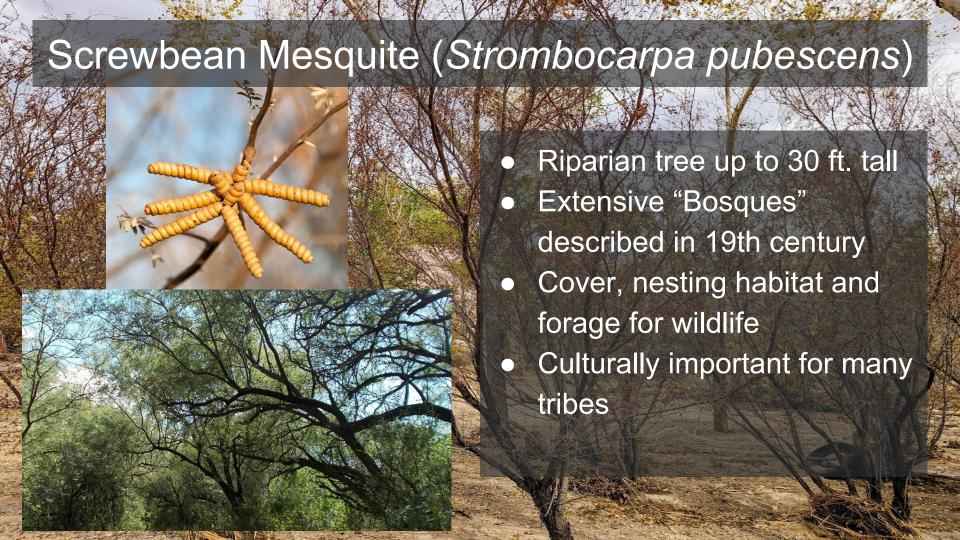
Screwbean Mesquite Stand Health on DCP Properties & Beyond

