

# Stewarding Natural Resources for Intergenerational Wellbeing through the ESA

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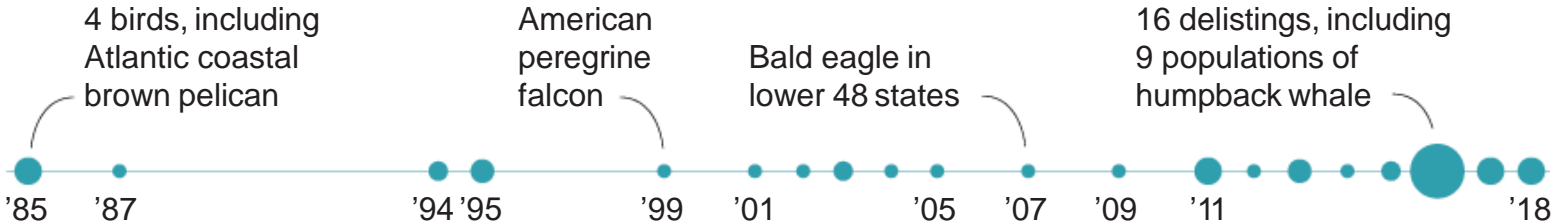
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ENVIRONMENTAL POLICY  
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# Over 60 recoveries



Kirtland's warbler



Colorado butterfly plant



Black-capped vireo

# But also many close to extinction



**Ring pink mussel**

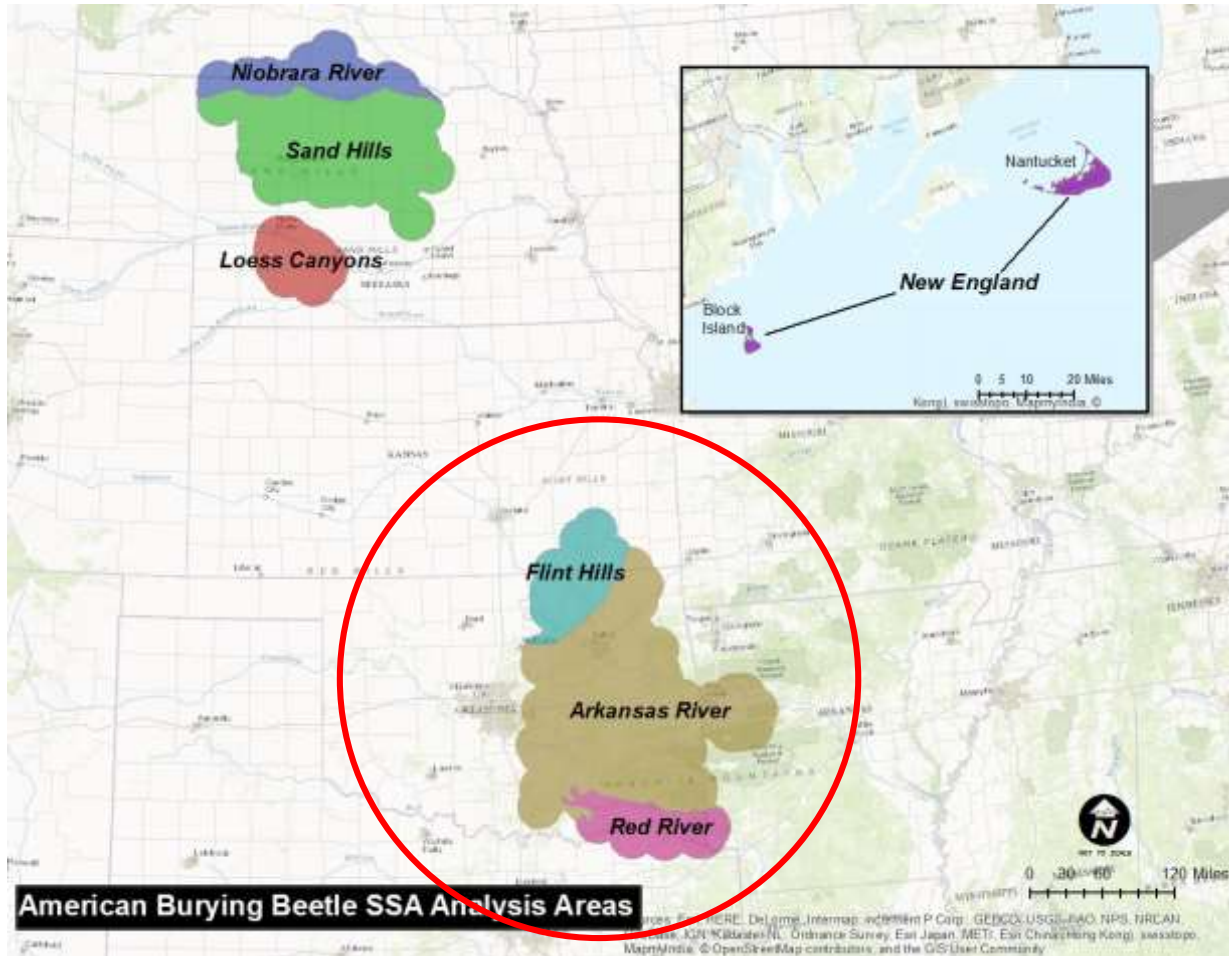
- Listed 1989
- Only 2 found in last 15 years



