

A family of five (a man, a woman, and three children) is walking along a path through a vineyard. The path is covered in dry grass and is flanked by rows of green grapevines. In the background, more vineyard rows and some trees are visible under a bright sky. A large, semi-transparent white circle is overlaid on the center of the image, containing the word 'fowles' and three bird silhouettes.

fowles

Biodiversity



Fowles Wine Biodiversity



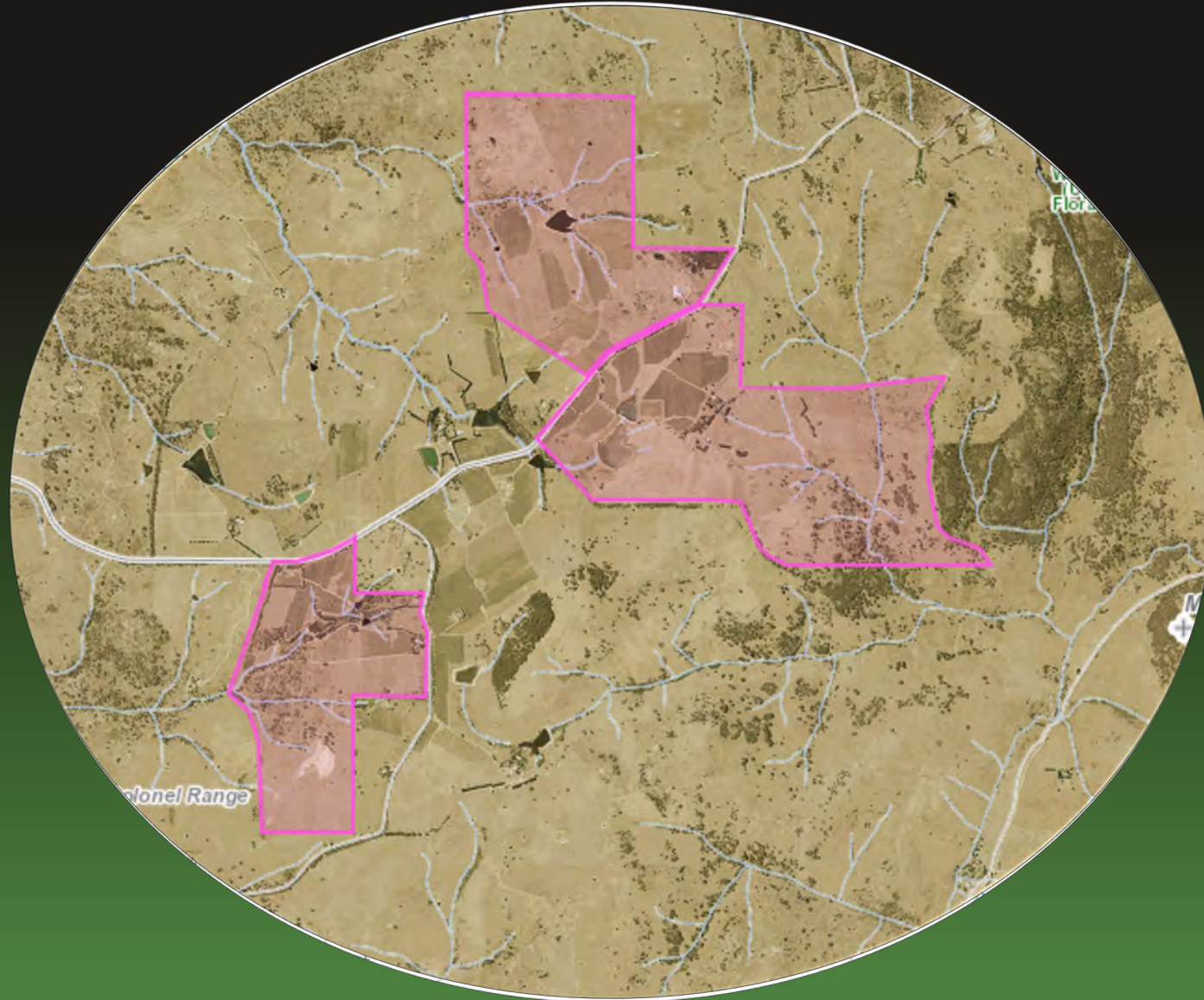
Strathbogie Ranges, Upton, Victoria

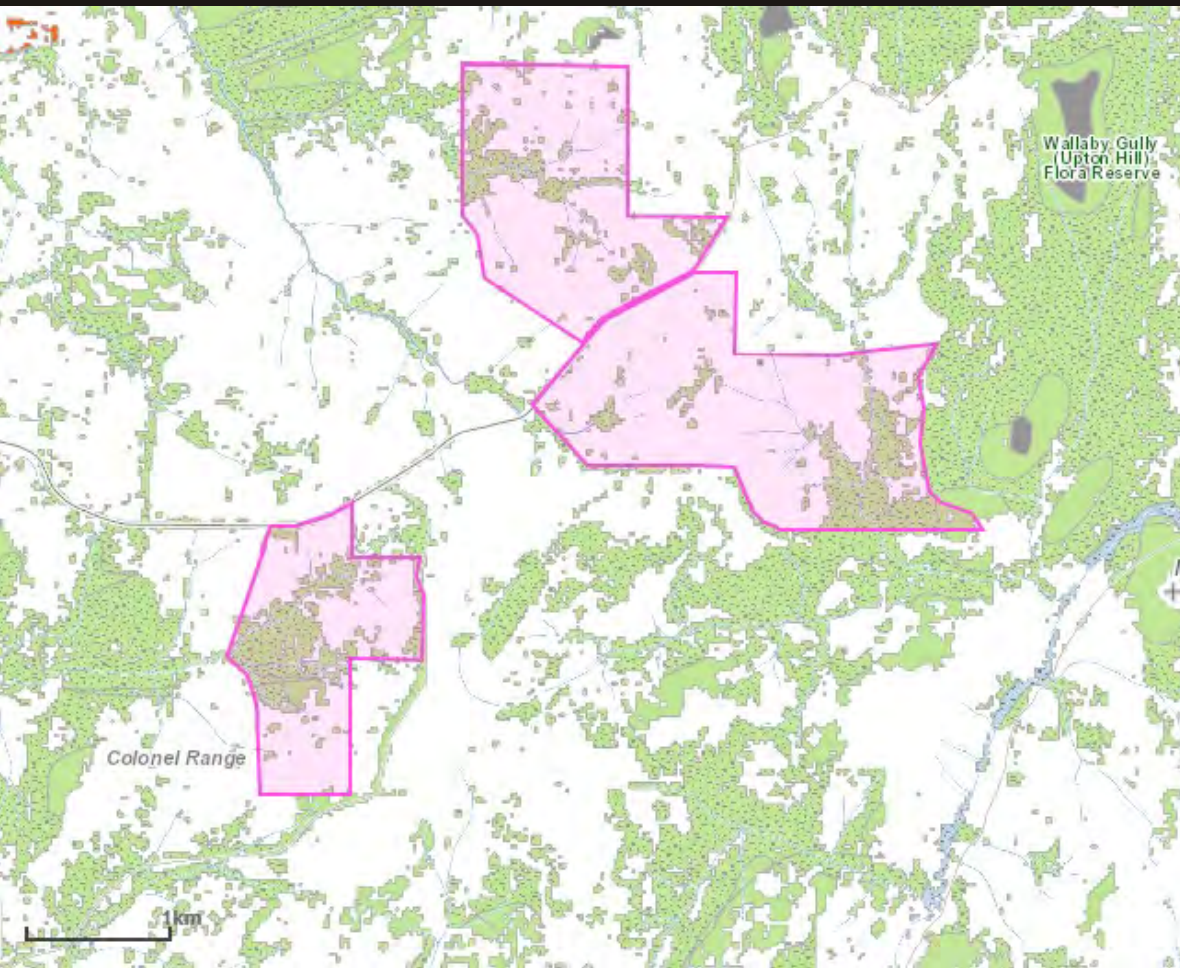


Fowles Wine Biodiversity



Strathbogie Ranges, Upton, Victoria





Fowles Wine Biodiversity

📍 *Strathbogie Ranges, Upton, Victoria*

EVC Number: 47 Valley Grassy Forest (V)

EVC Number: 23 Herb-rich Foothill Forest

EVC Number : 22 Grassy Dry Forest



Highlands - Northern Fall Bioregion and Central Victorian Uplands Bioregion

Goulburn Broken CMA

Fowles Wine Biodiversity

📍 *Strathbogie Ranges, Upton, Victoria*



Existing habitat

Creeks, wetlands, rocky outcrops and drainage depressions

Mixed Ag: Remnant vegetation, stock and vineyards



Strathbogrie Ranges

STRATHBOGRIE RANGES - NATURE VIEW

Ecology, landscape and natural history in and around the Strathbogrie Ranges, Australia.

