

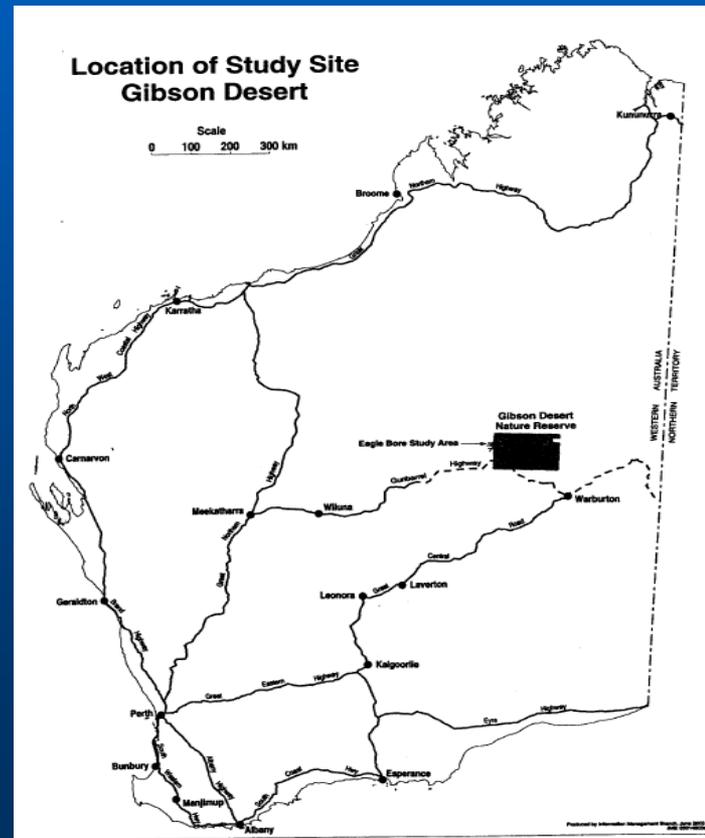
Fire Ecology of Vascular Plants in the Gibson Desert

