanigerum Persicaria decipiens Samolus repens Lobelia anceps Selliera radicans Crassula helmsii Mimulus repens Leptinella reptans s.l. Poa labillardierei Phragmites australis	Common Name Woolly Tea-tree Slender Knotweed Creeping Brookweed Angled Lobelia Shiny Swamp-mat Swamp Crassula Creeping Monkey-flower Creeping Cotula Common Red Chronlond Accounts of Common Red Chron
MNG SC	Triglochin striatum Calystegia sepium	Streaked Arrowgrass Large Bindweed
		-

Recruitment:

Episodic/Flood: desirable period of disturbance is every five years

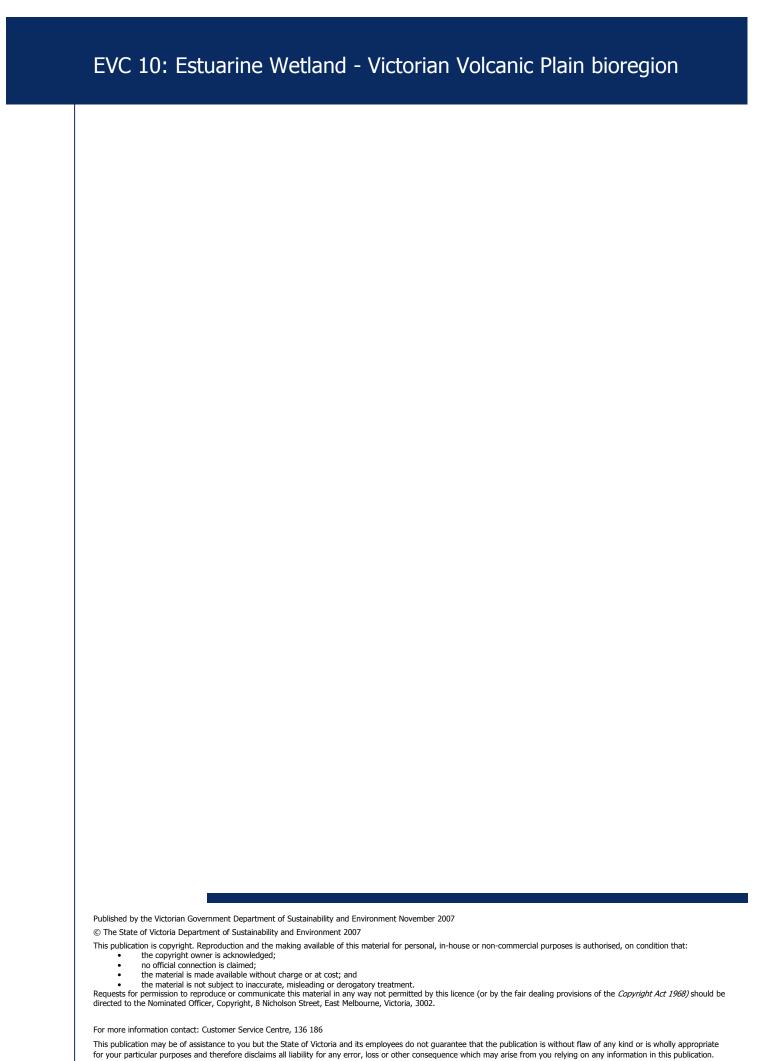
Organic Litter:

10% cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Aster subulatus	Aster-weed	high	low
LH	Plantago lanceolata	Ribwort	high	low
LH	Rumex crispus	Curled Dock	high	low
MH	Ranunculus repens	Creeping Buttercup	high	high
MH	Lotus uliginosus	Greater Bird's-foot Trefoil	high	high
MH	Cotula coronopifolia	Water Buttons	high	high
MH	Atriplex prostrata	Hastate Orache	high	high
MTG	Agrostis stolonifera	Creeping Bent	high	high
MNG	Polypogon viridis	Water Bent	high	high





www.dse.vic.gov.au

EVC 16: Lowland Forest

Description:

Open forest to 25 m tall characterised by the diversity of species and lifeforms in each stratum. Includes a variety of heathy understorey shrubs. It grows on a wide variety of geology and soils.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name30%Eucalyptus obliquaMessmate StringybarkEucalyptus willisiiShining PeppermintEucalyptus baxteri s.s.Brown Stringybark

J.: 40: 50: 50: 50: 50: 50: 50: 50: 50: 50: 5			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	ΙΤ
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	6	15%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	2	1%	PS
Large Herb	2	5%	LH
Medium Herb	8	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	2	10%	LNG
Medium to Small Tufted Graminoid	5	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL



EVC 16: Lowland Forest - Victorian Volcanic Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Exocarpos cupressiformis	Cherry Ballart
Т	Acacia melanoxylon	Blackwood
MS	Leptospermum continentale	Prickly Tea-tree
MS	Correa reflexa	Common Correa
MS	Banksia marginata	Silver Banksia
MS	Acacia verticillata	Prickly Moses
SS	Tetratheca ciliata	Pink-bells
SS	Hibbertia riparia	Erect Guinea-flower
SS	Platylobium obtusangulum	Common Flat-pea
SS	Pultenaea stricta	Rigid Bush-pea
PS	Acrotriche serrulata	Honey-pots
PS	Xanthosia dissecta s.l.	Cut-leaf Xanthosia
PS	Astroloma humifusum	Cranberry Heath
LH	Senecio tenuiflorus	Slender Fireweed
LH	Dipodium punctatum s.l.	Hyacinth Orchid
LH	Senecio glomeratus	Annual Fireweed
MH	Viola hederacea sensu Entwisle (1996)	Ivy-leaf Violet
MH	Burchardia umbellata	Milkmaids
MH	Helichrysum scorpioides	Button Everlasting
MH	Lagenophora stipitata	Common Bottle-daisy
SH	Hydrocotyle laxiflora	Stinking Pennywort
LTG	Xanthorrhoea minor ssp. lutea	Small Grass-tree
LTG	Deyeuxia quadriseta	Reed Bent-grass
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LNG	Gahnia radula	Thatch Saw-sedge
LNG	Austrostipa muelleri	Wiry Spear-grass
MTG	Dianella revoluta s.s.	Black-anther Flax-lily
MTG	Lepidosperma filiforme	Common Rapier-sedge
MTG	Dichelachne rara	Common Plume-grass
MTG	Poa morrisii	Soft Tussock-grass
MNG	Poa tenera	Slender Tussock-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
SC	Cassytha pubescens s.s.	Downy Dodder-laurel
SC	Billardiera scandens	Common Apple-berry
SC	Comesperma volubile	Love Creeper
SC	Clematis aristata	Mountain Clematis

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

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

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



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

Large trees:

and herbs.

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 80 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name40%Eucalyptus viminalisManna Gum

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

LF Code	Species typical of at least part of EVC range	Common Name
T	Pomaderris aspera	Hazel Pomaderris
Ť	Acacia melanoxylon	Blackwood
Т	Notelaea ligustrina	Privet Mock-olive
MS	Olearia lirata	Snowy Daisy-bush
MS	Leptospermum lanigerum	Woolly Tea-tree
MS	Ozothamnus ferrugineus	Tree Everlasting
MS	Melaleuca squarrosa	Scented Paperbark
LH	Urtica incisa	Scrub Nettle
MH	Austrocynoglossum latifolium	Forest Hound's-tongue
SH	Lobelia pedunculata s.l.	Matted Pratia
SH	Lobelia pratioides	Poison Lobelia
LTG	Gahnia clarkei	Tall Saw-sedge
LTG	Lepidosperma laterale var. majus	Variable Sword-sedge
LTG	Carex appressa	Tall Sedge
MTG	Poa ensiformis	Sword Tussock-grass
MTG	Carex gaudichaudiana	Fen Sedge
MTG	Isolepis inundata	Swamp Club-sedge
MNG	Poa tenera	Slender Tussock-grass
GF	Pteridium esculentum	Austral Bracken
GF	Blechnum wattsii	Hard Water-fern
GF	Blechnum nudum	Fishbone Water-fern
SC	Clematis aristata	Mountain Clematis



EVC 18: Riparian Forest - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

30 m/0.1 ha.

Weediness:

LF Code Typical Weed Species **Common Name Invasive Impact** Rorippa nasturtium-aquaticum Watercress

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



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 are frequently present in the ground layer, but do not provide much cover.

Large trees:

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

Tree Canopy Cover:

%cover **Common Name Character Species** Eucalyptus goniocalyx s.l. Bundy Eucalyptus macrorhyncha Red Stringybark Eucalyptus dives **Broad-leaved Peppermint** Eucalyptus radiata s.l. Narrow-leaf Peppermint

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	ΙΤ
Medium Shrub	2	15%	MS
Small Shrub	3	20%	SS
Large Herb	1	1%	LH
Medium Herb	2	5%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	4	20%	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		75%	

Total understorey projective foliage cover

LF Code	Species typical of at least part of EVC range	Common Name
MS	Monotoca scoparia	Prickly Broom-heath
MS	Acacia pycnantha	Golden Wattle
MS	Acacia paradoxa	Hedge Wattle
SS	Phyllanthus hirtellus	Thyme Spurge
SS	Hovea heterophylla	Common Hovea
SS	Leucopogon virgatus	Common Beard-heath
SS	Tetratheca labillardierei	Glandular Pink-bells
PS	Bossiaea prostrata	Creeping Bossiaea
LH	Senecio tenuiflorus	Slender Fireweed
MH	Gonocarpus tetragynus	Common Raspwort
MH	Wahlenbergia gracilis s.l.	Sprawling Bluebell
SH	Opercularia varia	Variable Stinkweed
SH	Goodenia lanata	Trailing Goodenia
MTG	Joycea pallida	Silvertop Wallaby-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Stylidium graminifolium s.l.	Grass Trigger-plant
MTG	Poa sieberiana	Grey Tussock-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass



EVC 20: Heathy Dry Forest - Victorian Volcanic Plain bioregion

Recruitment:

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

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

Weeuiiiess.				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Cicendia quadrangularis	Square Cicendia	high	low
MH	Trifolium campestre var. campestre	Hop Clover	high	low
MH	Trifolium dubium	Suckling Clover	high	low
MH	Trifolium subterraneum	Subterranean Clover	high	low
SH	Trifolium glomeratum	Cluster Clover	high	low
LNG	Avena fatua	Wild Oat	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Romulea rosea	Onion Grass	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low
MNG	Juncus capitatus	Capitate Rush	high	low
MNG	Aira caryophyllea	Silvery Hair-grass	high	low
TTG	Cyperus tenellus	Tiny Flat-sedge	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



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

 Eucalyptus spp.
 70 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name30%Eucalyptus tricarpaRed IronbarkEucalyptus baxteriBrown StringybarkEucalyptus polyanthemosRed Box

Life Forms:

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	10%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	2	5%	MH
Large Tufted Graminoid	1	15%	LTG
Medium to Small Tufted Graminoid	2	10%	MTG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		75%	



EVC 21: Shrubby Dry Forest – Victorian Volcanic Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia pycnantha	Golden Wattle
MS	Spyridium parvifolium	Dusty Miller
MS	Acacia myrtifolia	Myrtle Wattle
MS	Daviesia leptophylla	Narrow-leaf Hop-bush
MS	Pultenaea daphnoides	Large-leaf Bush-pea
SS	Hibbertia stricta s.l.	Upright Guinea-flower
SS	Platylobium obtusangulum	Common Flat-pea
SS	Isopogon ceratophyllus	Horny Cone-bush
SS	Pultenaea humilis	Dwarf Bush-pea
PS	Acrotriche serrulata	Honey-pots
MH	Drosera peltata ssp. auriculata	Tall Sundew
LTG	Xanthorrhoea australis	Austral Grass-tree
LTG	Joycea pallida	Silvertop Wallaby-grass
MTG	Dianella revoluta	Black-anther Flax-lily
MTG	Lepidosperma semiteres	Wire Rapier-sedge
MTG	Poa australis spp. agg.	Tussock Grass

Recruitment:

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

Organic Litter:

20 % cover

20 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

Published by the Victorian Government Department of Sustainability and Environment December 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



Description:

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

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name30%Eucalyptus macrorhyncha
Eucalyptus goniocalyx s.l.Red Stringybark
Bundy

Eucalyptus obliqua Messmate Stringybark

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	Т
Medium Shrub	3	10%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	7	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	1	5%	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	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code T MS SS SS SS PS LH MH MH SH SH SH SH MTG MTG MTG MTG	Species typical of at least part of EVC range Acacia dealbata Epacris impressa Hovea heterophylla Pimelea humilis Acacia aculeatissima Acrotriche serrulata Senecio tenuiflorus Gonocarpus tetragynus Viola hederacea sensu Willis (1972) Hypericum gramineum Dichondra repens Hydrocotyle laxiflora Goodenia lanata Joycea pallida Poa sieberiana Lomandra filiformis Dianella revoluta s.l.	Common Name Silver Wattle Common Heath Common Hovea Common Rice-flower Thin-leaf Wattle Honey-pots Slender Fireweed Common Raspwort Ivy-leaf Violet Small St John's Wort Kidney-weed Stinking Pennywort Trailing Goodenia Silvertop Wallaby-grass Grey Tussock-grass Wattle Mat-rush Black-anther Flax-lily
MTG	Lomandra filiformis	Wattle Mat-rush



EVC 22: Grassy Dry Forest - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
				Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

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
Eucalyptus spp. 70 cm 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name40%Eucalyptus ovataSwamp GumEucalyptus obliquaMessmate StringybarkEucalyptus viminalisManna Gum

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



EVC 23: Herb-rich Foothill Forest - Victorian Volcanic Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia melanoxylon	Blackwood
MS	Leptospermum continentale	Prickly Tea-tree
MS	Acacia verticillata	Prickly Moses
MS	Ozothamnus ferrugineus	Tree Everlasting
MS	Bursaria spinosa	Sweet Bursaria
SS	Pimelea humilis	Common Rice-flower
SS	Hibbertia riparia	Erect Guinea-flower
PS	Bossiaea prostrata	Creeping Bossiaea
PS	Acrotriche serrulata	Honey-pots
LH	Senecio tenuiflorus	Slender Fireweed
LH	Pterostylis longifolia s.l.	Tall Greenhood
MH	Euchiton collinus s.s.	Creeping Cudweed
MH	Hypericum gramineum	Small St John's Wort
MH	Gonocarpus tetragynus	Common Raspwort
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
SH	Hydrocotyle laxiflora	Stinking Pennywort
LTG	Juncus procerus	Tall Rush
LTG	Lepidosperma laterale var. majus	Variable Sword-sedge
LTG	Deyeuxia quadriseta	Reed Bent-grass
LNG	Lepidosperma longitudinale	Pithy Sword-sedge
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Lomandra sororia	Small Mat-rush
MTG	<i>Lepidosperma laterale</i> var. <i>laterale</i>	Variable Sword-sedge
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Poa tenera	Slender Tussock-grass
GF	Pteridium esculentum	Austral Bracken
SC	Clematis aristata	Mountain Clematis
SC	Billardiera scandens	Common Apple-berry

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low -
MH	Centaurium erythraea	Common Centaury	high	low
MNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

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.

Candlebark

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name40%Eucalyptus obliqua
Eucalyptus radiata ssp. radiata
Eucalyptus divesMessmate Stringybark
Narrow-leaf Peppermint
Broad-leaved Peppermint

Eucalyptus ulves Eucalyptus rubida

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	3	10%	SS
Prostrate Shrub	2	5%	PS
Large Herb	1	1%	LH
Medium Herb	7	15%	MH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	15%	LNG
Medium to Small Tufted Graminoid	5	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	2	10%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C



EVC 45: Shrubby Foothill Forest - Victorian Volcanic Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
Т	Exocarpos cupressiformis	Cherry Ballart
MS	Epacris impressa	Common Heath
MS	Acacia mucronata ssp. longifolia	Narrow-leaf Wattle
MS	Acacia verticillata	Prickly Moses
MS	Pultenaea gunnii	Golden Bush-pea
SS	Olearia erubescens	Moth Daisy-bush
SS	k Pultenaea muelleri var. reflexifolia	Mueller's Bush-pea
SS	Acacia aculeatissima	Thin-leaf Wattle
SS	Dillwynia cinerascens s.l.	Grey Parrot-pea
PS	Acrotriche serrulata	Honey-pots
PS	Acrotriche prostrata	Trailing Ground-berry
MH	Gonocarpus tetragynus	Common Raspwort
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Hydrocotyle hirta	Hairy Pennywort
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
LNG	Tetrarrhena juncea	Forest Wire-grass
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Joycea pallida	Silvertop Wallaby-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Dianella tasmanica	Tasman Flax-lily
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
SC	Billardiera scandens	Common Apple-berry

Recruitment:

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

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code **Typical Weed Species Common Name Invasive Impact** МН Cat's Far Hypochoeris radicata high low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



EVC 47: Valley Grassy Forest

Description:

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

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name20%Eucalyptus radiata s.l.Narrow-leaf PeppermintEucalyptus rubidaCandlebarkEucalyptus melliodoraYellow Box

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	2	10%	MS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	11	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	16	40%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL

LF Code T MS MS MS SS PS LH MH MH SH SH SH SH SH LTG LTG	Species typical of at least part of EVC range Acacia mearnsii Myoporum sp. 1 Acacia pycnantha Bursaria spinosa ssp. spinosa Pimelea humilis Bossiaea prostrata Veronica gracilis Poranthera microphylla Gonocarpus tetragynus Drosera peltata ssp. auriculata Solenogyne dominii Oxalis corniculata s.l. Oxalis exilis Opercularia varia Austrostipa rudis Austrostipa mollis	Common Name Black Wattle Sticky Boobialla Golden Wattle Sweet Bursaria Common Rice-flower Creeping Bossiaea Slender Speedwell Small Poranthera Common Raspwort Tall Sundew Smooth Solenogyne Yellow Wood-sorrel Shady Wood-sorrel Variable Stinkweed Veined Spear-grass Supple Spear-grass
SH	•	Variable Stinkweed
LTG LNG	Austrostipa mollis Gahnia radula	Supple Spear-grass Thatch Saw-sedge
MTG MTG MTG MTG MNG SC	Themeda triandra Lomandra filiformis Poa sieberiana Dianella revoluta s.l. Microlaena stipoides var. stipoides Billardiera scandens	Kangaroo Grass Wattle Mat-rush Grey Tussock-grass Black-anther Flax-lily Weeping Grass Common Apple-berry



EVC 47: Valley Grassy Forest - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

weeumess.	i			
LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Plantago lanceolata	Ribwort	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
LTG	Watsonia meriana var. bulbillifera	Bulbil Watsonia	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Ehrharta longiflora	Annual Veldt-grass	high	low
MTG	Ehrharta erecta var. erecta	Panic Veldt-grass	high	high
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MTG	Sporobolus africanus	Rat-tail Grass	high	high
MTG	Paspalum dilatatum	Paspalum	high	high
MTG	Agrostis capillaris s.l.	Brown-top Bent	high	high
MNG	Dactylis glomerata	Cocksfoot	high	high
SC	Galium aparine	Cleavers	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



Description:

Spans a variety of geologies but is generally associated with nutrient-poor soils including deep uniform sands (aeolian or outwash) and Tertiary sand/clay which has been altered to form quartzite gravel. Eucalypt-dominated low woodland to 10 m tall usually lacking a secondary tree layer and generally supporting a diverse array of narrow or ericoid-leaved shrubs except where frequent fire has reduced this to a dense cover of bracken. Geophytes and annuals can be quite common but the ground cover is normally fairly sparse.

Large trees:

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

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus baxteri s.l.Brown Stringybark

Jiiuci Store y i			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	ΙΤ
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	7	35%	MS
Small Shrub	9	20%	SS
Prostrate Shrub	3	5%	PS
Medium Herb	8	10%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	3	5%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C



EVC 48: Heathy Woodland - Victorian Volcanic Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Exocarpos cupressiformis	Cherry Ballart
MS	Banksia marginata	Silver Banksia
MS	Leptospermum continentale	Prickly Tea-tree
MS	Epacris impressa	Common Heath
MS	Acacia verticillata	Prickly Moses
SS	Tetratheca ciliata	Pink-bells
SS	Platylobium obtusangulum	Common Flat-pea
SS	Astroloma conostephioides	Flame Heath
SS	Boronia pilosa	Hairy Boronia
PS	Acrotriche serrulata	Honey-pots
PS	Xanthosia dissecta s.l.	Cut-leaf Xanthosia
PS	Boronia nana	Dwarf Boronia
MH	Helichrysum scorpioides	Button Everlasting
MH	Drosera peltata ssp. auriculata	Tall Sundew
MH	Viola hederacea sensu Entwisle (1996)	Ivy-leaf Violet
SH	Drosera whittakeri ssp. aberrans	Scented Sundew
LTG	Xanthorrhoea minor ssp. lutea	Small Grass-tree
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Poa morrisii	Soft Tussock-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Lepidosperma filiforme	Common Rapier-sedge
MNG	Tetrarrhena distichophylla	Hairy Rice-grass
MNG	Hypolaena fastigiata	Tassel Rope-rush
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Empodisma minus	Spreading Rope-rush
GF	Pteridium esculentum	Austral Bracken
EP	Amyema pendula	Drooping Mistletoe
SC	Billardiera scandens	Common Apple-berry

Recruitment:

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

Organic Litter:

40 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code **Typical Weed Species Common Name** Invasive **Impact** MΗ Hypochoeris radicata Cat's Ear

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

EVC 53: Swamp Scrub

Description:

Closed scrub to 8 m tall at low elevations on alluvial deposits along streams or on poorly drained sites with high nutrient and water availability. Soils vary from organic loams to fine silts and peats which are inundated during the wetter months of the year and is dominated by Woolly Tea-tree *Leptospermun lanigerum* which often forms a dense impenetrable thicket, outcompeting other species. Emergent trees (eg. Swamp Gum *Eucalyptus ovata*) may some times be present. Where light penetrates to ground level, a moss/lichen/liverwort herbaceous ground cover is often present.

Canopy Cover:

%cover	Character Species	Common Name
60%	Leptospermum lanigerum	Woolly Tea-tree
	Melaleuca squarrosa	Scented Paperbark
	Acacia melanoxylon	Blackwood

Understorey:

Life form	#Spp	%Cover	LF code
Large Herb	5	10%	LH
Medium Herb	13	30%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	9	15%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	7	15%	MTG
Bryophytes/Lichens	na	20%	BL

LF Code LH LH LH MH MH MH	Species typical of at least part of EVC range Persicaria decipiens Villarsia reniformis Epilobium pallidiflorum Hydrocotyle pterocarpa Lilaeopsis polyantha Hydrocotyle muscosa	Common Name Slender Knotweed Running Marsh-flower Showy Willow-herb Wing Pennywort Australian Lilaeopsis Mossy Pennywort
SH	Lobelia pedunculata s.l.	Matted Pratia
SH	Crassula helmsii	Swamp Crassula
LTG	Juncus procerus	Tall Rush
LTG	Gahnia clarkei	Tall Saw-sedge
LTG	Deyeuxia quadriseta	Reed Bent-grass
LTG	Amphibromus recurvatus	Dark Swamp Wallaby-grass
MTG	Schoenus maschalinus	Leafy Bog-sedge
MTG	k Lachnagrostis filiformis (perennial variety)	Wetland Blown-grass
MTG	Juncus planifolius	Broad-leaf Rush

Recruitment:

Continuous

Organic Litter:

20% Cover



EVC 53: Swamp Scrub - Victorian Volcanic Plain bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Rumex crispus	Curled Dock	high	low
MH	Lotus suaveolens	Hairy Bird's-foot Trefoil	high	high
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Juncus bulbosus	Bulbous Rush	high	high

Published by the Victorian Government Department of Sustainability and Environment November 2007

© The State of Victoria Department of Sustainability and Environment 2007

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, $136\ 186$

Description:

An open, eucalypt woodland to 15 m tall. Occupies poorly drained, fertile soils on flat or gently undulating plains at low elevations. The understorey consists of a few sparse shrubs over a species-rich grassy and herbaceous ground layer. This variant occupies areas receiving approximately 500 - 700 mm annual rainfall.