Jacob Cowan, PhD



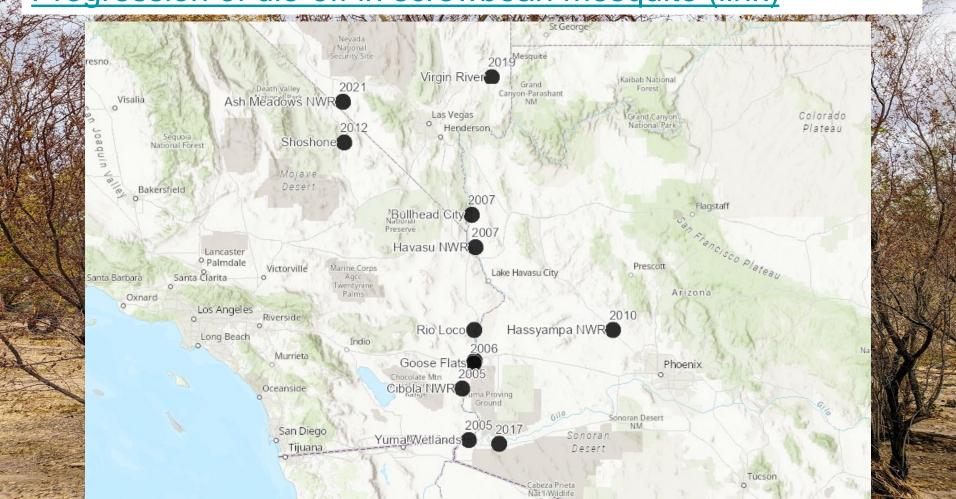


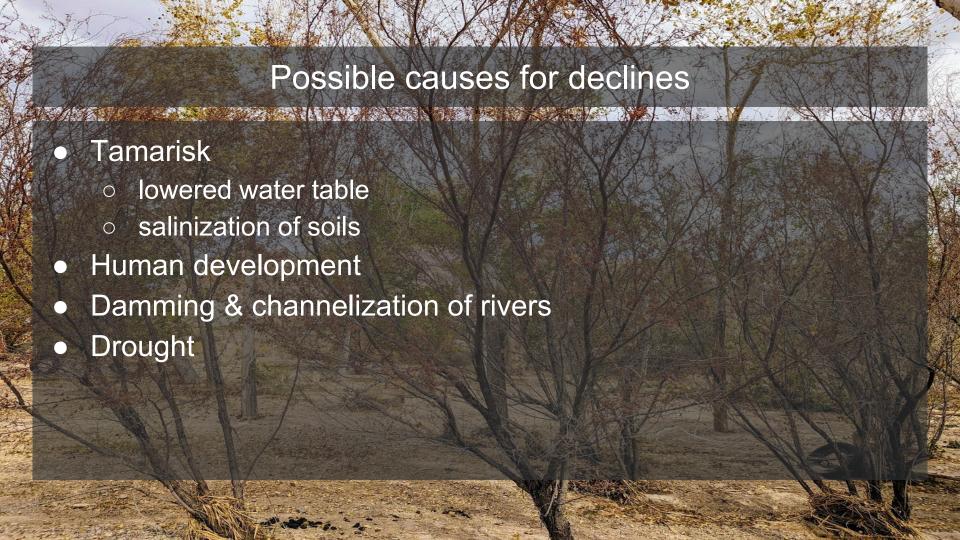


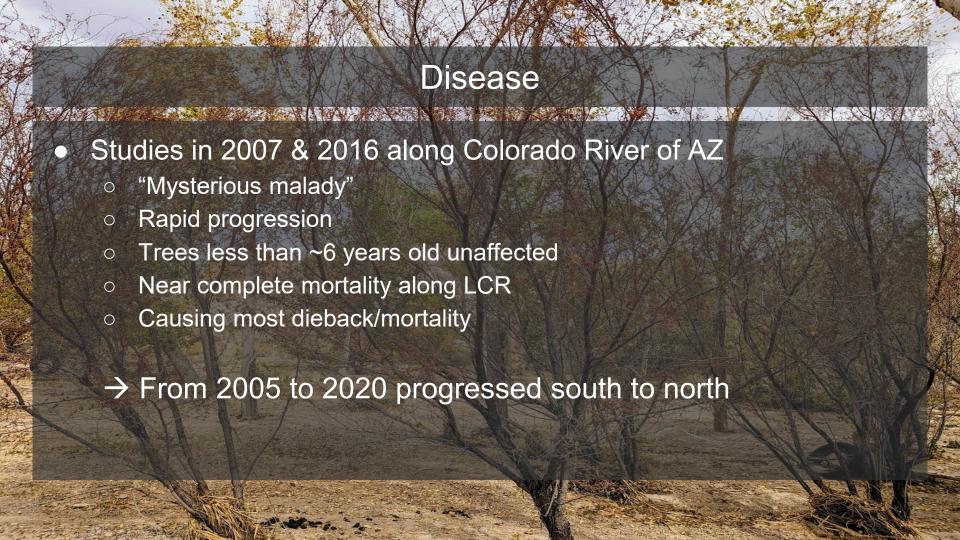


2014 surveys compared to herbarium records (1900s) b. Utah Colorado Nevada -Caballo Dam ←Radium Spings ←Anthony Mexico

Progression of die-off in screwbean mesquite (link)











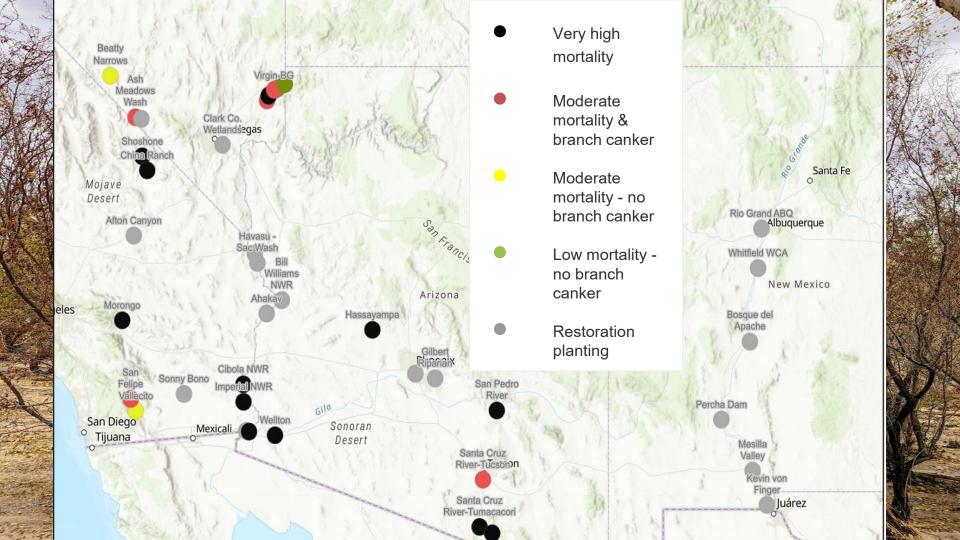
Disease Symptoms

- Red, oozing cracked bark
- Cankers
- Leaf yellowing
- Branches killed in weeks to months