Bruce Ward and Dr Tom Bragg

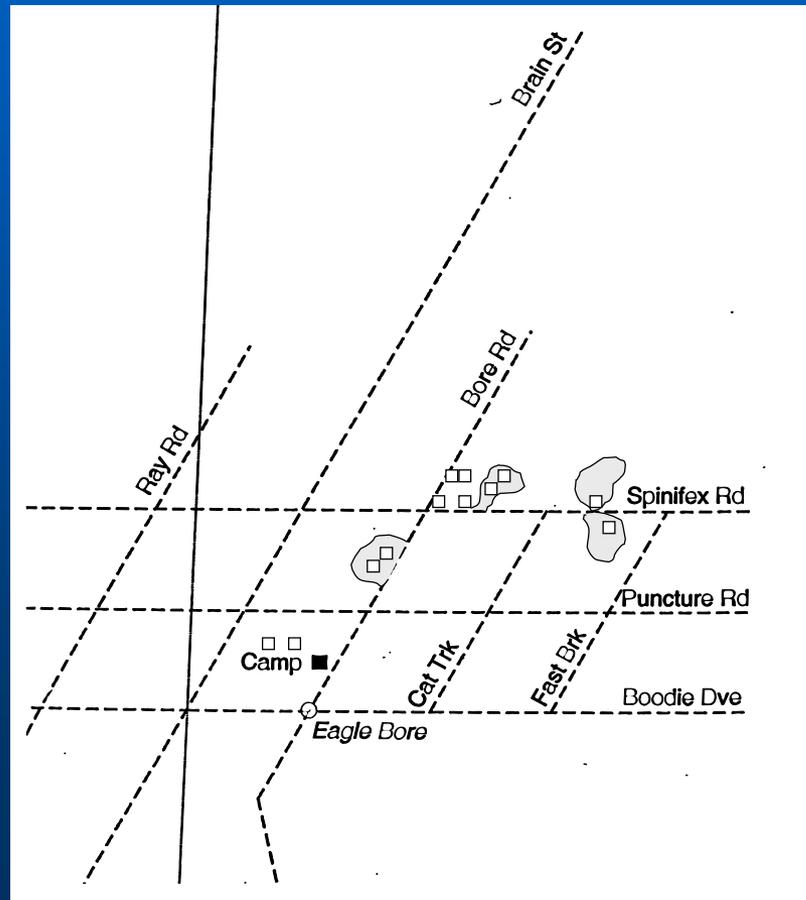
Project Goals

- **Measure post fire changes in species richness**
- **Determine the time taken for system to reach a stable condition**
- **Determine changes in functional groups with time since fire**

Site Location



Plot Location



- **Triodia basedowii sandplain**
- **Triodia schinzii sandplain**
