



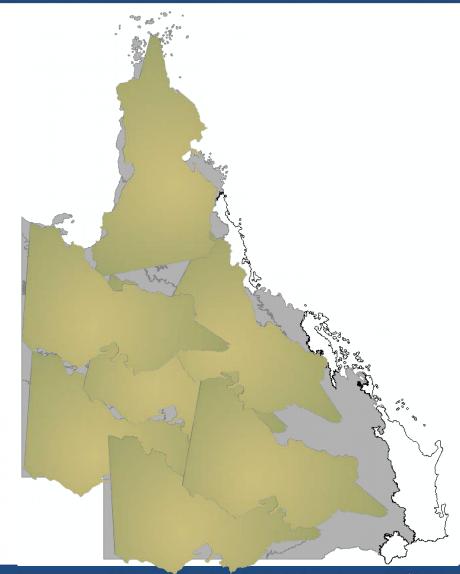


Biodiversity in Queensland's Rangelands Status and Condition



Rangeland biodiversity status

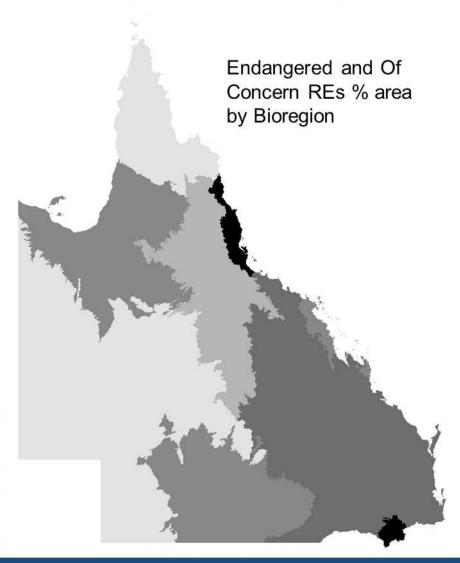
- 94% of Queensland is 'rangeland'
- Huge
- Diverse, > 1000 described regional ecosystems





Rangeland biodiversity status

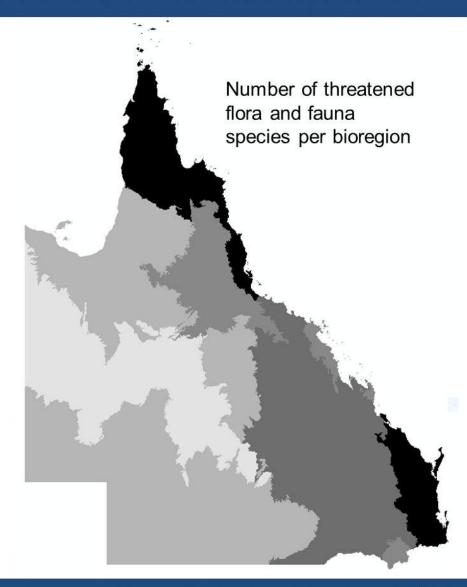
- Endangered and Of Concern remnant ecosystems:
 - cover 9.5% of Qld
 - cover 8.5% of the rangelands (mostly in Mulga, Brigalow and Gulf Plains)
 - x2 Tasmania





Rangeland biodiversity status

- Threatened flora and fauna species:
 - High numbers in SEQ and WET, but also
 Brigalow and Cape York
 - Low numbers in MGD and NWH





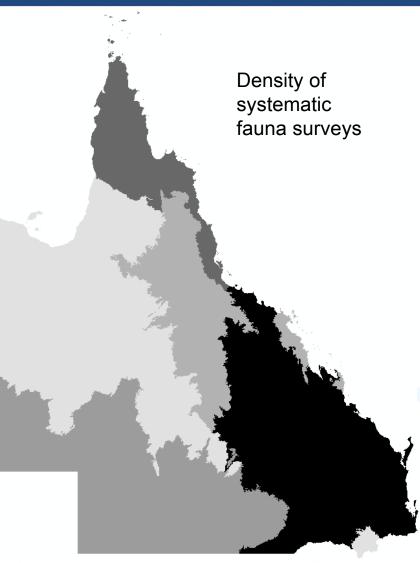
Survey effort in the rangelands

- Highest concentration of biodiversity survey effort in SEQ, then Brigalow
- Collectively, Cape York, NWH, MGD, GUP, DEU, EIU, CHC, Mulga:
 - less (by 25%) of effort gone into SEQ.
 - 1/3 of effort in SEQ and Brigalow



Vs ??