Large trees:

SpeciesDBH(cm) #/ha
Eucalyptus spp.
80 cm
8 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name10%Eucalyptus camaldulensisRiver Red Gum

Understorey:

macrotorcy:			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	3	10%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	12	45%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	Acacia pycnantha	Golden Wattle
MS	Acacia paradoxa	Hedge Wattle
SS	Pimelea humilis	Common Rice-flower
PS	Astroloma humifusum	Cranberry Heath
PS	Bossiaea prostrata	Creeping Bossiaea
MH	Oxalis perennans	Grassland Wood-sorrel
MH	Gonocarpus tetragynus	Common Raspwort
MH	Acaena echinata	Sheep's Burr
SH	Dichondra repens	Kidney-weed
SH	Hydrocotyle laxiflora	Stinking Pennywort
LTG	Austrostipa mollis	Supple Spear-grass
LTG	Austrostipa bigeniculata	Kneed Spear-grass
MTG	Themeda triandra	Kangaroo Grass
MTG	Elymus scaber var. scaber	Common Wheat-grass
MTG	Austrodanthonia setacea	Bristly Wallaby-grass
MTG	Austrodanthonia racemosa var. racemosa	Stiped Wallaby-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.



EVC 55_61: Plains Grassy Woodland - Victorian Volcanic Plain bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	African Box-thorn	high	high
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Plantago lanceolata	Ribwort	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, $136\ 186$

Grassy or sedgy woodland to 15 m tall with large inter-tussock spaces potentially supporting a range of annual or geophytic herbs adapted to low summer rainfall, with low overall biomass. Mostly occurs on terrain of low relief in areas receiving <600 mm rainfall per annum. Fertile, sometimes seasonally waterlogged, mostly silty, loamy or clay topsoils, with heavy subsoils, derived largely from former Quaternary swamp deposits.

Large Trees:

Species	DBH(cm)	#/ha
Allocasuarina luehmannii	40 cm	15 / ha
Eucalyptus spp.	70 cm	

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	Eucalyptus melliodora	Yellow Box
	Eucalyptus microcarpa	Grey Box
	Allocasuarina luehmannii	Buloke
	Eucalyptus leucoxylon	Yellow Gum

Understorey:

Lifeform	#Spp	%Cover	LF Code
Immature Canopy Tree		5%	IT
Medium Shrub	2	5%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	20	20%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	16	45%	MTG
Medium to Tiny Non-Tufted Graminoid	3	5%	MNG
Bryophytes/Lichens		10%	BL
Soil Crust		10%	S/C



EVC 55_62: Riverina Plains Grassy Woodland (syn. EVC 803 -Plains Woodland)

LF Code	Species typical of at least part of EVC range	Common Name
MS	Acacia acinacea s.l.	Gold-dust Wattle
MS	Acacia pycnantha	Golden Wattle
SS	Eutaxia microphylla var. microphylla	Common Eutaxia
PS	Astroloma humifusum	Cranberry Heath
LH	Senecio quadridentatus	Cotton Fireweed
MH	Acaena echinata	Sheep's Burr
MH	Calocephalus citreus	Lemon Beauty-heads
MH	Maireana enchylaenoides	Wingless Bluebush
MH	Plantago gaudichaudii	Narrow Plantain
SH	Daucus glochidiatus	Australian Carrot
SH	Goodenia pinnatifida	Cut-leaf Goodenia
SH	Oxalis perennans	Grassland Wood-sorrel
SH	Solenogyne dominii	Smooth Solenogyne
LTG	Austrostipa bigeniculata	Kneed Spear-grass
MTG	Austrodanthonia caespitosa	Common Wallaby-grass
MTG	Austrodanthonia setacea	Bristly Wallaby-grass
MTG	Austrostipa scabra	Rough Spear-grass
MTG	Dianella revoluta var. revoluta s.l.	Black-anther Flax-lily
MNG	Wurmbea dioica	Common Early Nancy

Recruitment:

Continuous.

Organic Litter:

10 % cover

Logs:

10 m/0.1ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Arctotheca calendula	Cape Weed	high	low
MH	Petrorhagia dubia	Velvety Pink	high	low
MH	Trifolium dubium	Suckling Clover	high	low
MH	Anagallis arvensis	Pimpernel	high	low
SH	Trifolium glomeratum	Cluster Clover	high	low
LNG	Avena fatua	Wild Oat	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Lolium rigidum	Wimmera Rye-grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MNG	Vulpia myuros	Rat's-tail Fescue	high	low
MNG	Juncus capitatus	Capitate Rush	high	low
MNG	Bromus rubens	Red Brome	high	low
МН	Trifolium angustifolium var. angustifolium	Narrow-leaf Clover	high	low

For more information contact: Customer Service Centre, 136 186

Published by the Victorian Government Department of Sustainability and Environment
© The State of Victoria Government Department of Sustainability and Environment 2004
This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-comercial is authorised, on condition that:

• the copyright owner is acknowledged;

• no official connection is claimed;

• the material is made available without charge or cost; and

• the material is made available without charge or cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson St, East Melbourne, Victoria 3002.



An open, eucalypt woodland to 15 m tall or acacia/sheoak woodland to 10 m tall. Occupies poorly drained, fertile soils on flat or gently undulating plains at low elevations. The understorey consists of a few sparse shrubs over a species-rich grassy and herbaceous ground layer. This variant occupies areas receiving greater than 700 mm annual rainfall.

Large trees:

Species	DBH(cm)	#/ha
Eucalyptus spp.	70 cm	15 / ha
Acacia melanoxylon	40 cm	
Allocasuarina verticillata	40 cm	

Tree Canopy Cover:

%cover	Character Species	Common Name
20%	Eucalyptus ovata	Swamp Gum
	Eucalyptus viminalis	Manna Gum
	Acacia melanoxylon	Blackwood
	Allocasuarina verticillata	Drooping Sheoak

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	3	10%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	12	45%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	Acacia pycnantha	Golden Wattle
MS	Acacia paradoxa	Hedge Wattle
SS	Pimelea humilis	Common Rice-flower
PS	Astroloma humifusum	Cranberry Heath
PS	Bossiaea prostrata	Creeping Bossiaea
MH	Leptorhynchos squamatus	Scaly Buttons
MH	Chysocephalum apiculatum	Common Everlasting
MH	Gonocarpus tetragynus	Common Raspwort
MH	Acaena echinata	Sheep's Burr
SH	Dichondra repens	Kidney-weed
SH	Hydrocotyle laxiflora	Stinking Pennywort
LTG	Austrostipa mollis	Supple Spear-grass
LTG	Austrostipa bigeniculata	Kneed Spear-grass
MTG	Themeda triandra	Kangaroo Grass
MTG	Poa morrisii	Soft Tussock-grass
MTG	Austrodanthonia setacea	Bristly Wallaby-grass
MTG	Austrodanthonia racemosa var. racemosa	Stiped Wallaby-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass

Recruitment:

Continuous



EVC 55_63: Higher Rainfall Plains Grassy Woodland - Victorian Volcanic Plain bioregion

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	African Box-thorn	high	high
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Plantago lanceolata	Ribwort	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low

Published by the Victorian Government Department of Sustainability and Environment April 2005

© The State of Victoria Department of Sustainability and Environment 2005

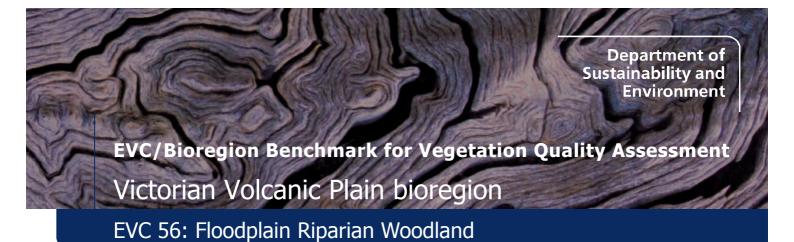
This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



An open eucalypt woodland to 20 m tall over a medium to tall shrub layer with a ground layer consisting of amphibious and aquatic herbs and sedges. Occurs along the banks and floodplains of the larger meandering rivers and major creeks, often in conjunction with one or more floodplain wetland communities. Elevation and rainfall are relatively low and soils are fertile alluviums subject to periodic flooding and inundation.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 80 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name20%Eucalyptus camaldulensisRiver Red-gumEucalyptus ovataSwamp Gum

Life Forms:

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

LF Code T MS	Species typical of at least part of EVC range Acacia melanoxylon Bursaria spinosa ssp. spinosa	Common Name Blackwood Sweet Bursaria
MS	Acacia pycnantha	Golden Wattle
MS	Myoporum sp. 1	Sticky Boobialla
LH	Senecio glomeratus	Annual Fireweed
MH	Rumex brownii	Slender Dock
SH	Dichondra repens	Kidney-weed
SH	Crassula helmsii	Swamp Crassula
SH	Selliera radicans	Shiny Swamp-mat
SH	Hydrocotyle sibthorpioides	Shining Pennywort
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Gahnia filum	Chaffy Saw-sedge
LTG	Poa labillardierei	Common Tussock-grass
LTG	Juncus kraussii ssp. australiensis	Sea Rush
LNG	Phragmites australis	Common Reed
MTG	Lachnagrostis filiformis	Common Blown-grass
MTG	Austrodanthonia penicillata	Slender Wallaby-grass
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MTG	Bulbine bulbosa	Bulbine Lily
MNG	Triglochin striatum	Streaked Arrowgrass
MNG	Schoenus nitens	Shiny Bog-sedge
MNG	Distichlis distichophylla	Australian Salt-grass
EP	Muellerina eucalyptoides	Creeping Mistletoe
SC	Cassytha melantha	Coarse Dodder-laurel
SC	Calystegia sepium	Large Bindweed



EVC 56: Floodplain Riparian Woodland - Victorian Volcanic Plain bioregion

Recruitment:

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

Organic Litter:

40 % cover

Logs:

30 m/0.1 ha.

Weediness:

weediness:	l .			
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rosa rubiginosa	Sweet Briar	high	high
LH	Rumex conglomeratus	Clustered Dock	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Rumex crispus	Curled Dock	high	high
LH	Helminthotheca echioides	Ox-tongue	high	low
LH	Aster subulatus	Aster-weed	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Plantago lanceolata	Ribwort	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Plantago major	Greater Plantain	high	low
MH	Brassica fruticulosa	Twiggy Turnip	high	high
MH	Atriplex prostrata	Hastate Orache	high	high
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Cyperus eragrostis	Drain Flat-sedge	high	high
MTG	Bromus catharticus	Prairie Grass	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	high
MNG	Paspalum distichum	Water Couch	high	high

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

EVC 61: Box Ironbark Forest

Description:

Occurs in low rainfall areas (<550 mm per annum) on gently undulating rises, low hills and peneplains on infertile, often stony soils derived from a range of geologies. The open overstorey consists of a variety of eucalypts to 20 m tall, often including one of the Ironbark species. The mid storey often forms a dense to open small tree or shrub layer over an open ground layer ranging from a sparse to well-developed suite of herbs and grasses.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name20%Eucalyptus macrorhyncha
Eucalyptus goniocalyx s.l.
Eucalyptus leucoxylon
Eucalyptus goniocalyx s.s.Bundy
Yellow Gum
Bundy

Understorey:

on a croscor cyr			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	5	20%	MS
Small Shrub	2	5%	SS
Large Herb	2	1%	LH
Medium Herb	8	20%	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	8	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Scrambler or Climber*	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
* Largely seasonal life form			
Totaldougtour. wests ative foliage cover		000/	

Total understorey projective foliage cover

90%



EVC 61: Box Ironbark Forest - Victorian Volcanic Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	Acacia pycnantha	Golden Wattle
MS	Acacia paradoxa	Hedge Wattle
MS	Cassinia arcuata	Drooping Cassinia
MS	Brachyloma daphnoides	Daphne Heath
SS	Hovea heterophylla	Common Hovea
SS	Dillwynia sericea s.l.	Showy Parrot-pea
LH	Senecio quadridentatus	Cotton Fireweed
MH	Gonocarpus tetragynus	Common Raspwort
MH	Crassula decumbens var. decumbens	Spreading Crassula
MH	Drosera peltata ssp. auriculata	Tall Sundew
SH	Siloxerus multiflorus	Small Wrinklewort
SH	Hyalosperma demissum	Moss Sunray
SH	Drosera whittakeri ssp. aberrans	Scented Sundew
SH	Drosera glanduligera	Scarlet Sundew
LTG	Xanthorrhoea minor ssp. lutea	Small Grass-tree
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Joycea pallida	Silvertop Wallaby-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Austrodanthonia setacea	Bristly Wallaby-grass
EP	Amyema miquelii	Box Mistletoe
SC	Thysanotus patersonii	Twining Fringe-lily
SC	Drosera macrantha	Climbing Sundew

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Aira elegantissima	Delicate Hair-grass	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

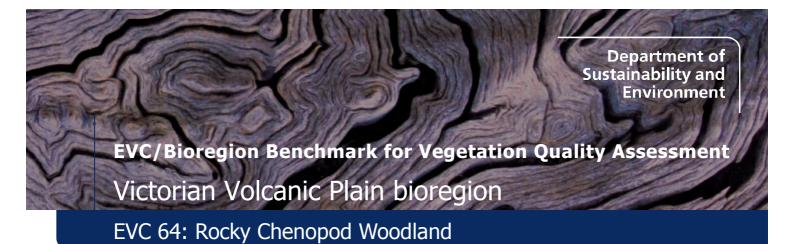
This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, $136\ 186$



Low open (mallee) woodland to 8 m tall with an understorey dominated by chenopod (saltbush) species, occasional grasses and seasonal herbs. Occurs on laterised clays and duplex soils that tend to have a high salt content and are largely impervious to water.

Large trees:

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

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name10%Eucalyptus microcarpa
Eucalyptus leucoxylon
Eucalyptus behrianaGrey Box
Yellow Gum
Bull Mallee

Understorey:

Life form	#Spp	%Cover	LF code
Understorey Tree or Large Shrub	3	5%	T
Medium Shrub	6	25%	MS
Small Shrub	2	5%	SS
Medium Herb	3	10%	MH
Small Herb	1	1%	SH
Medium to Small Tufted Graminoid	3	5%	MTG
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	20%	S/C
Total understorey projective foliage cover		75%	

LF Code		Species typical of at least part of EVC range	Common Name
T		Acacia implexa	Lightwood
T		Exocarpos cupressiformis	Cherry Ballart
T		Allocasuarina verticillata	Drooping Sheoak
T		Melaleuca lanceolata ssp. lanceolata	Moonah
MS	r	Rhagodia parabolica	Fragrant Saltbush
MS		Dodonaea viscosa ssp. cuneata	Wedge-leaf Hop-bush
MS		Acacia acinacea s.l.	Gold-dust Wattle
SS		Enchylaena tomentosa var. tomentosa	Ruby Saltbush
MH		Einadia hastata	Saloop
MH		Einadia nutans ssp. nutans	Nodding Saltbush
MH		Carpobrotus modestus	Inland Pigface
SH		Dichondra repens	Kidneyweed
MTG		Austrodanthonia setacea	Bristly Wallaby-grass
MTG		Austrodanthonia caespitosa	Common Wallaby-grass
MTG		Austrostipa densiflora	Dense Spear-grass
SC		Cassytha melantha	Coarse Dodder-laurel
SC		Clematis microphylla	Small-leaved Clematis



EVC 64: Rocky Chenopod Woodland - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

10 % cover

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	African Box-thorn	low	high
SS	Galenia pubescens var. pubescens	Galenia	high	high
LH	Phytolacca octandra	Red-ink Weed	high	high
MTG	Ehrharta longiflora	Annual Veldt-grass	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

Open woodland to 15 m tall on broad alluvial plains and along ephemeral drainage lines. Soils are generally poorly drained duplex soils with sandy loam overlying a heavier clay subsoil. Understorey consists of few, if any shrubs with the striking feature of this EVC being the high species-richness of the ground-layer and the low biomass of this cover, particularly in summer.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 10 / ha

EVC 67: Alluvial Terraces Herb-rich Woodland

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus camaldulensis
Eucalyptus melliodoraRiver Red-gum
Yellow Box

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	10%	T
Medium Shrub	5	15%	MS
Small Shrub	4	5%	SS
Prostrate Shrub	2	5%	PS
Large Herb	2	5%	LH
Medium Herb	15	15%	MH
Small or Prostrate Herb*	8	10%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	10	15%	MTG
Medium to Tiny Non-tufted Graminoid	4	10%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

Recruitment:

* Largely seasonal life form

Continuous

Organic Litter:

10 % cover

Logs:

15 m/0.1 ha.



EVC 67: Alluvial Terraces Herb-rich Woodland -Victorian Volcanic Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia mearnsii	Black Wattle
MS	Banksia marginata	Silver Banksia
MS	Leptospermum continentale	Prickly Tea-tree
MS	Brachyloma daphnoides	Daphne Heath
MS	Leptospermum scoparium	Manuka
SS	Hibbertia fasciculata var. prostrata	Bundled Guinea-flower
SS	Hibbertia riparia	Erect Guinea-flower
SS	Hibbertia stricta s.l.	Upright Guinea-flower
PS	Astroloma humifusum	Cranberry Heath
PS	Acrotriche serrulata	Honey-pots
LH	Wahlenbergia stricta	Tall Bluebell
MH	Hypericum gramineum	Small St John's Wort
MH	Drosera peltata ssp. peltata	Pale Sundew
MH	Poranthera microphylla	Small Poranthera
SH	Viola cleistogamoides	Hidden Violet
SH	Siloxerus multiflorus	Small Wrinklewort
SH	Drosera pygmaea	Tiny Sundew
SH	Solenogyne dominii	Smooth Solenogyne
LTG	Deyeuxia quadriseta	Reed Bent-grass
LTG	Austrostipa mollis	Supple Spear-grass
MTG	Luzula meridionalis	Common Woodrush
MTG	Schoenus apogon	Common Bog-sedge
MTG	Juncus subsecundus	Finger Rush
MTG	Austrodanthonia setacea	Bristly Wallaby-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Triglochin nanum	Dwarf Arrowgrass
TTG	Centrolepis strigosa ssp. strigosa	Hairy Centrolepis
TTG	Centrolepis aristata	Pointed Centrolepis
TTG	Aphelia pumilio	Dwarf Aphelia
SC	Thysanotus patersonii	Twining Fringe-lily

Weediness:

LF Co	de Typical Weed Species	Common Name	Invasive	Impact
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Hypochoeris qlabra	Smooth Cat's-ear	high	low
MH	Cicendia filiformis	Slender Cicendia	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MH	Moenchia erecta	Erect Chickweed '	high	low
MH	Parentucellia latifolia	Red Bartsia	high	low
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MNG	Juncus capitatus	Capitate Rush	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low
TTG	Cyperus tenellus	Tiny Flat-sedge	high	low
TTG	Isolepis hystrix	Awned Club-sedge	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



EVC 68: Creekline Grassy Woodland

Description:

Eucalypt-dominated woodland to 15 m tall with occasional scattered shrub layer over a mostly grassy/sedgy to herbaceous ground-layer. Occurs on low-gradient ephemeral to intermittent drainage lines, typically on fertile colluvial/alluvial soils, on a wide range of suitably fertile geological substrates. These minor drainage lines can include a range of graminoid and herbaceous species tolerant of waterlogged soils, and are presumed to have sometimes resembled a linear wetland or system of interconnected small ponds.

Large trees:

Species DBH(cm) #/ha
Eucalyptus spp. 80 cm 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus camaldulensisRiver Red-gum

Understorey:

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

LF Code	Species typical of at least part of EVC range Acacia melanoxylon	Common Name Blackwood
T	Acacia retinodes	Wirilda
MS	Hymenanthera dentata s.l.	Tree Violet
SS	Rubus parvifolius	Small-leaf Bramble
SS	Enchylaena tomentosa var. tomentosa	Ruby Saltbush
MH	Oxalis perennans	Grassland Wood-sorrel
SH	Azolla filiculoides	Pacific Azolla
SH	Lemna disperma	Common Duckweed
LTG	Austrostipa bigeniculata	Kneed Spear-grass
LTG	Poa labillardierei	Common Tussock-garss
LNG	Phragmites australis	Common Reed
MTG	Austrodanthonia racemosa var. racemosa	Stiped Wallaby-grass
MTG	Austrodanthonia caespitosa	Common Wallaby-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
SC	Glycine clandestina	Twining Glycine



EVC 68: Creekline Grassy Woodland - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

20 m/0.1 ha.

