

## Barossa Wine Region

### NatureMaps 'quick start' guide

Information compiled by Dr Mary Retallack, May 2021

**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 Barossa Wine Region.

Step #	Instruction
Step 1	To get started open the following link <a href="https://data.environment.sa.gov.au/NatureMaps/Pages/default.aspx">https://data.environment.sa.gov.au/NatureMaps/Pages/default.aspx</a>
Step 2	Select the 'start' button  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  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  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 
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 <a href="https://www.landscape.sa.gov.au/hf/plants-and-animals/native-plants-animals-and-biodiversity/urban-biodiversity/b4w-native-species">https://www.landscape.sa.gov.au/hf/plants-and-animals/native-plants-animals-and-biodiversity/urban-biodiversity/b4w-native-species</a>

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

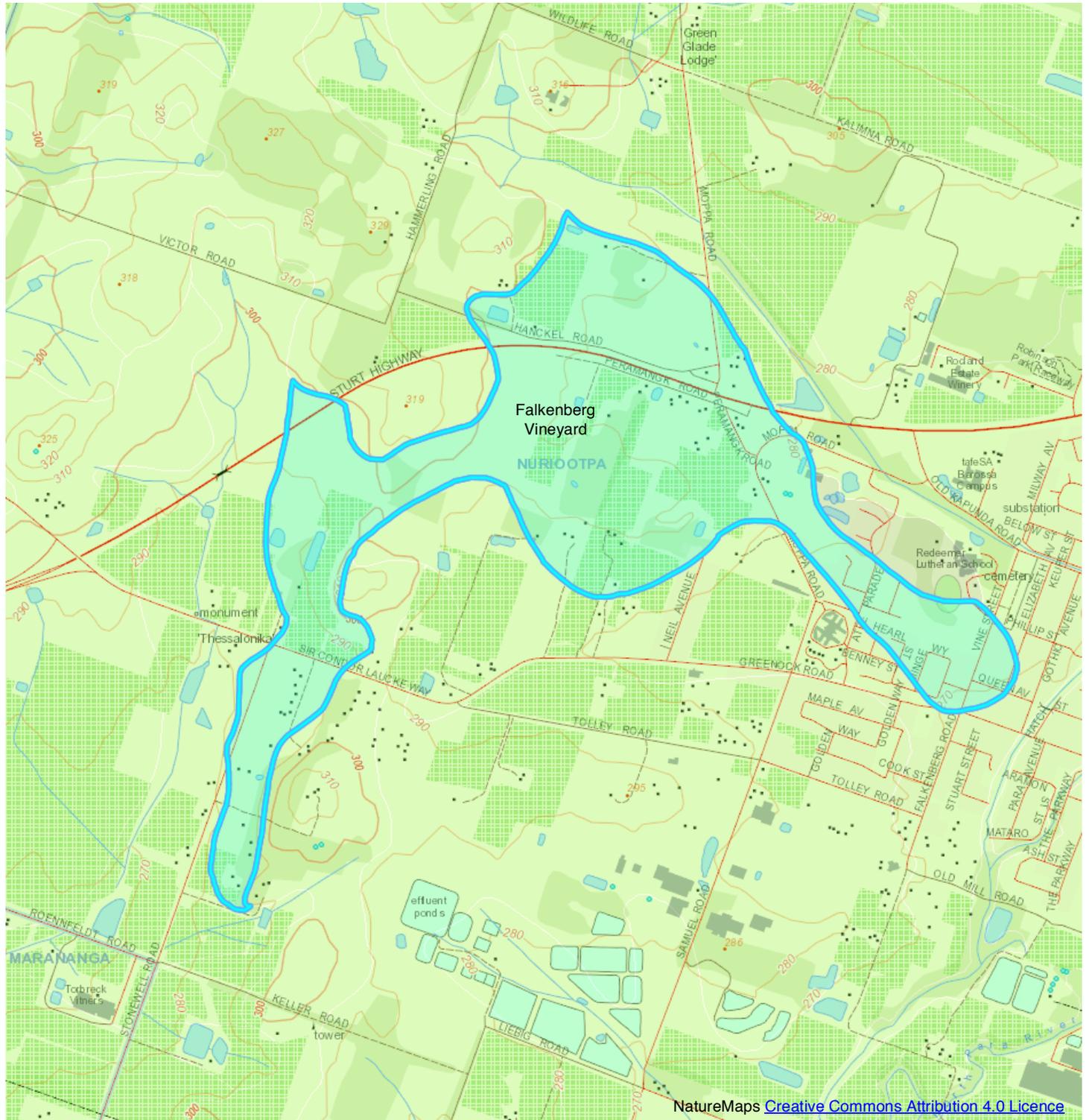
Please refer to the plant community lists below (which relate the location of the EcoVineyards demonstration sites) or enter your details into NatureMaps and follow the process above to access a plant list for your local area.

# Barossa Wine Region

## Peppermint box, *Eucalyptus odorata* +/- blue gum, *Eucalyptus leucoxylon* ssp. pruinosa woodland (H18) (ML1802PE) (MN0003PE) plant species list

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

**EcoVineyards site:** Falkenberg vineyard



## Peppermint box, *Eucalyptus odorata* +/- blue gum, *Eucalyptus leucoxylon* ssp. *pruinosa* woodland species list

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/hi/plants-and-animals/native-plants-animals-and-biodiversity/urban-biodiversity/b4w-native-species> <https://www.stateflora.sa.gov.au/> and <http://plantselector.botanicgardens.sa.gov.au>. This information should be used as a guide only.