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Fauna

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Birds

- Birds of the Strathbogrie Tableland

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BOOK CHAPTER

Wildlife conservation beyond the parks: the Strathbogrie Ranges, Victoria

By Jenny Martin ; Angus Martin

DOI: <https://doi.org/10.7882/PS.2004.028>

Published: 2004

Publication history

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In the light of the multiple functions that national parks are expected to fulfil, their capacity to serve as secure guardians of biodiversity is compromised. We note that non-reserved land may be able to significantly supplement and enhance the role of national parks in the Strathbogrie Ranges.



Accept

Strathbogrie Forest nocturnal survey results summary 2016-20

Species	# detections	% sites	detections/km
Greater Glider*	240	94.5	7.55
Common Ringtail Possum	55	41.7	1.64
Koala	33	35	1
Mountain Brushtail Possum	29	32	0.88
Feathertail Glider**	16	57.14	2.79
Sugar Glider	12	15	0.36
Common Brushtail Possum	2	3.33	0.06
Southern Boobook Owl	17	25	0.51
Powerful Owl	5	8.33	0.15
Owlet Nightjar	3	5	0.09
Tawny Frogmouth	3	5	0.09

Total number of survey transects 60

Total length of survey transects (km) 33.11

* Includes 56 sites (excludes Grassy Dry Forest) that surveyed 32.48 km

** Only includes transects conducted with IR detection - 14 sites and 5.73 km

[PDF] tandfonline.com
Full_text_available@UNE

[PDF] springer.com
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[PDF] sagepub.com
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Comparison of bobuck (*Trichosurus cunninghami*) demography in types in the **Strathbogrie Ranges**, Australia
J.K. Martin, K.A. Hendry - *Journal of Zoology*, 2007 - Wiley Online Library
The demographic characteristics of populations are determined by the life-history of their constituent individuals. Habitat characteristics, such as the availability of key

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[PDF] The floristic values of wetlands in the Highlands and **Strathbogrie Ranges**, Australia
F. Coates, A. Taberner, S. Cullen - *Arthur Rylah Institute for*, 2010 - researchgate.net

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The tabular **Strathbogrie** batholith in central Victoria
G.N. Phillips, A.M. Kilian - *Australian Journal of Earth*, 2022 - Taylor & Francis
The **Strathbogrie** Ranges is a loosely defined term used to describe the uplands of the **Strathbogrie** Igneous Complex. Although the granite is continuous, the uplands include four plateaux.

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Inferring a deep-crustal source terrane from a high-level granitic pluton: the **Strathbogrie** Batholith, Australia
J.D. Clemens, G.N. Phillips - *Contributions to Mineralogy and Petrology*, 2014 - Springer