Weediness:

weeainess:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	Salix fragilis	Crack Willow	high	high
MS	Lycium ferocissimum	African Box-thorn	high	high
MS	Genista monspessulana	Montpellier Broom	high	high
MS	Rosa rubiginosa	Sweet Briar	high	high
MS	Rubus sp. aff. armeniacus	Blackberry	high	high
LH	Plantago lanceolata	Ribwort	high	low
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Hirschfeldia incana	Buchan Weed	high	high
LH	Verbena bonariensis s.l.	Purple-top Verbena	high	high
LH	Rumex crispus	Curled Dock	high	high
LH	Rumex conglomeratus	Clustered Dock	high	high
LH	Conium maculatum	Hemlock	high	high
LH	Helminthotheca echioides	Ox-tongue	high	low
LH	Aster subulatus	Aster-weed	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Solanum nigrum sensu Willis (1972)	Black Nightshade	high	high
MH	Brassica fruticulosa	Twiggy Turnip	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Foeniculum vulgare	Fennel	high	high
SH	Modiola caroliniana	Red-flower Mallow	high	low
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
LTG	Piptatherum miliaceum	Rice Millet	high	high
MTG	Ehrharta erecta var. erecta	Panic Veldt-grass	high	high
MTG	Paspalum dilatatum	Paspalum	high	high
MTG	Bromus catharticus	Prairie Grass	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Bromus diandrus	Great Brome	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Agrostis capillaris s.l.	Brown-top Bent	high	high
MNG	Dactylis glomerata	Cocksfoot	high	high
MNG	Paspalum distichum	Water Couch	high	high
SC	Tradescantia fluminensis	Wandering Jew	high	high

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



EVC 71: Hills Herb-rich Woodland

Description:

A dry, open eucalypt woodland to 15 m tall often with a sparse shrub layer. The understorey is dominated by a carpet of herbs and grasses. Soils are generally shallow but fertile, and outcropping rock is not uncommon. This seasonally dry environment is favourable for annual herbs, with the fertile nature of the various geologies also supporting perennial herbs. Landform can vary from relatively flat ground to ridge tops on sedimentary sandstones (along seams of mineral-rich sandstone) to undulating, rounded, granite hill landforms.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus microcarpa
Eucalyptus melliodora
Eucalyptus camaldulensisGrey Box
Yellow Box
River Red-gum

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	2	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	5%	LH
Medium Herb	4	5%	MH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	8	25%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		75%	



EVC 71: Hills Herb-rich Woodland - Victorian Volcanic Plain bioregion

LF Code	Species typical of at least part of EVC range Allocasuarina verticillata	Common Name Drooping Sheoak
MS	Acacia pycnantha	Golden Wattle
MS	Acacia paradoxa	Hedge Wattle
MS	Ozothamnus obcordatus	Grey Everlasting
PS	Bossiaea prostrata	Creeping Bossiaea
MH	Hypericum gramineum	Small St John's Wort
MH	Gonocarpus tetragynus	Common Raspwort
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Themeda triandra	Kangaroo Grass
MTG	Tricoryne elatior	Yellow Rush-lily
MNG	Microlaena stipoides var. stipoides	Weeping Grass

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Published by the Victorian Government Department of Sustainability and Environment April 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

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

 Eucalyptus spp.
 60 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus macrorhyncha
Eucalyptus goniocalyx s.l.Red Stringybark
Bundy

Understorey:

iluci store y r			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	5	5%	MS
Large Herb	4	10%	LH
Medium Herb	9	15%	MH
Small or Prostrate Herb	2	5%	SH
Medium to Small Tufted Graminoid	11	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	1%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		85%	



EVC 72: Granitic Hills Woodland - Victorian Volcanic Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Exocarpos cupressiformis	Cherry Ballart
T	Acacia mearnsii	Black Wattle
MS	Brachyloma daphnoides	Daphne Heath
MS	Grevillea alpina	Cat's Claw Grevillea
MS	Indigofera australis	Austral Indigo
MS	Acacia verniciflua	Varnish Wattle
SS	Dillwynia sericea s.l.	Showy Parrot-pea
PS	Acrotriche serrulata	Honey-pots
LH	Stypandra glauca	Nodding Blue-lily
LH	Wahlenbergia stricta	Tall Bluebell
LH	Senecio quadridentatus	Cotton Fireweed
LH	Senecio hispidulus	Rough Fireweed
MH	Gonocarpus elatus	Tall Raspwort
MH	Senecio hispidulus var. dissectus	Rough Fireweed
MH	Isotoma axillaris	Rock Isotome
MH	Geranium solanderi s.l.	Austral Cranesbill
SH	Hydrocotyle laxiflora	Stinking Pennywort
SH	Crassula sieberiana	Sieber Crassula
SH	Cymbonotus preissianus	Austral Bear's-ear
MTG	Joycea pallida	Silvertop Wallaby-grass
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Hemarthria uncinata var. uncinata	Mat Grass
TTG	Centrolepis strigosa ssp. strigosa	Hairy Centrolepis
GF	Cheilanthes austrotenuifolia	Green Rock-fern
GF	Pteridium esculentum	Austral Bracken
GF	Cheilanthes sieberi ssp. sieberi	Narrow Rock-fern
EP	Amyema pendula	Drooping Mistletoe
SC	Hardenbergia violacea	Purple Coral-pea
SC	Comesperma volubile	Love Creeper
SC	Thysanotus patersonii	Twining Fringe-lily

Recruitment:

Continuous

Organic Litter:

20 % cover

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Carduus pycnocephalus	Slender Thistle	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MH	Trifolium arvense var. arvense	Hare's-foot Clover	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Bromus diandrus	Great Brome	high	low
MNG	Aira spp.	Hair Grass	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, $136\ 186$



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

 Eucalyptus spp.
 70 cm
 10 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name20%Eucalyptus ovataSwamp Gum

Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia melanoxylon	Blackwood
T	Acacia mearnsii	Black Wattle
MS	Olearia glandulosa	Swamp Daisy-bush
MS	Acacia verticillata ssp. verticillata	Prickly Moses
MS	Leptospermum lanigerum	Woolly Tea-tree
MS	Ozothamnus rosmarinifolius	Rosemary Everlasting
LH	Senecio minimus	Shrubby Fireweed
LH	Persicaria praetermissa	Spotted Knotweed
LH	Epilobium billardierianum	Variable Willow-herb
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Geranium potentilloides	Cinquefoil Cranesbill
MH	Oxalis exilis	Shady Wood-sorrel
MH	Euchiton involucratus s.l.	Star Cudweed
SH	Leptinella reptans s.l.	Creeping Cotula
SH	Hydrocotyle sibthorpioides	Shining Pennywort
SH	Hydrocotyle hirta	Hairy Pennywort
SH	Dichondra repens	Kidneyweed
LTG	Juncus procerus	Tall Rush
LTG	Cyperus lucidus	Leafy Flat-sedge
LTG	Juncus pallidus	Pale Rush
LTG	Poa labillardierei	Common Tussock-grass
MTG	Juncus planifolius	Broad-leaf Rush
MTG	Juncus pauciflorus	Loose-flower Rush
MTG	Triglochin procerum s.l.	Water Ribbons
MNG	Hemarthria uncinata var. uncinata	Mat Grass
MNG	Triglochin striatum	Streaked Arrowgrass
GF	Pteridium esculentum	Austral Bracken
SC	Calystegia sepium	Large Bindweed



EVC 83: Swampy Riparian Woodland - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

Weediness:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rubus sp. aff. armeniacus	Blackberry	high	high
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Plantago lanceolata	Ribwort	high	low
LH	Parentucellia viscosa	Yellow Bartsia	high	low
MH	Lotus corniculatus	Bird's-foot Trefoil	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Acetosella vulgaris	Sheep Sorrel	high	low
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
MH	Anagallis arvensis	Pimpernel	high	low
SH	Trifolium repens var. repens	White Clover	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MTG	Lolium perenne	Perennial Rye-grass	high	high
MTG	Juncus articulatus	Jointed Rush	high	high
MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
MNG	Vulpia spp.	Fescue	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

EVC 104: Lignum Swamp

Description:

Shrubland to 3 m tall or open woodland to 15 m tall, with an understorey that can be rich in herbaceous species. Occurs on inundation-prone heavy grey soils in depressions or floodways in low rainfall areas.

Large trees+:

SpeciesDBH(cm)#/haEucalyptus spp.80 cm5

Tree Canopy Cover+:

%coverCharacter SpeciesCommon Name10%Eucalyptus camaldulensisRiver Red Gum

Life forms:

2110 10111101			
Life form	#Spp	%Cover	LF code
Immatrure Canopy Tree ⁺		5%	IT
Medium Shrub	1	20%	MS
Large Herb	2	5%	LH
Medium Herb	3	15%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	6	20%	MTG
Medium to Tiny Non-tufted Graminoid	3	10%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	Muehlenbeckia florulenta	Lignum
LH	Brachyscome basaltica var. gracilis	Woodland Swamp-daisy
LH	Rumex brownii	Slender Dock
MH	Marsilea drummondii	Common Nardoo
MH	Alternanthera denticulata s.l.	Lesser Joyweed
MH	Myriophyllum muelleri	Hooded Water-milfoil
SH	Eryngium vesiculosum	Prickfoot
SH	Lobelia pratioides	Poison Lobelia
SH	Lobelia concolor	Poison Pratia
LTG	Amphibromus nervosus	Common Swamp Wallaby-grass
MTG	Lachnagrostis filiformis	Common Blown-grass
MTG	Juncus subsecundus	Finger Rush
MTG	Austrodanthonia duttoniana	Brown-back Wallaby-grass
MNG	Eleocharis acuta	Common Spike-sedge
MNG	Eleocharis pusilla	Small Spike-sedge

Recruitment:

Episodic/Flood - Desirable period between disturbances is 10 years.

Organic Litter:

10 % cover

Logs+:

5 m/0.1 ha.



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

EVC 104: Lignum Swamp - Victorian Volcanic Plain bioregion

Weediness:

LF Code MS LH LH LH LH LH H MH MH MTG	Typical Weed Species Lycium ferocissimum Cirsium vulgare Sonchus oleraceus Helminthotheca echioides Cynara cardunculus Sonchus asper s.l. Aster subulatus Hypochoeris radicata Cerastium glomeratum s.l. Nassella trichotoma Lolium rigidum	Common Name African Box-thorn Spear Thistle Common Sow-thistle Ox-tongue Spanish Artichoke Rough Sow-thistle Aster-weed Cat's Ear Common Mouse-ear Chickweed Serrated Tussock Wimmar Rye-grass	Invasive high high high high high high high hig	Impact high high low high low low low low low high
MTG MTG	Lolium rigidum Bromus hordeaceus ssp. hordeaceus	Wimmera Rye-grass Soft Brome	high high	low low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low

Published by the Victorian Government Department of Sustainability and Environment October 2005

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



EVC 125: Plains Grassy Wetland

Description:

This EVC is usually treeless, but in some instances can include sparse River Red Gum *Eucalyptus camaldulensis* or Swamp Gum *Eucalyptus ovata*. A sparse shrub component may also be present. The characteristic ground cover is dominated by grasses and small sedges and herbs. The vegetation is typically species-rich on the outer verges but is usually species-poor in the wetter central areas.

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	5	5%	LH
Medium Herb	6	10%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	3	15%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	8	30%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Bryophytes/Lichens	na	10%	BL

LF Code	Species typical of at least part of EVC range	Common Name
LH	Epilobium billardierianum	Variable Willow-herb
LH	Villarsia reniformis	Running Marsh-flower
LH	Epilobium billardierianum ssp. cinereum	Grey Willow-herb
MH	Potamogeton tricarinatus s.l.	Floating Pondweed
MH	Lilaeopsis polyantha	Australian Lilaeopsis
MH	Utricularia dichotoma s.l.	Fairies' Aprons
SH	Eryngium vesiculosum	Prickfoot
SH	Neopaxia australasica	White Purslane
SH	Lobelia pratioides	Poison Lobelia
LTG	Juncus flavidus	Gold Rush
LTG	Deyeuxia quadriseta	Reed Bent-grass
LTG	Amphibromus nervosus	Common Swamp Wallaby-grass
LTG	Poa labillardierei	Common Tussock-grass
MTG	Triglochin procerum s.l.	Water Ribbons
MTG	Glyceria australis	Australian Sweet-grass
MTG	Juncus holoschoenus	Joint-leaf Rush
MTG	Austrodanthonia duttoniana	Brown-back Wallaby-grass
MNG	Eleocharis acuta	Common Spike-sedge
MNG	Eleocharis pusilla	Small Spike-sedge

Recruitment:

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

Organic Litter:

20% cover

Logs

5 m/0.1 ha.(where trees are overhanging the wetland)



EVC 125: Plains Grassy Wetland - Victorian Volcanic Plain bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Romulea rosea	Onion Grass	high	low
TTG	Cyperus tenellus	Tiny Flat-sedge	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



Low growing forest to 20 m tall with an understorey of small and medium shrubs and a rich diversity of herbs. Large shrubs and understorey trees may also be conspicuous. Often grows in areas transitional between drier box stringybark forests and taller herb-rich forests typical of more favourable environments.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name30%Eucalyptus obliquaMessmate StringybarkEucalyptus rubidaCandlebarkEucalyptus radiata s.l.Narrow-leaf Peppermint

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	3	10%	MS
Small Shrub	4	5%	SS
Prostrate Shrub	2	1%	PS
Large Herb	3	5%	LH
Medium Herb	10	15%	MH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	9	30%	MTG
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		80%	

LF Code MS MS	Species typical of at least part of EVC range Epacris impressa Daviesia leptophylla	Common Name Common Heath Narrow-leaf Bitter-pea
MS SS	Pultenaea gunnii Hovea heterophylla	Golden Bush-pea Common Hovea
SS	Dillwynia cinerascens s.l.	Grey Parrot-pea
SS	Leucopogon virgatus	Common Beard-heath
SS	Tetratheca ciliata	Pink-bells
PS	Acrotriche serrulata	Honey-pots
PS	Platylobium formosum	Handsome Flat-pea
LH	Senecio tenuiflorus	Slender Fireweed
LH	Senecio glomeratus	Annual Fireweed
LH	Wahlenbergia gymnoclada	Naked Bluebell
MH	Helichrysum scorpioides	Button Everlasting
MH	Poranthera microphylla	Small Poranthera
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Gonocarpus tetragynus	Common Raspwort
SH	Opercularia varia	Variable Stinkweed
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Dichelachne sciurea spp. agg.	Short-hair Plume-grass
MTG	Stylidium graminifolium s.l.	Grass Trigger-plant
GF	Pteridium esculentum	Austral Bracken
SC	Hardenbergia violacea	Purple Coral-pea



EVC 128: Grassy Forest - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	Pinus radiata	Radiata Pine	low	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MTG	Agrostis capillaris s.l.	Brown-top Bent	high	high

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

Treeless vegetation mostly less than 1 m tall dominated by largely graminoid and herb life forms. Occupies fertile cracking basalt soils prone to seasonal waterlogging in areas receiving at least 500 mm annual rainfall.

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	2	5%	LH
Medium Herb	12	20%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	13	40%	MTG
Medium to Tiny Non-tufted Graminoid	4	5%	MNG
Bryophytes/Lichens and Soil Crust*	na	20%	BL

^{*} Note: treat as one life form in this EVC

LF Code	Species typical of at least part of EVC range	Common Name
SS	Pimelea humilis	Common Rice-flower
LH	Rumex dumosus	Wiry Dock
MH	Calocephalus citreus	Lemon Beauty-heads
MH	Acaena echinata	Sheep's Burr
MH	Leptorhynchos squamatus	Scaly Buttons
MH	Eryngium ovinum	Blue Devil
SH	Solenogyne dominii	Smooth Solenogyne
SH	Lobelia pratioides	Poison Lobelia
LTG	Austrostipa bigeniculata	Kneed Spear-grass
LTG	Dichelachne crinita	Long-hair Plume-grass
MTG	Themeda triandra	Kangaroo Grass
MTG	Austrodanthonia caespitosa	Common Wallaby-grass
MTG	Elymus scaber var. scaber	Common Wheat-grass
MTG	Schoenus apogon	Common Bog-sedge
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Thelymitra pauciflora s.l.	Slender Sun-orchid
MNG	Microtis unifolia	Common Onion-orchid
SC	Convolvulus erubescens	Pink Bindweed

Recruitment:

Episodic/Fire or Grazing. Desirable period between disturbances is 5 years.

Organic Litter:

10% cover



EVC 132_61: Heavier-soils Plains Grassland -Victorian Volcanic Plain bioregion

Weediness:

VVCCuiricss.	1			
LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Plantago lanceolata	Ribwort	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
MH	Trifolium subterraneum	Subterranean Clover	high	low
MH	Plantago coronopus	Buck's-horn Plantain	high	low
MH	Trifolium striatum	Knotted Clover	high	low
MH	Trifolium dubium	Suckling Clover	high	low
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Romulea rosea	Onion Grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Lolium rigidum	Wimmera Rye-grass	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	low
MTG	Nassella neesiana	Chilean Needle-grass	high	high
MNG	Cynosurus echinatus	Rough Dog's-tail	high	low
MNG	Juncus capitatus	Capitate Rush	high	low

Published by the Victorian Government Department of Sustainability and Environment December 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

Treeless vegetation mostly < 1 m tall dominated by largely graminoid and herb life forms. Occupies cracking basalt soils prone to seasonal waterlogging in areas receiving < 500 mm annual rainfall.

Life forms:

2110 10111101			
Life form	#Spp	%Cover	LF code
Small Shrub*	1	5%	SS
Prostrate Shrub	1	5%	PS
Large Herb*	2	5%	LH
Medium Herb	8	20%	MH
Small or Prostrate Herb*	3	10%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	10	30%	MTG
Medium to Tiny Non-tufted Graminoid*	2	5%	MNG
Bryophytes/Lichens and Soil Crust**	na	20%	BL
1.1. 1.1.6.6			

EVC 132_63: Low-rainfall Plains Grassland

^{**} Note: treat as one life form in this EVC

LF Code	Species typical of at least part of EVC range	Common Name
SS	Pimelea curviflora s.s.	Curved Rice-flower
PS	Atriplex semibaccata	Berry Saltbush
LH	Ptilotus macrocephalus	Feather-heads
MH	Acaena echinata	Sheep's Burr
MH	Plantago gaudichaudii	Narrow Plantain
MH	Maireana enchylaenoides	Wingless Bluebush
MH	Calocephalus citreus	Lemon Beauty-heads
SH	Solenogyne dominii	Smooth Solenogyne
SH	Oxalis perennans	Grassland Wood-sorrel
SH	Chamaesyce drummondii	Flat Spurge
SH	Goodenia pinnatifida	Cut-leaf Goodenia
LTG	Austrostipa bigeniculata	Kneed Spear-grass
MTG	Austrostipa scabra	Rough Spear-grass
MTG	Austrostipa nodosa	Knotty Spear-grass
MTG	Whalleya proluta	Rigid Panic
MTG	Austrodanthonia duttoniana	Brown-back Wallaby-grass
TTG	Centrolepis strigosa ssp. strigosa	Hairy Centrolepis
TTG	Centrolepis aristata	Pointed Centrolepis
SC	Convolvulus erubescens spp. agg.	Pink Bindweed

Recruitment:

Episodic/Fire or Grazing. Desirable period between disturbances is 5 years.

Organic Litter:

10% cover



^{*} Largely seasonal life form

EVC 132_63: Low-rainfall Plains Grassland -Victorian Volcanic Plain bioregion

Weediness:

weeumess.				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Plantago lanceolata	Ribwort	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
MH	Trifolium subterraneum	Subterranean Clover	high	low
MH	Plantago coronopus	Buck's-horn Plantain	high	low
MH	Trifolium striatum	Knotted Clover	high	low
MH	Trifolium dubium	Suckling Clover	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Lolium rigidum	Wimmera Rye-grass	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	low
MTG	Nassella neesiana	Chilean Needle-grass	high	high
MNG	Cynosurus echinatus	Rough Dog's-tail	high	low
MNG	Juncus capitatus	Capitate Rush	high	low

Published by the Victorian Government Department of Sustainability and Environment December 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

EVC 134: Sand Forest

Description:

Eucalypt forest to 20 m tall occurring on deep, low fertility sand deposits subject to high fire frequency. The understorey is visually dominated by Austral Bracken and the overall diversity is low.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name30%Eucalyptus viminalis ssp. cygnetensisRough-barked Manna-gum

Understorey:

J.:			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	3	5%	MS
Small Shrub	1	5%	SS
Prostrate Shrub	2	5%	PS
Medium Herb	2	5%	MH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	7	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	1%	MNG
Ground Fern	1	50%	GF
Bryophytes/Lichens	na	10%	BL

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia mearnsii	Black Wattle
MS	Leptospermum continentale	Prickly Tea-tree
MS	Brachyloma daphnoides	Daphne Heath
MS	Acacia paradoxa	Hedge Wattle
SS	Astroloma conostephioides	Flame Heath
PS	Bossiaea prostrata	Creeping Bossiaea
PS	Astroloma humifusum	Cranberry Heath
MH	Goodenia geniculata	Bent Goodenia
MH	Gonocarpus tetragynus	Common Raspwort
LTG	Xanthorrhoea australis	Austral Grass-tree
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Austrodanthonia geniculata	Kneed Wallaby-grass
MTG	Lomandra nana	Dwarf Mat-rush
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

15 m/0.1 ha.



EVC 134: Sand Forest – Victorian Volcanic Plain bioregion

WCCumc33.	
LF Code	Typical Weed Species
MH	Hypochoeris radicata

MH Hypochoeris glabra LNG Holcus lanatus MNG Vulpia bromoides MNG Briza minor MNG Briza maxima MNG Aira elegantissima MNG Holcus setosus MNG Aira praecox

Waadinass:

Common Name	Invasive	Impact
Cat's Ear	high	low
Smooth Cat's-ear	high	low
Yorkshire Fog	high	high
Squirrel-tail Fescue	high	low
Lesser Quaking-grass	high	low
Large Quaking-grass	high	low
Delicate Hair-grass	high	low
Annual Fog	high	low
Early Hair-grass	high	low

Published by the Victorian Government Department of Sustainability and Environment April 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

EVC 136: Sedge Wetland

Description:

Seasonal wetlands containing generally treeless vegetation dominated by sedges. May contain a fringe of shrubs and isolated shrubs may also be present throughout. Usually of low diversity in central areas but richer on verges and in some more ephemeral forms of the EVC. Frequently on soils of high organic content, in depressions with sandy terrain.

Life forms:

Life form	#Spp	%Cover	LF code
Large Herb	1	5%	LH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	2	20%	LTG
Large Non-tufted Graminoid	1	20%	LNG
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		55%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	Leptospermum continentale	Prickly Tea-tree
LH	Villarsia reniformis	Running Marsh-flower
LH	Epilobium billardierianum	Variable Willow-herb
LTG	Baloskian tetraphyllum ssp. tetraphyllum	Tassel Cord-rush
LTG	<i>Triglochin procerum</i> s.l.	Water Ribbons
LTG	Baumea articulata	Jointed Twig-sedge
LNG	Lepidosperma longitudinale	Pithy Sword-sedge
LNG	Baumea rubiginosa s.l.	Soft Twig-rush

Recruitment:

Episodic/Flood. Desirable period between disturbances is 5 years

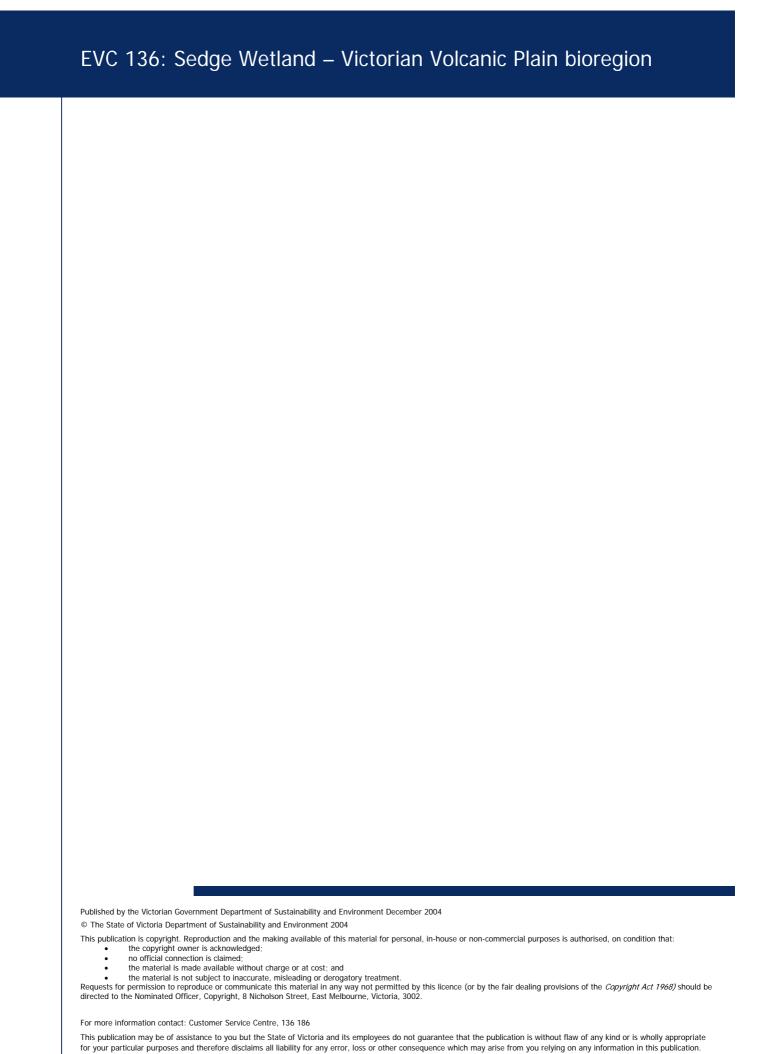
Organic Litter:

10 % cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Cotula coronopifolia	Water Buttons	high	high
MTG	Critesion hystrix	Mediterranean Barley-grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	high
MTG	Briza minor	Lesser Quaking-grass	high	low
MNG	Holcus setosus	Annual Fog	high	high
MNG	Aira elegantissima	Delicate Hair-grass	high	low
TTG	Isolepis hystrix	Awned Club-sedge	high	low
TTG	Cyperus tenellus	Tiny Flat-sedge	high	low





www.dse.vic.gov.au

EVC 140: Mangrove Shrubland

Description:

Shrubland to 2 m tall. Confined to protected low energy coastal environments where there is sufficient shelter from strong wave action and currents to allow the accumulation of fine sediments, generally on mud flats within the tidal zone.