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

<sup>1</sup>*Acacia* 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.

\*Growers are encouraged to explore the use of *Bursaria spinosa* and *Rytidosperma* ssp. as insectary plants in and around their vineyards (Retallack et al., 2019).

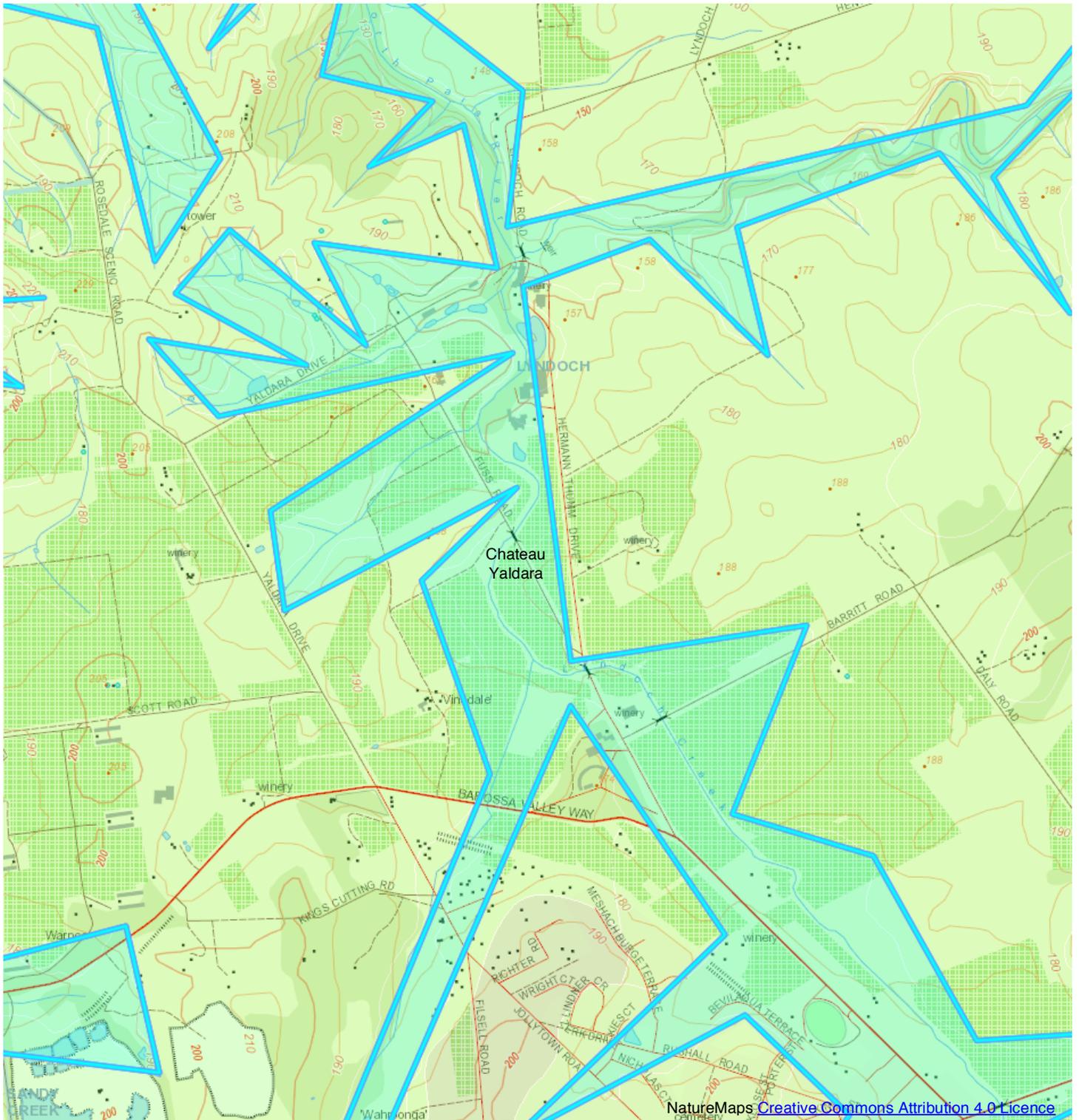
<sup>2</sup> **Buzz pollination:** Some native bees use a special pollination technique called 'buzz pollination' (sonication) i.e. the blue-banded bee, bangs its head on the flower's anthers 350 times a second to release the pollen. Plants from the Solanaceae (nightshade) family (tomatoes, capsicums 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.