**St. John Kaala**

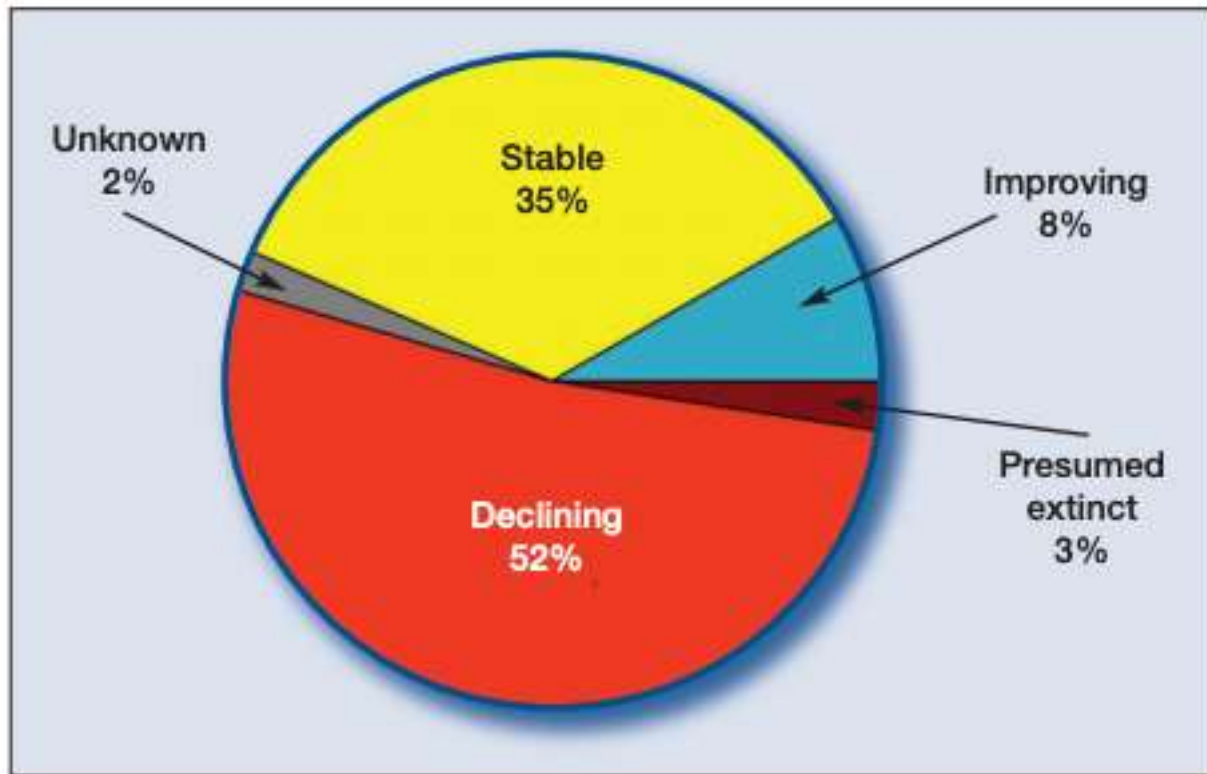
- Listed 1996
- Extinct in wild; all outplanted specimens have died

