

# The impacts of the Black Summer fires on endemic rainforest land snails



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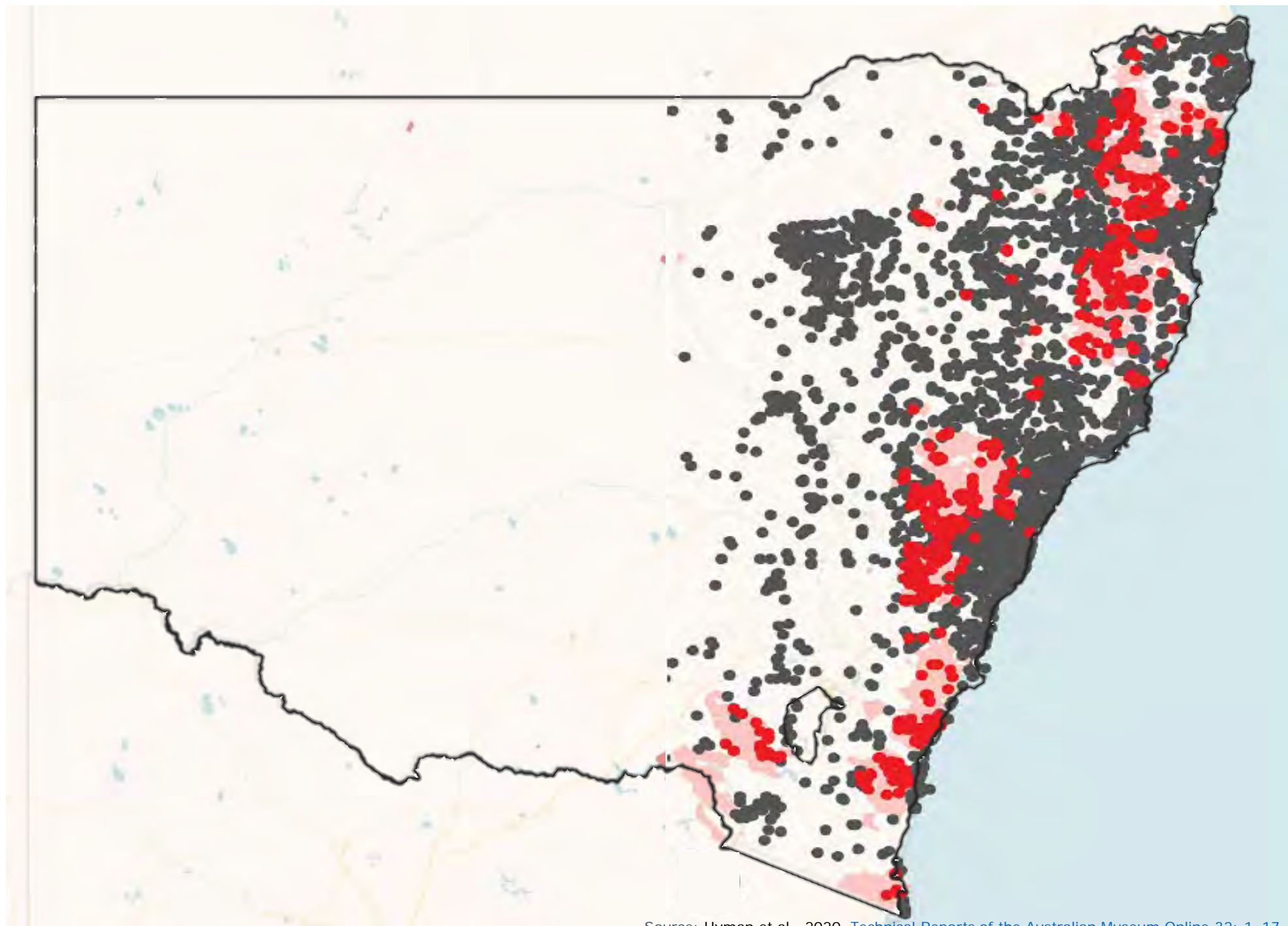


# Land snails in NSW

Diverse evolutionary history and ecology



# Bushfire impacts



Source: Hyman et al. 2020. [Technical Reports of the Australian Museum Online 32: 1–17.](#)