# Barossa Wine Region

## Red gum, *Eucalyptus camaldulensis* var. *camaldulensis* woodland (H12) plant species list

**Description:** *Eucalyptus camaldulensis* var. *camaldulensis* woodland over an open understorey of sedges, rushes, grasses and herbs

**EcoVineyards site:** Chateau Yaldara

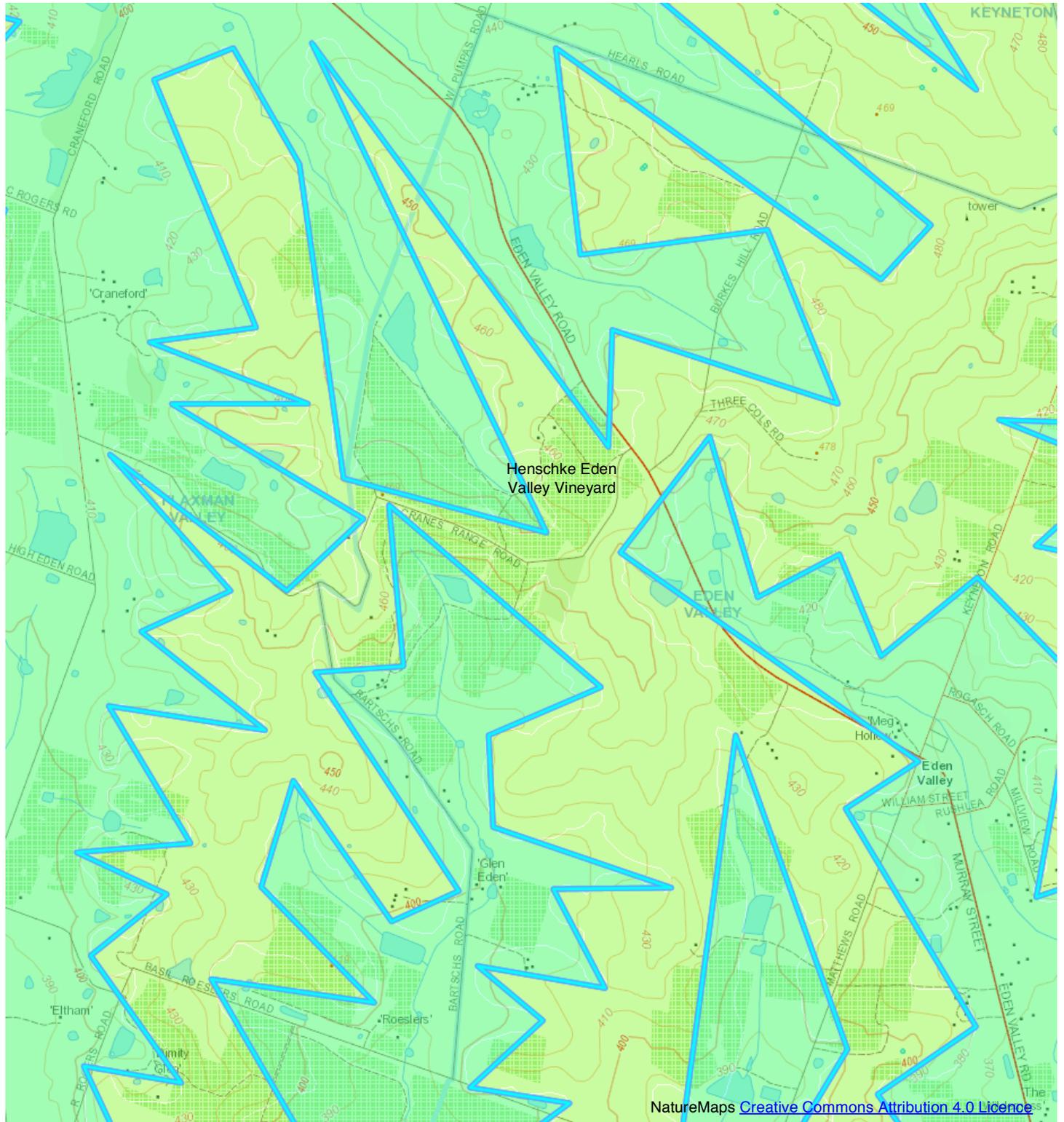


# Barossa Wine Region

## Red gum, *Eucalyptus camaldulensis* var. *camaldulensis* woodland (H12) plant species list

**Description:** *Eucalyptus camaldulensis* var. *camaldulensis* woodland over an open understorey of sedges, rushes, grasses and herbs

**EcoVineyards site:** Henschke Eden Valley Vineyard



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## Red gum, *Eucalyptus camaldulensis* var. *camaldulensis* woodland species list

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/plants-and-animals/native-plants-animals-and-biodiversity/urban-biodiversity/b4w-native-species> <https://www.stateflora.sa.gov.au/> and <http://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.

