

Efforts to Save Chiricahua Leopard Frogs on the Coconino National Forest



Threats

- Reduction of Range
- Predation by non-natives
 - Small mouth bass
 - Crayfish
 - Bullfrogs
- Bd fungus, potential for other disease
- Impacts to occupied habitat
 - Introduction of non-native crayfish and fish
 - Sedimentation into tanks
 - Tanks drying during drought years
 - Livestock grazing at occupied sites

Chronology of Efforts

- Monitoring
- Crayfish Control
- Drought Emergency Response
 - Hauling water
 - Collecting frogs to avoid dessication
- Nonnative Fish Control
- Temporary Livestock Removal
- Filter Sock Installation
- Predator Control
- Watershed Erosion Control
- Captive Breeding
- Re-introduction of new progeny
- Planned:
 - Wedge fencing
 - Continued monitoring

Threats

- Reduction of Range
 - Natural springs have dried up or become invaded with non-native predators
 - Earthen stock tanks have changed water availability
- Predation by non-natives
 - Non-native fish such as green sunfish
 - Crayfish
 - Bullfrogs
- Bd fungus, potential for other disease
- Impacts to occupied habitat
 - Introduction of non-native crayfish and fish
 - Erosion accelerates sedimentation into tanks
 - Tanks drying during drought years
 - Livestock grazing at occupied sites

Chronology of Efforts

- Monitoring
- Crayfish control
- Drought emergency response
 - Hauling water
 - Collecting frogs to avoid dessication
- Tank deepening
- Predator control
- Temporary livestock removal
- Filter sock installation
- Nonnative fish control
- Removal of encroaching junipers in uplands
- Captive breeding
- Re-introduction of new progeny
- Habitat Protection Fencing
- Obliteration of unauthorized roads

Monitoring



Drought Response







Tank Deepening



Nonnative Fish Control



Crayfish Control



Filter Sock Installation





BEFORE



AFTER



08/28/2006



08/28/2006

Habitat Protection

- Wedge Fencing
 - Protect a portion of tank vegetation from livestock:
 - Floating vegetation = basking platforms
= hiding cover
 - Emergent vegetation = supports egg masses
 - Submergent vegetation = tadpole food



Removal of Encroaching Junipers



Obliteration of Unauthorized Roads



Captive Breeding & Re-introduction of Progeny