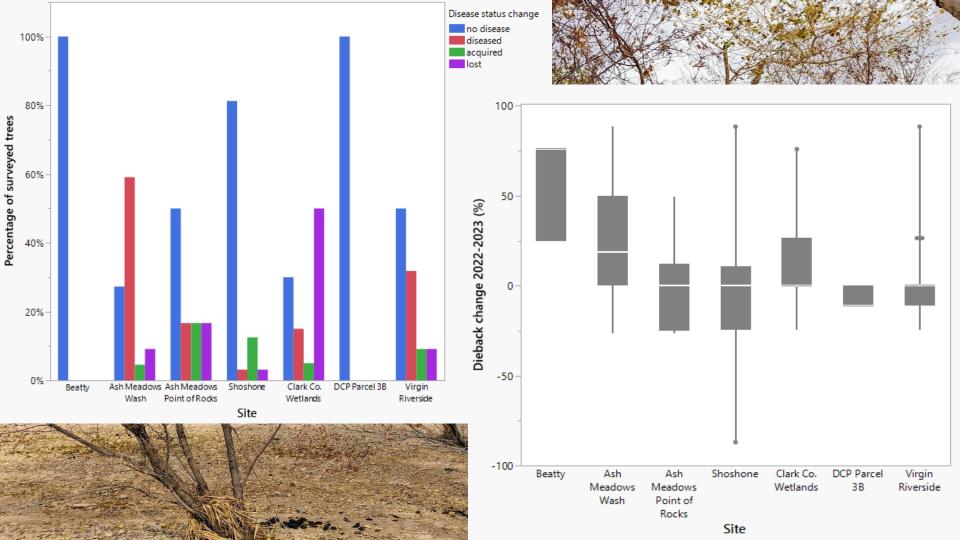
- Opportunistic
 - Spores enter wounds
 - Thermophilic
 - Affects many woody and non-woody species
 - E.g. Walnut, Citrus, Pines, Eucalyptus
- Emerging global pathogen
 - Climate-driven → hot, dry conditions causing bark cracking?
- Evidence of local adaptation
 - increased aggressiveness for new species
 - E.g. dragonfruit in the Phillippines