Habit	Genus	Species	Common name	Floral resources		Height (m)	Width (m)	Tolerance to frost	Flower colour		Flowering time
				Pollen	Nectar						
Tree	<i>Acacia</i>	<i>melanoxydon</i>	blackwood	yes	<sup>1</sup> yes	7 to 20	4 to 10	resistant	yellow		winter to spring
	<i>Acacia</i>	<i>pycnantha</i>	golden wattle	yes	<sup>1</sup> yes	4 to 6	2 to 6	moderately sensitive	yellow		winter to spring
	<i>Acacia</i>	<i>retinodes</i> var. <i>retinodes</i>	swamp wattle	yes	<sup>1</sup> yes	5 to 8	3 to 7	moderately sensitive	yellow		winter to spring
	<i>Callistemon</i>	<i>sieberi</i>	river bottlebrush	yes	yes	2 to 4	2 to 3	moderately sensitive	cream		spring
	<i>Eucalyptus</i>	<i>camaldulensis</i> ssp. <i>camaldulensis</i>	river red gum	yes	yes	20 to 30	10 to 15	resistant	white		summer
	<i>Eucalyptus</i>	<i>dalrympleana</i> ssp. <i>dalrympleana</i>	candlebark gum	yes	yes	15 to 35	11 to 15	resistant	white		spring to summer
	<i>Eucalyptus</i>	<i>leucoxydon</i> ssp. <i>leucoxydon</i>	SA blue gum	yes	yes	8 to 30	8 to 25	moderately sensitive	cream	pink	autumn to winter
	<i>Eucalyptus</i>	<i>viminialis</i> ssp. <i>cygnetensis</i>	rough-bark manna gum	yes	yes	6 to 20	8 to 20	moderately sensitive	white		spring to autumn
	<i>Exocarpos</i>	<i>cupressiformis</i>	native cherry	yes		3 to 6	2 to 3	resistant	cream		spring to autumn
Shrub	<i>Acacia</i>	<i>acinacea</i>	gold dust wattle	yes	<sup>1</sup> yes	1 to 2	1 to 2	resistant	yellow		winter to spring
	* <i>Bursaria</i>	<i>spinosa</i> ssp. <i>spinosa</i>	christmas bush	yes	yes	2 to 4	1 to 3	resistant	white		late spring to late summer
	<i>Cullen</i>	<i>australasicum</i>	tall scurf-pea	yes	yes	0.5 to 2.5	1 to 2	moderately sensitive	pink		spring
	<i>Enchylaena</i>	<i>tomentosa</i> var. <i>tomentosa</i>	ruby saltbush	yes		0.3 to 1	0.5 to 1.5	resistant	insignificant		spring to summer
	<i>Goodenia</i>	<i>amplexans</i>	clasping goodenia	yes	yes	0.5 to 1.2	0.5 to 1	moderately sensitive	yellow		spring to summer
	* <i>Leptospermum</i>	<i>continentale</i>	prickly tea-tree	yes	yes	0.5 to 2	1 to 2	resistant	white		spring to summer
	* <i>Leptospermum</i>	<i>lanigerum</i>	woolly tea-tree	yes	yes	2 to 5	1.5 to 4	resistant	cream		spring to summer
	<i>Pultenaea</i>	<i>largiflorens</i>	twiggy bush-pea	yes	yes	1 to 1.5	0.5 to 1.5	moderately sensitive	yellow	orange	winter to spring
	<i>Senecio</i>	<i>pinnatifolius</i>	variable groundsel	yes	yes	0.5 to 1.2		resistant	yellow		spring to summer
Strap leaved	<i>Xanthorrhoea</i>	<i>sempiiana</i> ssp. <i>sempiiana</i>	grass tree	yes	yes	1 to 3	1 to 2	moderately sensitive	cream		winter to spring

<sup>1</sup>*Acacia* 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.

\*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.

### More information?

If you would like to find out more information about individual plants. Visit the Botanic Gardens of SA 'Plant Selector' <http://plantselector.botanicgardens.sa.gov.au>. Enter your postcode and press search. View the results and export data to retain a copy. The Excel spreadsheet contains detailed notes about each plant and its suggested uses.

The Adelaide and Mount Lofty Ranges Natural Resources Management Board local plant catalogue provides a useful guide when selecting plants <http://plantselector.naturalresources.sa.gov.au>