Life Forms:

Life form#Spp%CoverLF codeMedium Shrub140%MSMedium to Tiny Non-tufted Graminoid15%MNGTotal understorey projective foliage cover

LF Code MS Species typical of at least part of EVC range Avicennia marina ssp. australasica Common Name White Mangrove

MNG Zostera muelleri Dwarf Grass-wrack

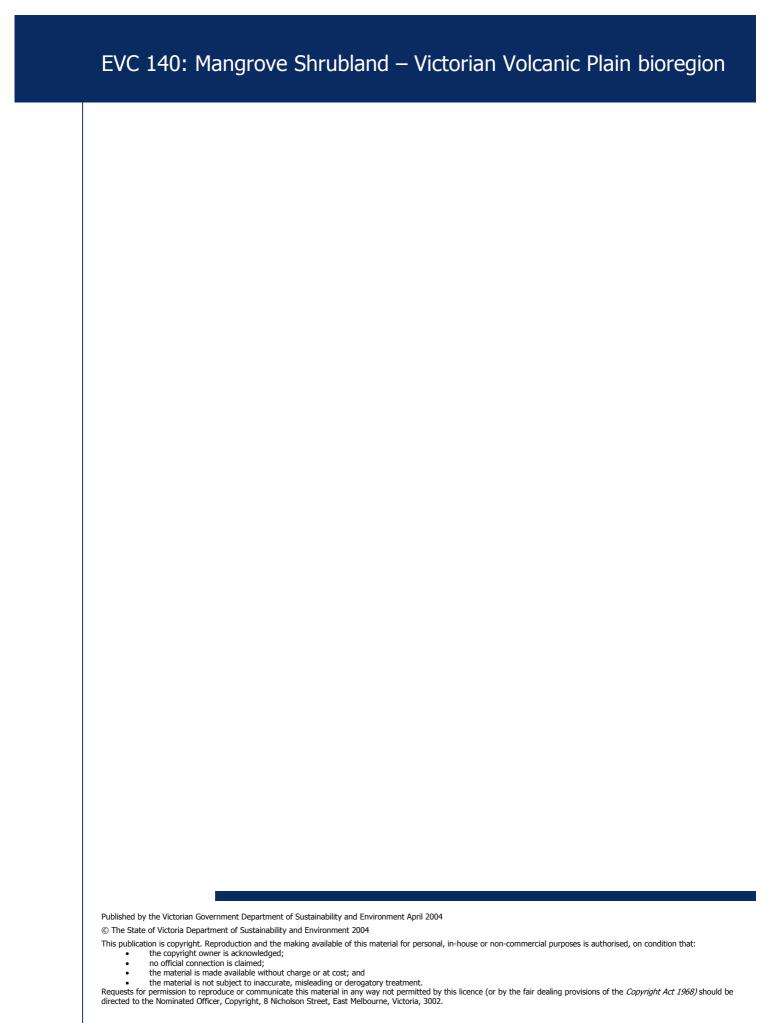
Recruitment:

Continuous

Weediness:

There are no consistent weeds in this EVC.





For more information contact: Customer Service Centre, 136 186

Description:

EVC 160: Coastal Dune Scrub

Coastal Dune Scrub occupies the secondary dunes along ocean and bay beaches and lake shores. Closed scrub to 3 m tall with occasional emergent trees on siliceous and calcareous sands that are subject to high levels of saltspray and continuous disturbance from onshore winds.

Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	5	50%	MS
Small Shrub	3	5%	SS
Large Herb	2	5%	LH
Medium Herb	6	10%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	1%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	Acacia longifolia s.l.	Coast Wattle
MS	Leucopogon parviflorus	Coast Beard-heath
MS	Rhagodia candolleana ssp. candolleana	Seaberry Saltbush
MS	Monotoca elliptica s.l.	Tree Broom-heath
MH	Gonocarpus teucrioides s.l.	Germander Raspwort
SH	Dichondra repens	Kidney-weed
LTG	Lomandra longifolia	Spiny-headed Mat-rush
MTG	Lepidosperma concavum	Sandhill Sword-sedge
MNG	Ficinia nodosa	Knobby Club-sedge
GF	Pteridium esculentum	Austral Bracken

Recruitment:

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

Organic Litter:

40 % cover

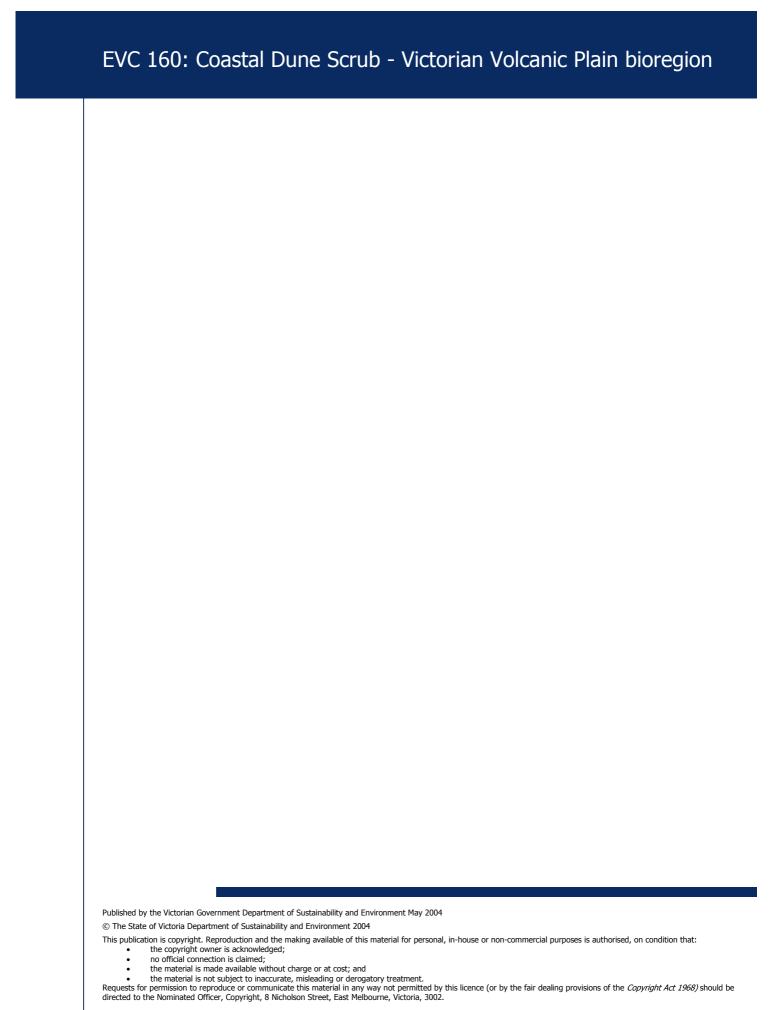
Logs

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

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Plantago coronopus	Buck's-horn Plantain	high	high





For more information contact: Customer Service Centre, 136 186



EVC 161: Coastal Headland Scrub

Description:

Scrub or low shrubland to 2 m tall on steep, rocky coastal headlands often associated with cliffs exposed to the stresses of extreme salt-laden winds and salt spray from the south west. Occurs on shallow sands along rocky sections of the coast.

Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	7	50%	MS
Small Shrub	2	5%	SS
Large Herb	2	1%	LH
Medium Herb	4	5%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		70%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	Leptospermum laevigatum	Coast Tea-tree
MS	Acacia longifolia ssp. sophorae	Coast Wattle
MS	Rhagodia candolleana ssp. candolleana	Seaberry Saltbush
MS	Leucopogon parviflorus	Coast Beard-heath
SS	Leucophyta brownii	Cushion Bush
SH	Dichondra repens	Kidney-weed
SH	Disphyma crassifolium ssp. clavellatum	Rounded Noon-flower
MTG	Dianella brevicaulis	Small-flower Flax-lily
MTG	Lachnagrostis billardierei s.l.	Coast Blown-grass
MTG	Poa poiformis	Coast Tussock-grass
MTG	Austrodanthonia caespitosa	Common Wallaby-grass
MNG	Ficinia nodosa	Knobby Club-sedge
SC	Clematis microphylla	Small-leaved Clematis

Recruitment:

SC

Continuous

Organic Litter:

40 % cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Chrysanthemoides monilifera	Boneseed	high	high
MS	<i>Polygala myrtifolia</i> var. <i>myrtifolia</i>	Myrtle-leaf Milkwort	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MTG	Ehrharta erecta var. erecta	Panic Veldt-grass	high	high

Bower Spinach



Tetragonia implexicoma

EVC 161: Coastal Headland Scrub - Victorian Volcanic Plain bioregion

Published by the Victorian Government Department of Sustainability and Environment November 2007

© The State of Victoria Department of Sustainability and Environment 2007

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

EVC 163: Coastal Tussock Grassland

Description:

A tussock grassland that may contain emergent shrubs. Occurs on exposed coastal cliffs and bluffs. Soils are saline and the strong salt-laden winds preclude tree growth.

Life Forms:

LH

Life form	#Spp	%Cover	LF code
Medium Shrub	3	10%	MS
Small Shrub	1	5%	SS
Large Herb	1	10%	LH
Medium Herb	3	10%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	3	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	4	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		90%	

LF Code	Species typical of at least part of EVC range
MS	Leucopogon parviflorus
	. "

Epilobium billardierianum ssp. billardierianum

MH	Viola hederacea sensu Willis (1972)
MH	Samolus repens
MH	Asperula conferta
MH	Sarcocornia quinqueflora
SH	Selliera radicans
SH	Mimulus repens
SH	Leptinella reptans s.l.
LTG	Austrostipa stipoides
LTG	Dichelachne crinita
MTG	Isolepis cernua
MTG	Poa poiformis
MTG	Lachnagrostis filiformis

PITO	Lacrinagrosus minormis
MTG	Dianella revoluta var. brevicaulis
MNG	Distichlis distichophylla

MNG Triglochin striatum
MNG Ficinia nodosa

Recruitment:

Continuous

Organic Litter:

20% Cover

Common Name

Coast Beard-heath White Correa Smooth Willow-herb Ivy-leaf Violet Creeping Brookweed Common Woodruff Beaded Glasswort Shiny Swamp-mat Creeping Monkey-flower Creeping Cotula Prickly Spear-grass Long-hair Plume-grass Nodding Club-sedge Coast Tussock-grass Common Blown-grass Coast Flax-lily Australian Salt-grass Streaked Arrowgrass Knobby Club-sedge



EVC 163: Coastal Tussock Grassland -Victorian Volcanic Plain bioregion

Weediness:

	='			
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rubus sp. aff. armeniacus	Blackberry	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Plantago lanceolata	Ribwort	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Centaurium tenuiflorum	Slender Centaury	high	low
MH	Lotus suaveolens	Hairy Bird's-foot Trefoil	high	low
MH	Plantago coronopus	Buck's-horn Plantain	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
LTG	Ammophila arenaria	Marram Grass	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Polypogon monspeliensis	Annual Beard-grass	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



EVC 164: Creekline Herb-rich Woodland

Description:

Woodland or open forest to 15 m tall occurring on creek terraces and along shallow drainage lines with ephemeral flows. Soils are mostly alluvial deposits of seasonally wet sands and silts. Characterised by a sparse shrub layer above a grassy/sedgy understorey, often rich in herbs within the inter-tussock spaces.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 10 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus rubida
Eucalyptus viminalis
Eucalyptus ovataManna Gum
Swamp GumEucalyptus radiata ssp. radiataNarrow-leaf Peppermint

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

LF Code	Species typical of at least part of EVC range Acacia melanoxylon	Common Name Blackwood
MS	Leptospermum continentale	Prickly Tea-tree
PS	Acrotriche serrulata	Honey-pots
LH	Senecio minimus	Shrubby Fireweed
MH		
	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Gonocarpus tetragynus	Common Raspwort
MH	Hydrocotyle hirta	Hairy Pennywort
SH	Goodenia lanata	Trailing Goodenia
LTG	Poa labillardierei	Common Tussock-grass
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Juncus pallidus	Pale Rush
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Luzula meridionalis var. flaccida	Common Woodrush
MTG	Austrodanthonia penicillata	Slender Wallaby-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
SC	Hardenbergia violacea	Purple Coral-pea



EVC 164: Creekline Herb-rich Woodland -Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

10 m/0.1 ha.

Weediness:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	Crataegus monogyna	Hawthorn	high	high
T	Malus pumila	Apple	high	high
T	Salix spp.	Willow	high	high
MS	Rubus fruticosus spp. agg.	Blackberry	high	high
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Rumex crispus	Curled Dock	high	low
LH	Conium maculatum	Hemlock	high	high
MH	Lotus uliginosus	Greater Bird's-foot Trefoil	high	low
MH	Acetosella vulgaris	Sheep Sorrel	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Juncus articulatus	Jointed Rush	high	high
MTG	Cyperus congestus	Dense Flat-sedge	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

Description:

A variable open eucalypt woodland to 15 m tall or occasionally Sheoak/Acacia woodland to 10 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
Eucalyptus spp.	70 cm	15 / ha
Allocasuarina spp.	40 cm	
Acacia spp.	30 cm	

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	Eucalyptus ovata	Swamp Gum
	Eucalyptus radiata s.l.	Narrow-leaf Peppermint
	Eucalyptus viminalis	Manna Gum
	Allocasuarina verticillata	Drooping Sheoak
	Acacia implexa	Lightwood
	Acacia mearnsii	Black Wattle

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub ⁺	2	10%	T
Medium Shrub	2	10%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	2	5%	PS
Large Herb	2	5%	LH
Medium Herb	8	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	8	45%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	Bursaria spinosa	Sweet Bursaria
MS	Cassinia arcuata	Drooping Cassinia
MS	Acacia pycnantha	Golden Wattle
MS	<i>Hymenanthera dentata</i> s.l.	Tree Violet
SS	Pimelea humilis	Common Rice-flower
PS	Atriplex semibaccata	Berry Saltbush
MH	Acaena echinata	Sheep's Burr
MH	<i>Einadia nutans</i> ssp. <i>nutans</i>	Nodding Saltbush
MH	Gonocarpus tetragynus	Common Raspwort
SH	Crassula sieberiana	Sieber Crassula
SH	Dichondra repens	Kidney-weed
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Austrostipa scabra	Rough Spear-grass
MTG	Austrodanthonia caespitosa	Common Wallaby-grass
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MNG	Microlaena stipoides var. stipoides	Weeping Grass
SC	Clematis microphylla	Small-leaved Clematis



⁺ eucalypt woodland <u>only</u> components (ignore when assessing non-eucalypt areas)

EVC 175: Grassy Woodland - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	African Box-thorn	high	high .
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Arctotheca calendula	Cape Weed	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Ehrharta erecta var. erecta	Panic Veldt-grass	high	high
MTG	Ehrharta longiflora	Annual Veldt-grass	high	low
MTG	Nassella neesiana	Chilean Needle-grass	high	high
MTG	Nassella trichotoma	Serrated Tussock	high	high

Published by the Victorian Government Department of Sustainability and Environment May 2005

© The State of Victoria Department of Sustainability and Environment 2005

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

Description:

A variable open eucalypt woodland to 15 m tall or occasionally Sheoak woodland to 10 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
Acacia spp.	30 cm	15 / ha
Allocasuarina spp.	40 cm	
Eucalyptus spp.	70 cm	

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	Acacia implexa	Lightwood
	Acacia mearnsii	Black Wattle
	Allocasuarina verticillata	Drooping Sheoak
	Eucalyptus ovata	Swamp Gum
	Eucalyptus radiata s.l.	Narrow-leaf Peppermint
	Eucalyptus viminalis	Manna Gum

Lifeform	#Spp	%Cover	LF Code
Immature Canopy Tree		5%	IT
Medium Shrub	2	10%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	2	5%	PS
Medium Herb	8	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	8	45%	MTG
Medium to Tiny Non-Tufted Graminoid	1	5%	MNG
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens		10%	BL



EVC 175_61: Non-Eucalypt Grassy Woodland

LF Code	Species typical of at least part of EVC range	Common Name
MS	Acacia pycnantha	Golden Wattle
MS	Bursaria spinosa	Sweet Bursaria
MS	Cassinia arcuata	Drooping Cassinia
SS	Pimelea humilis	Common Rice-flower
PS	Atriplex semibaccata	Berry Saltbush
MH	Acaena echinata	Sheep's Burr
MH	Einadia nutans subsp. nutans	Nodding Saltbush
SH	Crassula sieberiana s.l.	Sieber Crassula
SH	Dichondra repens	Kidney-weed
LTG	Various spp.	
LTG	Various spp.	
MTG	Austrodanthonia caespitosa	Common Wallaby-grass
MTG	Austrostipa scabra	Rough Spear-grass
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MTG	Lomandra filiformis	Wattle Mat-rush
MNG	Microlaena stipoides var. stipoides	Weeping Grass
SC	Clematis microphylla	Small-leaved Clematis

Recruitment:

Continuous.

Organic Litter:

20 % cover

Logs:

15 m/0.1ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	African Box-thorn	high	high
MTG	Ehrharta erecta var. erecta	Panic Veldt-grass	high	high
MTG	Nassella neesiana	Chilean Needle-grass	high	high
MTG	Nassella trichotoma	Serrated Tussock	high	high
MTG	Ehrharta longiflora	Annual Veldt-grass	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MTG	Romulea rosea	Onion Grass	high	low
MH	Arctotheca calendula	Cape Weed	high	low
MH	Leontodon taraxacoides subsp. taraxacoides	Hairy Hawkbit	high	low
MTG	Briza maxima	Large Quaking-grass	high	low

For more information contact: Customer Service Centre, 136 186

Published by the Victorian Government Department of Sustainability and Environment
© The State of Victoria Government Department of Sustainability and Environment 2004
This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-comercial is authorised, on condition that:

• the copyright owner is acknowledged;

• no official connection is claimed;

• the material is made available without charge or cost; and

• the material is made available without charge or cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson St, East Melbourne, Victoria 3002.

EVC 191: Riparian Scrub

Description:

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

Canopy Cover:

%cover	Character Species	Common Name
60%	Leptospermum lanigerum	Woolly Tea-tree

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	3	20%	MS
Large Herb	4	10%	LH
Medium Herb	8	10%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	3	20%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	5	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	10%	MNG
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Bursaria spinosa ssp. spinosa	Sweet Bursaria
MH	Oxalis perennans	Grassland Wood-sorrel
SH	Oxalis exilis	Shady Wood-sorrel
SH	Crassula helmsii	Swamp Crassula
LTG	Poa labillardierei	Common Tussock-grass
LTG	Carex tereticaulis	Hollow Sedge
LTG	Carex appressa	Tall Sedge
LNG	Phragmites australis	Common Reed
MTG	Triglochin procerum s.l.	Water Ribbons
MNG	Triglochin striatum	Streaked Arrowgrass
MNG	Microlaena stipoides var. stipoides	Weeping Grass

Recruitment:

Continuous

Organic Litter:

40 % cover



EVC 191: Riparian Scrub - Victorian Volcanic Plain bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Rumex conglomeratus	Clustered Dock	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Trifolium dubium	Suckling Clover	high	low
MH	Trifolium subterraneum	Subterranean Clover	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Bromus diandrus	Great Brome	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MNG	Cynosurus echinatus	Rough Dog's-tail	high	low

Published by the Victorian Government Department of Sustainability and Environment January 2005

© The State of Victoria Department of Sustainability and Environment 2005

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



EVC 195: Seasonally Inundated Shrubby Woodland

Description:

Shrub-dominated eucalypt woodland to 15 m tall with an understorey visually dominated by medium shrubs and including a range of sedges and grasses and herbs including a number of annuals. Occurs on moderately fertile, poorly-drained, shallow sand or silty topsoils over heavier clay subsoils that naturally impede drainage. Often associated with recent Quaternary swamp deposits and broad, seasonal drainage lines and outwash flats. Soils are generally inundated or waterlogged in winter and baked hard in summer, which promotes sedges and annual species.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus camaldulensisRiver Red GumEucalyptus ovataSwamp Gum

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	Т
Medium Shrub	8	40%	MS
Small Shrub	2	10%	SS
Prostrate Shrub	1	1%	PS
Medium Herb	5	10%	MH
Small Herb*	4	10%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
* Largely seasonal life form			

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia melanoxylon	Blackwood
MS	Acacia verticillata	Prickly Moses
140		5 · 11 · + ·

MS	Acacia verticillata	Prickly Moses
MS	Leptospermum continentale	Prickly Tea-tree
MS	Melaleuca decussata	Totem-poles
MS	Leptospermum scoparium	Manuka
SS	Hibbertia riparia	Upright Guinea-flower
PS	Astroloma humifusum	Cranberry Heath
MH	Gonocarpus tetragynus	Common Raspwort
MH	Acaena echinata	Sheep's Burr
MH	Villarsia reniformis	Running Marsh-flower
MH	Hypericum gramineum	Small St. John's-wort
SH	Dichondra repens	Kidneyweed
SH	Lobelia pedunculata s.l.	Matted Pratia
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
LTG	Juncus pallidus	Pale Rush
MTG	Schoenus apogon	Common Bog-sedge
MTG	Deyeuxia quadriseta	Reed Bent-grass
MTG	Juncus amabilis	Hollow Rush
MNG	Baumea juncea	Bare Twig-sedge
MNG	Juncus holoschoenus	Joint-leaf Rush



EVC 195: Seasonally Inundated Shrubby Woodland -Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code Typical Weed Species Common Name Invasive Impact MH Hypochoeris radicata Cat's Ear high low MTG **Bulbous Rush** Juncus bulbosus high high

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



EVC 198: Sedgy Riparian Woodland

Description:

Eucalypt forest or woodland to 15 m tall with sedge-dominated understorey. Occurs on flats along low gradient creeks and drainage lines subject to seasonal inundation and waterlogging in moderately fertile habitats.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
20%	Eucalyptus obliqua	Messmate Stringybark
	Eucalyptus ovata	Swamp Gum

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

LF Code	Species typical of at least part of EVC range Acacia melanoxylon	Common Name Blackwood
MS	Melaleuca squarrosa	Scented Paperbark
MS	Leptospermum lanigerum	Woolly Tea-tree
MS	Goodenia ovata	Hop Goodenia
MS	Coprosma quadrifida	Prickly Currant-bush
MH	Viola hederacea sensu Entwisle (1996)	Ivy-leaf Violet
MH	Gonocarpus humilis	Shade Raspwort
MH	Acaena novae-zelandiae	Bidgee-widgee
LTG	Gahnia clarkei	Tall Saw-sedge
LTG	Baloskion tetraphyllum ssp. tetraphyllum	Tassel Cord-rush
LTG	Lepidosperma elatius	Tall Sword-sedge
LTG	Juncus procerus	Tall Rush
MTG	Dianella longifolia	Pale Flax-lily
MNG	Poa tenera	Slender Tussock-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
GF	Blechnum nudum	Fishbone Water-fern



EVC 198: Sedgy Riparian Woodland - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rubus ulmifolius	Blackberry	high	high
LH	Rumex crispus	Curled Dock	high	low
MH	Batrachium trichophyllum	Water Fennel	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
SH	Callitriche stagnalis	Common Starwort	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Juncus bulbosus	Bulbous Rush	high	high

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



EVC 203: Stony Rises Woodland

Description:

Eucalypt woodland to 15 m tall on stony rises (highly irregular terrain on recent basalt flows). Soils are fertile and well-drained but shallow or skeletal. Limited soil development outside of rock-cracks and dry summers promote annuals and deep-rooted perennials.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	Eucalyptus viminalis ssp. viminalis	Manna Gum

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

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia melanoxylon	Blackwood
MS	Cassinia longifolia	Shiny Cassinia
SS	Rubus parvifolius	Small-leaf Bramble
LH	Epilobium billardierianum ssp. cinereum	Grey Willow-herb
LH	Senecio pinnatifolius	Variable Groundsel
LH	Rumex brownii	Slender Dock
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Geranium solanderi s.l.	Austral Cranesbill
MH	Ranunculus sessiliflorus	Annual Buttercup
MH	<i>Parietaria debilis</i> s.l.	Shade Pellitory
SH	Oxalis exilis	Shady Wood-sorrel
SH	Crassula sieberiana	Sieber Crassula
SH	Dichondra repens	Kidney-weed
MTG	Austrodanthonia racemosa var. racemosa	Stiped Wallaby-grass
MTG	Dichelachne rara	Common Plume-grass
MTG	Poa ensiformis	Sword Tussock-grass
GF	Pteridium esculentum	Austral Bracken
GF	Asplenium flabellifolium	Necklace Fern
GF	Cheilanthes austrotenuifolia	Green Rock Fern
SC	Clematis microphylla	Small-leaved Clematis



EVC 203: Stony Rises Woodland -Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

15 m/0.1 ha.

