

NatureMaps 'quick start' guide Information compiled by Dr Mary Retallack, April 2022

NatureMaps is an online program that can be used to source information for individual properties located in South Australia. This is a 'quick guide' to help get you started on your property planning project and it provides details of the major pre-European plant communities found in the Clare Wine Region.

Step #	Instruction
Step 1	To get started open the following link https://data.environment.sa.gov.au/NatureMaps/Pages/default.aspx
Step 2	Select the 'start' button START using and wait for the program to load
Step 3	Type your details in the 'find your address or location' bar
Step 4	Select the best fit from the ALVS tab 🧳 (224) ALVS CLARE, 5453 and the map will zoom to your address
Step 5	Use the zoom 'in or out' buttons to navigate around the map (toggle out so you can see the region)
Step 6	Select the 'layers' button at the bottom of the screen
Step 7	Select the 'vegetation' layer + 🔻 Vegetation and then select the + button to open the drop down menu.
Step 8	Select 'Pre-European Vegetation' from the drop-down menu
Step 9	Slide the bar to change the transparency of the layer selected Pre European Vegetation
Step 10	Place your cursor over a coloured area on the map to get more information about the selected layer. Then select 'view additional details' in the white summary box to access further details.
Step 11	Once you have identified the name of your local plant community you can search and download a list of plants here https://www.landscape.sa.gov.au/hf/our-priorities/nature/native-plants-and-animals/native-plants/native-plants-and-animals/native-plants/native-plants-and-animals/native-plants/native-plants-and-animals/native-plants/native-plants-and-animals/native-plants/native-plants-and-animals/native-plants/native-plants-and-animals/native-plants/native-plants-and-animals/native-plants/native-plants-and-animals/native-plants/native-plants-and-animals/native-plants-and-animals/native-plants-and-animals/native-plants-and-animals/native-plants-and-animals/native-plants-and-animals/native-plants-and-animals/native-plants-and-animals/native-plants-and-animals/native-plants-and-animals/native-plants-and-animals/native-plants-and-animals/native-plants-and-animals/native-plants-and-animals/native-plants-animals/nativ

For further info see https://data.environment.sa.gov.au/NatureMaps/Documents/NatureMaps%20Help%20Guide.pdf

Please refer to the plant community lists below (which relate the location of the EcoVineyards demonstration sites) or enter your details into NatureMaps and follow the process above to access a plant list for your local area.







Peppermint box, *Eucalyptus odorata* woodland (H18) (MN0003PE) plant species list

Description: Eucalyptus odorata + E. leucoxylon ssp. pruinosa woodland over a grassy and herbaceous understorey

This list may contain historical scientific or common names and includes plant species that grew naturally in this vegetation association that are commercially available. This information has been summarised from https://www.landscape.sa.gov.au/hf/our-priorities/nature/native-plants-and-animals/native-plants/ native-plant-species-lists https://www.stateflora.sa.gov.au/ and https://plantselector.botanicgardens.sa.gov.au. Information is also presented about each plant's potential to provide nectar and/or pollen to nourish predatory arthropods. This information should be used as a guide only.