## Red gum, *Eucalyptus camaldulensis* var. *camaldulensis* woodland species list - continued

Habit	Genus	Species	Common name	Floral resources		Height (m)	Width (m)	Tolerance to frost	Flower colour	Flowering time
				Pollen	Nectar					
Ground cover	<i>Austrostipa</i>	<i>elegantissima</i>	feather spear-grass	yes	no	1	1	resistant	cream	winter to spring
	<i>Austrostipa</i>	<i>scabra</i>	rough spear-grass	yes	no	0.3 to 0.6	0.5	resistant	cream	winter to spring
	<i>Chloris</i>	<i>truncata</i>	windmill grass	yes	no	0.3 to 0.5	0.2 to 0.5	resistant	cream	spring to summer
	<i>Goodenia</i>	<i>pinnatifida</i>	cut-leaf goodenia	yes	yes	0.4	0.1	moderately sensitive	yellow	spring to summer
	<i>Lobelia</i>	<i>anceps</i>	angled lobelia	yes		0.1 to 0.3	0.3 to 2	moderately sensitive	purple	spring to summer
	<i>Microlaena</i>	<i>stipoides</i> var. <i>stipoides</i>	weeping rice-grass	yes	no	0.1 to 0.7	0.2 to 1	moderately sensitive	cream	spring to summer
	<i>Rytidosperma</i>	<i>auriculatum</i>	lobed wallaby grass	yes	no	0.2 to 0.7	0.1 to 0.2	resistant	cream	spring
	* <i>Rytidosperma</i>	<i>caespitosum</i>	common wallaby grass	yes	no	0.2 to 0.8	0.1 to 0.3	resistant	cream	spring
	* <i>Rytidosperma</i>	<i>setaceum</i>	small-flowered wallaby grass	yes	no	0.2 to 0.6	0.1 to 0.3	resistant	cream	spring to summer
	<i>Themeda</i>	<i>triandra</i>	kangaroo grass	yes	no	0.4 to 1	0.5 to 1	resistant	brown	frequent
	<i>Wahlenbergia</i>	<i>stricta</i> ssp. <i>stricta</i>	tall bluebell	yes	yes	0.3 to 0.6	0.5 to 1	moderately sensitive	blue	frequent
Sedges and rushes	<i>Bolboschoenus</i>	<i>caldwellii</i>	salt club-rush	yes		0.3 to 1.2		resistant	brown	spring to summer
	<i>Carex</i>	<i>tereticaulis</i>	rush sedge	yes	yes	0.6 to 1.2	0.6 to 1	resistant	brown	spring to summer
	<i>Cyperus</i>	<i>gymnocaulos</i>	spiny flat-sedge	yes		0.2 to 0.7	0.5 to 1	resistant	brown	winter to summer
	<i>Cyperus</i>	<i>vaginatus</i>	stiff flat-sedge	yes		0.3 to 1.5	0.5 to 2	resistant	brown	spring to autumn
	<i>Juncus</i>	<i>kraussii</i>	sea rush	yes		0.5 to 1	0.5 to 1	resistant	brown	frequent
	<i>Juncus</i>	<i>pallidus</i>	pale rush	yes		0.5 to 2	0.5 to 2	resistant	brown	spring to summer
	<i>Juncus</i>	<i>pauciflorus</i>	loose-flower rush	yes		0.5 to 1	0.5 to 1	resistant	brown	summer
Bulbs and lilies	<i>Dianella</i>	<i>revoluta</i> var. <i>revoluta</i>	black-anther flax-lily	<sup>2</sup> buzz pollinated	no	0.3 to 1	0.5 to 2	resistant	blue	spring to summer
Climber (outside vineyard)	<i>Hardenbergia</i>	<i>violacea</i>	native lilac	yes	yes	climber	3 to 4	moderately sensitive	purple	winter to spring

<sup>2</sup> **Buzz pollination:** Some native bees use a special pollination technique called 'buzz pollination' (sonication) i.e. the blue-banded 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.

### 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.

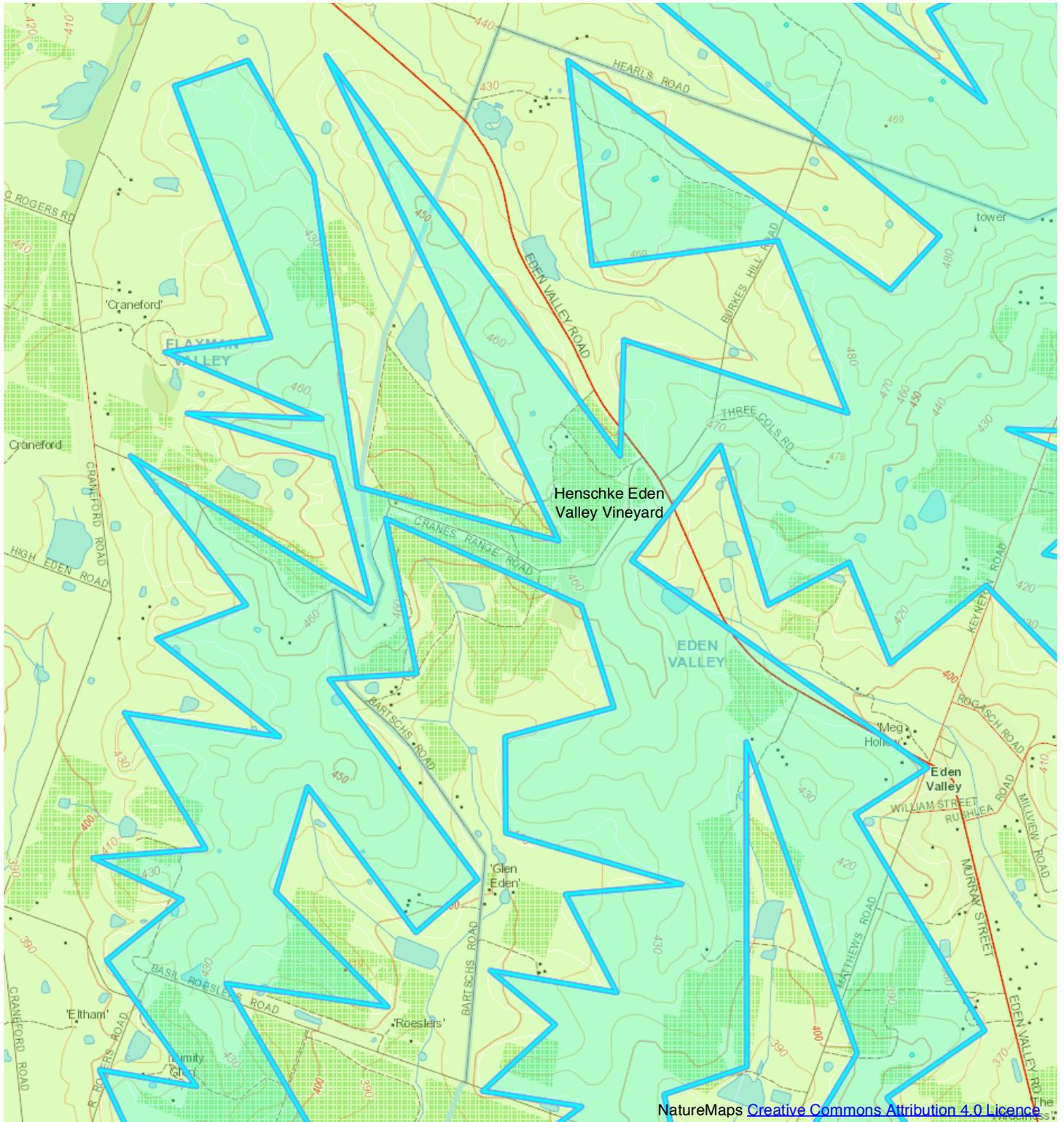
In addition, a recent desktop review of plants native to South Australia identified a broader suite of locally-adapted native plants which are regarded as having the capacity to provide insectary benefits and may hold widespread appeal. They include wild rosemary, *Dampiera rosmarinifolia*, clasping goodenia, *Goodenia amplexans*, hop goodenia, *Goodenia ovata*, cut-leaf goodenia, *Goodenia pinnatifida*, boobialla, *Myoporum insulare*, long-leaved bush-pea, *Pultenaea daphnoides*, twiggly 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*.