Typical Weed Species	Common Name	Invasive	Impact
Sonchus oleraceus	Common Sow-thistle	high	low
Carduus pycnocephalus	Slender Thistle	high	high
Sonchus asper s.l.	Rough Sow-thistle	high	low
Cirsium vulgare	Spear Thistle	high	high
Solanum nigrum sensu Willis (1972)	Black Nightshade	high	low
Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
Hypochoeris radicata	Cat's Ear	high	low
Veronica persica	Persian Speedwell	high	low
Trifolium subterraneum	Subterranean Clover	high	low
Trifolium dubium	Suckling Clover	high	low
Acetosella vulgaris	Sheep Sorrel	high	high
Holcus lanatus	Yorkshire Fog	high	high
Vulpia bromoides	Squirrel-tail Fescue	high	low
Anthoxanthum odoratum	Sweet Vernal-grass	high	high
Bromus diandrus	Great Brome	high	low
	Sonchus oleraceus Carduus pycnocephalus Sonchus asper s.l. Cirsium vulgare Solanum nigrum sensu Willis (1972) Cerastium glomeratum s.l. Hypochoeris radicata Veronica persica Trifolium subterraneum Trifolium dubium Acetosella vulgaris Holcus lanatus Vulpia bromoides Anthoxanthum odoratum	Sonchus oleraceus Carduus pycnocephalus Sonchus asper s.l. Cirsium vulgare Solanum nigrum sensu Willis (1972) Cerastium glomeratum s.l. Cat's Ear Veronica persica Trifolium subterraneum Trifolium dubium Acetosella vulgaris Holcus lanatus Vulpia bromoides Anthoxanthum odoratum Slender Thistle Spear Thistle Spe	Sonchus oleraceus Common Sow-thistle high Carduus pycnocephalus Slender Thistle high Sonchus asper s.l. Rough Sow-thistle high Cirsium vulgare Spear Thistle high Solanum nigrum sensu Willis (1972) Black Nightshade high Cerastium glomeratum s.l. Common Mouse-ear Chickweed high Hypochoeris radicata Cat's Ear high Veronica persica Persian Speedwell high Trifolium subterraneum Subterranean Clover high Trifolium dubium Suckling Clover high Acetosella vulgaris Sheep Sorrel high Holcus lanatus Vorkshire Fog high Vulpia bromoides Squirrel-tail Fescue high Anthoxanthum odoratum Sweet Vernal-grass

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

EVC 283: Plains Sedgy Woodland

Description:

Occurs in shallow depressions associated with broad plains or floodplains. Soils are poorly drained, cracking clays which can seasonally form shallow freshwater marshes. The vegetation is an open woodland to 15 m tall, with shrubs and understorey trees generally absent, and sedges predominating in the ground layer. Herbs typical of inundated environments are present, but also grass, herb and geophyte species common to surrounding woodlands.

Large trees:

SpeciesDBH(cm)#/haEucalyptus spp.70 cm15 / haAllocasuarina luehmannii40 cm

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name10%Eucalyptus leucoxylon
Eucalyptus camaldulensis
Eucalyptus melliodora
Allocasuarina luehmanniiRiver Red-gum
Yellow Box
Buloke

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



EVC 283: Plains Sedgy Woodland -Victorian Volcanic Plain bioregion

LF Code MS v SS PS PS LH LH LH	Species typical of at least part of EVC range Comesperma polygaloides Eutaxia microphylla Astroloma humifusum Acrotriche serrulata Eryngium ovinum Brachyscome cardiocarpa Villarsia reniformis	Common Name Small Milkwort Common Eutaxia Cranberry Heath Honey-pots Blue Devil Swamp Daisy Running Marsh-flower
MH	Utricularia dichotoma s.l.	Fairies' Aprons
MH SH	Drosera peltata ssp. peltata Solenogyne dominii Myriocophalya phirocophalya	Pale Sundew Smooth Solenogyne
SH SH	Myriocephalus rhizocephalus Hydrocotyle laxiflora	Woolly-heads Stinking Pennywort
LTG LNG	Amphibromus nervosus Baumea rubiginosa s.l.	Common Swamp Wallaby-grass Soft Twig-rush
MTG MTG	Lepidosperma congestum Austrodanthonia setacea	Clustered Sword-sedge Bristly Wallaby-grass
MTG MTG MNG MNG TTG TTG TTG TTG	Lachnagrostis filiformis var. filiformis Schoenus apogon Chorizandra enodis Eleocharis acuta Centrolepis aristata Centrolepis strigosa ssp. strigosa Centrolepis glabra Aphelia gracilis Thysanotus patersonii	Common Blown-grass Common Bog-sedge Black Bristle-sedge Common Spike-sedge Pointed Centrolepis Hairy Centrolepis Smooth Centrolepis Slender Aphelia Twining Fringe-lily

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Cicendia filiformis	Slender Cicendia	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MNG	Juncus capitatus	Capitate Rush	high	low
TTG	Cyperus tenellus	Tiny Flat-sedge	high	low
TTG	Isolepis hystrix	Awned Club-sedge	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

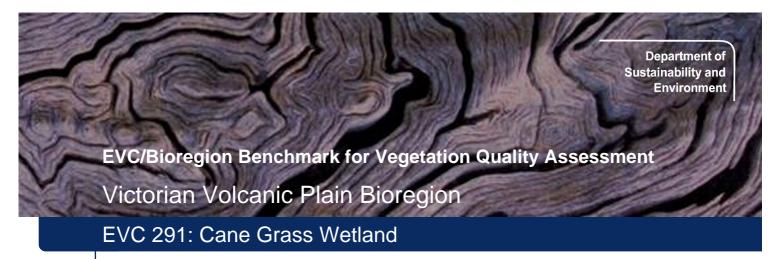
This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



Description:

Open-grassland, typically very species-poor except on outer verges, often with monospecific (or virtually so) cane-grass dominated centres. Occur on alluvial plains in shallow (~1 m deep) depressions, on very heavy grey clay soils, prone to turbidity when inundated (4-6 months) and extreme cracking when dry.

Understorey:

Lifeform	#Spp	%Cover	LF Code
Small or Prostrate Herb	2	10%	SH
Medium to Tiny Non-Tufted Graminoid	2	40%	MNG

LF Code Species typical of at least part of EVC range		Common Name
SH	Apium annuum	Annual Celery
SH	Azolla filiculoides	Pacific Azolla
SH	Lemna disperma	Common Duckweed
MNG	Eleocharis acuta	Common Spike-sedge
MNG	Eragrostis infecunda	Southern Cane-grass

Recruitment:

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

Organic Litter:

10 % cover

Weediness: There are no consistent weeds in this EVC

Published by the Victorian Government Department of Sustainability and Environment April 2011

© The State of Victoria Government Department of Sustainability and Environment 2004
This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-comercial is authorised, on condition that:

• the copyright owner is acknowledged;
• no official connection is claimed;

For more information contact: Customer Service Centre, 136 186

[•] no official connection is claimed;
• the material is made available without charge or cost; and
• the material is not subject to inaccurate, misleading or derogatory treatment.
Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson St, East Melbourne, Victoria 3002.



EVC 292: Red Gum Swamp

Description:

Open woodland to 15 m tall. Occurs on alluvial plains in the seasonally wet depressions of shallow drainage lines or prior stream meanders, typically associated with heavy paludal soils, sometimes with gilgai development. The annual rainfall across its distribution is generally below 700 mm, and the period of inundation may range from 2 to 6 months. River Red Gum woodland with sedgy or grassy-herbaceous ground-layer, comprising various balances of true aquatics and species tolerant of intermittent to seasonal inundation.

Large trees:

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

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus camaldulensisRiver Red-gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Large Herb	2	10%	LH
Medium Herb	7	25%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	15%	LTG
Medium to Small Tufted Graminoid	6	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	15%	MNG

LF Code	Species typical of at least part of EVC range	Common Name
LH	Villarsia reniformis	Running Marsh-flower
LH	Eryngium ovinum	Blue Devil
MH	Potamogeton tricarinatus s.l.	Floating Pondweed
MH	Lythrum hyssopifolia	Small Loosestrife
MH	Drosera peltata ssp. peltata	Pale Sundew
MH	Haloragis aspera	Rough Raspwort
SH	Lobelia pratioides	Poison Lobelia
SH	Solenogyne dominii	Smooth Solenogyne
LTG	Amphibromus nervosus	Common Swamp Wallaby-grass
LTG	Carex tereticaulis	Hollow Sedge
MTG	Juncus holoschoenus	Joint-leaf Rush
MTG	Lachnagrostis filiformis	Common Blown-grass
MTG	Schoenus tesquorum	Soft Bog-sedge
MTG	Isolepis fluitans	Floating Club-sedge
MNG	Eleocharis acuta	Common Spike-sedge

Recruitment:

Episodic/Flood – desrirable period of disturbance is once every 5 years

Organic Litter:

10% Cover

Logs:

10m/0.1 ha

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
MNG	Briza minor	Lesser Quaking-grass	hiah	low







EVC 311: Berm Grassy Shrubland

Description:

Low shrubland to 1.5 m tall occurring in sheltered coastal areas where sand deposits have formed as a result of low energy wave action. Contains a number of halophytic species over a ground layer of grasses and herbs.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	3	20%	MS
Small Shrub	1	5%	SS
Large Herb	2	5%	LH
Medium Herb	2	10%	MH
Small Herb	2	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	2	25%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Total understorey projective foliage cover		70 %	

LF Code	Species typical of at least part of EVC range	Common Name
MS	Atriplex cinerea	Coast Saltbush
MS	Rhagodia candolleana ssp. candolleana	Seaberry Saltbush
SS	Frankenia pauciflora var. gunnii	Southern Sea-heath
LH	Senecio pinnatifolius	Variable Groundsel
LH	Senecio glomeratus	Annual Fireweed
MH	Sarcocornia quinqueflora ssp. quinqueflora	Beaded Glasswort
MH	Pseudognaphalium luteoalbum	Jersey Cudweed
MH	Actites megalocarpa	Coast Sow-thistle
SH	Disphyma crassifolium ssp. clavellatum	Rounded Noon-flower
SH	Dichondra repens	Kidneyweed
LTG	Dichelachne crinita	Long-hair Plume Grass
MTG	Poa poiformis	Coast Tussock-grass
MTG	Austrofestuca littoralis	Coast Fescue
MNG	Distichlis distichophylla	Australian Salt-grass
MNG	Ficinia nodosa	Knobby Club-sedge

Recruitment:

Continuous

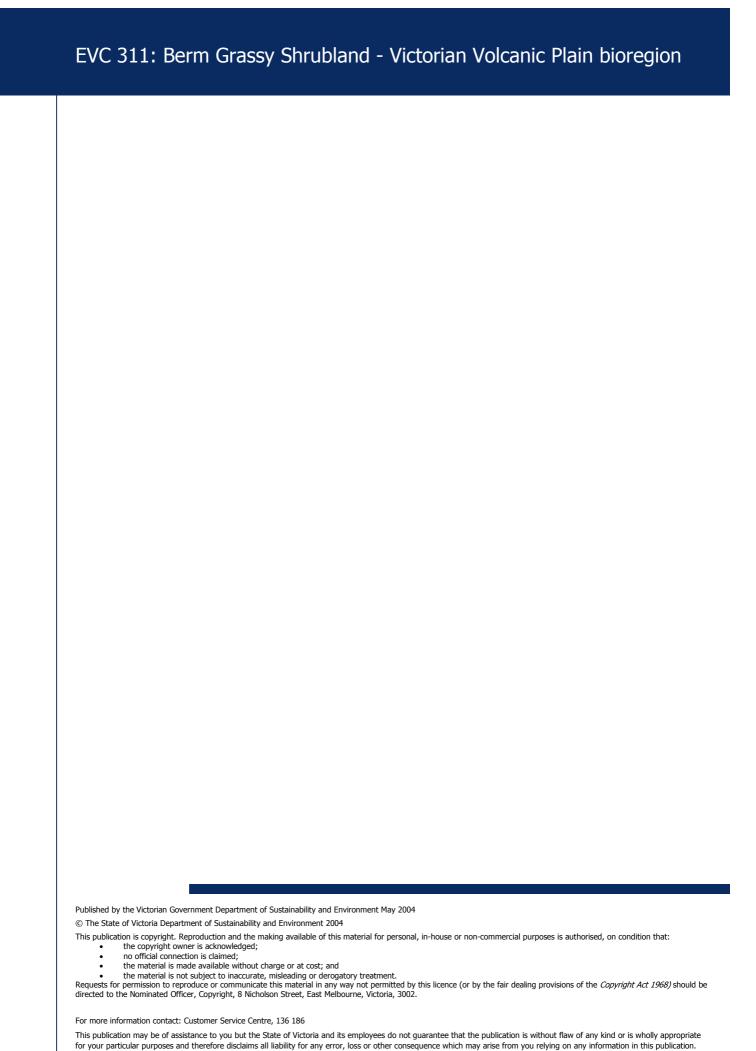
Organic Litter:

10% Cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Chrysanthemoides monilifera ssp. monilifera	Boneseed	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Conyza albida	Tall Fleabane	high	low
MH	Polycarpon tetraphyllum	Four-leaved Allseed	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MNG	Vulpia myuros	Rat's-tail Fescue	high	low
MNG	Lagurus ovatus	Hare's-tail Grass	high	low





www.dse.vic.gov.au



EVC 641: Riparian Woodland

Description:

Occurs beside permanent streams, typically on narrow alluvial deposits. Woodland to 15 m tall generally dominated by *Eucalyptus camaldulensis* over a tussock grass-dominated understorey. Tall shrubs may be present and amphibious herbs may occur in occasional ponds and beside creeks. While flooding may be common, sites are rarely inundated for lengthy periods.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 80 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name20%Eucalyptus camaldulensisRiver Red-gum

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

T MS MS SS LH LH LH MH MH MH MH MH MH SH LTG LTG LNG MTG	Species typical of at least part of EVC range Acacia melanoxylon Bursaria spinosa ssp. spinosa Viminaria juncea Rubus parvifolius Wahlenbergia gracilis s.s. Senecio quadridentatus Myriophyllum crispatum Rumex brownii Oxalis perennans Mentha australis Acaena novae-zelandiae Dichondra repens Poa labillardierei Carex appressa Phragmites australis Lachnagrostis filiformis var. filiformis	Common Name Blackwood Sweet Bursaria Golden Spray Small-leaf Bramble Sprawling Bluebell Cottony Fireweed Upright Water-milfoil Slender Dock Grassland Wood-sorrel River Mint Bidgee-widgee Kidneyweed Common Tussock-grass Tall Sedge Common Reed Common Blown-grass
	Phragmites australis	Common Reed
MTG MTG	Lachnagrostis tiliformis var. tiliformis Triglochin procerum s.l.	Common Blown-grass Water-ribbons
MNG	Eleocharis acuta	Common Spike-sedge
SC	Calystegia sepium	Large Bindweed



EVC 641: Riparian Woodland - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

30% cover

20m / 0.1 ha

Weediness:

V	veediness:				
	LF Code	Typical Weed Species	Common Name	Invasive	Impact
	MS	Rosa rubiginosa	Sweet Briar	high	high
	LH	Sonchus oleraceus	Common Sow-thistle	high	low
	LH	Cirsium vulgare	Spear Thistle	high	high
	LH	Plantago lanceolata	Ribwort	high	low
	LH	Helminthotheca echioides	Ox-tongue	high	low
	LH	Rumex crispus	Curled Dock	high	low
	LH	Aster subulatus	Aster-weed	high	low
	LH	Rorippa palustris	Marsh Yellow-cress	high	high
	MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
	MH	Hypochoeris radicata	Cat's Ear	high	low
	LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
	LNG	Holcus lanatus	Yorkshire Fog	high	high
	MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
	MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
	MNG	Paspalum distichum	Water Couch	high	high
	SC	Galium aparine	Cleavers	high	low

Published by the Victorian Government Department of Sustainability and Environment April 2006

© The State of Victoria Department of Sustainability and Environment 2006

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



EVC 642: Basalt Shrubby Woodland

Description:

Eucalypt-dominated woodland to 15 m tall with an understorey of shrubs and grasses, presumed originally quite species-rich. Occurs on well-drained to seasonally damp fertile soils in higher rainfall areas of volcanic plain.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus ovataSwamp GumEucalyptus viminalisManna Gum

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

LF Code	Species typical of at least part of EVC range Acacia melanoxylon	Common Name
T T	Acacia meanoxyion Acacia mearnsii	Black Wattle
MS	Leptospermum continentale	Prickly Tea-tree
MS	Acacia verticillata	Prickly Moses
PS	Bossiaea prostrata	Creeping Bossiaea
PS	Astroloma humifusum	Cranberry Heath
LH	Senecio glomeratus	Annual Fireweed
MH	Drosera peltata ssp. auriculata	Tall Sundew
MH	Lagenophora stipitata	Common Bottle-daisy
SH	Oxalis exilis	Shady Wood-sorrel
SH	Kennedia prostrata	Running Postman
SH	Lobelia pedunculata s.l.	Matted Pratia
SH	Leptostigma reptans	Dwarf Nertera
LTG	Austrostipa pubinodis	Tall Spear-grass
LTG	Lepidosperma elatius	Tall Sword-sedge
LTG	Deyeuxia quadriseta	Reed Bent-grass
MTG	Dichelachne rara	Common Plume-grass
MTG	Lomandra filiformis ssp. filiformis	Wattle Mat-rush
MTG	Dichelachne crinita	Long-hair Plume-grass
MTG	Austrodanthonia pilosa	Velvet Wallaby-grass
MNG	Poa tenera	Slender Tussock-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken



EVC 642: Basalt Shrubby Woodland - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

WCCumcss.	l e e e e e e e e e e e e e e e e e e e			
LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	Pinus radiata	Radiata Pine	high	high
LH	Centaurium tenuiflorum	Slender Centaury	high	low
LH	Plantago lanceolata	Ribwort	high	low
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MH	Gamochaeta purpurea s.s.	Spiked Cudweed	high	low
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MNG	Aira elegantissima	Delicate Hair-grass	high	low
MNG	Cynosurus echinatus	Rough Dog's-tail	high	low
SNG	Sisyrinchium iridifolium	Blue Pigroot	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

EVC 644: Cinder Cone Woodland

Description:

Eucalypt woodland to 15 m tall over a diverse ground layer of grasses and herbs. Associated with tuff (volcanic ash) volcanoes.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus viminalis
Eucalyptus ovataManna Gum
Swamp Gum

Understorey:

onderstorey.			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	2	10%	MS
Large Herb	2	5%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	20%	LTG
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	2	20%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		85%	

LF Code Species typical of at least part of EVC range

LF Code	Species typical of at least part of EVC range	Common Name
Т	Acacia melanoxylon	Blackwood
MS	Leucopogon parviflorus	Coast Beard-heath
MS	Solanum laciniatum	Large Kangaroo Apple
LH	Senecio pinnatifolius	Variable Groundsel
LH	Rumex brownii	Wiry Dock
LH	Epilobium billardierianum	Variable Willow-herb
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Geranium potentilloides	Cinquefoil Cranesbill
SH	Dichondra repens	Kidney-weed
LTG	Poa labillardierei	Common Tussock-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
GF	<i>Pellaea falcata</i> s.l.	Sickle Fern
SC	Clematis aristata	Mountain Clematis

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

10 m/0.1 ha.



Common Name

EVC 644: Cinder Cone Woodland - Victorian Volcanic Plain bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	African Box-thorn	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Holcus lanatus	Yorkshire Fog	high	high

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, $136\ 186$

EVC 647: Plains Sedgy Wetland

Description:

Occurs in seasonally wet depressions on volcanic and sedimentary plains, typically associated with fertile, silty, peaty or heavy clay paludal soils. Primarily sedgy-herbaceous vegetation, sometimes with scattered or fringing eucalypts or tea-tree/paperbark shrubs in higher rainfall areas. A range of aquatic herbs can be present, and species-richness is mostly relatively low to moderate, but higher towards drier margins.