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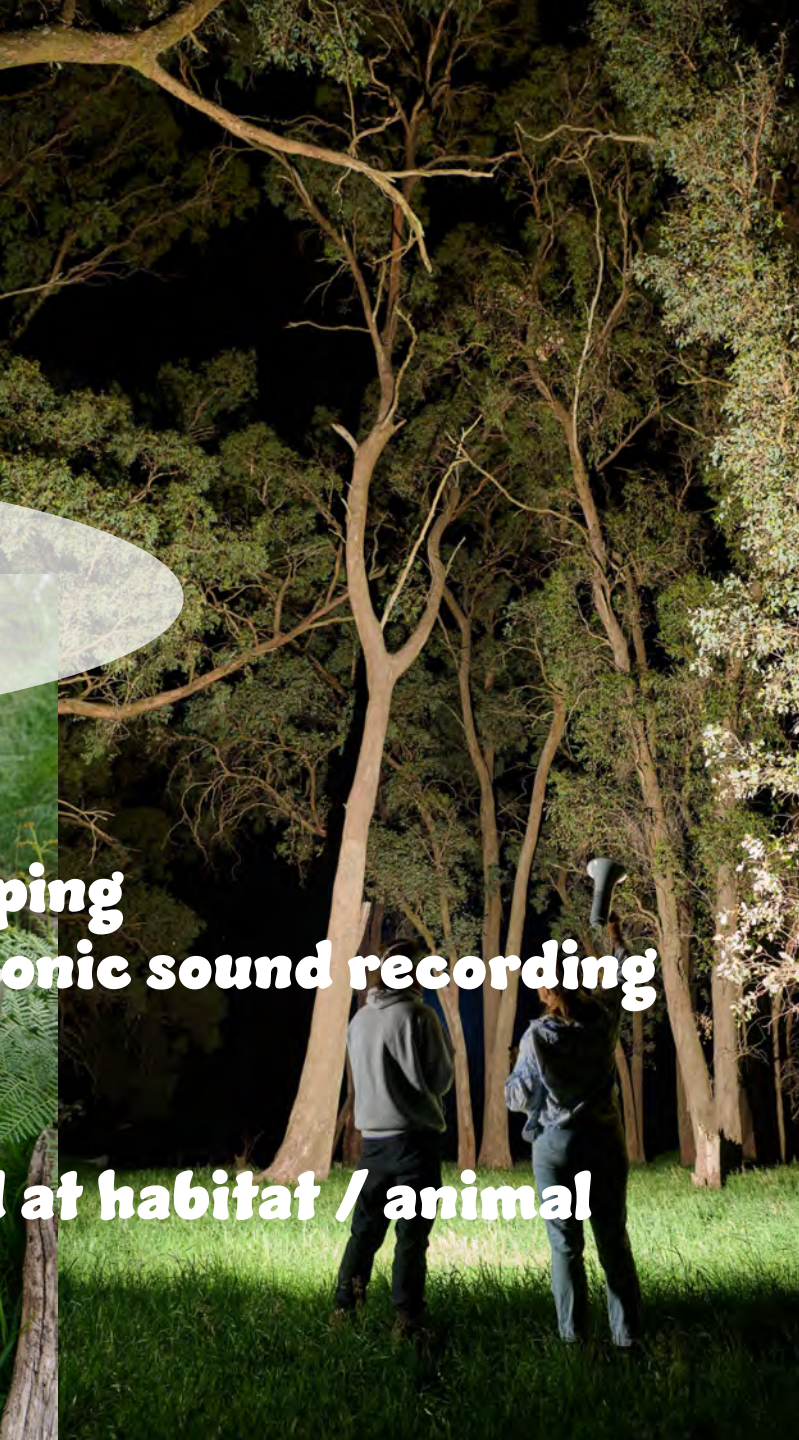
Strathbogrie batholith: field-based subdivision of a large granitic intrusion in central Victoria, Australia
G.N. Phillips, J.D. Clemens - *Applied Earth Science*, 2013 - journals.sagepub.com
The Late Devonian **Strathbogrie** batholith is a 1500 km², semi-circular mass of undeformed, peraluminous monzogranite and syenogranite in SE Australia. The rocks are S-type and ...



Methods



Camera trapping
Small mammal trapping
Acoustic and ultrasonic sound recording
Spotlighting
Call playback
Observations aimed at habitat / animal highway areas



Results Summary

- 8 Classes of fauna previously and/or currently recorded in the region including 352 species
- 172 species of fauna positively recorded at Fowles
- A further 16 species likely to be present based on suitable habitat
- Two species listed as Critically endangered, one endangered and four vulnerable species listed under the FFG Act were recorded
- One species (Brown Treecreeper) listed as vulnerable under the EPBC Act was recorded
- One species listed as Marine (Australian Pipit) was recorded

Results Summary



Common Name	Scientific name	FFG Act	EPBC Act
Barking Owl	<i>Ninox connivens</i>	CR	
Common Bearded Dragon	<i>Pogona barbata</i>	VU	
Common Bent-wing Bat (eastern subspecies)	<i>Miniopterus orianae oceanensis</i>	CR	
Hardhead	<i>Aythya australis</i>	VU	
Little Eagle	<i>Hieraaetus morphnoides</i>	VU	
Speckled Warbler	<i>Chthonicola sagittatus</i>	EN	
Square-tailed Kite	<i>Lophoictinia isura</i>	VU	
Brown treecreeper	<i>Climacteris picumnus victoriae</i>		V