	_		Common name	Floral resources		Height	Width	Vidth Tolerance		wer	Flowering
Habit	Genus	Species		Pollen	Nectar	(m)	(m)	to frost		our	time
	Acacia	pycnantha	golden wattle	yes	¹yes	4 to 6	2 to 6	moderately sensitive	ye	low	winter to spring
	Allocasuarina	verticillata	drooping sheoak	yes	no	5 to 8	4 to 6	resistant	re	ed	autumn to winter
	Callitris	gracilis	southern cypress pine	yes	no	7 to 14	3 to 6	resistant	insigr	ificant	N/A
Tree	Eucalyptus	goniocalyx	long-leafed box	yes	yes	8 to 20	6 to 15	resistant	wl	nite	summer
	Eucalyptus	microcarpa	grey box	yes	yes	6 to 20	8 to 20	resistant	cre	am	summer to winter
	Eucalyptus	odorata	peppermint box	yes	yes	7 to 16	6 to 12	resistant	cre	am	All year
	Eucalyptus	porosa	mallee box	yes	yes	6 to 14	5 to 12	moderately sensitive	wł	nite	spring
	*Bursaria	spinosa	Christmas bush	yes	yes	2 to 4	1 to 3	resistant	wł	nite	late spring to late summer
Shrub	Eutaxia	microphylla	mallee bush-pea	yes	yes	0.5 to 2	2 to 2	moderately sensitive	brown	yellow	spring
	Rhagodia	parabolica	mealy saltbush	yes		1 to 2	1 to 2	resistant	insigr	ificant	winter to spring
	Lomandra	densiflora	pointed mat- rush	yes	yes	0.2 to 0.6	0.2 to 0.6	resistant	green		winter to summer
Strap	Lomandra	effusa	scented mat-rush	yes	yes	0.2 to 0.5	0.2 to 0.5	moderately sensitive	cream	yellow	winter to spring
leaved	Lomandra	micrantha	small-flower mat-rush	yes	yes	0.2 to 0.8	0.2 to 0.9	resistant	white		autumn to spring
	Lomandra	<i>multiflora</i> ssp. dura	hard mat- rush	yes	yes	0.2 to 0.8	0.75	resistant	cre	am	winter to summer
	Aristida	behriana	brush wire- grass	yes	no	0.15 to 0.3	0.2 to 0.3	resistant	cre	am	spring to summer
	Austrostipa	elegantissima	elegant spear grass	yes	no	1	1	resistant	green	brown	spring to summer
	Austrostipa	nitida	balcarra spear grass	yes	no	0.7	0.5	resistant	green	brown	winter to spring
Ground	Elymus	<i>scaber</i> var. scaber	native wheat grass	yes	no	0.2	1	resistant	cre	am	winter to spring
cover	Goodenia	pinnatifida	cut-leaf goodenia	yes	yes	0.4	0.1 moderately sensitive yellow		low	spring to summer	
	*Rytidosperma	caespitosum	common wallaby grass	yes	no	0.2 to 0.8	0.1 to 0.3	resistant	cre	am	spring
	*Rytidosperma	setaceum	small- flowered wallaby grass	yes	no	0.2 to 0.6	0.1 to 0.3	resistant	cre	eam	spring to summer
Bulbs and lilies	Dianella	<i>revoluta</i> var. revoluta	black-anther flax-lily	² buzz pollinated (pollen only accessible to native bees)	no	0.3 to 1	0.5 to 2	resistant	blue		spring to summer





SA blue gum, *Eucalyptus leucoxylon* ssp. leucoxylon woodland (H10) (AP0003PE) (SE0008PE) plant species list

Description: Eucalyptus *leucoxylon* ssp. leucoxylon woodland over a grassy and herbaceous understorey and sparse cover of shrubs (eg. *Cheilanthes austrotenuifolia*, *Themeda triandra*, *Lomandra multiflora* ssp dura, *Dodonaea viscosa* ssp. spathulata, *Acacia paradoxa*, and *Gonocarpus elatus*)