Condition – why do we care?

Knowledge of rangeland condition enhances our capacity to:

- Understand the drivers of condition states
- Identify priority areas for management interventions
- Assists with environmental accounting and reporting

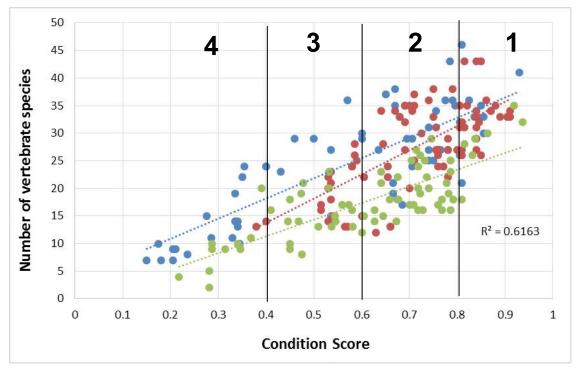
Condition assessments:

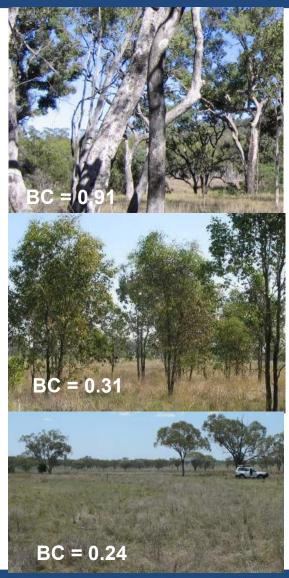
- Based on pressure-state-response conceptual frameworks
- Forces acknowledgement of important attributes that:
 - respond to change and;
 - are direct and/or surrogate measures of the condition objective
- Uses a scoring or rating system that provides a condition metric that is comparable between and within ecosystems over space and time



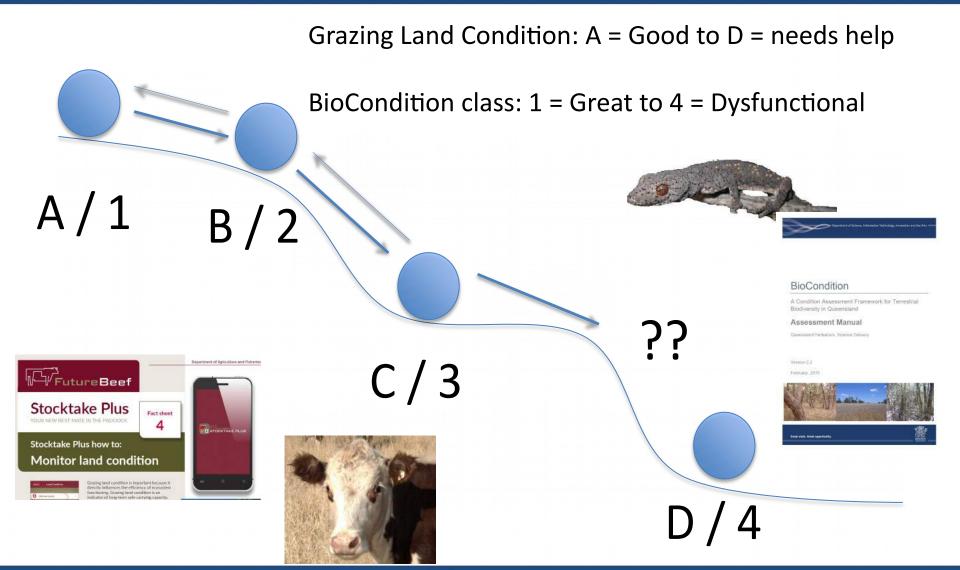
BioCondition

- Provides a final condition metric between 0-1, which can be classified into 1,2,3,4 classes
- The intent is the closer the score is to 1, the more flora and fauna species the ecosystem will support relative to its type











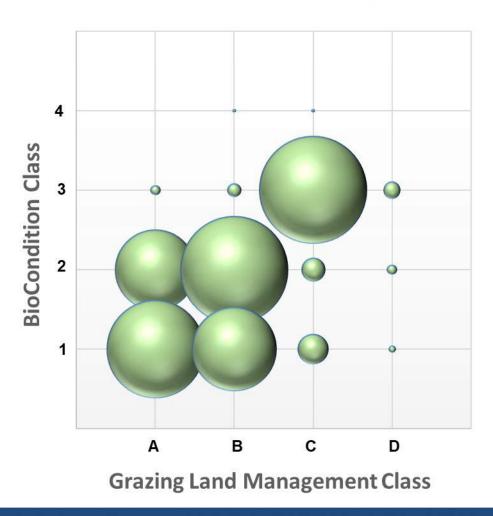
1234 and ABCD – how do they compare?



