Recovery Goals and Priorities for the Coming Fiscal Year

Desert Tortoise MOG Meeting

June 13, 2017
- Restore habitat
- Education
- Decrease predator access to human subsidies
- Targeted predator control
- Install and maintain tortoise barrier fencing
- Minimize grazing impacts
- Restore roads
- Sign and fence protected areas
- Withdraw mining
- Increase LE
- Install and maintain human barriers (WUI)
- Install and maintain human barriers (preserves)
- Manage disease in wild populations
- Sign designated routes
- Restore habitat (toxicants/unexploded ordnance)
- Fire management planning and implementation
- Manage disease in captive population
- Designate and close roads (travel mgmt plan)
- Speed limits
- Connect habitat (culverts/underpasses)
- Control dogs
- Landfill management
- Minimize wild horse and burro impacts
- Install and maintain tortoise barriers (open OHV areas)
- Restore habitat (garbage clean up)
- Land acquisition (old DSS model ranking)
- Restrict OHV events

**Frequency in Top 5 Recovery Action Types across TCAs**

- Rank 1
- Rank 2
- Rank 3
- Rank 4
- Rank 5
**MOG/RIT Project and Funding Cycle**

**DEC 6, 2016**
MOG Winter Meeting
- Project prioritization (from RITs)
- Annual recovery progress review
- Research review and priorities

**DEC 1**
- Project List Sent to MOG
  - Submitted to MOG for review prior to winter meeting

**OCT/NOV**
- RITs Prioritize Projects
  - Develop prioritized list of projects for MOG consideration

**JUL**
- RITs Solicit Next Year’s Projects
  - Based on MOG Priorities and Funding
  - Projects DUE: September 30

**FEB/MAR**
- Project Implementation Begins
  - Budgets Loaded

**APR 2016**
- RITs Review Project Priorities for Next Year
  - Develops Input for MOG
  - Begin Project Development

**MOG Summer Meeting**
- Identify recovery goals & priorities for next year
- Identify shared resources, funding opportunities and initiatives
<table>
<thead>
<tr>
<th>High-Priority RIT Project Concepts</th>
<th>R-W Rank</th>
<th>Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Mgmt in DT habitat: Awareness handout for firefighters</td>
<td>&gt;10</td>
<td>$6,000</td>
</tr>
<tr>
<td>Land acquisition in the RCDR</td>
<td>&gt;10</td>
<td>$?</td>
</tr>
<tr>
<td>Tortoise fencing - RCDR</td>
<td>11</td>
<td>$432,724</td>
</tr>
<tr>
<td>Burned Habitat Restoration in Beaver Dam Slope, Utah</td>
<td>1</td>
<td>$25,598</td>
</tr>
<tr>
<td>Fine fuel reduction &amp; native annual species diversity in burned tortoise habitat</td>
<td>1</td>
<td>$495,600</td>
</tr>
<tr>
<td>Burned DT habitat restoration</td>
<td>1</td>
<td>$820,000</td>
</tr>
<tr>
<td>Genomic and biogeographic analysis of <em>Mycoplasma agassizii</em> and <em>M. testudineum</em></td>
<td>Research</td>
<td>$249,686</td>
</tr>
<tr>
<td>Barrier Fencing: Hwy 58 in Fremont-Kramer and adjacent to Edwards AFB</td>
<td>5</td>
<td>$183,500</td>
</tr>
<tr>
<td>Closed Wash Fencing/Signing in Chuckwalla DWMA</td>
<td>8</td>
<td>$86,040</td>
</tr>
<tr>
<td>Barrier Fencing: I-40, N boundary of Ord-Rodman</td>
<td>5</td>
<td>$363,500</td>
</tr>
<tr>
<td>Meta-analysis of 4 Years of Raven Surveys</td>
<td>3/4</td>
<td>$?</td>
</tr>
<tr>
<td>Barrier Fencing: Hwy 395 in Fremont-Kramer, N of Kramer Junction</td>
<td>5</td>
<td>$1,803,500</td>
</tr>
<tr>
<td>Restore habitat (toxic waste) in N Fremont-Kramer and W edge of Superior-Cronese</td>
<td>&gt;10</td>
<td>$?</td>
</tr>
<tr>
<td>Reduce berm size along Bradshaw Trail in Chuckwalla</td>
<td>5</td>
<td>$72,480</td>
</tr>
</tbody>
</table>
MOG/RIT Project and Funding Cycle

DEC 6, 2016
MOG Winter Meeting
- Project prioritization (from RITs)
- Annual recovery progress review
- Research review and priorities

FEB/MAR
Project Implementation Begins
- Budgets Loaded

APR 2016
RITs Review Project Priorities for Next Year
- Develops Input for MOG
- Begin Project Development

JUL
RITs Solicit Next Year’s Projects
- Based on MOG Priorities and Funding
- Projects DUE: September 30

OCT/NOV
RITs Prioritize Projects
- Develop prioritized list of projects for MOG consideration

DEC 1
Project List Sent to MOG
- Submitted to MOG for review prior to winter meeting