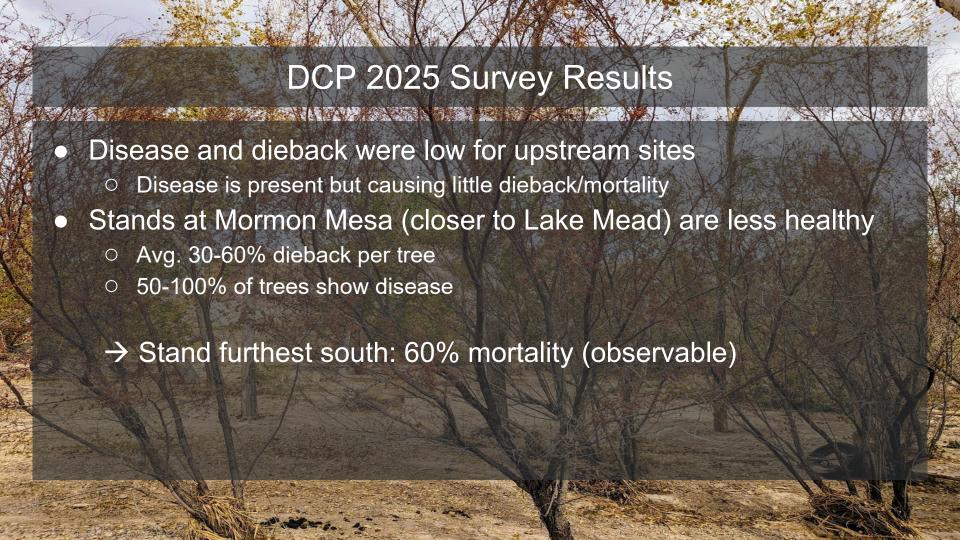


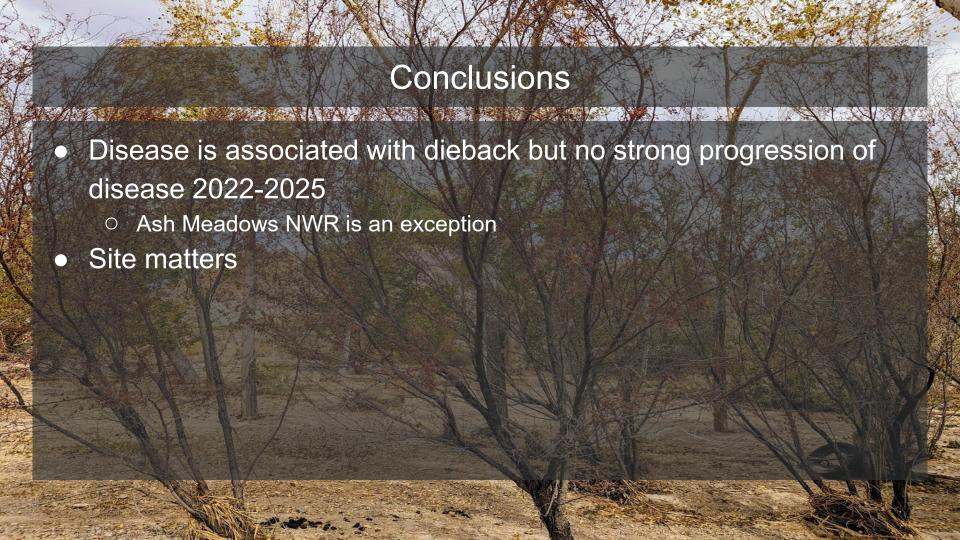


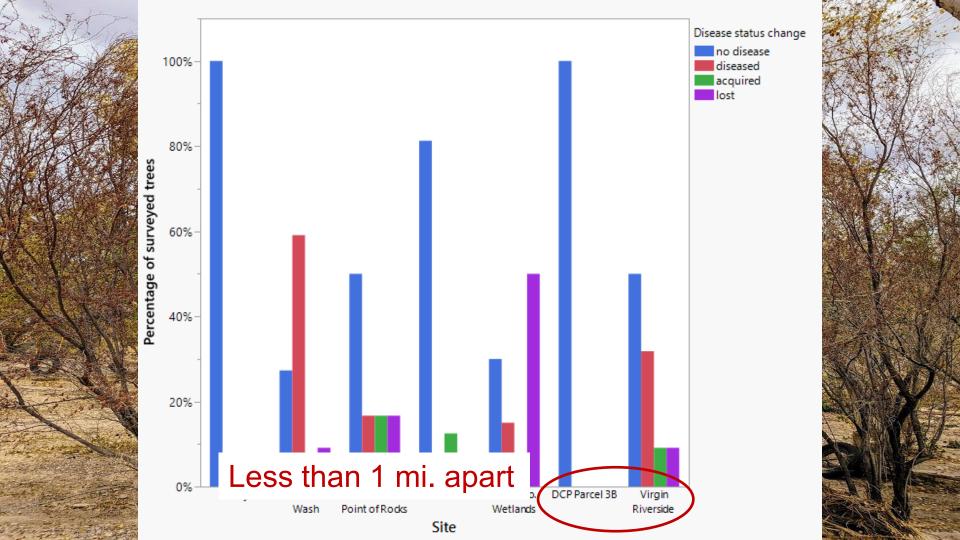


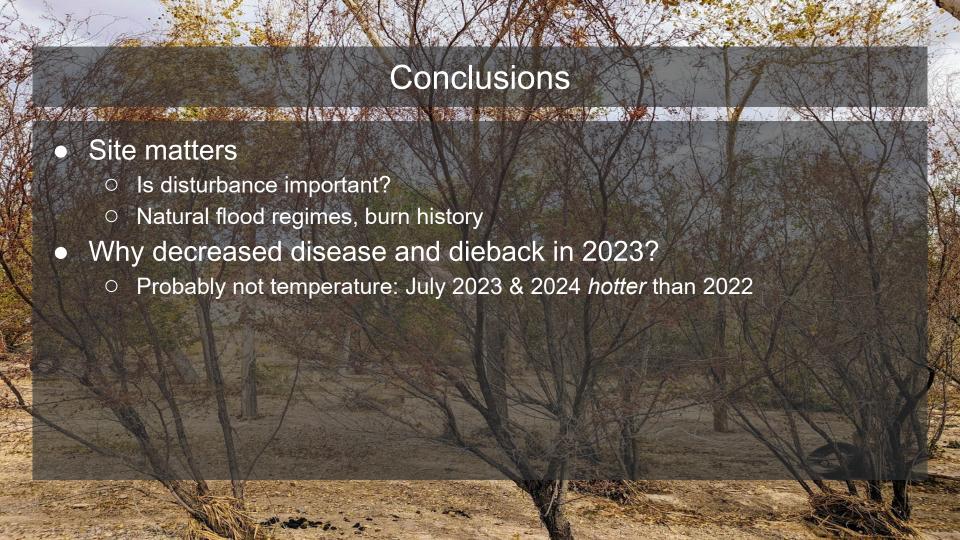