# Barossa Wine Region

## 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. *spatulata*, *Acacia paradoxa*, and *Gonocarpus elatus*).

**EcoVineyards site:** Henschke Eden Valley Vineyard (on ridges)



## SA blue gum, *Eucalyptus leucoxylon* ssp. *leucoxylon* woodland species list

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Habit	Genus	Species	Common name	Floral resources		Height (m)	Width (m)	Tolerance to frost	Flower colour		Flowering time
				Pollen	Nectar						
Tree	<i>Acacia</i>	<i>pycnantha</i>	golden wattle	yes	<sup>1</sup> yes	4 to 6	2 to 6	moderately sensitive	yellow		winter to spring
	<i>Allocasuarina</i>	<i>verticillata</i>	drooping sheoak	yes	no	5 to 8	4 to 6	resistant	red		autumn to winter
	<i>Banksia</i>	<i>marginata</i>	silver banksia	yes	yes	2 to 8	1 to 5	resistant	yellow		spring to autumn
	<i>Eucalyptus</i>	<i>camaldulensis</i> ssp. <i>camaldulensis</i>	river red gum	yes	yes	20 to 30	10 to 15	resistant	white		summer
	<i>Eucalyptus</i>	<i>leucoxylon</i> ssp. <i>leucoxylon</i>	SA blue gum	yes	yes	8 to 30	8 to 25	moderately sensitive	cream	pink	autumn to winter
	<i>Eucalyptus</i>	<i>microcarpa</i>	grey box	yes	yes	6 to 20	8 to 20	resistant	cream		summer to winter
	<i>Eucalyptus</i>	<i>viminialis</i> ssp. <i>cygnetensis</i>	rough barked manna gum	yes	yes	6 to 20	8 to 20	moderately sensitive	white		summer to autumn
	<i>Pittosporum</i>	<i>angustifolium</i>	native apricot	yes	yes	4 to 8	3 to 4	moderately sensitive	cream		spring
Shrub	<i>Acacia</i>	<i>acinacea</i>	wreath wattle	Yes	yes	1 to 2	1 to 2	resistant	yellow		winter to spring
	<i>Acacia</i>	<i>paradoxa</i>	prickly wattle	yes	yes	2 to 4	3 to 4	moderately sensitive	yellow		spring
	<i>*Bursaria</i>	<i>spinosa</i>	Christmas bush	yes	yes	2 to 4	1 to 3	resistant	white		late spring to late summer
	<i>Daviesia</i>	<i>leptophylla</i>	narrow-leaf bitter-pea	yes	yes	1 to 2.5	1 to 2	moderately sensitive	red	orange	spring
	<i>Dodonaea</i>	<i>viscosa</i> ssp. <i>spatulata</i>	sticky hop bush	yes	no	2 to 4	2 to 4	resistant	N/A		spring to autumn
	<i>Eutaxia</i>	<i>microphylla</i>	mallee bush-pea	yes	yes	0.5 to 2	2 to 2	moderately sensitive	brown	yellow	spring
	<i>Goodenia</i>	<i>amplexans</i>	clasping goodenia	yes	yes	0.5 to 1.2	0.5 to 1	moderately sensitive	yellow		spring to summer
	<i>Grevillea</i>	<i>lavandulacea</i> ssp. <i>lavandulacea</i>	heath grevillea	yes	yes	1 to 1.5	2 to 3	resistant	red		winter to spring
	<i>Hakea</i>	<i>carinata</i>	erect hakea	yes	yes	1.5 to 3	1 to 2.5	moderately sensitive	white		spring
	<i>Hakea</i>	<i>rugosa</i>	dwarf hakea	yes	yes	1 to 2	1 to 2	moderately sensitive	white		winter to spring
	<i>Hibbertia</i>	<i>riparia</i>	bristly guinea flower	<sup>2</sup> buzz pollinated	yes	0.1 to 0.5	0.3 to 0.8	moderately sensitive	yellow		spring
	<i>*Leptospermum</i>	<i>myrsinoides</i>	silky tea-tree	yes	yes	1 to 4	1 to 4	resistant	white		spring
	<i>Olearia</i>	<i>ramulosa</i>	twiggy daisy-bush	yes	yes	1 to 1.15	1 to 2	resistant	white	pink	spring to summer
	<i>Pultenaea</i>	<i>largiflorens</i>	twiggy bush-pea	yes	yes	1 to 1.5	0.5 to 1.5	moderately sensitive	white		winter to spring