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Habit	Genus	Species	Common	Floral res	ources	Height	Width	Tolerance to		wer	Flowering
		-	name	Pollen	Nectar	(m)	(m)	frost	colour		time
	Acacia	pycnantha	golden wattle	yes	¹yes	4 to 6	2 to 6	moderately sensitive	ye	low	winter to spring
	Allocasuarina	verticillata	drooping sheoak	yes	no	5 to 8	4 to 6	resistant	re	ed	autumn to winter
	Banksia	marginata	silver banksia	yes	yes	2 to 8	1 to 5	resistant	ye	low	spring to autumn
	Eucalyptus	camaldulensis ssp. camaldulensis	river red gum	yes	yes	20 to 30	10 to 15	resistant	white		summer
Tree	Eucalyptus	fasciculosa	pink gum	yes	yes	5 to 18	5 to 12	moderately sensitive	cre	am	summer to autumn
	Eucalyptus	leucoxylon	SA blue gum	yes	yes	8 to 30	8 to 25	moderately sensitive	cream	pink	autumn to winter
	Eucalyptus	microcarpa	grey box	yes	yes	6 to 20	8 to 20	resistant	cre	am	summer to winter
	Eucalyptus	<i>viminalis</i> ssp. cygnetensis	rough barked manna gum	yes	yes	6 to 20	8 to 20	moderately sensitive	wł	nite	summer to autumn
	Pittosporum	angustifolium	native apricot	yes	yes	4 to 8	3 to 4	moderately sensitive	cream		spring
	Acacia	acinacea	wreath wattle	yes	¹yes	1 to 2	1 to 2	resistant	yellow		winter to spring
	Acacia	cupularis	coastal umbrella bush	yes	¹yes	2 to 3	2 to 3	moderately sensitive	yellow		spring
	Acacia	paradoxa	prickly wattle	yes	¹yes	2 to 4	3 to 4	moderately sensitive	yellow		spring
	*Bursaria	spinosa	Christmas bush	yes	yes	2 to 4	1 to 3	resistant	white		late spring to late summer
	Daviesia	leptophylla	narrow-leaf bitter-pea	yes	yes	1 to 2.5	1 to 2	moderately sensitive	red	orange	spring
	Dodonaea	<i>viscosa</i> ssp. spatulata	sticky hop bush	yes	no	2 to 4	2 to 4	resistant	N/A		spring to autumn
	Eutaxia	microphylla	mallee bush- pea	yes	yes	0.5 to 2	2 to 2	moderately sensitive	brown	yellow	spring
Shrub	Goodenia	amplexans	clasping goodenia	yes	yes	0.5 to 1.2	0.5 to 1	moderately sensitive	yellow		spring to summer
	Grevillea	lavandulacea	heath grevillea	yes	yes	1 to 1.5	2 to 3	resistant	red		winter to spring
	Hakea	carinata	erect hakea	yes	yes	1.5 to 3	1 to 2.5	moderately sensitive	white		spring
	Hakea	rugosa	dwarf hakea	yes	yes	1 to 2	1 to 2	moderately sensitive	wl	nite	winter to spring
	Hibbertia	riparia	bristly guinea flower	² buzz pollinated	no	0.1 to 0.5	0.3 to 0.8	moderately sensitive	yellow		spring
	*Leptospermum	myrsinoides	silky tea-tree	yes	yes	1 to 4	1 to 4	resistant	wl	nite	spring
	Olearia	ramulosa	twiggy daisy-bush	yes	yes	1 to 1.15	1 to 2	resistant	white	pink	spring to summer
	Pultenaea	largiflorens	twiggy bush- pea	yes	yes	1 to 1.5	0.5 to 1.5	moderately sensitive	wł	nite	winter to spring
	Thomasia	petalocalyx	paper flower	² buzz pollinated	yes	0.6	0.6 to 1	moderately sensitive	pink	purple	spring to summer





SA blue gum, Eucalyptus leucoxylon ssp. leucoxylon woodland species list - continued