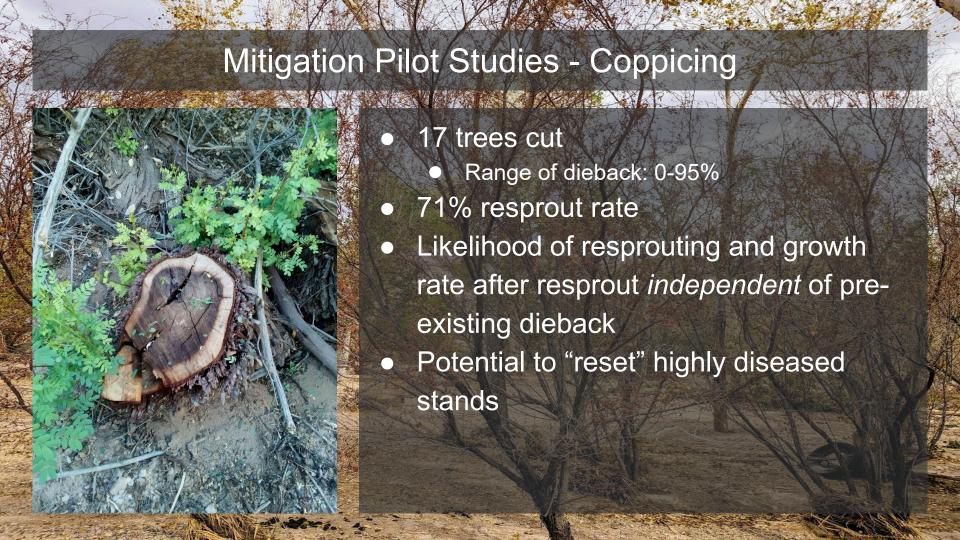


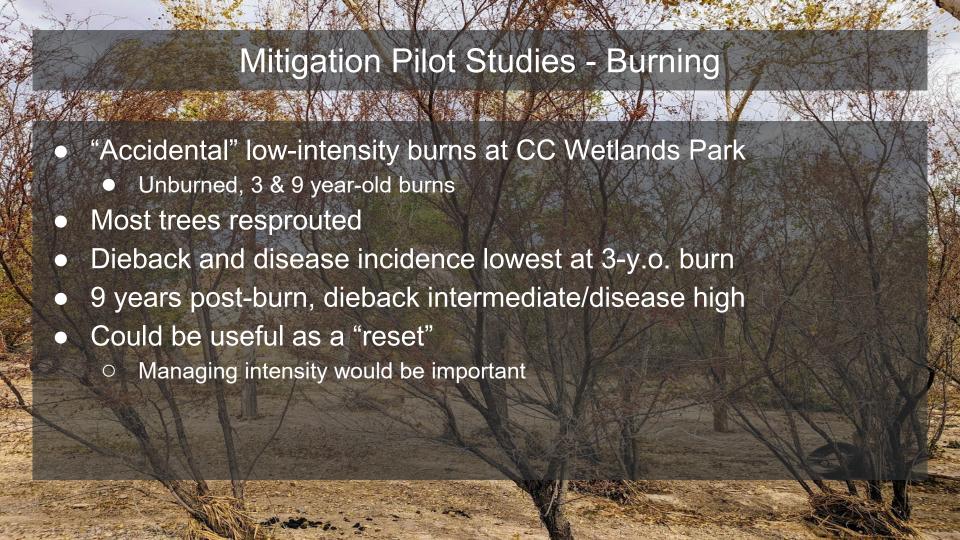


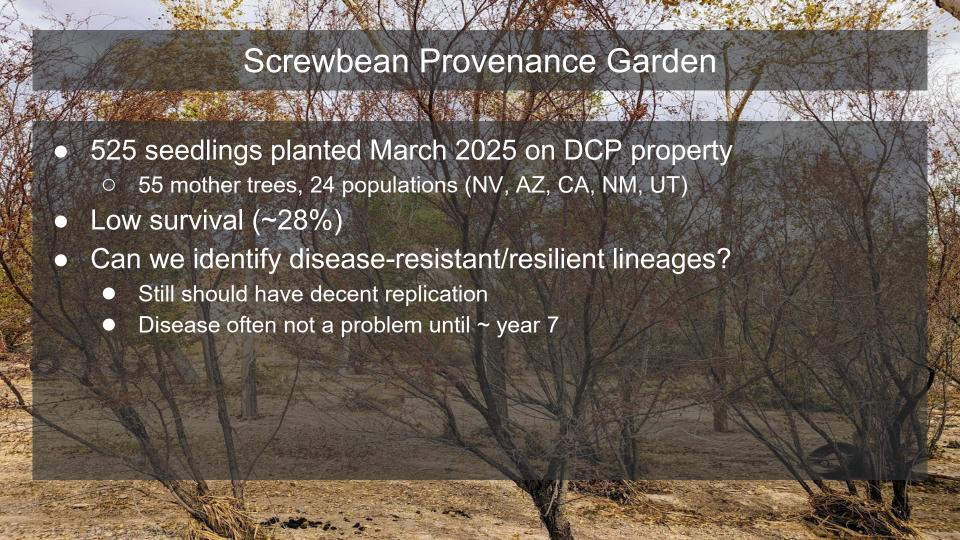














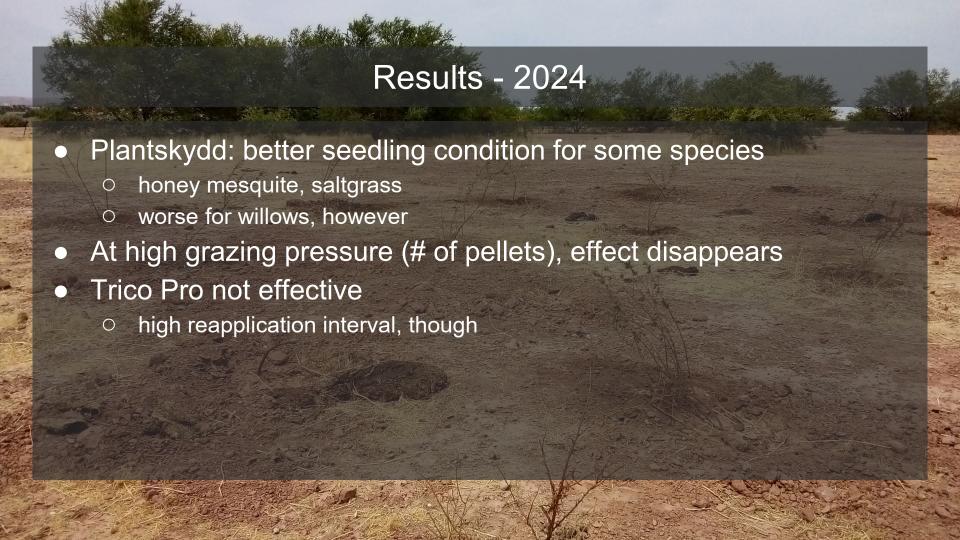






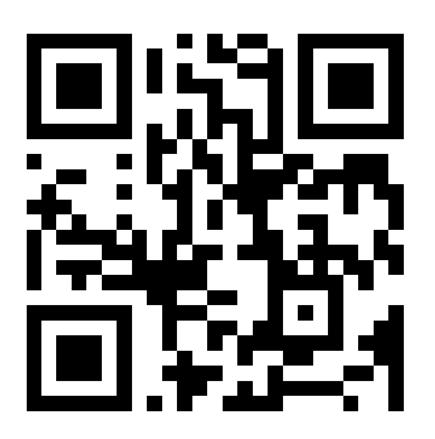












Help with regional Screwbean Mesquite monitoring!

https://arcg.is/eKGGe

→ be sure to enable location ←

Send feedback to: jacob.cowan@ecoculture.us