Diamma bicolor, Blue Ant

Mammals

28 positive



Mammals



Insectivorous Bats

12 positive records

Common Name	Scientific Name
Eastern-Bentwing Bat	<i>Miniopterus schreibersii oceanensis</i>
Eastern Freetail-Bat	<i>Ozimops ridei</i>
South-Eastern Free-Tailed Bat	<i>Ozimops planiceps</i>
White-striped Freetail Bat	<i>Austronomus australis</i>
Chocolate Wattled Bat	<i>Chalinolobus morio</i>
Gould's Long-eared Bat	<i>Nyctophilus gouldii</i>
Gould's wattled Bat	<i>Chalinolobus gouldi</i>
Inland Broad-nosed Bat	<i>Scotorepens balstoni</i>
Large Forest Bat	<i>Vespadelus darlingtoni</i>
Lesser Long-eared Bat	<i>Nyctophilus geoffroyi</i>
Little Forest Bat	<i>Vespadelus vulturinus</i>
Southern Forest Bat	<i>Vespadelus regulus</i>





Birds

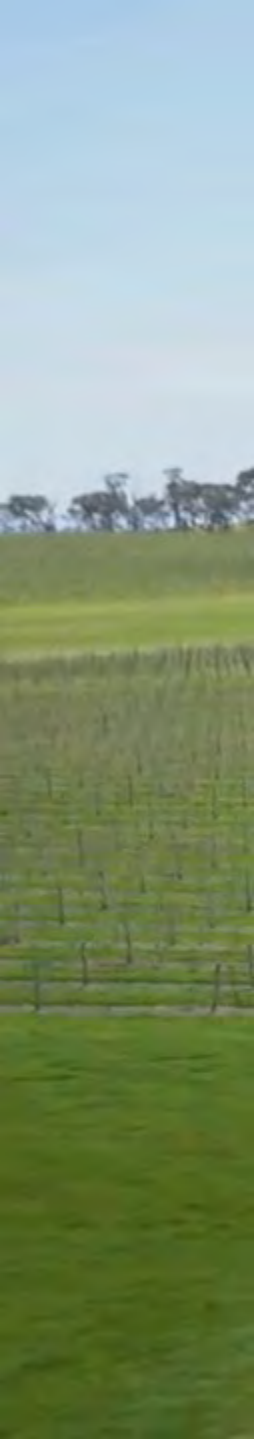
*131 positive records, 12 likely
but not recorded*



Reptiles and frogs

8 and 5 positive records





Threatened Species

Habitat values in the Vineyard

- Old hollow bearing trees
- Vegetated waterways
- Dams with fringing vegetation and gentle sloped mud-flats
- Granite rocky outcrops
- Vegetated stands
- High potential for road reserves with large remnant hollow-bearing trees

Why is natural pest control Important



Increased Global Demand

For more sustainable farm practises and reduced pesticide use

Farm Resilience



Reduces reliance on a single control method. Creates farm resilience

Different Pests = Different Management



Encourages Biodiversity

Biodiversity is important for ecosystem services (pollination, soil retention, natural pest control)

Different pests cause different problems that require a suite of control methods to manage them.



Reduced Pesticide Use

Pesticides are toxic and can harm non-target organisms

Pests: a global situation

10-26%

Of vineyard crop damage is by herbivorous arthropods (mainly lepidopteran larvae)



