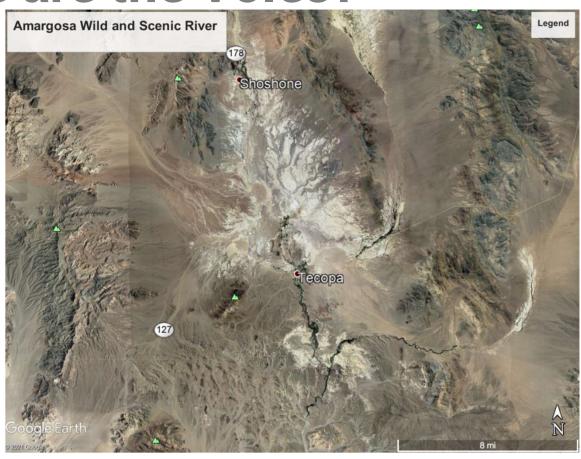


Where are the Voles?



Where are the Voles?

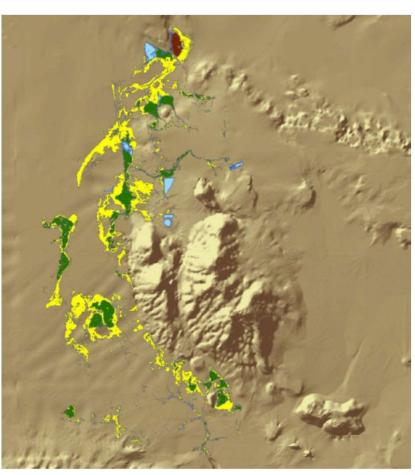


Demographics 2012

1997 Amargosa Vole Recovery Plan: the estimated habitat for this species consisted of no more than 500 acres and the population of voles was unknown at that time

2012 Surveys ... High Risk of Extinction

- 1 Year = 10%
- 5 Year = 82%
- 20 Year = 97%



2012 Conditions:

- a) Suitable habitat around 75 acres
- b) Dispersed 55 habitat patches
- c) Only one (maybe3) sourcepopulations
- d) Extremely low numbers estimate of 75 in January 2012
- e) 80-90% in one marsh < 5 acres Borehole Marsh

Amargosa Vole Team Established

Established in 2013 in response to findings

The purpose of the Amargosa Vole Team (AVT) is to function as a work group to provide a collaborative forum for BLM, Fish and Wildlife Service (FWS), the California Department of Fish and Wildlife (CDFW), researchers and private landowners to plan, coordinate, and implement actions that would prevent the extinction of the vole and ultimately result in its recovery or down-listing.

Chaired by BLM

Partners

Amargosa Conservancy: Advocacy, Outreach, Volunteers

UC Davis: Basic Biology, Demographic Studies, Research

UC Berkeley: Genetics

Inyo County Road Department: In-kind-Work

California Fish and Wildlife Service: Permitting, Demographic Studies, Funding

U. S. Fish and Wildlife Service: Consultation, Funding

U. S. Geological Survey: Statistical Analyses

BLM - Field Office, District Office, State Office, Head Quarters Office: Funding

Individuals from the Public: Conservation Projects, Local by-in and Support



Funding

General Operating Budget from Field Office

Cooperative Ecosystem Studies Unit (CESU) Program

National Conservation System (NCS) Science Research Program

Targeted Funding from BLM Washington Office - National Threatened and Endangered Species Program

Targeted Funding from BLM State Office – State Threatened and Endangered Species Program

Traditional Section 6 Grants - U.S. Fish and Wildlife Service

State Emergency Drought Funds - California Fish and Wildlife

Fund Raising Events

Capacity Building

Relatively modest input of operating budget funds >>>> Leverage to fund much larger program

Partners pursue funding with BLM support

Access funds not available to BLM

Partners are boots on the ground - Partners administer funds and do the work

It takes a village!



Recovery Action 1 – Establish Captive Colony







Original Goals (2013):

Emergency Refugia

Increase Number of Individuals – Release to Wild

Current Situation: Considering closing facility

- a) Refugia No Longer Necessary
- b) Native Populations Increasing
- c) Habitat Improving
- d) Translocation More Effective
- e) Cost Savings

Recovery Action 2 – Stabilize Borehole Marsh





2005 2013



Recovery Action 2 – Stabilize Borehole Marsh









2024



Recovery Action 3 – Shoshone Refugia



Recovery Action 4 – Shoshone Refugia Release



Future Work



Mega-Marsh



Borehole Management



Range-wide Surveys



Water Rights

It's Working!

Most Endangered North American Mammal



Discussing Down-Listing

USFWS Recovery Champion 2020

Martha Maciel, Acting Deputy Regional Director, USFWS, wrote in a congratulatory email, "The team's work is an excellent example of how Federal and State agencies, academic institutions, non-governmental organizations, and private partners can work together to conserve endangered species... Your exceptional work is helping to create the roadmap for long-term survival and recovery of this species."

Thank You For Your Attention