- **Mulga belt**

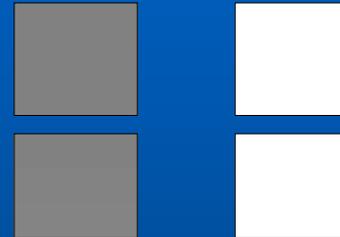




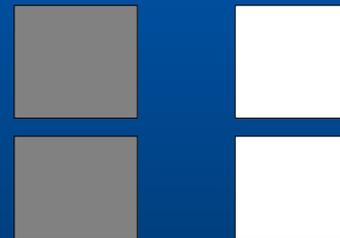


Plot Design

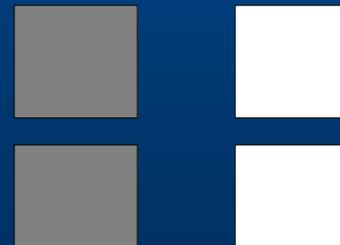
- **Triodia basdowii**



- **Triodia schinzii**



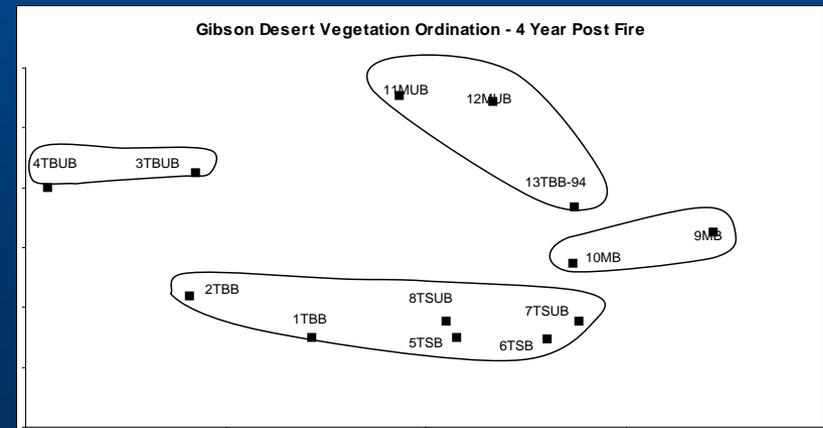
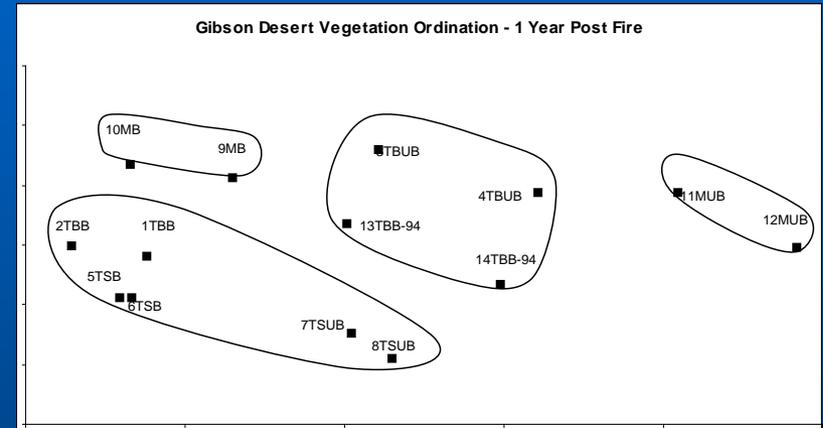
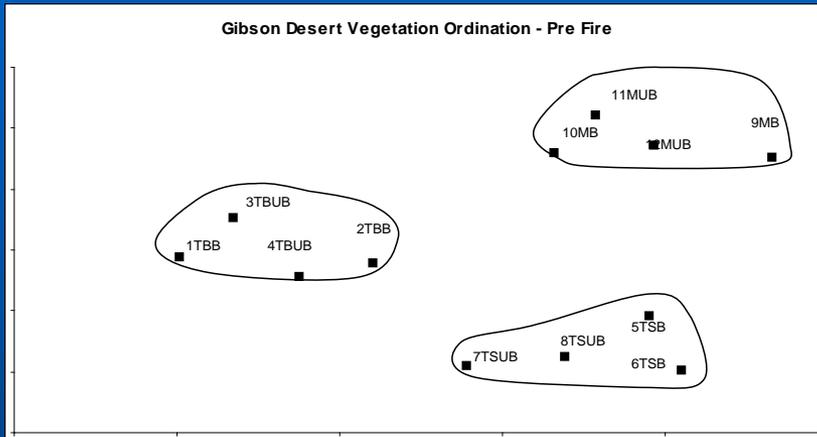
- **Mulga**



