



North-East Mojave Recovery Implementation Team

SE Nevada Workgroup Webinar

Desert Tortoise Recovery Office
June 27, 2012

Goals for RIT Workgroup Webinar



- Introductions among workgroup members
- Improved familiarity among members with SDSS outputs for your workgroup: prioritized broad recovery action types for your areas
- Your suggestions for site-specific recovery actions via the Recovery Action Proposal Tool for use at the in-person RIT meeting → 5-Year Action Plan

SE Nevada Workgroup Webinar



Webinar Structure

1. Introductions

2. Updates & Timelines

3. Threats & Recovery Action Rankings

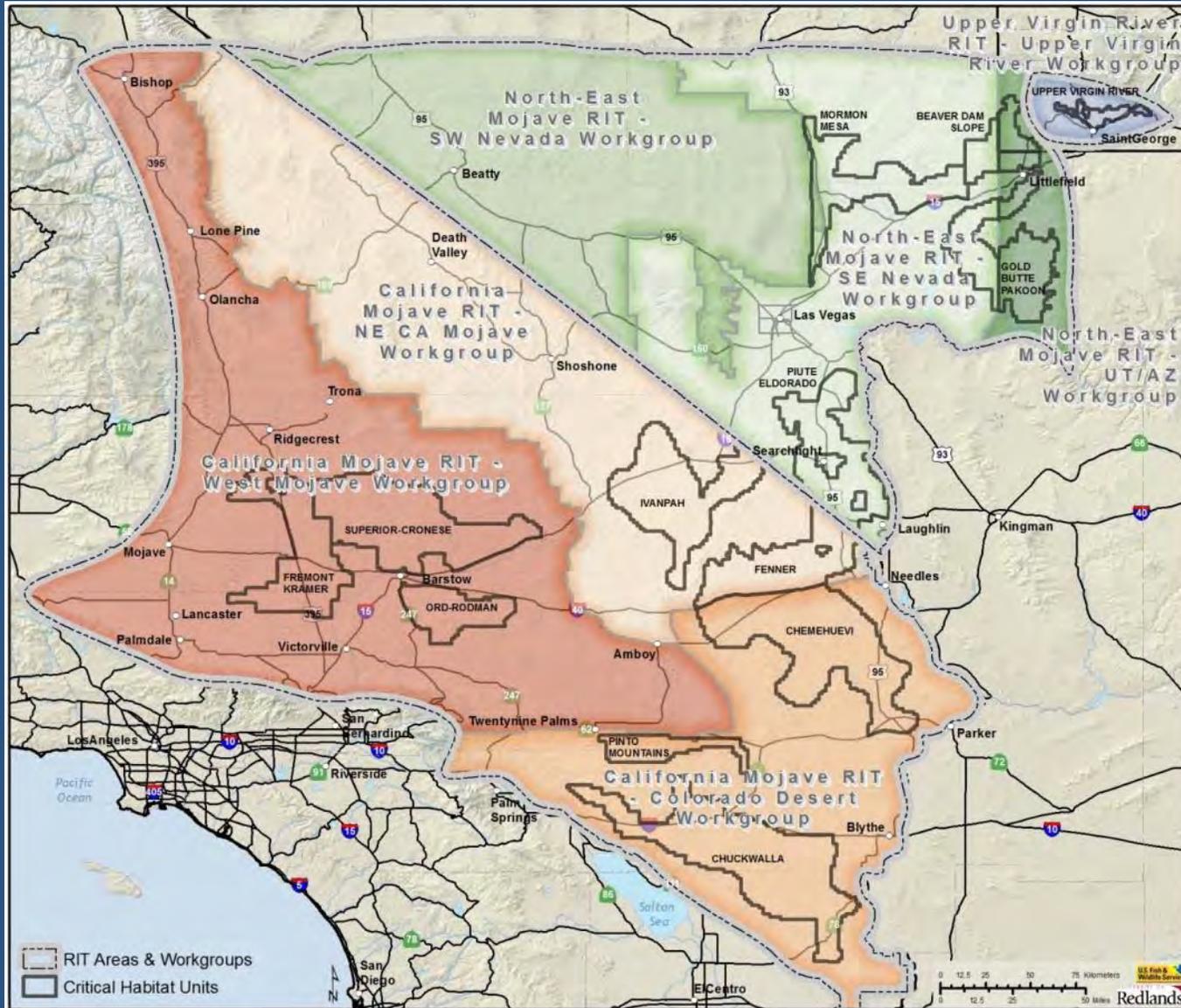
4. Online Recovery Action Proposal Tool

5. Next Steps

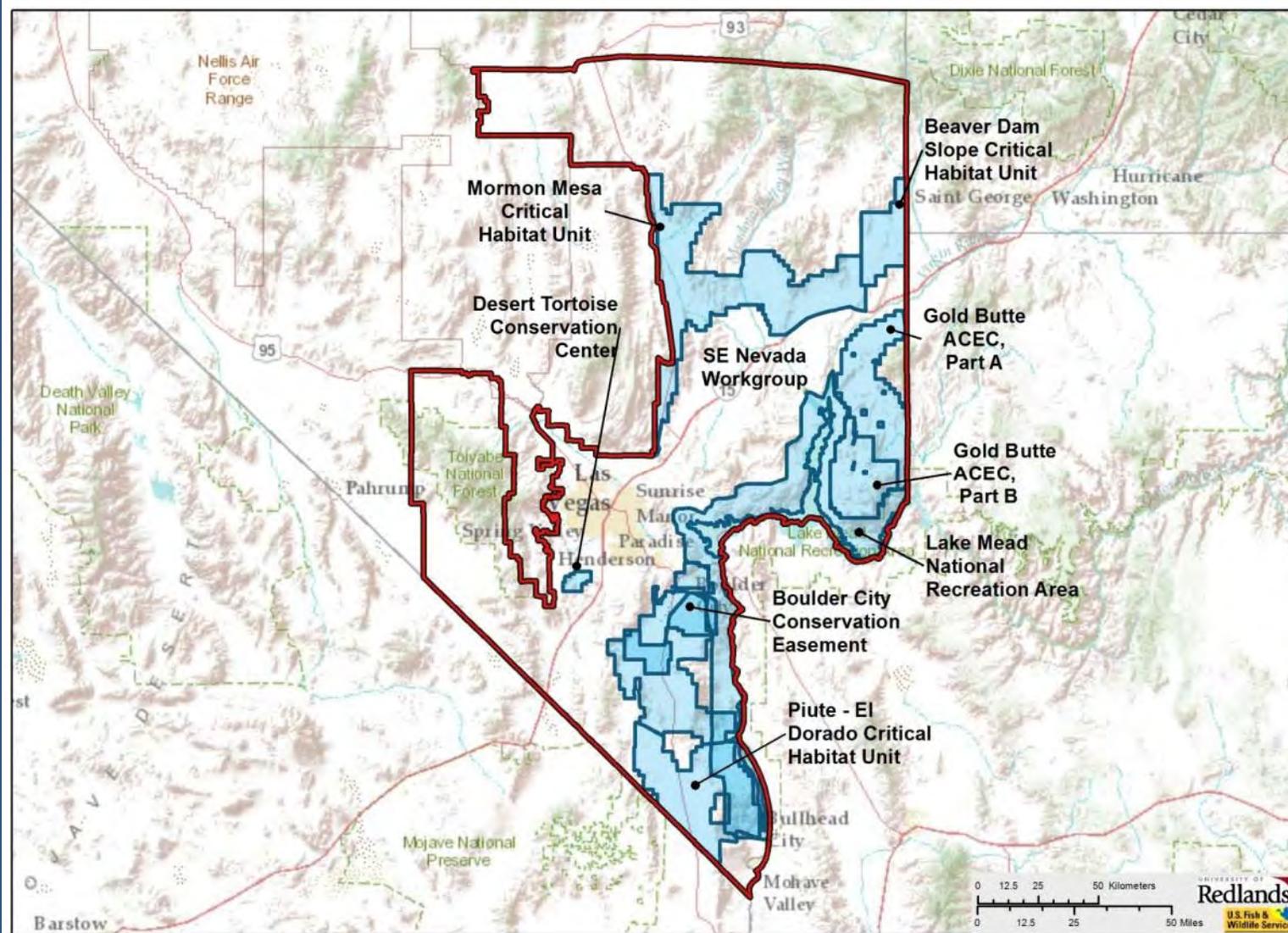


	Affiliation	Workgroup Members
Land Management	Lake Mead National Recreation Area	Ross Haley
Land Management	BLM, Caliente Field Office	Alicia Styles
Wildlife Management	Nevada Department of Wildlife	Cris Tomlinson
Wildlife Management	USFWS	Michael Burroughs & Jeri Krueger
Tribe	Moapa Paiute	Darren Daboda
Tribe	Timbisha Shoshone Tribe	vacant
Tribe	Las Vegas Paiute	vacant
County	Lincoln County	Ronda Hornbeck
County	Clark County	Marci Henson
Conservation Biology		vacant
Conservation Organization	Center for Biodiversity	Rob Mrowka
