

Closing the Gap – Functional Habitat for Threatened New England Fauna

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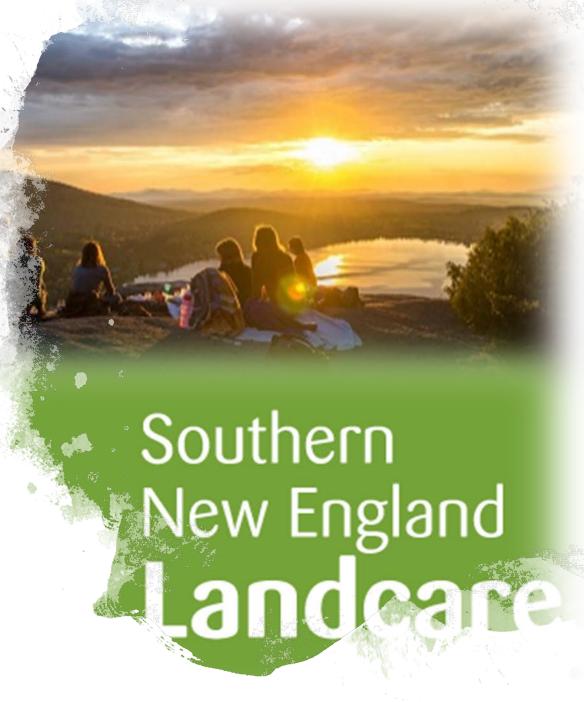
Executive Officer

Southern New England Landcare Ltd

www.snelandcare.org.au

Southern New England Landcare Ltd

- Our mission is to lead, connect and enable our communities to meet their sustainability goals
- Not-for-profit community network of 30 groups
- 30-year history of positive impact
- 1,000,000 ha across Armidale Regional, Uralla, Walcha and part of Tamworth Regional Councils
- 760 members and friends rural and urban
- Policy to take a neutral stance on renewable developments

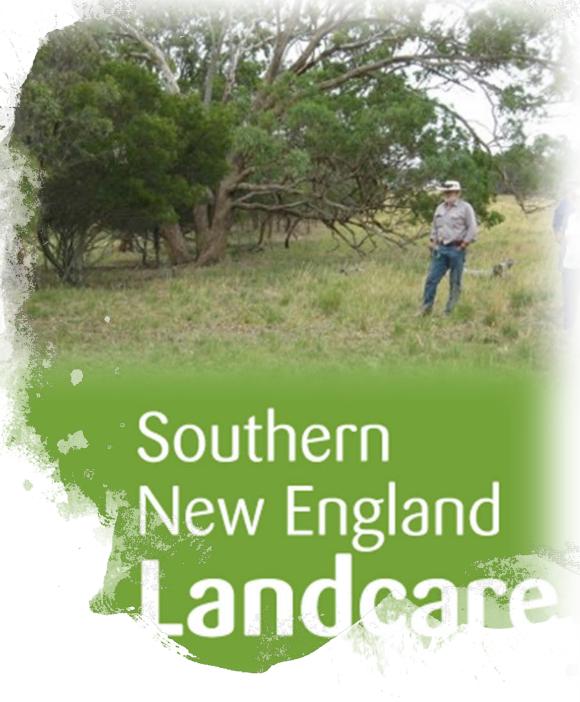


2016 – 2019 Closing the Gap: functional habitat for threatened New England fauna

\$99,998 from NSW Environmental Trust to build on previous projects and help close a key east-west gap in habitat connectivity

- 12 landholders protected and restored 88 ha
 with 14,000 native seedlings and 6.5 km fencing
- 3 field events (99 participants) to demonstrate effective on-farm habitat management
- 3 bird surveys by professional ornithologist to indicate and monitor ecological health

This project is across the development area.



Survey work

- 2006 Land, Water & Wool project a partnership with University of New England said we were doing the right thing
- Closing the Gap Bird Surveys gave impressive results – we are still doing the right thing – birds are using planted habitat
- Handouts

CLOSING THE Gap

Functional Habitat

FOR THREATENED NEW ENGLAND Fauna,

role on wool of natural pest obats eat a wide range of es, predominantly moths, and bugs, with some species hoppers and crickets. Individual robats can consume up to half their ody weight in insects in a night. Without their services, insect

Microbats differ in size and shape and where and how they prefer to hunt, so

populations could explode!

freetail bats have long, narrow wings and fly fast and high above trees. fly below the canopy and pick insects off leaves and branches. The more species and numbers of bats, the better the pest control service they perform.

How many different kinds of bats are there?

Australia-wide, there are more than 70 species of bat, with quite a few yet to be formally described by scientists. The Land, Water & Wool (LWW) Northern

Table 1. The bats recorded by the LWW Northern Tablelands Project on 18 Monitor and

Common Name	Latin Name	Diet*	Abund ance**
Microbats			
Broad-nosed bat or eastern falsistrelle	Scoteanax or Scotorepens or Falsistrellus sp.	Beetles, slow-flying insects	0.42
Chocolate wattled bat	Chalinolobus morio	Predominantly moths with some beetles	0.58
Common bentwing bat	Miniopterus schreibersii	Predominantly moths	0.27
Eastern cave or little forest bat	Vespadelus pumilus or V. vulturnus	Small flying insects (e.g. moths, beetles, bugs, mosquitoes)	3.94
Eastern freetail bat	Mormopterus sp. 2	Bugs and flying ants	0.01
Freetail bat	Mormopterus sp. 4	Probably bugs	***
Gould's wattled bat	Chalinolobus gouldii	Moths, beetles, bugs, flies and locusts	6.79
Large forest bat	Vespadelus darlingtoni	Small flying insects (e.g. moths, beetles,	1.55



Above-Gould's wattled bat, the most widespread and abundant microbat on New England wool properties.





Southern New England as a Hot Spot

- NSW Government recognizes Northern
 Tablelands as a biodiversity hotspot
 and a renewable energy hotspot
- Southern New England Landcare and UPC have fostered a relationship to discuss possible impacts and co-create mitigations
- We want dialogue to continue and produce real results, because...
- Currently 7 SSDs in our region cumulative impacts



2019 – 2022 Reconnecting Thunderbolt Country

- \$99,996 from NSW Environmental Trust for Reconnecting Thunderbolt Country for threatened New England Woodland and Wetland Biodiversity
- A similar project commencing in the midst of the Walcha Energy Solar Project proposal
- Can offsets via the Biodiversity Conservation
 Trust (BCT) be directed to project areas?



Recommendations

Require all SSDs in our region to:

Consider cumulative impacts of multiple projects.

- 2. Seek to become ecologically literate and honour past work by community
- 3. Foster an ongoing relationship with Landcare
- Co-create design solutions with Landcare community and build them into the project plan
- 5. Increase east-west habitat connectivity across/through the 'barrier' created by the project

And, inform/influence decision makers to direct BCT 'offsets' to the project area.