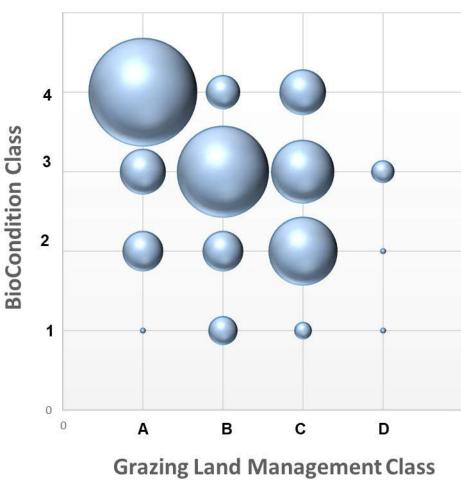


1234 and ABCD – how do they compare?

Remnant vegetation



Non remnant vegetation



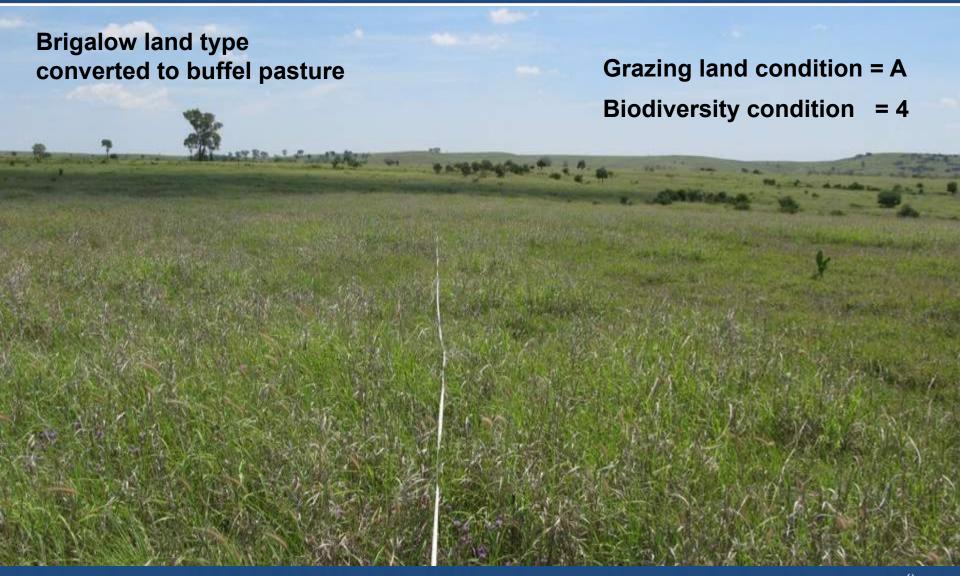


Mitchell grass downs

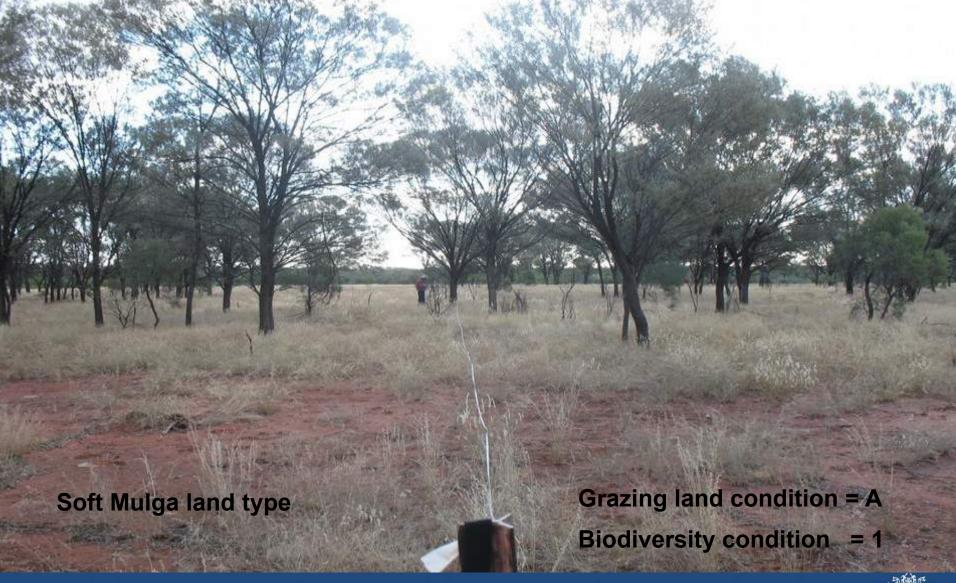
Grazing land condition = A
BioCondition class = 1