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	2	5%	LH
Medium Herb	5	40%	MH
Small or Prostrate Herb	5	10%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	4	25%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG

LF Code		Species typical of at least part of EVC range	Common Name
LH		Epilobium billardierianum	Variable Willow-herb
MH		Potamogeton tricarinatus s.l.	Floating Pondweed
MH		Myriophyllum simulans	Amphibious Water-milfoil
MH		Stellaria angustifolia	Swamp Starwort
MH		Lilaeopsis polyantha	Australian Lilaeopsis
SH		Neopaxia australasica	White Purslane
SH		Lobelia pratioides	Poison Lobelia
SH	V	Helichrysum aff. rutidolepis (Lowland Swamps)	Pale Swamp Everlasting
SH		Eryngium vesiculosum	Prickfoot
LTG		Carex tereticaulis	Hollow Sedge
MTG	k	Lachnagrostis filiformis (perennial variety)	Wetland Blown-grass
MTG		Lachnagrostis filiformis	Common Blown-grass
MTG		Glyceria australis	Australian Sweet-grass
MNG		Eleocharis acuta	Common Spike-sedge
MNG	V	Amphibromus sinuatus	Wavy Swamp Wallaby-grass

Recruitment:

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

Organic Litter:

10% cover

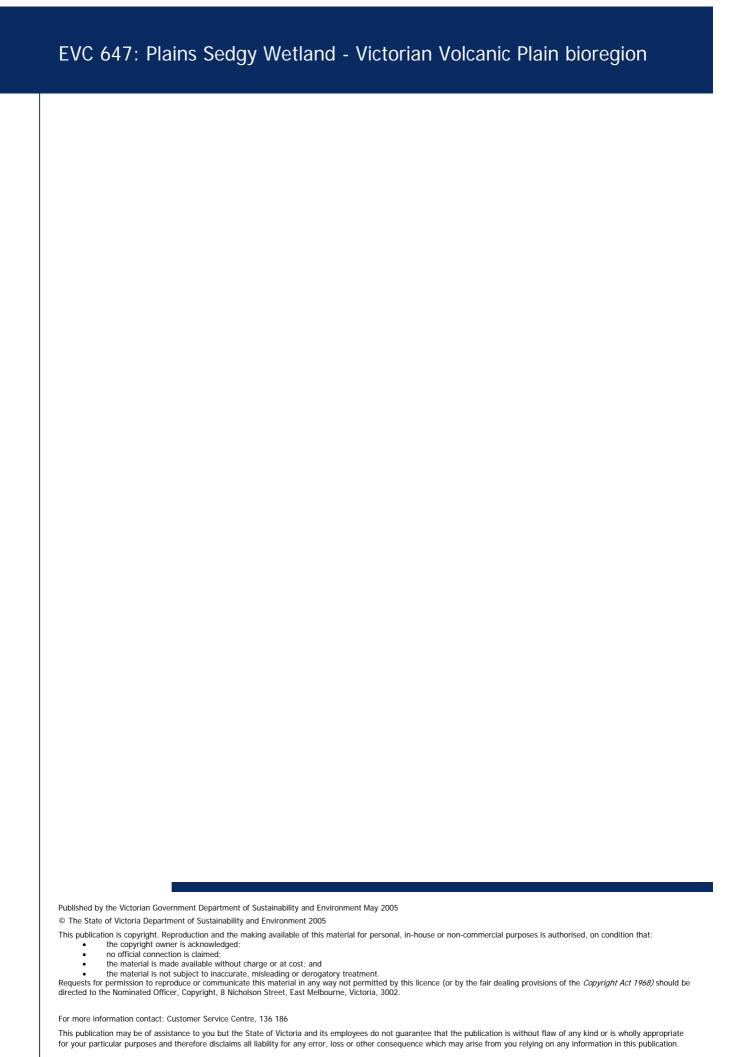
Logs

5 m/0.1 ha.(where trees are overhanging the wetland)

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MTG	Juncus bulbosus	Bulbous Rush	hiah	hiah





www.dse.vic.gov.au

EVC 649: Stony Knoll Shrubland

Description:

Stony Knoll Shrubland is a shrubland to 3 m tall or low non-eucalypt woodland to 8 m tall with a grassy understorey. It occurs on low stony rises on basalt flows. The soils are fertile and well drained but shallow with out cropping rock, causing severe summer dryness.

Canopy Cover+:

%cover	Character Species	Common Name
15%	Allocasuarina verticillata	Drooping Sheoak
	Bursaria spinosa	Sweet Bursaria

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	3	10%	MS
Prostrate Shrub	1	1%	PS
Large Herb	2	1%	LH
Medium Herb	11	10%	MH
Small or Prostrate Herb	4	5%	SH
Medium to Small Tufted Graminoid	10	25%	MTG
Tiny Tufted Graminoid	2	5%	TTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	5%	GF
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
MS	Hymenanthera dentata s.l.	Tree Violet
MS	Acacia paradoxa	Hedge Wattle
PS	Kennedia prostrata	Running Postman
LH	Senecio quadridentatus	Cotton Fireweed
LH	Senecio glomeratus	Annual Fireweed
MH	Oxalis perennans	Grassland Wood-sorrel
MH	Rumex brownii	Slender Dock
MH	Hypericum gramineum	Small St John's Wort
MH	Acaena ovina	Australian Sheep's Burr
SH	Dichondra repens	Kidneyweed
SH	Hydrocotyle laxiflora	Stinking Pennywort
SH	Crassula sieberiana	Sieber Crassula
MTG	Themeda triandra	Kangaroo Grass
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Austrodanthonia caespitosa	Common Wallaby-grass
MTG	Austrodanthonia setacea	Bristly Wallaby-grass
TTG	Carex breviculmis	Short-stem Sedge
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
GF	Adiantum aethiopicum	Common Maidenhair
SC	Convolvulus erubescens spp. agg.	Pink Bindweed

Recruitment:

Continuous

Organic Litter:

20 % cover



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

EVC 649: Stony Knoll Shrubland - Victorian Volcanic Plain bioregion

Logs+:

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

Weediness:

Weediness:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	Schinus molle	Pepper Tree	high	high
MS	Lycium ferocissimum	African Box-thorn	high	high
MS	Genista monspessulana	Montpellier Broom	high	high
SS	Marrubium vulgare	Horehound	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Helminthotheca echioides	Ox-tongue	high	low
LH	Lactuca serriola	Prickly Lettuce	high	low
LH	Sisymbrium officinale	Hedge Mustard	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	<i>Verbascum thapsus</i> ssp. <i>thapsus</i>	Great Mullein	high	high
LH	Echium plantagineum	Paterson's Curse	high	high
LH	Centaurium tenuiflorum	Slender Centaury	high	low
LH	Foeniculum vulgare	Fennel	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Trifolium arvense var. arvense	Hare's-foot Clover	high	low
MH	Trifolium subterraneum	Subterranean Clover	high	low
MH	Trifolium campestre var. campestre	Hop Clover	high	low
MH	Trifolium angustifolium var. angustifolium	Narrow-leaf Clover	high	low
MH	Lotus suaveolens	Hairy Bird's-foot Trefoil	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
SH	Medicago polymorpha	Burr Medic	high	low
SH	Trifolium glomeratum	Cluster Clover	high	low
SH	Modiola caroliniana	Red-flower Mallow	high	low
SH	Aptenia cordifolia	Heart-leaf Ice-plant	high	high
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
LNG	Avena fatua	Wild Oat	high	low
MTG	Nassella trichotoma	Serrated Tussock	high	high
MTG	Ehrharta longiflora	Annual Veldt-grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
MTG	Sporobolus africanus	Rat-tail Grass	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Pentaschistis airoides ssp. airoides	False Hair-grass	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	low
MTG	Dactylis glomerata	Cocksfoot	high	high
MTG	Vulpia myuros	Rat's-tail Fescue	high	low
MTG	Bromus rubens	Red Brome	high	low
MTG	Avena barbata	Bearded Oat	high	low
MTG	Aira caryophyllea	Silvery Hair-grass	high	low
SC	Vicia sativa ssp. sativa	Common Vetch	low	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

Stony Knoll Shrubland is a shrubland to 3 m tall or low non-eucalypt woodland to 8 m tall with a grassy understorey. It occurs on low stony rises on basalt flows. The soils are fertile and well drained but shallow with out cropping rock, causing severe summer dryness.

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	Allocasuarina verticillata	Drooping Sheoak
	Bursaria spinosa	Sweet Bursaria

Lifeform	#Spp	%Cover	LF Code
Medium Shrub	3	10%	MS
Prostrate Shrub	1	1%	PS
Large Herb	2	1%	LH
Medium Herb	11	10%	MH
Small or Prostrate Herb	4	5%	SH
Medium to Small Tufted Graminoid	10	25%	MTG
Medium to Tiny Non-Tufted Graminoid	2	5%	MNG
Tiny Tufted Graminoid	2	5%	TTG
Ground Fern	2	5%	GF
Bryophytes/Lichens		10%	BL
Soil Crust		10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	Acacia paradoxa	Hedge Wattle
MS	Melicytus dentatus s.l.	Tree Violet
PS	Kennedia prostrata	Running Postman
LH	Senecio glomeratus	Annual Fireweed
LH	Senecio quadridentatus	Cotton Fireweed
MH	Acaena ovina	Australian Sheep's Burr
MH	Hypericum gramineum	Small St John's Wort
MH	Oxalis perennans	Grassland Wood-sorrel
MH	Rumex brownii	Slender Dock
SH	Crassula sieberiana s.l.	Sieber Crassula
SH	Dichondra repens	Kidney-weed
SH	Hydrocotyle laxiflora	Stinking Pennywort
MTG	Austrodanthonia caespitosa	Common Wallaby-grass
MTG	Austrodanthonia setacea	Bristly Wallaby-grass
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Themeda triandra	Kangaroo Grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
TTG	Carex breviculmis	Common Grass-sedge



EVC 649_61: Treed Stony Knoll Shrubland

LF Code	Species typical of at least part of EVC range	Common Name
GF	Adiantum aethiopicum	Common Maidenhair
GF	Pteridium esculentum	Austral Bracken

Recruitment:

Continuous.

Organic Litter:

20 % cover

Logs:

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

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
MTG	Nassella trichotoma	Serrated Tussock	high	high
MTG	Dactylis glomerata	Cocksfoot	high	high
MTG	Sporobolus africanus	Rat-tail Grass	high	high
MS	Genista monspessulana	Montpellier Broom	high	high
LH	Foeniculum vulgare	Fennel	high	high
LH	Verbascum thapsus subsp. thapsus	Great Mullein	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
T	Schinus molle	Pepper Tree	high	high
MS	Lycium ferocissimum	African Box-thorn	high	high
SH	Aptenia cordifolia	Heart-leaf Ice-plant	high	high
LH	Echium plantagineum	Paterson's Curse	high	high
SS	Marrubium vulgare	Horehound	high	high
MTG	Bromus hordeaceus subsp. hordeaceus	Soft Brome	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	, Romulea rosea	Onion Grass	high	low
MTG	Pentaschistis airoides subsp. airoides	False Hair-grass	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	low
MTG	Vulpia myuros	Rat's-tail Fescue	high	low
MTG	Bromus rubens	Red Brome	high	low
MTG	Avena barbata	Bearded Oat	high	low
MTG	Aira caryophyllea	Silvery Hair-grass	high	low
MH	Lotus subbiflorus	Hairy Bird's-foot Trefoil	high	low
MH	Trifolium angustifolium var. angustifolium	Narrow-leaf Clover	high	low
MH	Trifolium campestre var. campestre	Hop Clover	high	low
MH	Trifolium arvense var. arvense	Hare's-foot Clover	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Sisymbrium officinale	Hedge Mustard	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
LH	Centaurium tenuiflorum	Slender Centaury	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
LH	Helminthotheca echioides	Ox-tongue	high	low
LH	Lactuca serriola	Prickly Lettuce	high	low
SH	Medicago polymorpha	Burr Medic	high	low
SH	Trifolium glomeratum	Cluster Clover	high	low
SH	Modiola caroliniana	Red-flower Mallow	high	low
LNG	Avena fatua	Wild Oat	high	low
MTG	Ehrharta longiflora	Annual Veldt-grass	high	low
MH	Trifolium subterraneum	Subterranean Clover	high	low
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
SC	Vicia sativa subsp. sativa	Common Vetch	low	low





EVC 651: Plains Swampy Woodland

Description:

Eucalypt woodland to 15 m tall with ground layer dominated by tussock grasses, sedges and herbs. Shrubs are often scattered throughout. Occurs on poorly drained, seasonally waterlogged heavy soils.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 80 cm
 10 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name10%Eucalyptus ovataSwamp Gum

Jiidei Storey.			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	4	15%	MS
Large Herb	3	5%	LH
Medium Herb	8	20%	MH
Small or Prostrate Herb	5	5%	SH
Large Tufted Graminoid	3	30%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	7	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Bryophytes/Lichens	na	20%	BL

LF Code		Species typical of at least part of EVC range	Common Name
T		Acacia melanoxylon	Blackwood
MS		Melaleuca gibbosa	Slender Honey-myrtle
MS		Leptospermum continentale	Prickly Tea-tree
MS		Ozothamnus ferrugineus	Tree Everlasting
MS		Allocasuarina paludosa	Scrub Sheoak
LH		Senecio tenuiflorus	Slender Fireweed
LH		Villarsia reniformis	Running Marsh-flower
MH		Asperula conferta	Common Woodruff
MH		Centella cordifolia	Centella
MH		Lobelia anceps	Angled Lobelia
MH		Acaena novae-zelandiae	Bidgee-widgee
SH		Eryngium vesiculosum	Prickfoot
SH		Oxalis exilis	Shady Wood-sorrel
SH	Rτ	Lobelia beaugleholei	Showy Lobelia
SH		Hypericum japonicum	Matted St John's Wort
LTG		Gahnia trifida	Coast Saw-sedge
LTG		Carex appressa	Tall Sedge
LTG		Poa labillardierei var. labillardierei	Common Tussock-grass
MTG		Poa clelandii	Noah's Ark
MTG		Lomandra filiformis	Wattle Mat-rush
MTG		Themeda triandra	Kangaroo Grass
MNG		Poa tenera	Slender Tussock-grass
MNG		Hemarthria uncinata var. uncinata	Mat Grass



EVC 651: Plains Swampy Woodland - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.

Weediness:

WCCumcss.	l			
LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Plantago lanceolata	Ribwort	high	low
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Trifolium dubium	Suckling Clover	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Prunella vulgaris	Self-heal	high	low
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
LTG	Festuca arundinacea	Tall Fescue	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MNG	Holcus setosus	Annual Fog	high	low
MNG	Juncus capitatus	Capitate Rush	high	low
TTG	Cyperus tenellus	Tiny Flat-sedge	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



An open, eucalypt woodland to 15 m tall with a grassy and herb-rich understorey. Occupies on generally fertile, relatively well-drained, clay-loam soils on source-bordering lunettes.

Large trees:

Species DBH(cm) #/ha Eucalyptus spp. 80 cm 8 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name10%Eucalyptus camaldulensisRiver Red GumEucalyptus melliodoraYellow Box

Understorey:

onaciotorey.			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	3	10%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	12	45%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	Acacia pycnantha	Golden Wattle
MS	Acacia paradoxa	Hedge Wattle
SS	Pimelea humilis	Common Rice-flower
PS	Astroloma humifusum	Cranberry Heath
PS	Bossiaea prostrata	Creeping Bossiaea
MH	Oxalis perennans	Grassland Wood-sorrel
MH	Gonocarpus tetragynus	Common Raspwort
MH	Acaena echinata	Sheep's Burr
SH	Dichondra repens	Kidney-weed
SH	Hydrocotyle laxiflora	Stinking Pennywort
LTG	Austrostipa mollis	Supple Spear-grass
LTG	Austrostipa bigeniculata	Kneed Spear-grass
MTG	Elymus scaber var. scaber	Common Wheat-grass
MTG	Austrodanthonia setacea	Bristly Wallaby-grass
MTG	Austrodanthonia racemosa var. racemosa	Stiped Wallaby-grass
MTG	Tricoryne elatior	Yellow Rush-lily
MNG	Microlaena stipoides var. stipoides	Weeping Grass

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.



EVC 652: Lunette Woodland - Victorian Volcanic Plain bioregion

Weediness:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	African Box-thorn	high	high
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Plantago lanceolata	Ribwort	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

EVC 653: Aquatic Herbland

Description:

Herbland of permanent to semi-permanent wetlands, dominated by sedges (especially on shallower verges) and/or aquatic herbs. Occurs on fertile paludal soils, typically heavy clays beneath organic accumulations.

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	2	10%	LH
Medium Herb	5	40%	MH
Small or Prostrate Herb	2	10%	SH
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Total understorey projective foliage cover		85%	

LF Code	Species typical of at least part of EVC range	Common Name
LH	Villarsia reniformis	Running Marsh-flower
MH	Myriophyllum simulans	Amphibious Water-milfoil
MH	Potamogeton tricarinatus s.l.	Floating Pondweed
MH	Potamogeton pectinatus	Fennel Pondweed
MH	Marsilea drummondii	Common Nardoo
SH	Azolla filiculoides	Pacific Azolla
SH	Lobelia pratioides	Poison Lobelia
SH	Lemna disperma	Duckweed
LNG	Eleocharis sphacelata	Tall Spike-sedge
MTG	Triglochin procerum s.l.	Water Ribbons
MTG	Lachnagrostis filiformis	Common Blown-grass
MTG	Glyceria australis	Australian Sweet-grass
MTG	Austrodanthonia duttoniana	Brown-back Wallaby-grass
MNG	Eleocharis pusilla	Small Spike-sedge
MNG	Eleocharis acuta	Common Spike-sedge

Recruitment:

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

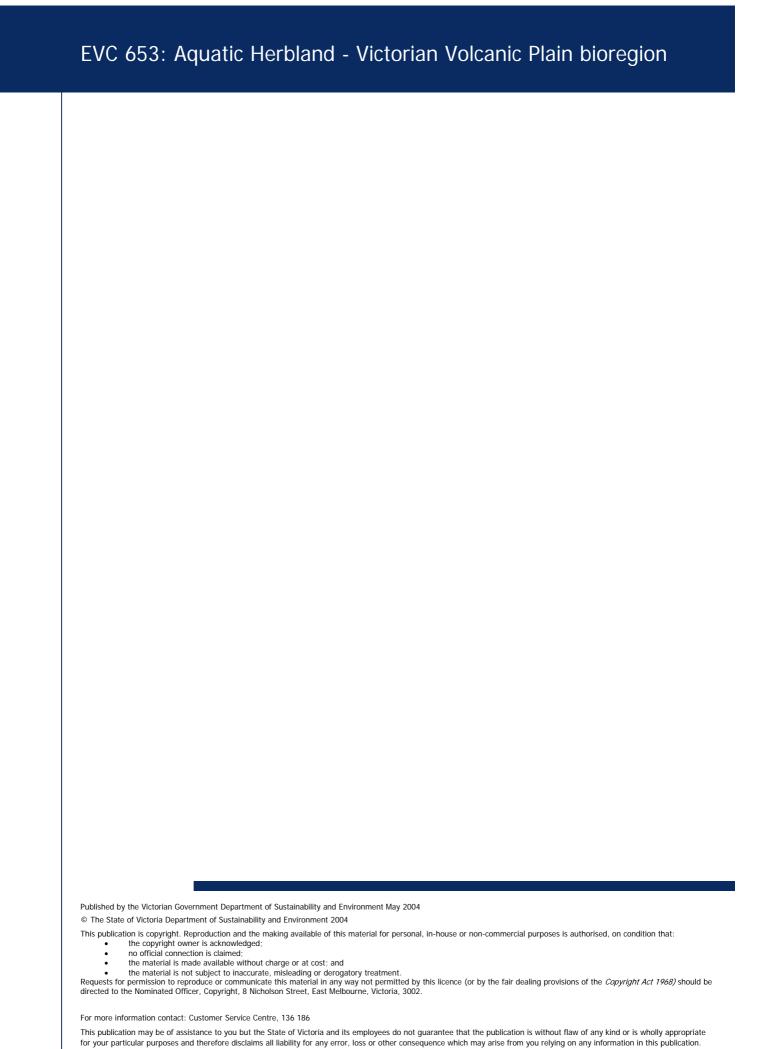
Organic Litter:

10% cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Aster subulatus	Aster-weed	high	low
LH	Rumex crispus	Curled Dock	high	low
MH	Plantago coronopus	Buck's-horn Plantain	high	high
MH	Cotula coronopifolia	Water Buttons	high	high
MTG	Lolium rigidum	Wimmera Rye-grass	high	low
MTG	Romulea rosea	Onion Grass	high	low





www.dse.vic.gov.au



Creekline Tussock Grassland occurs along low gradient ephemeral and intermittent drainage lines across the volcanic plains. Soils are generally fertile heavy dark clays. Exposed basalt rocks can be common. Dominated by a dense sward of Common Tussock-grass *Poa labillardierei* primarily with small herbs and typically mat-forming grasses in the inter-tussock spaces. This EVC often includes small areas of sedgeland and/or wetland.

Life forms:

Life form	#Spp	%Cover	LF code
Large Herb	4	5%	LH
Medium Herb	8	10%	MH
Small or Prostrate Herb	11	10%	SH
Large Tufted Graminoid	3	40%	LTG
Medium to Small Tufted Graminoid	10	10%	MTG
Medium to Tiny Non-tufted Graminoid	4	10%	MNG
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range Senecio quadridentatus	Common Name Cottony Fireweed
LH	Senecio tenuiflorus	Narrow-leaf Groundesl
LH	Craspedia glauca spp. agg.	Common Billy-buttons
MH	Calocephalus lacteus	Milky Beaty-heads
LH	Brachyscome basaltica var. gracilis	Woodland Swamp-daisy
MH	<i>Microseris</i> sp. 1	Yam Daisy
MH	Haloragis heterophylla	Varied Raspwort
SH	Dichondra repens	Kidneyweed
SH	Hydrocotyle sibthorpioides	Shining Pennywort
SH	Lobelia pratioides	Poison Lobelia
SH	Crassula helmsii	Swamp Crassula
LTG	Poa labillardierei	Common Tussock-grass
LTG	Carex tereticaulis	Rush Sedge
LTG	Juncus kraussii ssp. australiensis	Sea Rush
MTG	Austrodanthonia duttoniana	Brown-back Wallaby-grass
MTG	Austrodanthonia caespitosa	Common Wallaby-grass
MTG	Lachnagrostis filiformis	Common Blown-grass
MTG	Juncus planifolius	Broad-leaf Rush
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Distichlis distichophylla	Australian Salt Grass
MNG	Hemarthria uncinata var. uncinata	Mat Grass
MNG	Eleocharis acuta	Common Spike-sedge

Recruitment:

Episodic – fire/grazing – desirable period of disturbance is every 10 years

Organic Litter:

10% Cover



EVC 654: Creekline Tussock Grassland -Victorian Volcanic Plain bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Rumex crispus	Curled Dock	high	low
MH	Lotus suaveolens	Hairy Bird's-foot Trefoil	high	high
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MNG	Paspalum distichum	Water Couch	high	high
MNG	Agrostis capillaris	Brown-top Bent	high	high

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

Shrubland to 2 m tall, typically very species-poor except on outer verges. May include species typical of more saline areas. Occurs in low rainfall areas (<500 mm per annum) in shallow (to 1 m deep) depressions, on very heavy grey clay soils, prone to turbidity when inundated (4-6 months) and extreme cracking when dry.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	1	25%	MS
Prostrate Shrub	2	10%	PS
Medium to Tiny Non-tufted Graminoid	3	40%	MNG
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		75%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	Muehlenbeckia florulenta	Tangled Lignum
PS	Wilsonia rotundifolia	Round-leaf Wilsonia
MNG	Eragrostis infecunda	Southern Cane-grass
MNG	Eleocharis acuta	Common Spike-sedge
MNG	Triglochin striatum	Streaked Arrow-grass

Recruitment:

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

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.



EVC 655: Lignum Cane Grass Swamp -Victorian Volcanic Plain bioregion

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

EVC 656: Brackish Wetland

Treeless EVC dominated by sedges and herbs that are generally indicative of saline conditions. True halophytic species such as samphires, if present, only occur with very low cover. Occurs in estuaries and along poorly defined drainage lines or associated with shorelines of brackish lakes.

