

Mohave tui chub

- Downlisting and recovery
- Current actions to achieve recovery
- “Painless ways” to establish an endangered or threatened species on your property

Downlisting

- 1984 Recovery Plan for Mohave tui chub
 - 6 self-sustaining populations need to be established and secured
 - Currently 3 populations: at Zzyzx (refugia - Mojave National Preserve), Camp Cady (refugia - California Department of Fish and Game, and Lark Seep (China Lake NAWS)
 - All are isolated populations in human-created habitat
 - Need 3 more populations to meet downlisting requirement

Delisting

- 1984 Recovery Plan
 - Successful establishment of viable populations in majority of historic habitat in Mojave River
 - Suggested locations include Mojave Narrows Regional Park, Camp Cady Wildlife Area, and Afton Canyon Campground
 - Other locations would include headwaters and associated tributaries of the Mojave River
 - Historically collected from Deep Creek
 - Reintroductions would act as source for colonizing populations downstream

Issues Associated with Downlisting and Delisting

- Water quantity/reliability
- Water quality
- Exotic species
 - predatory fish and amphibians, hybrid issues with arroyo chubs, invasive aquatic vegetation
- Public education
- Genetic mixing
- High flows

Perspective on Downlisting

- Potentially achievable in near term
- Searching for new sites to establish a minimum of three populations
- Located two sites – Morningstar Mine and Lewis Center
- Need other locations with criteria
 - Desert portions of Inyo, Kern, Los Angeles, and San Bernardino counties
 - Free of exotic species or managed exotic species
 - Adequate water quantity and quality

Locations for Sites 6, 7, etc.?

- Collaborative effort from agencies to manage existing populations and identify new population locations
- Asking for your help to identify locations with permanent water that might meet the Mohave tui chub's habitat criteria in desert portions of Inyo, Kern, Los Angeles, and San Bernardino counties
- Suggested types of waters
 - Man-altered springs
 - Segments of streams with perennial flow
 - Man-made waters

Current Actions to Achieve Recovery

- Reconnaissance trip in April
 - ID possible sites for establishing Mohave tui chubs
 - Morningstar Mine and Lewis Center
- Lewis Center
 - Expand an existing pond and establish Mohave tui chubs
 - Engage the science program to learn about population and habitat needs of Mohave tui chubs in this man-made environment
 - Cost-share program between FWS and the Lewis Center
 - Population #4

“Painless Ways” to Establish an Endangered Species on Your Property

- Several methods under Federal ESA
 - Non-Federal agency – ESA section 10 permit (50 CFR 17)
 - recovery permit
 - enhancement of survival permit (safe harbors agreement)
 - Federal agency – ESA section 10 recovery permit, section 7 consultation
 - Morningstar Mine

ESA Section 10

- Recovery Permit
 - Issued to conduct research (scientific purposes) or enhance the propagation or survival of the species
 - Allows for “purposeful take” of those actions that contribute to the recovery of the species
 - No incidental take
 - Permit can be renewed
 - Permit can be “transferred”

ESA Section 10

- Enhancement of Survival Permit (safe harbors)
 - Voluntary management of listed species on non-Federal land with no future regulatory restrictions
 - Eliminates fear of “if you build it, they will come”
 - When permit expires, landowner can change management practices and return to baseline level; landowner can “incidentally take”
 - Term of permit can be extended
 - Permit can be transferred to new landowner

Requirements for Permit Issuance

Recovery

- Application with research proposal
- NEPA compliance
- Publish in Federal Register if endangered species
- Section 7 consultation
- Time: 3 to 6 months

Enhancement of Survival

- Application with safe harbors agreement
- NEPA compliance
- Publish in Federal Register with comment period
- Section 7 consultation
- Time: 3 to 12 months

ESA Section 7

- Consultation process with Federal agencies
 - Issued to “cover” a Federal agency for incidental take
 - Issued for a particular action(s) that a Federal agency proposes to implement
(emergencies and acts of God are separate)
 - FWS is not the lead agency; NEPA and other environmental compliance is completed by lead Federal agency
 - Can be amended or re-initiated if conditions change

“Painless Ways” - Morningstar Mine

- NPS desires to establish Mohave tui chubs in a pitlake refugium at Morningstar Mine
- Pre-planning section 7 consultation - FWS is working with NPS to complete section 7 consultation that will analyze possible future activities that NPS is proposing to implement that may adversely affect chubs
- If NPS needs to implement these actions, they have already complied with the section 7 consultation requirement under the ESA