# And many in long term decline



## American burying beetle

- Downlisted in 2020
- But extirpation anticipated for entire Southern Plains areas



Evans et al. 2016. Species Recovery in the United States: Increasing the Effectiveness of the Endangered Species Act. *Issues in Ecology* 20.



# And many to become climate refugees

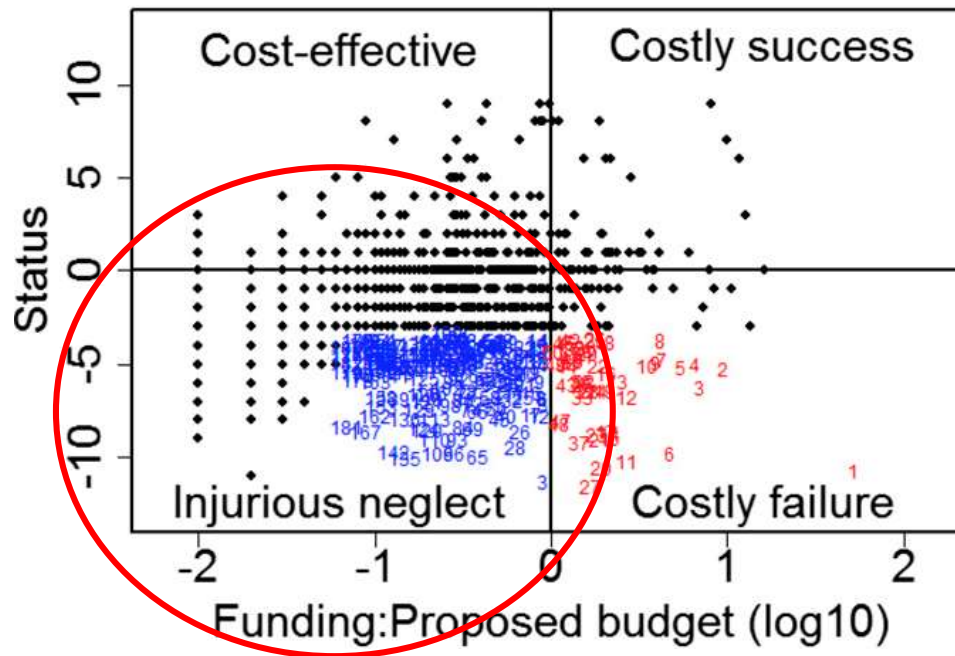


## Florida Key deer

- Most of habitat to become inundated or affected by saltwater intrusion

# Reallocate funding to prioritize extinction prevention and stabilization

- 80% of gov't funding goes to 5% of ESA species
- “Injurious neglect” species



Gerber L. 2016. Conservation triage or injurious neglect in endangered species recovery, Proceedings of the National Academy of Sciences.