Habit	Genus	Species	Common name	Floral resources		Height	Width	Tolerance to	Flower		Flowering
Tidali	Gonao			Pollen	Nectar	(m)	(m)	frost	colour		time
	Lomandra	densiflora	pointed mat- rush	yes	yes	0.2 to 0.6	0.2 to 0.6	resistant	gre	een	winter to summer
	Lomandra	micrantha	small-flower mat-rush	yes	yes	0.2 to 0.8	0.2 to 0.9	resistant	wh	white	
Strap leaved	Lomandra	<i>multiflora</i> ssp. dura	hard mat- rush	Yes	yes	0.2 to 0.8	0.75	resistant	cre	cream	
	Xanthorrhoea	quadrangulata	Mount Lofty grass tree	yes	yes	1 to 2.5	0.5 to 1.5	resistant	cream		autumn to winter
	Xanthorrhoea	<i>semiplana</i> ssp. semiplana	grass tree	yes	yes	1 to 3	1 to 2	moderately sensitive	cre	am	winter to spring
Sedges and rushes	Juncus	pauciflorus	loose-flower rush	yes	no	0.5 to 1	0.5 to 1	resistant	bro	own	summer
	Aristida	behriana	brush wire- grass	yes	no	0.15 to 0.3	0.2 to 0.3	resistant	cre	am	spring to summer
	Austrostipa	elegantissima	elegant spear grass	yes	no	1	1	resistant	green	brown	spring to summer
	Austrostipa	nodosa	tall spear grass	yes	no	0.5 to 1	0.5 to 1	resistant	green	brown	spring to summer
	Chloris	truncata	windmill grass	yes	no	0.3 to 0.5	0.2 to 0.5	resistant	cre	am	spring to summer
	Goodenia	blackiana	native primrose	yes	yes	0.1 to 0.2	0.2 to 0.5	moderately sensitive	yellow		winter to spring
	Goodenia	pinnatifida	cut-leaf goodenia	yes	yes	0.4	0.1	moderately sensitive	yellow		spring to summer
	Kennedia	prostrata	scarlet runner or running postman	yes	yes	0.1	1.5 to 4	moderately sensitive	red		winter to spring
Ground	Microlaena	stipoides var. stipoides	weeping rice-grass	yes	no	0.1 to 0.7	0.2 to 1	moderately sensitive	cream		spring to summer
cover	Poa	labillardieri	common tussock- grass	yes	no	0.5 to 1	0.3 to 0.7	resistant	green		spring to summer
	Pultenaea	pedunculata	matted bush-pea	yes	yes	0.1	1 to 3	moderately sensitive	yellow	orange	winter to spring
	*Rytidosperma	auriculatum	lobed wallaby grass	yes	no	0.2 to 0.7	0.1 to 0.2	resistant	cream		spring
	*Rytidosperma	caespitosum	common wallaby grass	yes	no	0.2 to 0.8	0.1 to 0.3	resistant	cream		spring
	*Rytidosperma	setaceum	small- flowered wallaby grass	yes	no	0.2 to 0.6	0.1 to 0.3	resistant	cream		spring to summer
	Scaevola	albida	pale fan flower	yes	yes	0.3 to 0.6	0.6 to 1	resistant	wł	nite	all year
	Themeda	triandra	kangaroo grass	yes	no	0.4 to 1	0.5 to 1	resistant	bro	own	frequent
Bulbs	Dianella	longifolia	pale flax-lilly	² buzz pollinated	no	0.5 to 0.8	0.5 to 1	resistant	bl	ue	spring to summer
and lilies	Dianella	<i>revoluta</i> var. revoluta	black-anther flax-lily	² buzz pollinated	no	0.3 to 1	0.5 to 2	resistant	bl	ue	spring to summer
Climber (outside vineyard)	Hardenbergia	violacea	native lilac	yes	yes	climber	3 to 4	moderately sensitive	pu	ple	winter to spring

¹Acacia flowers do not produce nectar. However, the leaf and phyllode glands do secrete a nectar or sugary substance which bees, butterflies and other insects have been observed feeding on.

² **Buzz pollination:** Some native bees use a special pollination technique called 'buzz pollination' (sonication) i.e. the bluebanded bee, bangs its head on the flower's anthers 350 times a second to release the pollen. Plants from the Solanaceae (nightshade) family (tomatoes, capsicums and eggplants) and many Australian native plants including *Hibbertia* ssp. and *Dianella* ssp. are buzz pollinated. These plants have the capacity to boost biodiversity and support populations of native bees but their pollen resources may not be readily available to predatory arthropods.







^{*}Growers are encouraged to explore the use of *Bursaria spinosa*, *Leptospermum* ssp. and *Rytidosperma* ssp. as insectary plants in and around their vineyards (Retallack et al., 2019). It is anticipated a broader suite of native insectary plants could extend the richness and abundance of predatory arthropods in vineyards.

