Microhabitat use of a common swamp frog in the Lachlan catchment of NSW

Spotted marsh frog

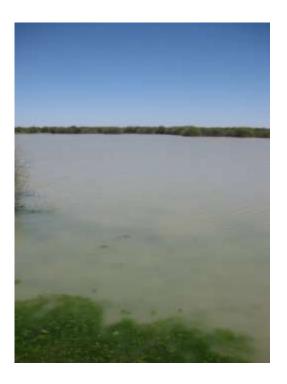
Carmen Amos Charles Sturt University- Albury Wodonga Supervisors: Dr Skye Wassens and Professor Gary Luck

The Lachlan Catchment





In semi-arid environments habitat can rapidly change



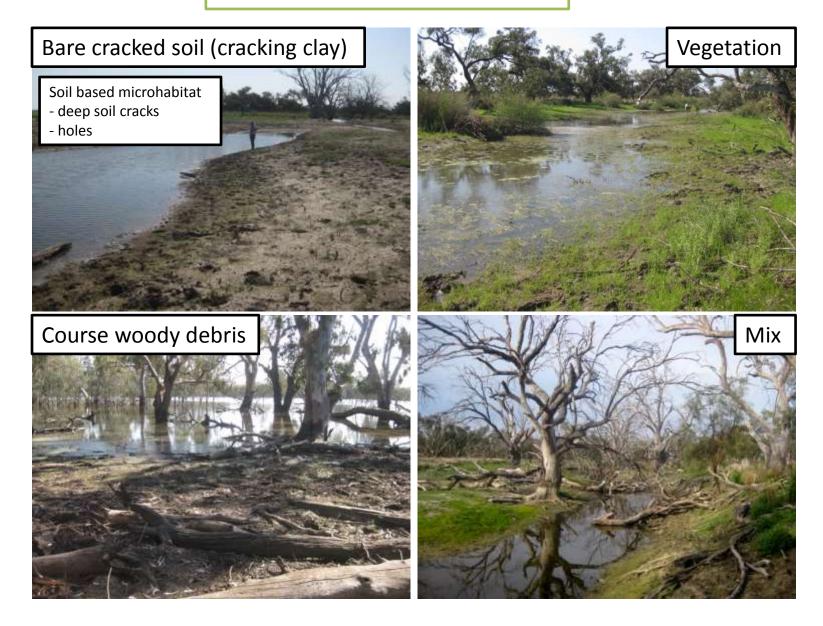








Microhabitats/wetland Sites



Methods – Night one



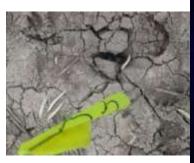
researcher

Catch frog, weigh, measure and apply powder

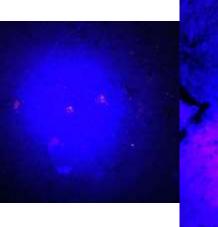
Release at capture point

mark

Methods – Night two & day three



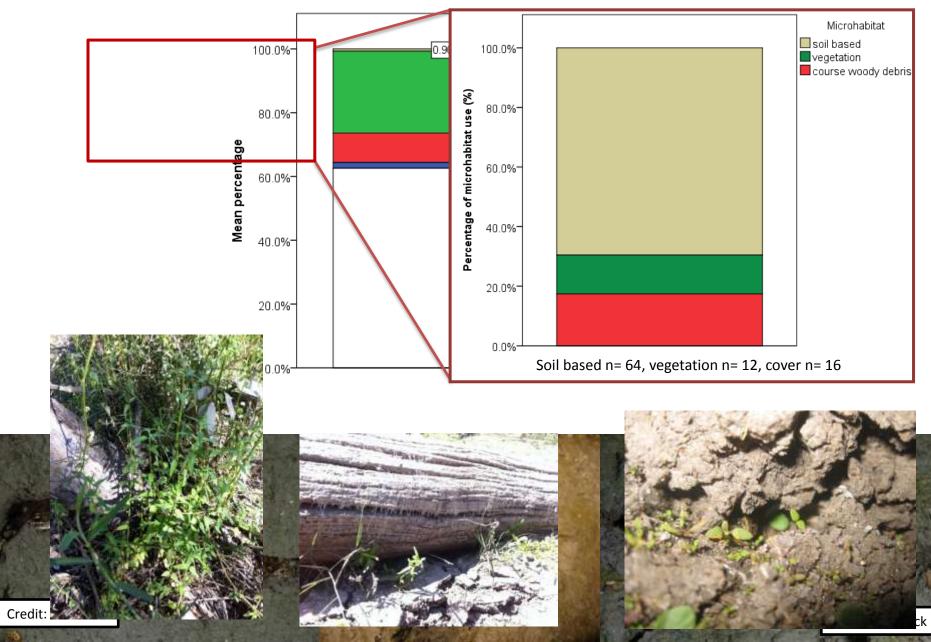
Back to marker





Use black light to track path to microhabitat

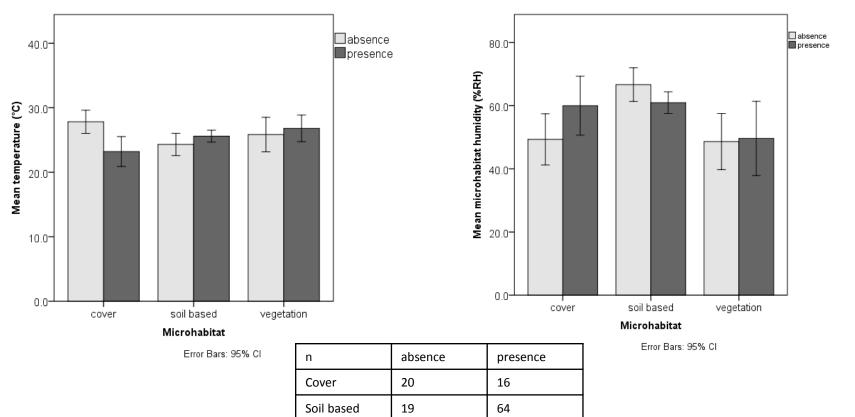
Record microhabitat type, surrounding habitat... etc



Available habitat October 2013 tage of microhabitat choice

Temperature at microhabitat presence and absence

Humidity at microhabitat presence and absence



9

Vegetation



12

Conclusion & management

- Frogs primarily use soil based microhabitats
- •50-60% humidity is important to microhabitat choice
- •Temperature mid 20 degrees
- Leads to better management of water
- •Understanding habitat use means we can prevent future losses





Acknowledgments

Funding Bodies: Charles Sturt University (CSUPRS)

- •My supervisors: Dr Skye Wassens and Professor Gary Luck
- •Field staff: Amelia Walcott (CSU) and Amy Mclean (CSU)
- National Park (NP) Area Managers Silvana Keating (Hay NP) and rangers and administrative staff
- •Landholders and property managers