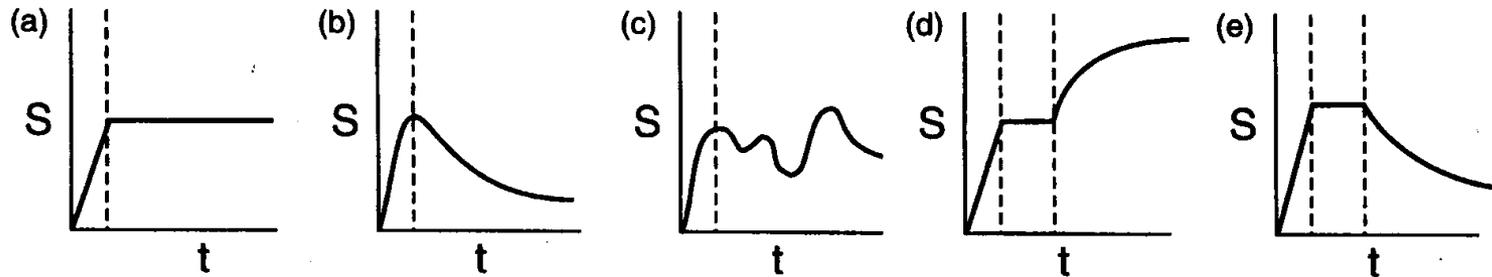
Results

- **Test controls - ANOVA, CAP tests.**
- **Ordination - multi dimensional scaling (PATN) Pattern Analysis Package**