<i>Thomasia</i>	<i>petalocalyx</i>	paper flower	<sup>2</sup> 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 (m)	Width (m)	Tolerance to frost	Flower colour		Flowering time
				Pollen	Nectar						
Strap leaved	<i>Lomandra</i>	<i>densiflora</i>	pointed mat-rush	yes	yes	0.2 to 0.6	0.2 to 0.6	resistant	green		winter to summer
	<i>Lomandra</i>	<i>micrantha</i>	small-flower mat-rush	yes	yes	0.2 to 0.8	0.2 to 0.9	resistant	white		autumn to spring
	<i>Lomandra</i>	<i>multiflora</i> ssp. <i>dura</i>	hard mat-rush	yes	yes	0.2 to 0.8	0.75	resistant	cream		winter to summer
	<i>Xanthorrhoea</i>	<i>quadrangulata</i>	Mount Lofty grass tree	yes	yes	1 to 2.5	0.5 to 1.5	resistant	cream		autumn to winter
	<i>Xanthorrhoea</i>	<i>sempiplan</i> a ssp. <i>sempiplan</i> a	grass tree	yes	yes	1 to 3	1 to 2	moderately sensitive	cream		winter to spring
Sedges and rushes	<i>Juncus</i>	<i>pauciflorus</i>	loose-flower rush	yes	no	0.5 to 1	0.5 to 1	resistant	brown		summer
Ground cover	<i>Austrostipa</i>	<i>elegantissima</i>	elegant spear grass	yes	no	1	1	resistant	green	brown	spring to summer
	<i>Austrostipa</i>	<i>nodosa</i>	tall spear grass	yes	no	0.5 to 1	0.5 to 1	resistant	green	brown	spring to summer
	<i>Chloris</i>	<i>truncata</i>	windmill grass	yes	no	0.3 to 0.5	0.2 to 0.5	resistant	cream		spring to summer
	<i>Goodenia</i>	<i>blackiana</i>	native primrose	yes	yes	0.1 to 0.2	0.2 to 0.5	moderately sensitive	yellow		winter to spring
	<i>Goodenia</i>	<i>pinatifida</i>	cut-leaf goodenia	yes	yes	0.4	0.1	moderately sensitive	yellow		spring to summer
	<i>Kennedia</i>	<i>prostrata</i>	scarlet runner or running postman	yes	yes	0.1	1.5 to 4	moderately sensitive	red		winter to spring
	<i>Microlaena</i>	<i>stipoides</i> var. <i>stipoides</i>	weeping rice-grass	yes	no	0.1 to 0.7	0.2 to 1	moderately sensitive	cream		spring to summer
	<i>Poa</i>	<i>labillardieri</i>	common tussock-grass	yes	no	0.5 to 1	0.3 to 0.7	resistant	green		spring to summer
	<i>Pultenaea</i>	<i>pedunculata</i>	matted bush-pea	yes	yes	0.1	1 to 3	moderately sensitive	yellow	orange	winter to spring
	<i>*Rytidosperma</i>	<i>auriculatum</i>	lobed wallaby grass	yes	no	0.2 to 0.7	0.1 to 0.2	resistant	cream		spring
	<i>*Rytidosperma</i>	<i>caespitosum</i>	common wallaby grass	yes	no	0.2 to 0.8	0.1 to 0.3	resistant	cream		spring
	<i>*Rytidosperma</i>	<i>setaceum</i>	small-flowered wallaby grass	yes	no	0.2 to 0.6	0.1 to 0.3	resistant	cream		spring to summer
	<i>Scaevola</i>	<i>albida</i>	pale fan flower	yes	yes	0.3 to 0.6	0.6 to 1	resistant	white		all year
	<i>Themeda</i>	<i>triandra</i>	kangaroo grass	yes	no	0.4 to 1	0.5 to 1	resistant	brown		frequent
Bulbs and lilies	<i>Dianella</i>	<i>longifolia</i>	pale flax-lily	<sup>2</sup> buzz pollinated	no	0.5 to 0.8	0.5 to 1	resistant	blue		spring to summer
	<i>Dianella</i>	<i>revoluta</i> var. <i>revoluta</i>	black-anther flax-lily	<sup>2</sup> buzz pollinated	no	0.3 to 1	0.5 to 2	resistant	blue		spring to summer
Climber (outside vineyard)	<i>Hardenbergia</i>	<i>violacea</i>	native lilac	yes	yes	climber	3 to 4	moderately sensitive	purple		winter to spring

<sup>1</sup>*Acacia* 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.