Resource Use	Southern Nevada Home Blders Assoc.	Joe Pantuso
Recreation	Dispersed Recreation/Recreation Trails	Elise McAllister

Recovery Implementation Teams



SE NV Workgroup Study Area



SW Nevada Workgroup Webinar



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Updates



- RITs Orientation Webinars: Late-March
- FAQs from webinars sent out April 17th
- Review by RIT members of SDSS model and data: Model Explorer & Data Explorer (early-May)

*We received a total of 168 comments ;
>30 new GIS datasets; 10 new references*

- Comments & Responses sent out May 31st
- Revisions completed to SDSS & Explorers: June 15th

RIT Terms of Reference



Comments received:

- Representation and voting procedures
- FACA and ESA compliance
- Conflict of interest
- Charter & Terms of Reference consolidation
- Confidentiality and comment attribution
- RIT Scheduling and time commitment
- Recovery Plan implementation & funding
- Role of SDSS

Revised document under development; will be shared prior to in-person meeting

Recovery Implementation Teams



Timeline for 2012

- ✓ Overall Orientation: First Webinar in late-March
- ★ Workgroup-specific: Second Webinar in late-June
- In-person Meeting late-fall to develop 5-Year Action Plans

NE Mojave RIT: Las Vegas

Recovery Implementation Teams



What happens after the first year?

- ~ 2-3 webinars/meetings each year to:
 - Report on implementation
 - Track change in threats
 - Assess what's been learned
 - Re-evaluate action plan as necessary

SE Nevada Workgroup Webinar



Questions?



SE Nevada Workgroup Webinar



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Goal of 1st In-Person Meeting

Development of 5-Year Action Plan for your Workgroup



- Your workgroup's recommendations for what specific actions should be undertaken for tortoise recovery in the next 5 years
- Provides guidance to agencies in their budgeting and planning processes
- Provides a prioritized menu of possible mitigation options which may be implemented as part of mitigation packages

Goal of 1st In-Person Meeting

Development of 5-Year Action Plan for your Workgroup



BACKGROUND

SDSS

- I. Ranked threats for workgroup's tortoise conservation areas & region
- II. Ranked recovery action types for workgroup's tortoise conservation areas & region

PRIORITIZED ACTION PLAN

- I. Prioritized site-specific recovery actions within ranked broad recovery action types

RITs

TRACKING & MONITORING PLAN

- I. Reporting requirements for recovery action implementation and maintenance
- II. Plan for supporting monitoring and research to assess action effectiveness