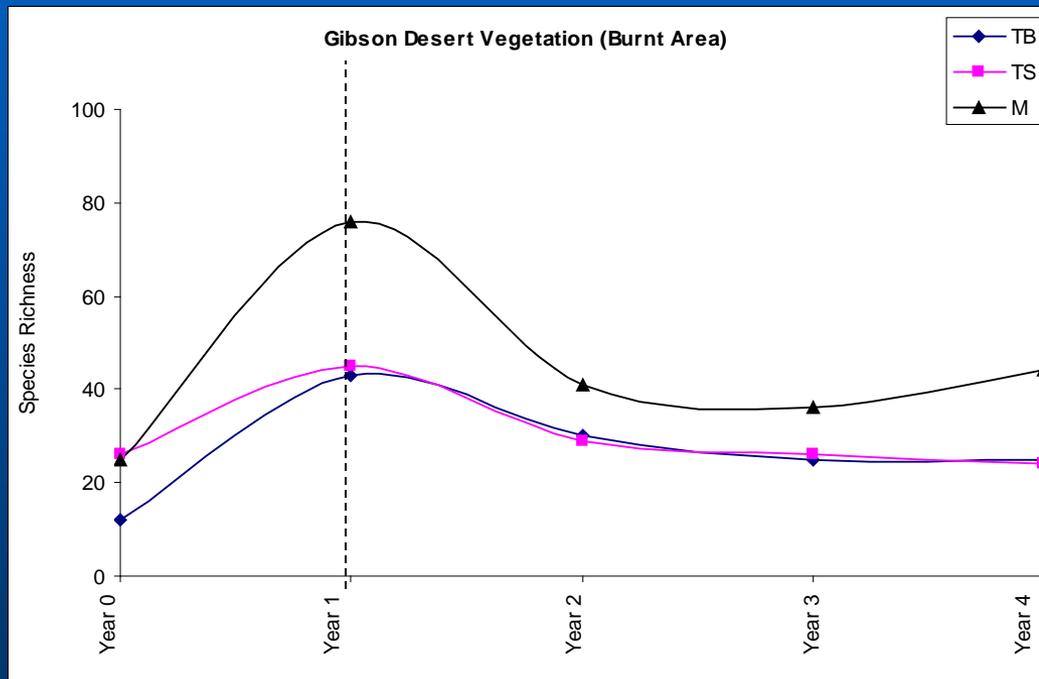
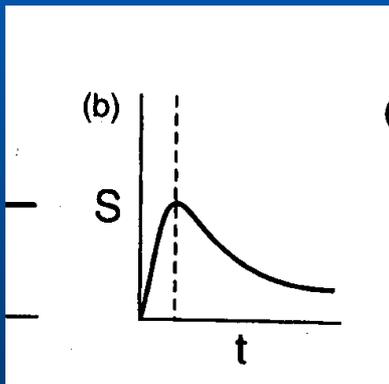
Ordination



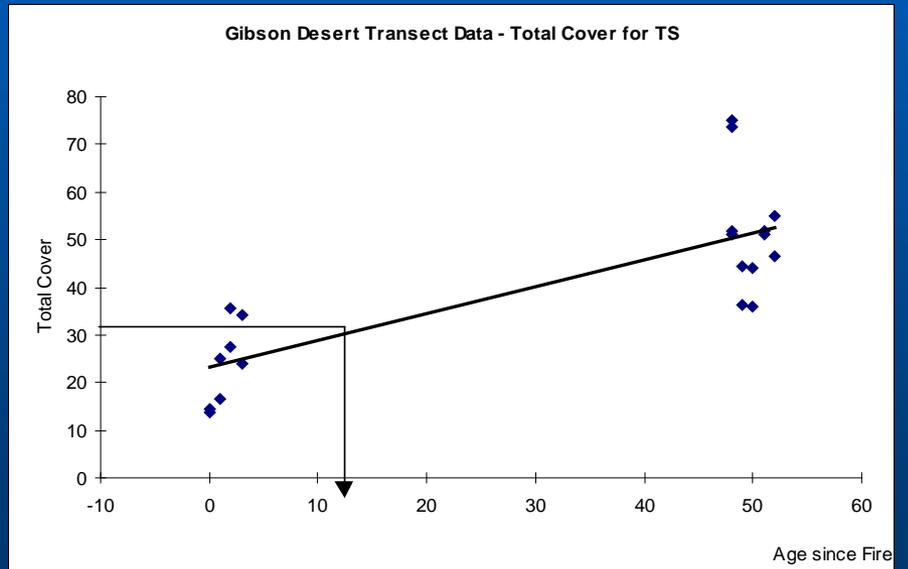
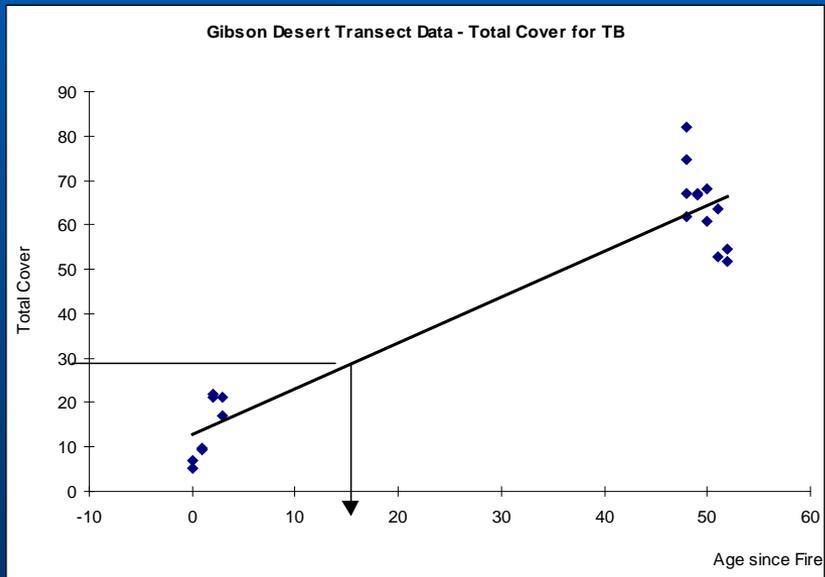
Species richness.