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	1	5%	LH
Medium Herb	3	15%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	1	10%	LTG
Large Non-tufted Graminoid	2	10%	LNG
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid	3	15%	MNG
Scrambler or Climber	1	1%	SC
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		80%	

LF Code	Species typical of at least part of EVC range	Common Name
LH	Persicaria decipiens	Slender Knotweed
LH	Epilobium billardierianum ssp. billardierianum	Smooth Willow-herb
MH	Sarcocornia quinqueflora	Beaded Glasswort
MH	Samolus repens	Creeping Brookweed
MH	Suaeda australis	Austral Seablite
SH	Selliera radicans	Shiny Swamp-mat
SH	Crassula helmsii	Swamp Crassula
SH	Mimulus repens	Creeping Monkey-flower
LTG	Gahnia filum	Chaffy Saw-sedge
LNG	Juncus kraussii ssp. australiensis	Sea Rush
LNG	Phragmites australis	Common Reed
MTG	Poa poiformis	Coast Tussock-grass
MTG	Lachnagrostis filiformis	Common Blown-grass
MNG	Bolboschoenus caldwellii	Salt Club-sedge
MNG	Distichlis distichophylla	Australian Salt-grass
MNG	Schoenoplectus pungens	Sharp Club-sedge

Recruitment:

MNG

SC

Episodic/Flood: desirable period of disturbance is every five years

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

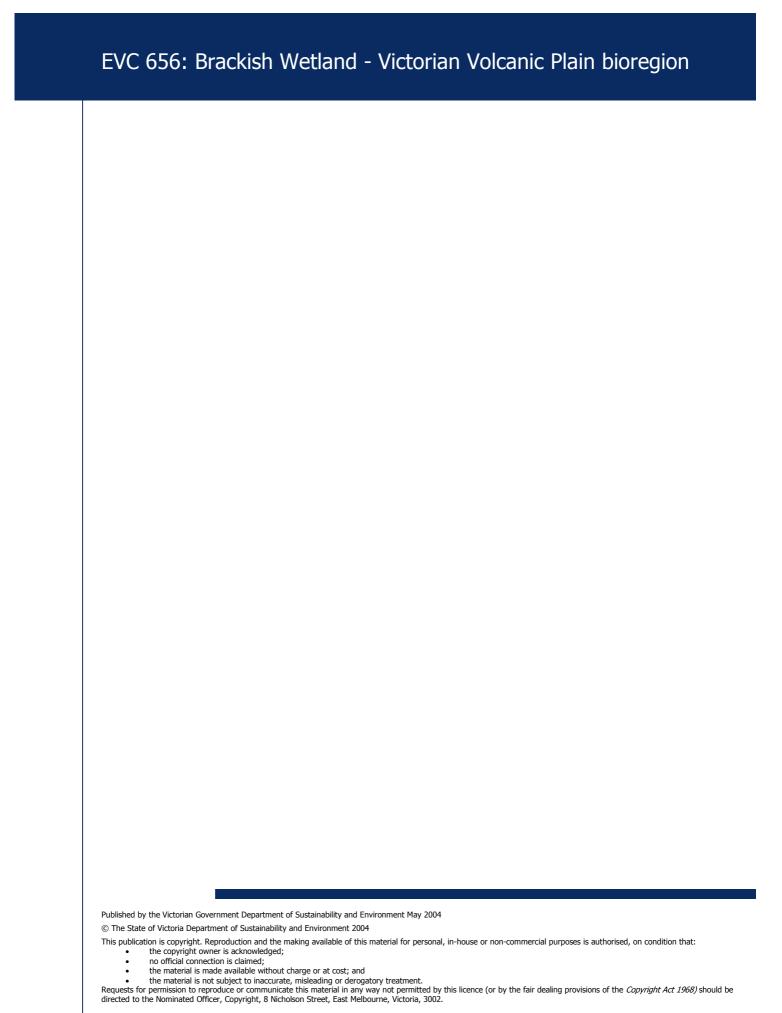
Triglochin striatum

Calystegia sepium



Streaked Arrowgrass

Large Bindweed



For more information contact: Customer Service Centre, 136 186



EVC 705: Basalt Creekline Shrubby Woodland

Description:

Shrub-dominated low eucalypt woodland to 10 m tall, with a range of grasses, sedges and herbs in the understorey. Occurs on heavy soils along low-gradient boggy drainage lines on relatively high rainfall volcanic plains.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 10 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name10%Eucalyptus ovataSwamp Gum

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

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia melanoxylon	Blackwood
MS	Acacia verticillata	Prickly Moses
MS	Leptospermum continentale	Prickly Tea-tree
MS	Ozothamnus ferrugineus	Tree Everlasting
MS	Coprosma quadrifida	Prickly Currant-bush
LH	Epilobium billardierianum	Variable Willow-herb
LH	Villarsia reniformis	Running Marsh-flower
MH	Centella cordifolia	Centella
MH	Lilaeopsis polyantha	Australian Lilaeopsis
MH	Utricularia dichotoma s.l.	Fairies' Aprons
SH	Eryngium vesiculosum	Prickfoot
SH	Neopaxia australasica	White Purslane
SH	Lobelia pratioides	Poison Lobelia
SH	Hypericum japonicum	Matted St John's Wort
LTG	Juncus flavidus	Gold Rush
LTG	Amphibromus nervosus	Common Swamp Wallaby-grass
LTG	Poa labillardierei	Common Tussock-grass
MTG	Glyceria australis	Australian Sweet-grass
MTG	Juncus holoschoenus	Joint-leaf Rush
MTG	Austrodanthonia duttoniana	Brown-back Wallaby-grass
MNG	Eleocharis acuta	Common Spike-sedge
MNG	Eleocharis pusilla	Small Spike-sedge



EVC 705: Basalt Creekline Shrubby Woodland -Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

20 m/0.1 ha.

Weediness:

Typical Weed Species	Common Name	Invasive	Impact
Plantago lanceolata	Ribwort	high	low
Sonchus oleraceus	Common Sow-thistle	high	low
Sonchus asper s.l.	Rough Sow-thistle	high	low
Cirsium vulgare	Spear Thistle	high	high
Trifolium dubium	Suckling Clover	high	low
Hypochoeris radicata	Cat's Ear	high	low
Prunella vulgaris	Self-heal	high	high
Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
Festuca arundinacea	Tall Fescue	high	high
Holcus lanatus	Yorkshire Fog	high	high
Briza minor	Lesser Quaking-grass	high	low
Romulea rosea	Onion Grass	high	low
Vulpia bromoides	Squirrel-tail Fescue	high	low
Anthoxanthum odoratum	Sweet Vernal-grass	high	high
Holcus setosus	Annual Fog	high	low
Juncus capitatus	Capitate Rush	high	low
Cyperus tenellus	Tiny Flat-sedge	high	low
	Typical Weed Species Plantago lanceolata Sonchus oleraceus Sonchus asper s.l. Cirsium vulgare Trifolium dubium Hypochoeris radicata Prunella vulgaris Leontodon taraxacoides ssp. taraxacoides Festuca arundinacea Holcus lanatus Briza minor Romulea rosea Vulpia bromoides Anthoxanthum odoratum Holcus setosus Juncus capitatus	Typical Weed Species Plantago lanceolata Sonchus oleraceus Sonchus asper s.l. Cirsium vulgare Trifolium dubium Hypochoeris radicata Prunella vulgaris Leontodon taraxacoides ssp. taraxacoides Festuca arundinacea Holcus lanatus Briza minor Romulea rosea Vulpia bromoides Anthoxanthum odoratum Holcus capitatus Ribwort Common Name Ribwort Suckling Clover Cat's Ear Suckling Clover Cat's Ear Self-heal Hairy Hawkbit Tall Fescue Yorkshire Fog Lesser Quaking-grass Onion Grass Squirrel-tail Fescue Anthoxanthum odoratum Sweet Vernal-grass Holcus setosus Juncus capitatus Common Name Ribwort Spear Thistle	Typical Weed SpeciesCommon NameInvasivePlantago lanceolataRibworthighSonchus oleraceusCommon Sow-thistlehighSonchus asper s.l.Rough Sow-thistlehighCirsium vulgareSpear ThistlehighTrifolium dubiumSuckling CloverhighHypochoeris radicataCat's EarhighPrunella vulgarisSelf-healhighLeontodon taraxacoides ssp. taraxacoidesHairy HawkbithighFestuca arundinaceaTall FescuehighHolcus lanatusYorkshire FoghighBriza minorLesser Quaking-grasshighRomulea roseaOnion GrasshighVulpia bromoidesSquirrel-tail FescuehighAnthoxanthum odoratumSweet Vernal-grasshighHolcus setosusAnnual FoghighJuncus capitatusCapitate Rushhigh

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



Developed on sites of intermittent waterlogging, typically wet in winter and dry in summer, with low nutrient availability. Closed tall heathland, or scrub if long unburnt. There is a dense ground layer of rushes and sedges, and sometimes emergent eucalypts.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	6	30%	MS
Small Shrub	5	20%	SS
Prostrate Shrub	2	5%	PS
Medium Herb	6	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	4	15%	MTG
Medium to Tiny Non-tufted Graminoid	3	20%	MNG
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	Leptospermum continentale	Prickly Tea-tree
MS	, ,	Common Heath
_	Epacris impressa	
MS	Banksia marginata	Silver Banksia
MS	Leptospermum myrsinoides	Heath Tea-tree
SS	Pultenaea stricta	Rigid Bush-pea
SS	Hibbertia fasciculata var. prostrata	Bundled Guinea-flower
SS	Dillwynia glaberrima	Smooth Parrot-pea
SS	Leucopogon glacialis	Twisted Beard-heath
PS	Xanthosia dissecta s.l.	Cut-leaf Xanthosia
MH	Gonocarpus tetragynus	Common Raspwort
MH	Argentipallium obtusifolium	Blunt Everlasting
MH	Drosera peltata ssp. auriculata	Tall Sundew
SH	Drosera pygmaea	Tiny Sundew
MTG	Patersonia fragilis	Short Purple-flag
MTG	Schoenus apogon	Common Bog-sedge
MNG	Hypolaena fastigiata	Tassel Rope-rush
MNG	Leptocarpus tenax	Slender Twine-rush
MNG	Baumea juncea	Bare Twig-sedge
SC	Cassytha pubescens s.s.	Downy Dodder-laurel
SC	Cassytha glabella	Slender Dodder-laurel

Recruitment:

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

Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.





For more information contact: Customer Service Centre, 136 186



EVC 793: Damp Heathy Woodland

Description:

Woodland to 10 m tall with tall dense heathy understorey which becomes tall scrub if long unburnt in high rainfall areas. The ground layer consists of grasses, herbs, small shrubs and tough-leaved monocots. Developed on sandy soils of moderate to low fertility, typically wet in winter due to impeding layer in soil and dry in summer.

Large trees:

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

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name10%Eucalyptus viminalisManna GumEucalyptus ovataSwamp GumEucalyptus willisiiJimmy's Shining Peppermint

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	ΙΤ
Medium Shrub	6	40%	MS
Small Shrub	2	10%	SS
Prostrate Shrub	2	1%	PS
Large Herb	3	5%	LH
Medium Herb	6	10%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	3	5%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	11	20%	MTG
Medium to Tiny Non-tufted Graminoid	3	15%	MNG
Bryophytes/Lichens	na	10%	BL

LF Code MS MS	Species typical of at least part of EVC range Leptospermum continentale	Common Name Prickly Tea-tree Common Heath
MS	Epacris impressa Acacia verticillata ssp. verticillata	Prickly Moses
MS	Allocasuarina paludosa	Scrub Sheoak
SS	Leucopogon virgatus	Common Beard-heath
SS	Hibbertia riparia	Erect Guinea-flower
PS	Astroloma humifusum	Cranberry Heath
PS	Bossiaea prostrata	Creeping Bossiaea
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
SH	Opercularia varia	Variable Stinkweed
SH	Lobelia pratioides	Poison Lobelia
SH	Lobelia pedunculata s.l.	Matted Pratia
SH	Dichondra repens	Kidney-weed
LTG	Deyeuxia quadriseta	Reed Bent-grass
LTG	Xanthorrhoea minor ssp. lutea	Small Grass-tree
LNG	Lepidosperma longitudinale	Pithy Sword-sedge
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	Schoenus apogon	Common Bog-sedge
MTG	Austrodanthonia racemosa var. racemosa	Stiped Wallaby-grass
MTG	Lepidosperma laterale var. laterale	Variable Sword-sedge
MNG	Lepyrodia muelleri	Common Scale-rush
MNG	Microlaena stipoides var. stipoides	Weeping Grass



EVC 793: Damp Heathy Woodland - Victorian Volcanic Plain bioregion

Recruitment:

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

Organic Litter:

20 % cover

Logs:

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

EVC 803: Plains Woodland (syn. EVC 55 Riverina Plains Grassy Woodland)

Description:

Grassy or sedgy woodland to 15 m tall with large inter-tussock spaces potentially supporting a range of annual or geophytic herbs adapted to low summer rainfall, with low overall biomass. Mostly occurs on terrain of low relief in areas receiving <600 mm rainfall per annum. Fertile, sometimes seasonally waterlogged, mostly silty, loamy or clay topsoils, with heavy subsoils, derived largely from former Quaternary swamp deposits.

Large trees:

Species	DBH(cm)	#/ha	
<i>Ēucalyptus</i> spp.	70 cm	15 / ha	
Allocasuarina luehmannii	40 cm		

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	Eucalyptus microcarpa	Grey Box
	Allocasuarina luehmannii	Buloke
	Eucalyptus melliodora	Yellow Box
	Eucalyptus leucoxylon	Yellow Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree	• •	5%	IT
Medium Shrub	2	5%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	20	20%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	1	1%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	16	45%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.



EVC 803: Plains Woodland (syn. EVC 55 Riverina Plains Grassy Woodland) - Victorian Volcanic Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name Golden Wattle
MS	Acacia pycnantha	
MS	Acacia acinacea s.l.	Gold-dust Wattle
SS	Eutaxia microphylla var. microphylla	Common Eutaxia
PS	Astroloma humifusum	Cranberry Heath
LH	Senecio quadridentatus	Cotton Fireweed
MH	Acaena echinata	Sheep's Burr
MH	Plantago gaudichaudii	Narrow Plantain
MH	Maireana enchylaenoides	Wingless Bluebush
MH	Calocephalus citreus	Lemon Beauty-heads
SH	Solenogyne dominii	Smooth Solenogyne
SH	Oxalis perennans	Grassland Wood-sorrel
SH	Daucus glochidiatus	Austral Carrot
SH	Goodenia pinnatifida	Cut-leaf Goodenia
LTG	Austrostipa bigeniculata	Kneed Spear-grass
MTG	Austrostipa scabra	Rough Spear-grass
MTG	Austrodanthonia setacea	Bristly Wallaby-grass
MTG	Dianella revoluta s.s.	Black-anther Flax-lily
MTG	Austrodanthonia caespitosa	Common Wallaby-grass
MNG	Wurmbea dioica	Common Early Nancy
TTG	Centrolepis strigosa ssp. strigosa	Hairy Centrolepis
TTG	Centrolepis aristata	Pointed Centrolepis
EP	Amyema miquelii	Box Mistletoe
SC	Thysanotus patersonii	Twining Fringe-lily
SC	Convolvulus erubescens spp. agg.	Pink Bindweed

Weediness:

TT CCumicoo				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Trifolium angustifolium var. angustifolium	Narrow-leaf Clover	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Arctotheca calendula	Cape Weed	high	low
MH	Petrorhagia velutina	Velvety Pink	high	low
MH	Trifolium dubium	Suckling Clover	high	low
MH	Anagallis arvensis	Pimpernel	high	low
SH	Trifolium glomeratum	Cluster Clover	high	low
LNG	Avena fatua	Wild Oat	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Lolium rigidum	Wimmera Rye-grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MNG	Vulpia myuros	Rat's-tail Fescue	high	low
MNG	Juncus capitatus	Capitate Rush	high	low
MNG	Bromus rubens	Red Brome	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



EVC 821: Tall Marsh

Description:

Closed to open grassland/sedgeland to 3 m tall, dominated by Common Reed and Cumbungi. Small aquatic and semi-aquatic species occur amongst the reeds. Occurs on Quaternary sedimentary geology of mainly estuarine sands, soils are peaty, silty clays, and average annual rainfall is approximately 600 mm. It requires shallow water (to 1 m deep) and low current-scour, and can only tolerate very low levels of salinity.

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	3	10%	LH
Medium Herb	2	5%	MH
Small or Prostrate Herb	6	10%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	2	40%	LNG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Total understorey projective foliage cover		70%	

LF Code	Species typical of at least part of EVC range	Common Name
LH	Myriophyllum verrucosum	Red Water-milfoil
LH	Myriophyllum salsuqineum	Lake Water-milfoil
LH	Villarsia reniformis	Running Marsh-flower
MH	Rumex bidens	Mud Dock
MH	Lilaeopsis polyantha	Australian Lilaeopsis
MH	Lepilaena bilocularis	Small-fruit Water-mat
SH	Lemna disperma	Common Duckweed
SH	Azolla filiculoides	Pacific Azolla
SH	Wolffia australiana	Tiny Duckweed
SH	Mimulus repens	Creeping Monkey-flower
LTG	Triglochin procerum s.l.	Water Ribbons
LTG	Juncus ingens	Giant Rush
LNG	Schoenoplectus tabernaemontani	River Club-sedge
LNG	Phragmites australis	Common Reed
LNG	Typha domingensis	Cumbungi
LNG	Typha orientalis	Broad-leaf Cumbungi
MNG	Lepilaena cylindrocarpa	Long-fruit Water-mat
MNG	Eleocharis acuta	Common Spike-sedge

Recruitment:

Episodic/Flood: desirable period of disturbance is every five years

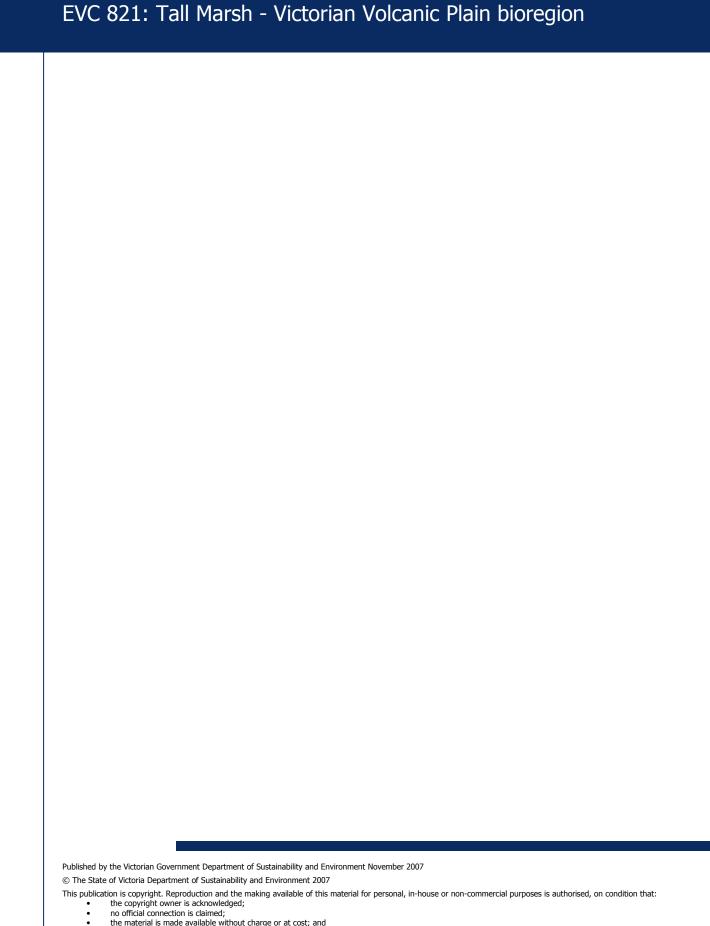
Organic Litter:

10% cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Cotula coronopifolia	Water Buttons	high	high
MNG	Paspalum distichum	Water Couch	high	high





- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

Tall shrubland to 8 m tall above a ground layer of sedges and herbs. A sparse eucalypt overstorey to 15 m tall may sometimes be present. Occurs along rivers and major streams where the watercourse consists of either rocky banks, a flat rocky stream bed or broad gravel banks which are often dry but are also regularly flooded by fast flowing waters.

Large trees⁺:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 10 / ha

EVC 851: Stream Bank Shrubland

Tree Canopy Cover+:

%cover	Character Species	Common Name
10%	Eucalyptus camaldulensis	River Red-gum

onderstorey.			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree ⁺		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	4	20%	MS
Large Herb	3	5%	LH
Medium Herb	12	20%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	3	10%	LTG
Large Non-tufted Graminoid	3	10%	LNG
Medium to Small Tufted Graminoid	10	15%	MTG
Medium to Tiny Non-tufted Graminoid	5	10%	MNG
Scrambler or Climber	2	5%	SC

T T MS MS MS MS MS H LH LH MH MH SH SH SH SH LTG LTG LNG LNG MNG	Species typical of at least part of EVC range Acacia mearnsii Acacia melanoxylon Leptospermum lanigerum Hymenanthera dentata s.l. Bursaria spinosa ssp. spinosa Callistemon sieberi Persicaria decipiens Epilobium billardierianum Acaena novae-zelandiae Hydrocotyle verticillata Oxalis perennans Crassula helmsii Dichondra repens Apium prostratum ssp. prostratum Hydrocotyle verticillata Poa labillardierei Lomandra longifolia Phragmites australis Schoenoplectus tabernaemontani Triglochin procerum s.l. Microlaena stipoides var. stipoides	Common Name Black Wattle Blackwood Woolly Tea-tree Tree Violet Sweet Bursaria River Bottlebrush Slender Knotweed Variable Willow-herb Bidgee-widgee Shield Pennywort Grassland Wood-sorrel Swamp Crassula Kidney-weed Sea Celery Shield Pennywort Common Tussock-grass Spiny-headed Mat-rush Common Reed River Club-sedge Water Ribbons Weeping Grass



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

EVC 851: Stream Bank Shrubland - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

10 m/0.1 ha.

Weediness:

weediness	i			
LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	Crataegus monogyna	Hawthorn	high	high
MS	Rosa rubiginosa	Sweet Briar	high	high
MS	Ulex europaeus	Gorse	high	high
LH	Plantago lanceolata	Ribwort	high	low
LH	Rumex crispus	Curled Dock	high	low
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Rumex conglomeratus	Clustered Dock	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Helminthotheca echioides	Ox-tongue	high	low
LH	Aster subulatus	Aster-weed	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Trifolium angustifolium var. angustifolium	Narrow-leaf Clover	high	low
MH	Trifolium dubium	Suckling Clover	high	low
MH	Plantago major	Greater Plantain	high	low
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	low
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
MTG	Nassella neesiana	Chilean Needle-grass	high	high
MTG	Bromus diandrus	Great Brome	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Bromus catharticus	Prairie Grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MNG	Cynosurus echinatus	Rough Dog's-tail	high	low
MNG	Dactylis glomerata	Cocksfoot	high	high
MNG	Avena barbata	Bearded Oat	high	low
MNG	Paspalum distichum	Water Couch	high	high
SC	Galium aparine	Cleavers	high	low
SC	Vicia sativa ssp. sativa	Common Vetch	high	low

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

Tall shrubland to 8 m tall above a ground layer of sedges and herbs. A sparse eucalypt overstorey to 15 m tall is present. Occurs along rivers and major streams where the watercourse consists of either rocky banks, a flat rocky stream bed or broad gravel banks which are often dry but are also regularly flooded by fast flowing waters.