# More aggressive use of translocations

- ESA framework for assessing risks
- Cost of action vs. inaction



## Guidelines for Reintroductions and Other Conservation Translocations

Version 1.0

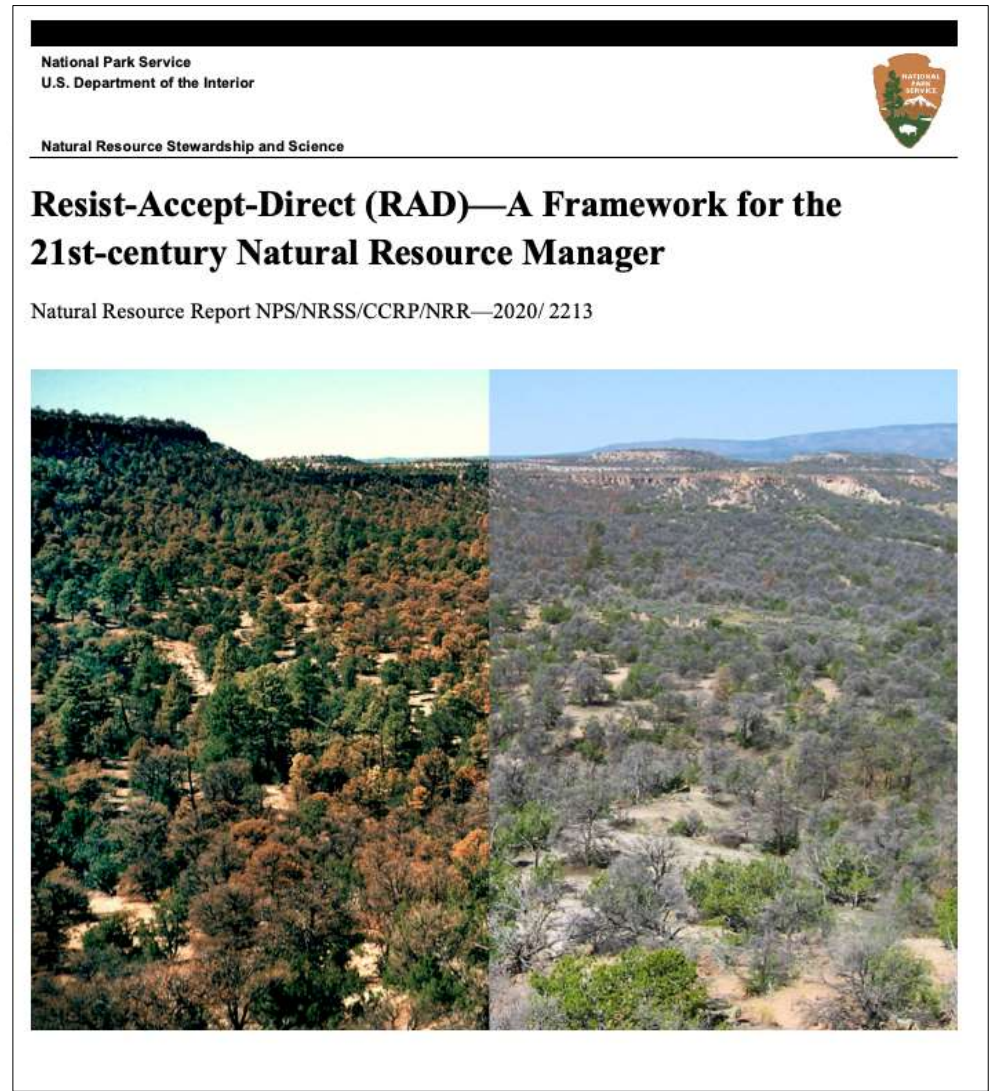


REINTRODUCTION AND INVASIVE SPECIES SPECIALIST GROUPS' TASK FORCE ON MOVING PLANTS AND ANIMALS FOR CONSERVATION PURPOSES



# National strategy for ESA climate adaptation

- What's the most we can do for species, and how?
- Unrecoverable species.



# ESA not enough as law of last resort



“Regulatory mechanisms to manage aquifers that support flow at Diamond Y Spring system are inadequate to protect the Diamond tryonia against future habitat loss or degradation”