20–40%

OF CROP YIELD

Is lost to animal pests and diseases



10 to 25%

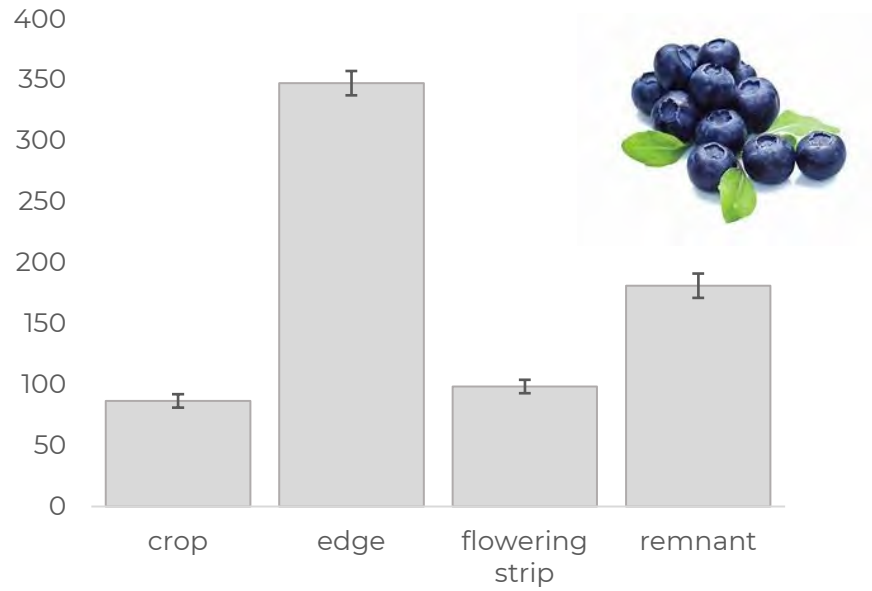
FURTHER CROP LOSS

With climate change

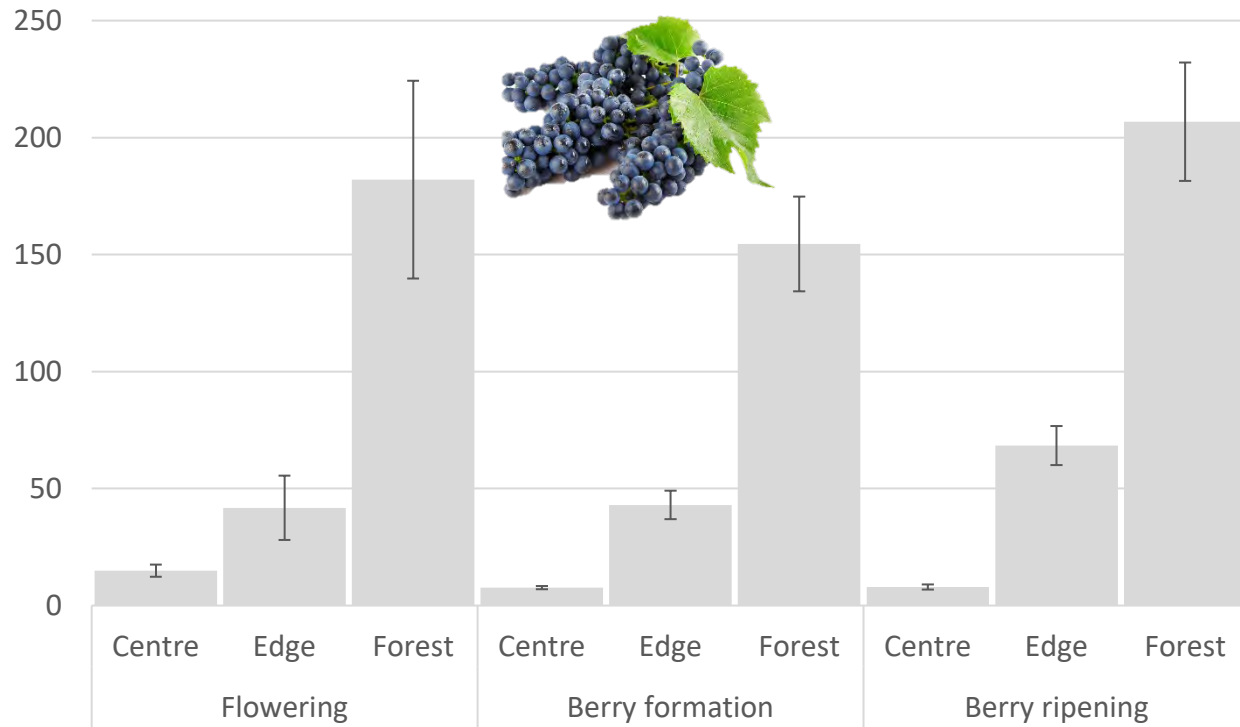


Bat pest control

Average insectivorous bat calls and standard error ($\pm$ SE) recorded each night remnant).



Microbat passes detected by the Song Meter bat detectors



fowles wine

STRATHBOGIE RANGES



Thankyou and Questions?