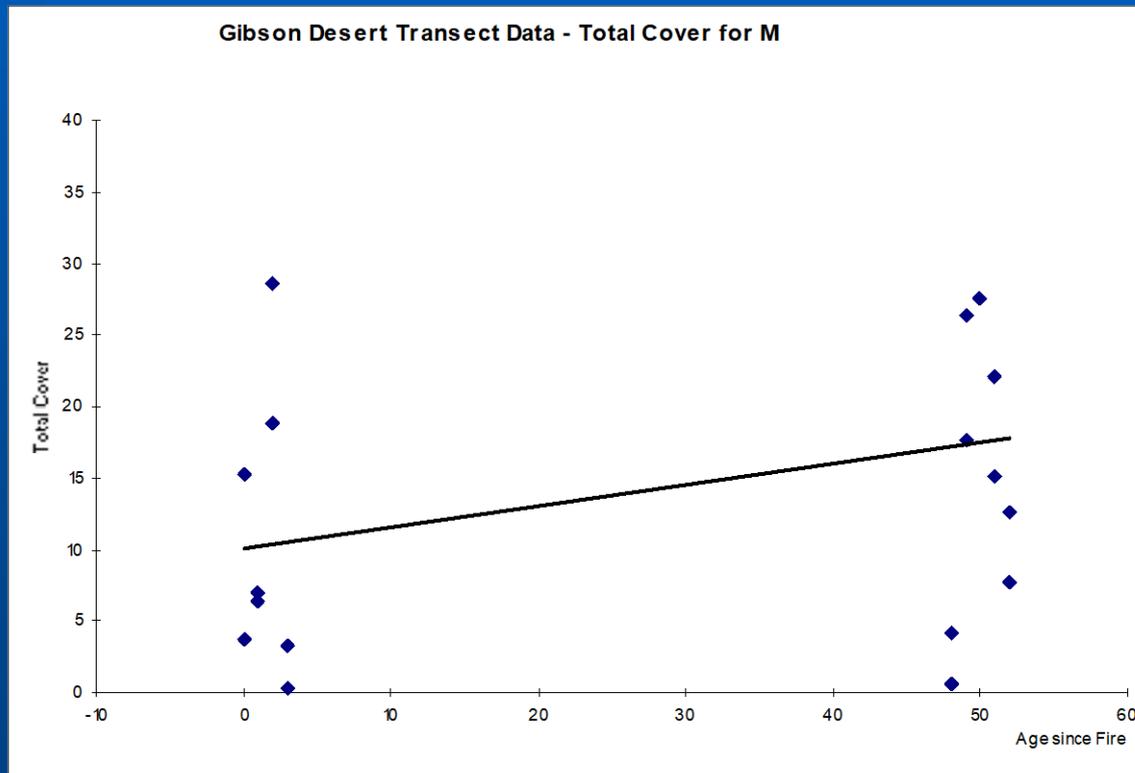
Species richness



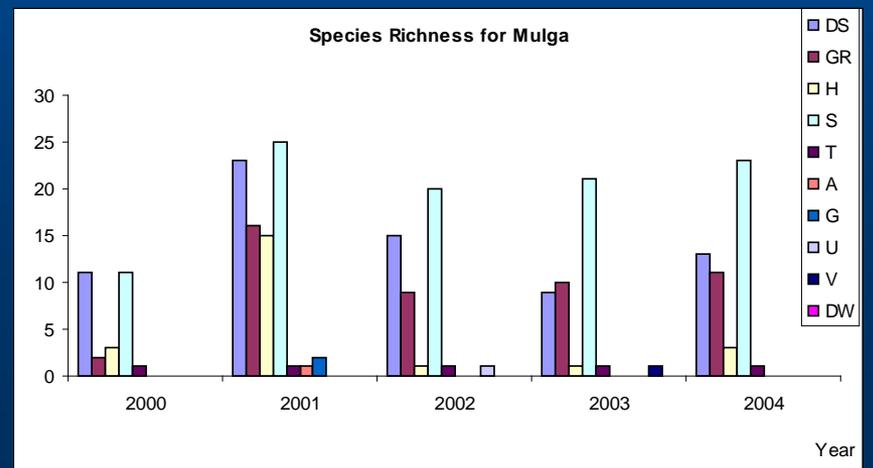
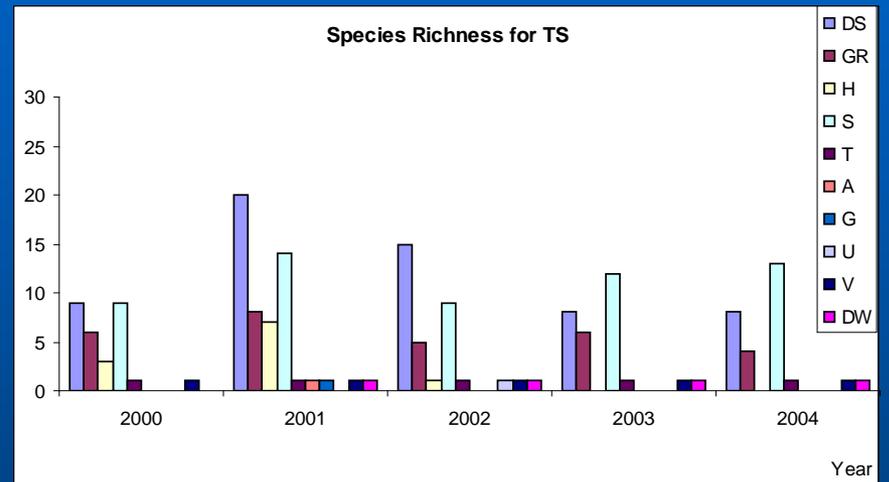
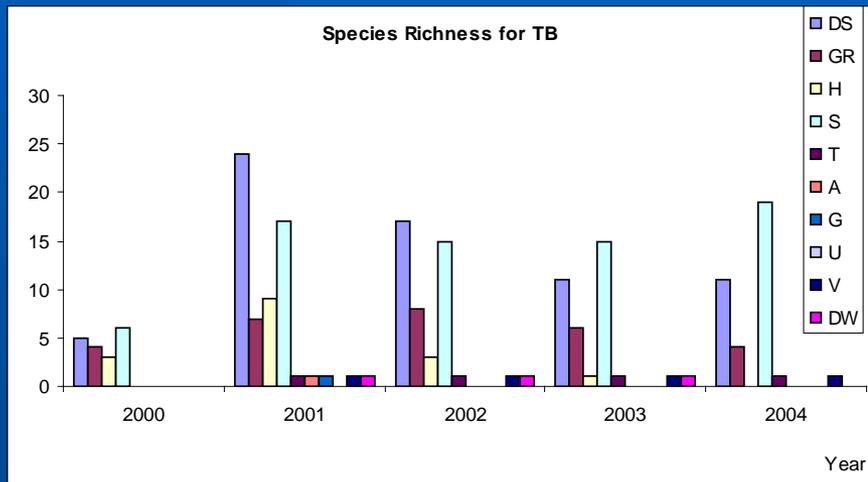
Recovery (30% cover)