Large Trees:

SpeciesDBH(cm)#/haEucalyptus spp.70 cm10 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name10%Eucalyptus camaldulensisRiver Red-gum

- · · · · · · · · · · · · · · · · · · ·			
Lifeform	#Spp	%Cover	LF Code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	Т
Medium Shrub	4	20%	MS
Large Herb	3	5%	LH
Medium Herb	12	20%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	3	10%	LTG
Large Non-Tufted Graminoid	3	10%	LNG
Medium to Small Tufted Graminoid	10	15%	MTG
Medium to Tiny Non-Tufted Graminoid	5	10%	MNG
Scrambler or Climber	2	5%	SC



EVC 851_61: Treed Stream Bank Shrubland

LF Code	Species typical of at least part of EVC range	Common Name
Т	Acacia mearnsii	Black Wattle
T	Acacia melanoxylon	Blackwood
MS	Bursaria spinosa subsp. spinosa	Sweet Bursaria
MS	Callistemon sieberi	River Bottlebrush
MS	Leptospermum lanigerum	Woolly Tea-tree
MS	Melicytus dentatus s.l.	Tree Violet
LH	Epilobium billardierianum	Variable Willow-herb
LH	Persicaria decipiens	Slender Knotweed
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Hydrocotyle verticillata	Shield Pennywort
MH	Oxalis perennans	Grassland Wood-sorrel
SH	Apium prostratum subsp. prostratum	Sea Celery
SH	Crassula helmsii	Swamp Crassula
SH	Dichondra repens	Kidney-weed
SH	Hydrocotyle verticillata	Shield Pennywort
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Poa labillardierei	Common Tussock-grass
LNG	Phragmites australis	Common Reed
LNG	Schoenoplectus tabernaemontani	River Club-sedge
MTG	Triglochin procera s.l.	Water Ribbons
MNG	Ficinia nodosa	Knobby Club-sedge
MNG	Microlaena stipoides var. stipoides	Weeping Grass
SC	Calystegia sepium subsp. roseata	Large Bindweed

Recruitment:

Continuous.

Organic Litter:

40 % cover

Logs:

10 m/0.1ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
Т	Crataegus monogyna	Hawthorn	high	high
MS	Ulex europaeus	Gorse	high	high
MTG	Nassella neesiana	Chilean Needle-grass	high	high
MNG	Paspalum distichum	Water Couch	high	high
MNG	Dactylis glomerata	Cocksfoot	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MS	Rosa rubiginosa	Sweet Briar	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Bromus hordeaceus subsp. hordeaceus	Soft Brome	high	low
MTG	Bromus diandrus	Great Brome	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
SH	Trifolium repens var. repens	White Clover	high	low
MH	Plantago major	Greater Plantain	high	low
MH	Trifolium dubium	Suckling Clover	high	low
MH	Trifolium angustifolium var. angustifolium	Narrow-leaf Clover	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
LH	Aster subulatus	Aster-weed	high	low
LH	Helminthotheca echioides	Ox-tongue	high	low



EVC 851_61: Treed Stream Bank Shrubland

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MNG	Cynosurus echinatus	Rough Dog's-tail	high	low
MNG	Avena barbata	Bearded Oat	high	low
LH	Rumex conglomeratus	Clustered Dock	high	low
SC	Galium aparine	Cleavers	high	low
MTG	Bromus catharticus	Prairie Grass	high	low
LH	Plantago lanceolata	Ribwort	high	low
LH	Rumex crispus	Curled Dock	high	low
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
SC	Vicia sativa subsp. sativa	Common Vetch	high	low

For more information contact: Customer Service Centre, 136 186

Published by the Victorian Government Department of Sustainability and Environment
© The State of Victoria Government Department of Sustainability and Environment 2004
This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-comercial is authorised, on condition that:

• the copyright owner is acknowledged;
• no official connection is claimed;
• the material is made available without charge or cost; and
• the material is not subject to inaccurate, misleading or derogatory treatment.
Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson St, East Melbourne, Victoria 3002.



EVC 858: Coastal Alkaline Scrub

Description:

Near-coastal, deep calcareous (alkaline) and largely stable sand dunes and swales commonly dominated by Moonah *Melaleuca lanceolata* ssp. *lanceolata*. It occurs at low elevations of 20-60 m above sea level, average annual rainfall is approximately 550-950 mm, and it occurs on a variety of geologies and soil types. Low woodland or tall shrubland to 8 m tall, typically with a medium shrub layer, small shrub layer and sedges, grasses and herbs in the ground layer.

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	Melaleuca lanceolata ssp. lanceolata	Moonah
	Allocasuarina verticillata	Drooping Sheoak
	Leptospermum laevigatum	Coast Tea-tree
	Bursaria spinosa ssp. spinosa	Sweet Bursaria

#Spp	%Cover	LF code
3	20%	MS
1	1%	SS
1	5%	PS
2	1%	LH
5	10%	MH
2	5%	SH
1	5%	LTG
4	10%	MTG
1	5%	MNG
2	1%	SC
na	20%	BL
	85%	
	3 1 1 2 5 2 1 4 1 2	3 20% 1 1% 1 5% 2 1% 5 10% 2 5% 1 5% 4 10% 1 5% 2 1% na 20%

MS MS MS SS PS MH MH SH SH LTG MTG MTG MTG MNG	Species typical of at least part of EVC range Acacia longifolia ssp. sophorae Leucopogon parviflorus Acacia retinodes var. uncifolia Hibbertia sericea s.l. Acrotriche prostrata Lagenophora stipitata Geranium potentilloides Acaena novae-zelandiae Dichondra repens Oxalis exilis Lomandra longifolia Dianella revoluta s.l. Carex breviculmis Elymus scaber var. scaber Austrodanthonia setacea Ficinia nodosa	Common Name Coast Wattle Coast Beard-heath Coast Wirilda Silky Guinea-flower Trailing Ground-berry Common Bottle-daisy Cinquefoil Cranesbill Bidgee-widgee Kidney-weed Shady Wood-sorrel Spiny-headed Mat-rush Black-anther Flax-lily Common Grass-sedge Common Wheat-grass Bristly Wallaby-grass Knobby Club-sedge
SC	Clematis microphylla	Knobby Club-sedge Small-leaved Clematis
SC	Comesperma volubile	Love Creeper



EVC 858: Coastal Alkaline Scrub - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

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

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rhamnus alaternus	Italian Buckthorn	low	high
MS	Chrysanthemoides monilifera	Boneseed	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Catapodium rigidum	Fern Grass	high	low
MNG	Lagurus ovatus	Hare's-tail Grass	high	low
MNG	Vulpia spp.	Fescue	high	low

Published by the Victorian Government Department of Sustainability and Environment November 2007

© The State of Victoria Department of Sustainability and Environment 2007

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186



EVC 894: Scoria Cone Woodland

Description:

Eucalypt woodland to 15 m tall or non-eucalypt woodland to 10 m tall over a grassy to bracken-dominated understorey with a range of herbs. Occurs on the slopes of freely-draining scoria cones and spatter areas of more coarse boulder-forming flow sources. Soils are fertile but often skeletal.

Large trees:

SpeciesDBH(cm)#/haEucalyptus spp.70 cm15 / haAllocasuarina spp.40 cm

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus viminalisManna GumAllocasuarina verticillataDrooping Sheoak

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

LF Code	Species typical of at least part of EVC range Acacia melanoxylon	Common Name Blackwood
MS	Bursaria spinosa	Sweet Bursaria
LH	Senecio pinnatifolius	Variable Groundsel
LH	Rumex brownii	Wiry Dock
LH	Senecio quadridentatus	Cotton Fireweed
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Geranium potentilloides	Cinquefoil Cranesbill
MH	Acaena echinata	Sheep's Burr
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
SH	Dichondra repens	Kidney-weed
SH	Oxalis exilis	Shady Wood-sorrel
LTG	Poa labillardierei	Common Tussock-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MTG	Carex breviculmis	Short-stem Sedge
MTG	Austrodanthonia pilosa	Velvet Wallaby-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken



EVC 894: Scoria Cone Woodland - Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

10 m/0.1 ha

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	African Box-thorn	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Holcus lanatus	Yorkshire Fog	high	high

Published by the Victorian Government Department of Sustainability and Environment May 2004

© The State of Victoria Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

EVC 895: Escarpment Shrubland

Description:

Occurs on rocky escarpments in steep valleys or gorges, associated with limestone or basalt. Sites have moderate to high fertility, are well-drained but subject to regular summer drought due to shallow soils. Eucalypt woodland to 15 m tall or non-eucalypt shrubland to 8 m tall, with occasional eucalypts; lichen-covered rock outcrops are common.

Large trees+:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	Acacia implexa	Lightwood
	Allocasuarina verticillata	Drooping Sheoak
	Acacia mearnsii	Black Wattle
	Bursaria spinosa	Sweet Bursaria
	Eucalyptus viminalis ssp. viminalis	Manna Gum

Life form	#Spp	%Cover	LF code
Immature Canopy Tree ⁺		5%	IT
Understorey Tree or Large Shrub ⁺	3	10%	T
Medium Shrub	3	10%	MS
Small Shrub	2	5%	SS
Large Herb	3	5%	LH
Medium Herb	4	10%	MH
Small or Prostrate Herb	5	5%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	9	25%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	1	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code		Species typical of at least part of EVC range	Common Name
MS	r	Rhagodia parabolica	Fragrant Saltbush
MS		Hymenanthera dentata s.l.	Tree Violet
SS		Enchylaena tomentosa var. tomentosa	Ruby Saltbush
LH		Wahlenbergia communis s.l.	Tufted Bluebell
MH		Oxalis perennans	Grassland Wood-sorrel
MH		Maireana enchylaenoides	Wingless Bluebush
MH		Einadia nutans ssp. nutans	Nodding Saltbush
SH		Chamaesyce drummondii	Flat Spurge
SH		Dichondra repens	Kidney-weed
LTG		Austrostipa bigeniculata	Kneed Spear-grass
MTG		Austrodanthonia racemosa var. racemosa	Stiped Wallaby-grass
MTG		Austrodanthonia setacea	Bristly Wallaby-grass
MNG		Panicum effusum	Hairy Panic
GF		Cheilanthes distans	Bristly Cloak-fern
SC		Clematis microphylla	Small-leaved Clematis
SC		Convolvulus erubescens spp. agg.	Pink Bindweed



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

EVC 895: Escarpment Shrubland -Victorian Volcanic Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha+

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

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
Т	Schinus molle	Pepper Tree	high	high
MS	Lycium ferocissimum	African Box-thorn	high	high
MS	Genista monspessulana	Montpellier Broom	high	high
SS	Marrubium vulgare	Horehound	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Helminthotheca echioides	Ox-tongue	high	high
LH	Lactuca serriola	Prickly Lettuce	high	low
LH	Sisymbrium officinale	Hedge Mustard	high	high
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Verbascum thapsus ssp. thapsus	Great Mullein	high	high
LH	Echium plantagineum	Paterson's Curse	high	high
LH	Centaurium tenuiflorum	Slender Centaury	high	low
LH	Foeniculum vulgare	Fennel	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Trifolium arvense var. arvense	Hare's-foot Clover	high	low
MH	Trifolium subterraneum	Subterranean Clover	high	low
MH	Trifolium campestre var. campestre	Hop Clover	high	low
MH	Trifolium angustifolium var. angustifolium	Narrow-leaf Clover	high	low
MH	Lotus suaveolens	Hairy Bird's-foot Trefoil	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
SH	Medicago polymorpha	Burr Medic	high	low
SH	Trifolium glomeratum	Cluster Clover	high	low
SH	Modiola caroliniana	Red-flower Mallow	high	low
SH	Aptenia cordifolia	Heart-leaf Ice-plant	high	high
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
LNG	Avena fatua	Wild Oat	high	low
MTG	Nassella trichotoma	Serrated Tussock	high	high
MTG	Ehrharta longiflora	Annual Veldt-grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
MTG	Sporobolus africanus	Rat-tail Grass	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Pentaschistis airoides ssp. airoides	False Hair-grass	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	high
MTG	Dactylis glomerata	Cocksfoot	high	high
MTG	Vulpia myuros	Rat's-tail Fescue	high	low
MTG	Bromus rubens	Red Brome	high	low
MTG	Avena barbata	Bearded Oat	high	low
MTG	Aira caryophyllea	Silvery Hair-grass	high	low
SC	<i>Vicia sativa</i> ssp. <i>sativa</i>	Common Vetch	high	low

Published by the Victorian Government Department of Sustainability and Environment January 2005

© The State of Victoria Department of Sustainability and Environment 2005

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:

- the copyright owner is acknowledged; no official connection is claimed;
- the material is made available without charge or at cost; and

• the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.

For more information contact: Customer Service Centre, 136 186

Occurs on rocky escarpments in steep valleys or gorges, associated with limestone or basalt. Sites have moderate to high fertility, are well-drained but subject to regular summer drought due to shallow soils. Eucalypt woodland to 15 m tall or non-eucalypt shrubland to 8 m tall, with occasional eucalypts; lichen-covered rock outcrops are common.

Large Trees:

SpeciesDBH(cm)#/haEucalyptus spp.70 cm15 / ha

Tree Canopy Cover:

%cover Character Species Common Name

15% Acacia implexa Lightwood
Acacia meamsii Black Wattle

Allocasuarina verticillata

Bursaria spinosa Sweet Bursaria Eucalyptus viminalis subsp. viminalis Manna Gum

Lifeform	#Spp	%Cover	LF Code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	10%	T
Medium Shrub	3	10%	MS
Small Shrub	2	5%	SS
Large Herb	3	5%	LH
Medium Herb	4	10%	MH
Small or Prostrate Herb	5	5%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-Tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	9	25%	MTG
Medium to Tiny Non-Tufted Graminoid	3	5%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	1	5%	SC
Bryophytes/Lichens		10%	BL
Soil Crust		10%	S/C



EVC 895_61: Treed Escarpment Shrubland

LF Code	Species typical of at least part of EVC range	Common Name
T	Various spp.	
MS	Melicytus dentatus s.l.	Tree Violet
MS	r Rhagodia parabolica	Fragrant Saltbush
SS	Enchylaena tomentosa var. tomentosa	Ruby Saltbush
LH	Wahlenbergia communis s.l.	Tufted Bluebell
MH	Einadia nutans subsp. nutans	Nodding Saltbush
MH	Maireana enchylaenoides	Wingless Bluebush
MH	Oxalis perennans	Grassland Wood-sorrel
SH	Chamaesyce drummondii	Flat Spurge
SH	Dichondra repens	Kidney-weed
LTG	Austrostipa bigeniculata	Kneed Spear-grass
LNG	Various spp.	
MTG	Austrodanthonia racemosa var. racemosa	Stiped Wallaby-grass
MTG	Austrodanthonia setacea	Bristly Wallaby-grass
MNG	Panicum effusum	Hairy Panic
GF	Cheilanthes distans	Bristly Cloak-fern
SC	Clematis microphylla	Small-leaved Clematis
SC	Convolvulus erubescens spp. agg.	Pink Bindweed

Recruitment:

Continuous.

Organic Litter:

20 % cover

Logs:

15 m/0.1ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sisymbrium officinale	Hedge Mustard	high	high
SS	Marrubium vulgare	Horehound	high	high
MTG	Sporobolus africanus	Rat-tail Grass	high	high
SH	Aptenia cordifolia	Heart-leaf Ice-plant	high	high
LH	Verbascum thapsus subsp. thapsus	Great Mullein	high	high
MS	Genista monspessulana	Montpellier Broom	high	high
MTG	Lolium perenne	Perennial Rye-grass	high	high
LH	Helminthotheca echioides	Ox-tongue	high	high
Т	Schinus molle	Pepper Tree	high	high
MH	Foeniculum vulgare	Fennel	high	high
MTG	Nassella trichotoma	Serrated Tussock	high	high
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
LH	Echium plantagineum	Paterson's Curse	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MS	Lycium ferocissimum	African Box-thorn	high	high
MNG	Dactylis glomerata	Cocksfoot	high	high
MNG	Bromus rubens	Red Brome	high	low
LH	Centaurium tenuiflorum	Slender Centaury	high	low
LNG	Avena fatua	Wild Oat	high	low
MNG	Avena barbata	Bearded Oat	high	low
MH	Trifolium arvense var. arvense	Hare's-foot Clover	high	low
LH	Lactuca serriola	Prickly Lettuce	high	low
MNG	Aira caryophyllea	Silvery Hair-grass	high	low
SC	Vicia sativa subsp. sativa	Common Vetch	high	low
SH	Modiola caroliniana	Red-flower Mallow	high	low
MH	Trifolium angustifolium var. angustifolium	Narrow-leaf Clover	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low



EVC 895_61: Treed Escarpment Shrubland

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MNG	Vulpia myuros	Rat's-tail Fescue	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Pentaschistis airoides subsp. airoides	False Hair-grass	high	low
SH	Trifolium glomeratum	Cluster Clover	high	low
SH	Medicago polymorpha	Burr Medic	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MTG	Ehrharta longiflora	Annual Veldt-grass	high	low
MH	Trifolium subterraneum	Subterranean Clover	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MH	Lotus subbiflorus	Hairy Bird's-foot Trefoil	high	low
MTG	Bromus hordeaceus subsp. hordeaceus	Soft Brome	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Trifolium campestre var. campestre	Hop Clover	high	low

Published by the Victorian Government Department of Sustainability and Environment
© The State of Victoria Government Department of Sustainability and Environment 2004
This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-comercial is authorised, on condition that:

• the copyright owner is acknowledged;
• no official connection is calaiment.
• the material is made available without charge or cost; and
• the material is made available without charge or cost; and
• the material is not subject to inaccurate, misleading or derogatory treatment.
Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson St, East Melbourne, Victoria 3002.

For more information contact: Customer Service Centre, 136 186



EVC 914: Estuarine Flats Grassland

Description:

Closed to open grassland to 1.5 m tall with occasional shrubs occurring on estuarine flats often associated with current or old beach berms or sand sheets that are occasionally inundated by high tides. Occupies areas on marginally higher ground inland from Coastal Saltmarsh.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	2	5%	MS
Small Shrub	1	5%	SS
Large Herb	1	1%	LH
Medium Herb	3	15%	MH
Small Herb	4	15%	SH
Large Tufted Graminoid	2	15%	LTG
Medium to Small Tufted Graminoid	2	20%	MTG
Medium to Tiny Non-tufted Graminoid	3	15%	MNG
Total understorey projective foliage cover		85%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	Atriplex cinerea	Coast Saltbush
MS	Rhagodia candolleana ssp. candolleana	Seaberry Saltbush
SS	<i>Frankenia pauciflora</i> var. <i>gunnii</i>	Southern Sea-heath
LH	Senecio pinnatifolius	Variable Groundsel
MH	Sarcocornia quinqueflora ssp. quinqueflora	Beaded Glasswort
MH	Suaeda australis	Austral Seablite
MH	Samolus repens	Creeping Brookweed
SH	Disphyma crassifolium ssp. clavellatum	Rounded Noon-flower
SH	Selliera radicans	Shiny Swamp-mat
SH	Hemichroa pentandra	Trailing Hemichroa
LTG	Austrostipa stipoides	Prickly Spear-grass
LTG	Gahnia filum	Chaffy Saw-sedge
MTG	Poa poiformis	Coast Tussock-grass
MTG	Lachnagrostis billardierei ssp. billardierei	Coast Blown-grass
MNG	Spinifex sericeus	Hairy Spinifex
MNG	Distichlis distichophylla	Australian Salt-grass
MNG	Ficinia nodosa	Knobby Club-sedge

Recruitment:

Continuous

Organic Litter:

10% Cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Chrysanthemoides monilifera ssp. monilifera	Boneseed	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Conyza albida	Tall Fleabane	high	low
MH	Polycarpon tetraphyllum	Four-leaved Allseed	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MNG	Vulpia myuros	Rat's-tail Fescue	high	low
MNG	Lagurus ovatus	Hare's-tail Grass	high	low





www.dse.vic.gov.au

Grassland or sedgeland occurring on silts in low-lying areas within brackish floodplains. Often occurs in association with Brackish Wetland

Understorey:

Lifeform	#Spp	%Cover	LF Code
Large Herb	1	1%	LH
Medium Herb	3	5%	MH
Small or Prostrate Herb	5	5%	SH
Large Tufted Graminoid	2	20%	LTG
Medium to Small Tufted Graminoid	4	20%	MTG
Medium to Tiny Non-Tufted Graminoid	1	10%	MNG
Bryophytes/Lichens		10%	BL

LF Code	Species typical of at least part of EVC range	Common Name
LH	Senecio glomeratus	Annual Fireweed
MH	Calocephalus lacteus	Milky Beauty-heads
MH	Samolus repens	Creeping Brookweed
MH	Sarcocornia quinqueflora	Beaded Glasswort
MH	Sebaea albidiflora	White Sebaea
SH	Selliera radicans	Shiny Swamp-mat
SH	Utricularia tenella	Pink Bladderwort
LTG	Gahnia filum	Chaffy Saw-sedge
LTG	Gahnia trifida	Coast Saw-sedge
LTG	Poa labillardierei	Common Tussock-grass
MTG	Austrodanthonia geniculata	Kneed Wallaby-grass
MTG	Poa poiformis	Coast Tussock-grass
MTG	Schoenus apogon	Common Bog-sedge
MNG	Distichlis distichophylla	Australian Salt-grass

Recruitment:

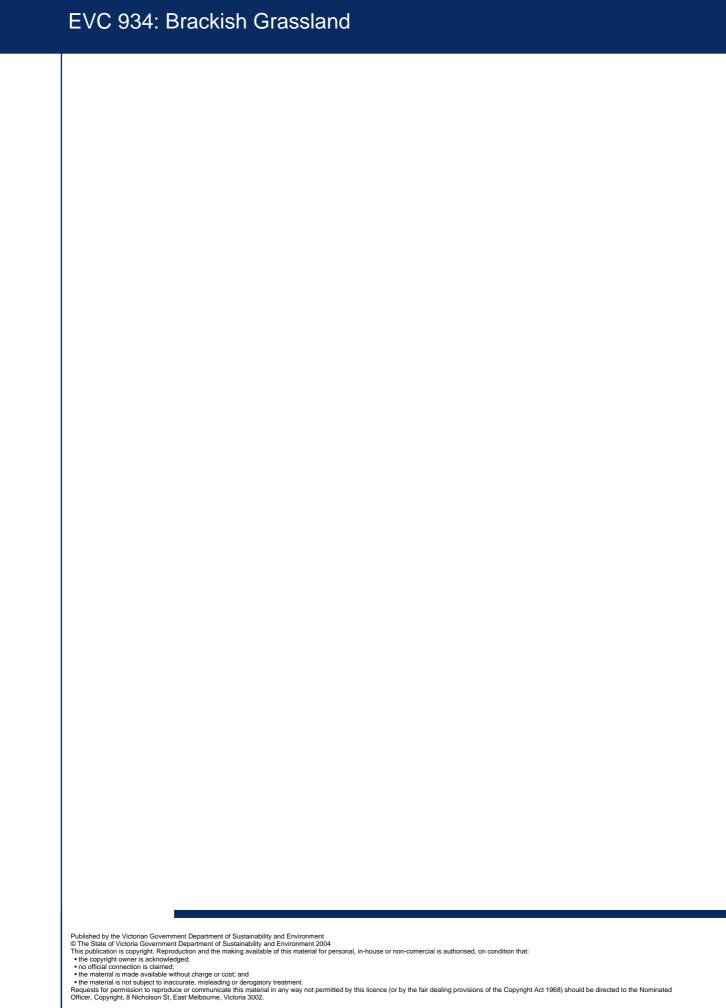
Continuous.

Organic Litter:

10 % cover

Weediness: There are no consistent weeds in this EVC





For more information contact: Customer Service Centre, 136 186

This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss, of other consequences which may arise from you relying on any information in this publication.

www.dse.vic.gov.au