Scented mat-rush, *Lomandra effusa*, spear-grass, *Austrostipa* spp. and wallaby-grass, *Rytidosperma* spp. tussock grassland (H46) (WM1301PE) plant species list

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Habit	Genus	Species	Common name	Floral resources Pollen Nectar		Height (m)	Width (m)	Tolerance to frost		wer our	Flowering time
Shrub	*Bursaria	spinosa	Christmas bush	yes	yes	2 to 4	1 to 3	resistant	wh	nite	late spring to late summer
	Enchylaena	tomentosa var. tomentosa	ruby saltbush	yes		0.3 to 1	0.5 to 1.5	resistant	wh	nite	frequent
	Maireana	brevifolia	short-leaf bluebush	yes	yes	0.5 to 1	0.5 to 1.5	resistant	insigr	ificant	N/A
Strap	Lomandra	effusa	scented mat- rush	yes	yes	0.2 to 0.5	0.2 to 0.5	moderately sensitive	cream	yellow	winter to spring
leaved	Lomandra	<i>multiflora</i> ssp. dura	hard mat- rush	yes	yes	0.2 to 0.8	0.75	resistant	cream		winter to summer
	Aristida	behriana	brush wire- grass	yes	no	0.15 to 0.3	0.2 to 0.3	resistant	t cream		spring to summer
	Austrostipa	elegantissima	elegant spear grass	yes	no	1	1	resistant	green	brown	spring to summer
	Austrostipa	nodosa	tall spear grass	yes	no	0.5 to 1	0.5 to 1	resistant	green	brown	spring to summer
	Austrostipa	scabra	rough spear- grass	yes	no	0.3 to 0.6	0.5	resistant	cream		winter to spring
Ground	Enneapogon	nigricans	black-head grass	yes	no	0.2 to 0.5	0.5	resistant	brown		spring to summer
cover	Goodenia	pinnatifida	cut-leaf goodenia	yes	yes	0.4	0.1	moderately sensitive	yellow		spring to summer
	*Rytidosperma	auriculatum	lobed wallaby grass	yes	no	no 0.2 to 0.7 0.1 to 0.2 resistant cream		am	spring		
	*Rytidosperma	caespitosum	common wallaby grass	yes	no	0.2 to 0.8	0.1 to 0.3	resistant	cream		spring
	Themeda	triandra	kangaroo grass	yes	no	0.4 to 1	0.5 to 1	resistant	bro	own	frequent

Native insectary plants (general)

It is reported that the longevity of parasitoid wasps which predominantly feed on nectar are significantly enhanced by Australian native plants including Christmas bush, *Bursaria spinosa*, crimson bottlebrush, *Callistemon* sp., Hakea, *Hakea* sp., prickly tea-tree, *Leptospermum continentale*, woolly tea-tree, *Leptospermum lanigerum*, austral trefoil, *Lotus australis*, creeping mint, *Mentha satureioides*, dryland tea tree, *Melaleuca lanceolata*, creeping boobialla, *Myoporum parvifolium*, sticky boobialla, *Myoporum petiolatum*, and wallaby grasses, *Rytidosperma* ssp.

In addition, a recent desktop review of plants native to South Australia identified a broader suite of locally-adapted native plants which are regarded as having the capacity to provide insectary benefits and may hold widespread appeal. They include wild rosemary, *Dampiera rosmarinifolia*, clasping goodenia, *Goodenia amplexans*, hop goodenia, *Goodenia ovata*, cut-leaf goodenia, *Goodenia pinnatifida*, boobialla, *Myoporum insulare*, long-leaved bush-pea, *Pultenaea daphnoides*, twiggy bush-pea, *Pultenaea largiflorens*, blue-rod, *Stemodia florulenta*, fairy fan-flower, *Scaevola aemula*, as well as species of *Acacia* ssp., *Eucalyptus* ssp., and *Lomandra* ssp. that may be suited to a particular site. Other plants previously identified for their insectary benefits in vineyards include straw wallaby grass, *Rytidosperma richardsonii*, windmill grass, *Chloris truncata*, and creeping saltbush, *Atriplex semibaccata*.