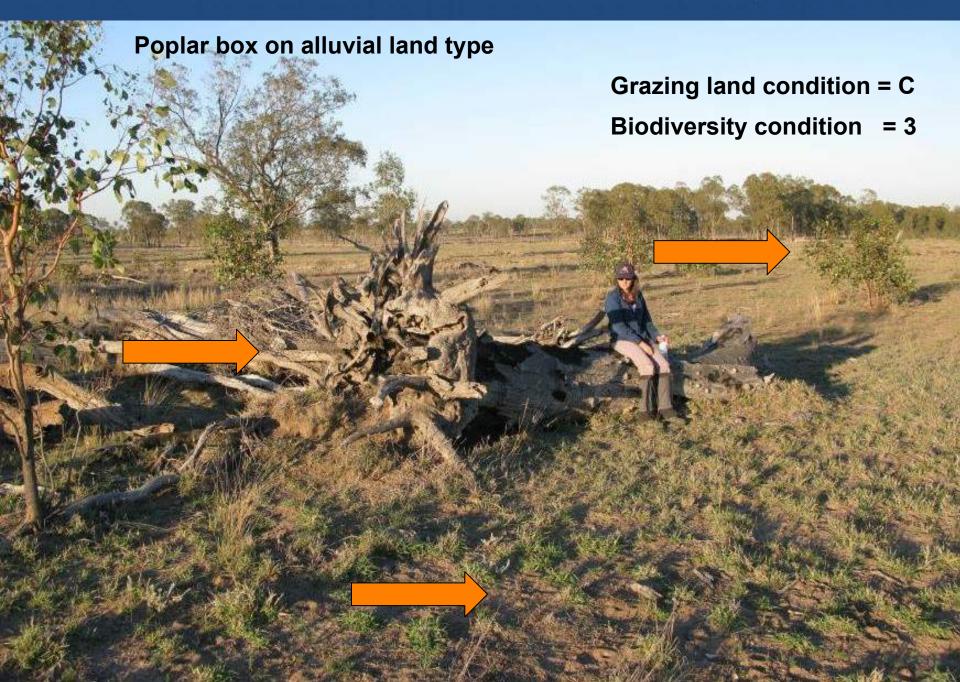






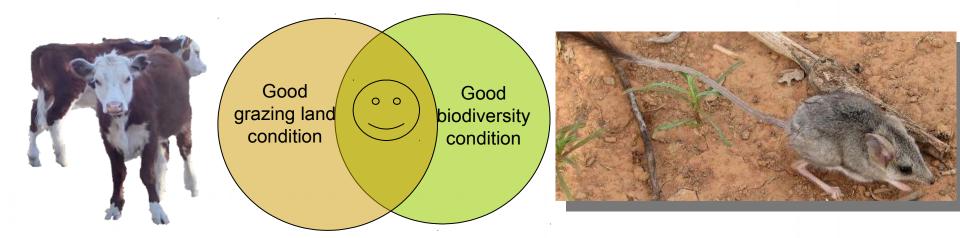






Conclusion

- Knowledge of condition states helps us articulate what is going right and what is going wrong
- Monitoring condition states can show good management practice for both production and biodiversity in our rangelands



The challenge: to map condition for biodiversity for the state, that accounts for natural variation, across time and space











- Funding bodies (Meat and Livestock Australia, Australian Govt, GISERA, Biodiversity Fund, Queensland Govt)
- My team and colleagues
- Our collaborating grazing families
- Mitchell and Districts Landcare Group
- NRM groups (Desert Channels, SWNRM, Southern Qld)
- You for listening