MOG Summer Meeting
- Identify recovery goals & priorities for next year
- Identify shared resources, funding opportunities and initiatives
# Newly Funded Projects

<table>
<thead>
<tr>
<th>RIT and Other (non-RIT) Projects (rank)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>UVR: Fire mgmt in DT habitat: awareness handout for firefighters (16)</td>
<td>$6,000</td>
</tr>
<tr>
<td>Tortoise surveys in the UVR Recovery Unit (NA)</td>
<td>~$25,000</td>
</tr>
<tr>
<td>NV BLM: Genomic &amp; biogeographic analysis of <em>M. agassizii</em> &amp; <em>M. testudineum</em> (NA)</td>
<td>$249,686</td>
</tr>
<tr>
<td></td>
<td>$122,507</td>
</tr>
<tr>
<td>Native species seed hardening (1)</td>
<td>$50,000</td>
</tr>
<tr>
<td>Silver State plant replacement (1)</td>
<td>$325,000</td>
</tr>
<tr>
<td>Shrub transplant study (1)</td>
<td>$100,000</td>
</tr>
<tr>
<td>Soil crust study (1)</td>
<td>$150,000</td>
</tr>
<tr>
<td>Culvert study (20)</td>
<td></td>
</tr>
<tr>
<td>NV/WO BLM: Seeds of Success/common gardens/seed menus/seed grow-out (1)</td>
<td></td>
</tr>
<tr>
<td>Transition Habitat Conservancy partnership, CA: Habitat restoration (1)</td>
<td></td>
</tr>
<tr>
<td>CA REAT: Raven nest monitoring and management program (3/4)</td>
<td>$627,839</td>
</tr>
</tbody>
</table>
Range-wide Monitoring
Population Trends, 2004-14
Average Density, 2014
MOG/RIT Project and Funding Cycle

**DEC 1**
Project List Sent to MOG
- Submitted to MOG for review prior to winter meeting

**OCT/NOV**
RITs Prioritize Projects
- Develop prioritized list of projects for MOG consideration

**DEC 6, 2016**
MOG Winter Meeting
- Project prioritization (from RITs)
- Annual recovery progress review
- Research review and priorities

**FEB/MAR**
Project Implementation Begins
- Budgets Loaded

**APR 2017**
RITs Review Project Priorities for Next Year
- Develops Input for MOG
- Begin Project Development

**MOG Summer Meeting**
- Identify recovery goals & priorities for next year
- Identify shared resources, funding opportunities and initiatives

**JUL**
RITs Solicit Next Year’s Projects
- Based on MOG Priorities and Funding
- Projects DUE: September 30
- Restore habitat
- Education
- Decrease predator access to human subsidies
- Targeted predator control
- Install and maintain tortoise barrier fencing
- Minimize grazing impacts
- Restore roads
- Sign and fence protected areas
- Withdraw mining
- Increase LE
- Install and maintain human barriers (WUI)
- Install and maintain human barriers (preserves)
- Manage disease in wild populations
- Sign designated routes
- Restore habitat (toxicants/unexploded ordnance)
- Fire management planning and implementation
- Manage disease in captive population
- Designate and close roads (travel mgmt plan)
- Speed limits
- Connect habitat (culverts/underpasses)
- Control dogs
- Landfill management
- Minimize wild horse and burro impacts
- Install and maintain tortoise barriers (open OHV areas)
- Restrict OHV events

**Frequency in Top 5 Recovery Action Types across TCAs**

- Rank 1
- Rank 2
- Rank 3
- Rank 4
- Rank 5

**RITs**

- All RITs
- CA RIT
- UVR RIT
MOG/RIT Project and Funding Cycle

DEC 6, 2016
MOG Winter Meeting
- Project prioritization (from RITs)
- Annual recovery progress review
- Research review and priorities

DEC 1
Project List Sent to MOG
- Submitted to MOG for review prior to winter meeting

OCT/NOV
RITs Prioritize Projects
- Develop prioritized list of projects for MOG consideration

JUL
RITs Solicit Next Year's Projects
- Based on MOG Priorities and Funding
- Projects DUE: September 30

FEB/MAR
Project Implementation Begins
- Budgets Loaded

APR 2017
RITs Review Project Priorities for Next Year
- Develops Input for MOG
- Begin Project Development

JUN 13, 2017
MOG Summer Meeting
- Identify recovery goals & priorities for next year
- Identify shared resources, funding opportunities and initiatives

DEC 1
Project List Sent to MOG
- Submitted to MOG for review prior to winter meeting

OCT/NOV
RITs Prioritize Projects
- Develop prioritized list of projects for MOG consideration

JUL
RITs Solicit Next Year's Projects
- Based on MOG Priorities and Funding
- Projects DUE: September 30

FEB/MAR
Project Implementation Begins
- Budgets Loaded

APR 2017
RITs Review Project Priorities for Next Year
- Develops Input for MOG
- Begin Project Development

JUN 13, 2017
MOG Summer Meeting
- Identify recovery goals & priorities for next year
- Identify shared resources, funding opportunities and initiatives