Useful links

Native plant nurse	ries			
Company	Contact	Address	Contact details	Website
Barossa Bushgardens	rdens Payne 635 Research Rd, T: (08) 8563 80		M: 0448 676 348 (Tues or Thurs) T: (08) 8563 8330 (Tues or Thurs) E: bushgardens@barossa.sa.gov.au	https://barossabushgardens. com.au/community-nursery
Edinburgh Parks Nursery	Alison Annells	66-68 West Ave, Edinburgh SA	T: 0438 895 160 E: aannells@lcslandscapes.com.au	https://www.facebook.com/ NativesPlants/
Future Generation Natives	Kate Constable	Mount Torrens, SA	M: 0418 844 240 E: kate@futurenatives.com.au	www.futurenatives.com.au
Kersbrook Landcare Nursery	Heidi Pitman	176 South Para Rd Williamstown, SA	M: 0431 989 397 E: klg@landcaregroup.org.au	www.kersbrook.landcare group.org.au
Riverland Native Plants	Tim and Nicole Field	143 Anderson Road, Loxton North, SA	M: 0499 362 581 E: riverlandnativeplants@gmail.com	https://riverlandnativeplants .com.au
State Flora Belair	Josh Laynes	In Belair National Park, SA	T: (08) 8278 7777 E: denrstatelfora@sa.gov.au	www.stateflora.sa.gov.au
State Flora Murray Bridge		Bremer Rd, Murray Bridge	T: (08) 8539 2105 E: dewnrstateflora@sa.gov.au	www.stateflora.sa.gov.au
Trees for Life Westwood Nursery	Jess Bamford	5-7 May Terrace, Brooklyn Park (Cnr Sir Donald Bradman Dr & May Tce), SA	T: (08) 8406 0500 E: info@treesforlife.org.au	https://treesforlife.org.au
Unique Natives at Medika	lan Roberts	16 Moore Street, Blyth, SA	M: 0458 128 932 T: (08) 8844 5175 E: medika@adam.com.au	https://www.facebook.com/Unique- Natives-at-Medika- 376695272511217/
Suppliers of native	seeds and/o	or native grass sowir	ng services	
Company	Contact	Address	Contact details	Website
Blackwood Seeds	Phil Druce	Inman Valley, SA	M: 0427 588 288 E: bwseeds@activ8.net.au	N/A
Native Seeds Pty Ltd	Darren Vincent	Great Alpine Rd Eurobin, Vic	T: 1300 473 337 E: enquiries@nativeseeds.com.au	www.nativeseeds.com.au
Seeding Natives Incorporated	Andrew Fairney	Mount Pleasant, SA	M: 0477 307 577 E: andrew@seedingnatives.org.au	www.seedingnatives.org.au

You can find a local native plant grower from this native plant nurseries list https://cdn.environment.sa.gov.au/landscape/docs/hf/190722-native-nursery-list.pdf

Continue your search for useful information here

- Australian National Botanic Gardens https://www.anbg.gov.au/search/index.html
- Backyards4Wildlife <a href="https://www.landscape.sa.gov.au/hf/our-priorities/nature/native-plants-and-animals/native-plants-nature-plants-native-plants-n
- Botanic Gardens of SA plant selector http://plantselector.botanicgardens.sa.gov.au
- Butterfly Conservation South Australia Inc. https://butterflyconservationsa.net.au/butterflies/attract/find-plants/
- Kersbrook Landcare Group 'Focus on Flora' book http://kersbrook.landcaregroup.org.au/articles/about_book.html and pictures of available plants https://my-site-105083-109812.square.site/shop/15
- Natural Resources Adelaide and Mount Lofty Ranges Native grasses: A regional guide https://cdn.environment.sa.gov.au/landscape/docs/hf/native-grasses-2017.pdf
- Seeds of South Australia https://spapps.environment.sa.gov.au/SeedsOfSA/scientificsearch.html
- State Flora catalogue https://www.stateflora.sa.gov.au/buy-plants/how-to-order/catalogue







Thank you to our project partners!























































Acknowledgement of country

The EcoVineyards project acknowledges Aboriginal people as the First Peoples and Nations of the lands and waters we live and work upon and we pay our respects to their Elders past, present and emerging. We acknowledge and respect the deep spiritual connection and the relationship that Aboriginal and Torres Strait Islander people have to Country.

The Kaurna and Ngadjuri people are the traditional custodians of the Clare Valley region and have an ongoing connection to the land.

Disclaimer

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