\*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.

<sup>2</sup> **Buzz pollination:** Some native bees use a special pollination technique called 'buzz pollination' (sonication) i.e. the blue-banded 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.

## 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*, twiggly 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*.

### More information?

If you would like to find out more information about individual plants. Visit the Botanic Gardens of SA 'Plant Selector' <http://plantselector.botanicgardens.sa.gov.au>. Enter your postcode and press search. View the results and export data to retain a copy. The Excel spreadsheet contains detailed notes about each plant and its suggested uses.

The Adelaide and Mount Lofty Ranges Natural Resources Management Board local plant catalogue provides a useful guide when selecting plants <http://plantselector.naturalresources.sa.gov.au>

## Useful links

Native plant nurseries				
Company	Contact	Address	Contact details	Website
Barossa Bushgardens	Pam Payne	635 Research Rd, Nuriootpa, SA	M: 0448 676 348 (Tues or Thurs) T: (08) 8563 8330 (Tues or Thurs) E: <a href="mailto:bushgardens@barossa.sa.gov.au">bushgardens@barossa.sa.gov.au</a>	<a href="https://barossabushgardens.com.au/community-nursery">https://barossabushgardens.com.au/community-nursery</a>
Future Generation Natives	Kate Constable	Mount Torrens, SA	M: 0418 844 240 E: <a href="mailto:kate@futurenatives.com.au">kate@futurenatives.com.au</a>	<a href="http://www.futurenatives.com.au">www.futurenatives.com.au</a>
Kersbrook Landcare Nursery	Heidi Pitman	176 South Para Rd Williamstown, SA	M: 0431 989 397 E: <a href="mailto:klg@landcaregroup.org.au">klg@landcaregroup.org.au</a>	<a href="http://www.kersbrook.landcaregroup.org.au">www.kersbrook.landcaregroup.org.au</a>
Riverland Native Plants	Tim and Nicole Field	143 Anderson Road, Loxton North,	M: 0499 362 581 E: <a href="mailto:riverlandnativeplants@gmail.com">riverlandnativeplants@gmail.com</a>	<a href="https://riverlandnativeplants.com.au">https://riverlandnativeplants.com.au</a>
State Flora Belair		In Belair National Park (free entry - instructions at main gate), SA	T: (08) 8278 7777 E: <a href="mailto:denrstatelfora@sa.gov.au">denrstatelfora@sa.gov.au</a>	<a href="http://www.stateflora.sa.gov.au">www.stateflora.sa.gov.au</a>
State Flora Murray Bridge		Bremer Rd, Murray Bridge, SA	T: (08) 8539 2105 E: <a href="mailto:dewnrstateflora@sa.gov.au">dewnrstateflora@sa.gov.au</a>	<a href="http://www.stateflora.sa.gov.au">www.stateflora.sa.gov.au</a>
Trees for Life Westwood Nursery	Brett Oakes	5-7 May Tce, Brooklyn Park (Cnr Sir Donald Bradman Dr & May Tce), SA	T: (08) 8406 0500 E: <a href="mailto:info@treesforlife.org.au">info@treesforlife.org.au</a>	<a href="https://treesforlife.org.au">https://treesforlife.org.au</a>
Suppliers of native seeds and/or native grass sowing services				
Company	Contact	Address	Contact details	Website
Blackwood Seeds	Phil Druce	Inman Valley, SA	M: 0427 588 288 E: <a href="mailto:bwseeds@activ8.net.au">bwseeds@activ8.net.au</a>	N/A
Native Seeds Pty Ltd	Darren Vincent	Great Alpine Rd Eurobin, Vic	T: 1300 473 337 E: <a href="mailto:enquiries@nativesseeds.com.au">enquiries@nativesseeds.com.au</a>	<a href="http://www.nativesseeds.com.au">www.nativesseeds.com.au</a>
Seeding Natives Incorporated	Andrew Fairney	Mount Pleasant, SA	M: 0477 307 577 E: <a href="mailto:andrew@seedingnatives.org.au">andrew@seedingnatives.org.au</a>	<a href="http://www.seedingnatives.org.au">www.seedingnatives.org.au</a>

You can find a local native plant grower from this [native plant nurseries list](#).

## Continue your search for useful information here

- Australian National Botanic Gardens <https://www.anbg.gov.au/search/index.html>
- Backyards4Wildlife <https://www.landscape.sa.gov.au/hf/plants-and-animals/native-plants-animals-and-biodiversity/urban-biodiversity/b4w-native-species>
- 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](http://kersbrook.landcaregroup.org.au/articles/about_book.html)
- Natural Resources Adelaide and Mount Lofty Ranges Native grasses: A regional guide [https://www.naturalresources.sa.gov.au/files/sharedassets/adelaide\\_and\\_mt\\_lofty\\_ranges/land/native-grasses-2017.pdf](https://www.naturalresources.sa.gov.au/files/sharedassets/adelaide_and_mt_lofty_ranges/land/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 Peramangk, Ngadjuri and Kaurna people are the traditional custodians of the Barossa region and have an ongoing connection to the land.

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For more info about the EcoVineyards project see <https://www.wgcsa.com.au/ecovineyards.html>