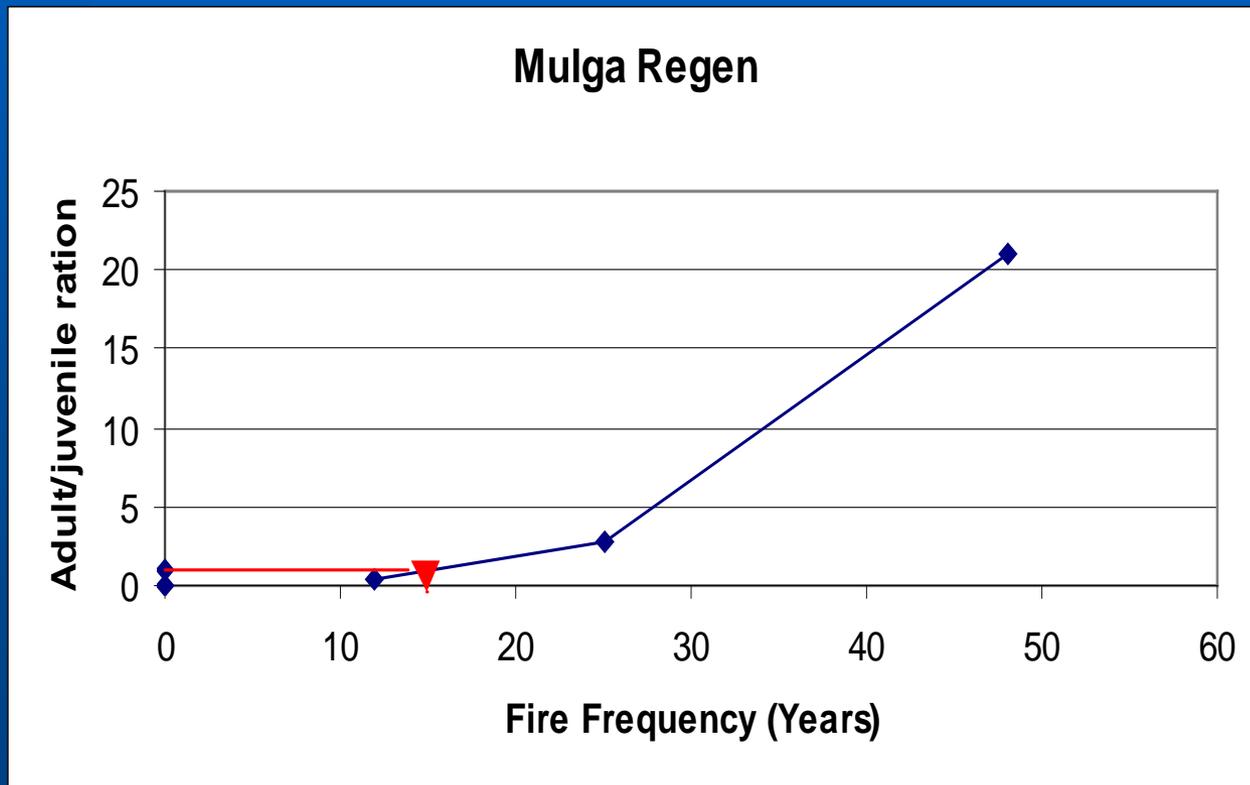
Recovery (30% cover)



Lifeform



Mulga



Further Study - recommendations

- **Continue monitoring - reduced frequency, 5 year intervals till age 15**
- **Reburn plots at age 15 - Do we get the same species?**
- **Relate animals/inverts to vegetation age - maximum number approach?**
- **Complete mulga regen/age sites to determine if adult/juvenile ratio dependent on fire frequency**

THE END