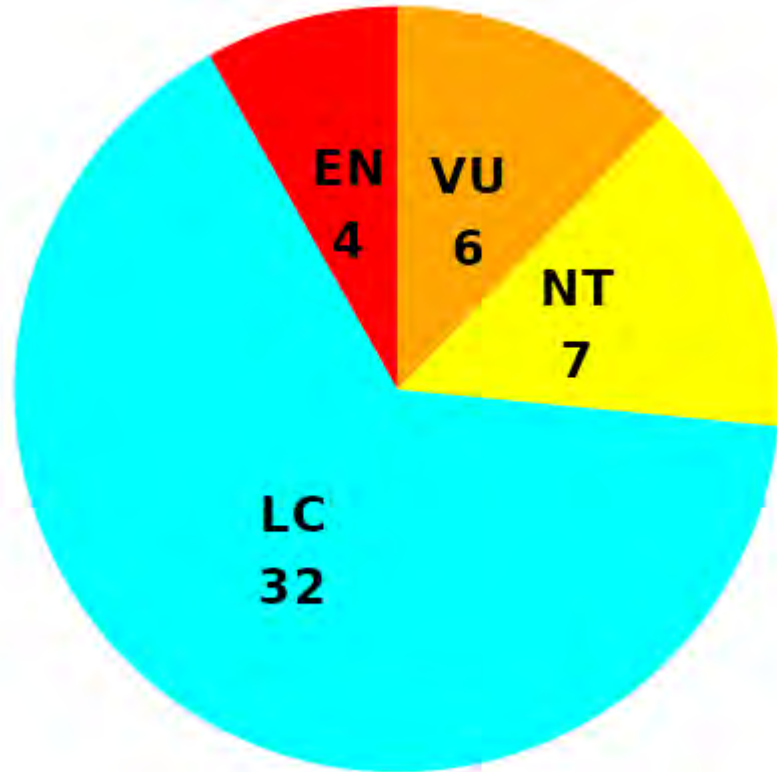
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# Questions

- ☐ Did any species become threatened by fires?
- ☐ What traits are associated with their vulnerability to fires?

# Results

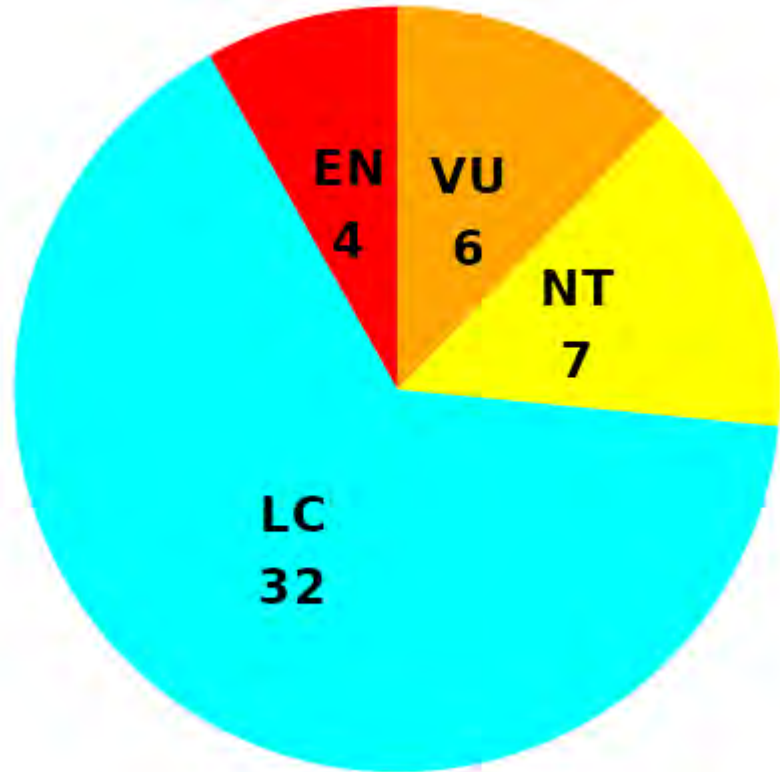
## Conservation status of species





# Results

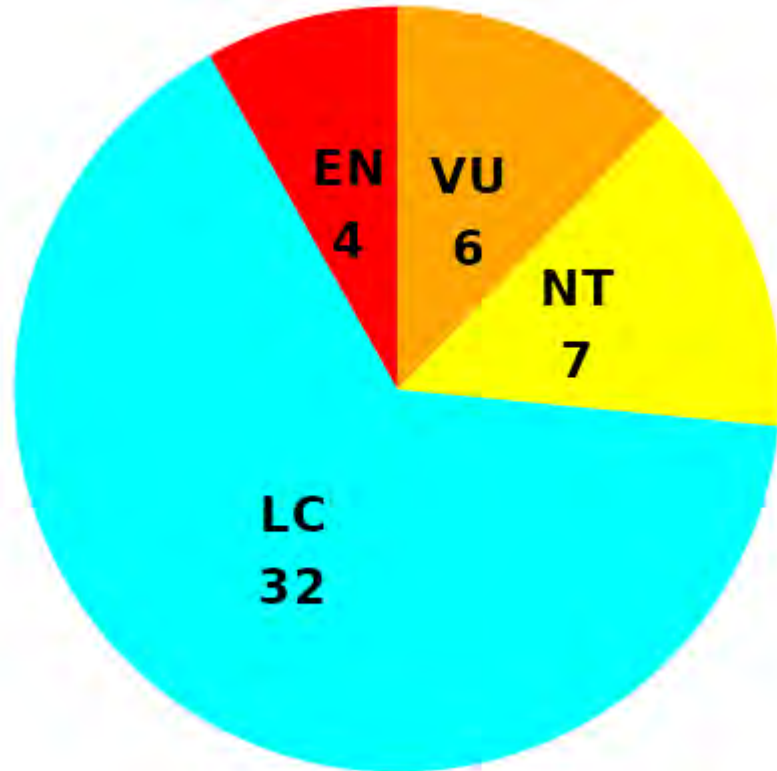
## Conservation status of species



*Letomola lanalittleae*

# Results

## Conservation status of species



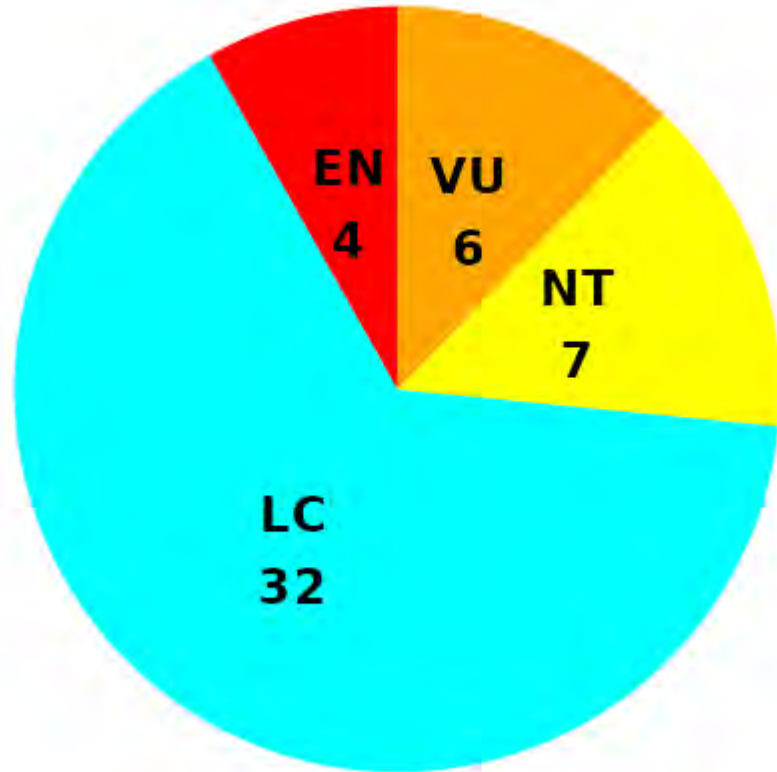
*Letomola lanalittleae*



*Austrochloritis kippara*

# Results

## Conservation status of species



*Letomola lanalittleae*



*Austrochloritis kippara*



*Rhophodon mcgradyorum*



*Sigaloeista gracilis*



# Next steps

## Threatened species

- Search for additional populations
- Assess tolerance to environmental changes

# Key publications

Fire severity is an important driver of land snail declines after the black summer bushfires in Australia

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**Assessing the immediate impacts of the 2019/2020 bushfires on land snails in north-eastern New South Wales**

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## Research & field work team members

- Orsi Decker, Nick Murphy & Pete Green (La Trobe University)
- Shawn Laffan & Finlay McIntosh (UNSW)
- Adnan Moussalli & Andrew Hugall (Museums Victoria)

## Sample curation

- Mandy Reid & Alison Miller, Australian Museum

## Access to survey sites

- NSW National Parks and Wildlife Service
- Forestry Corporation of NSW
- Land owners

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