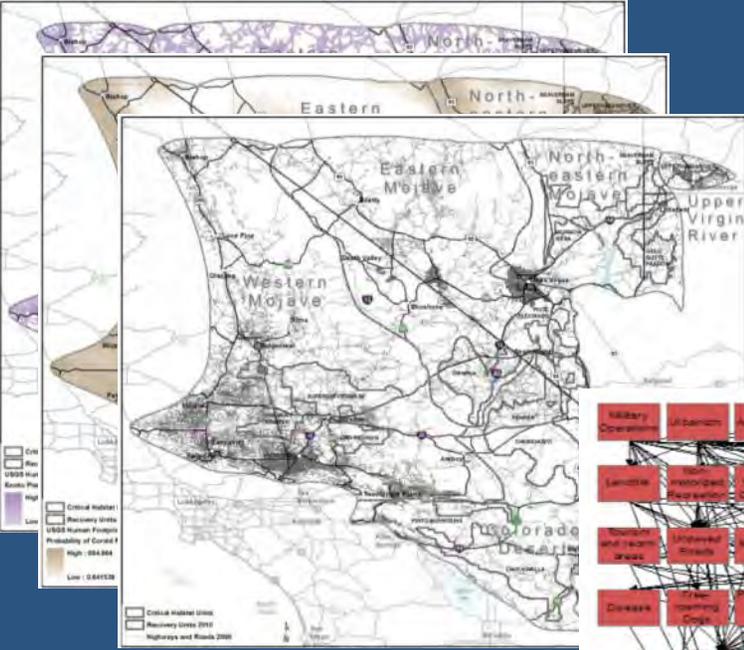
Spatial Threats

$$\int \Sigma x$$

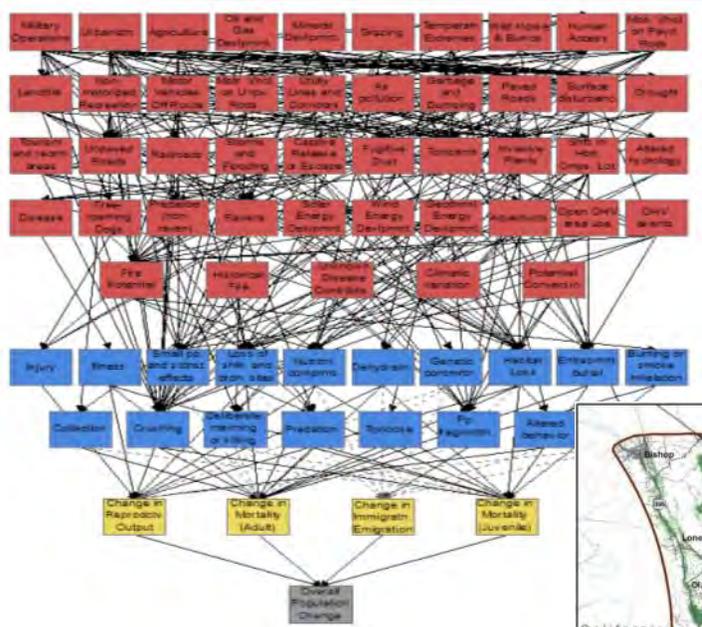
Impact of Threats

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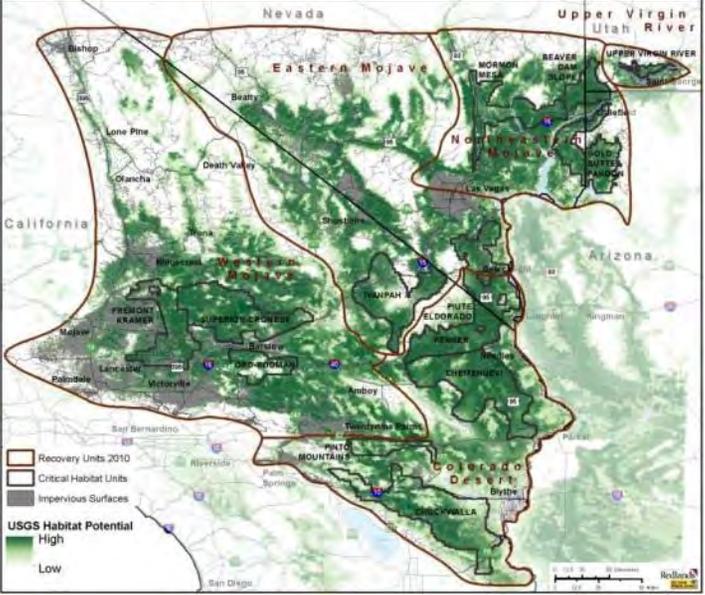
Risk to Population



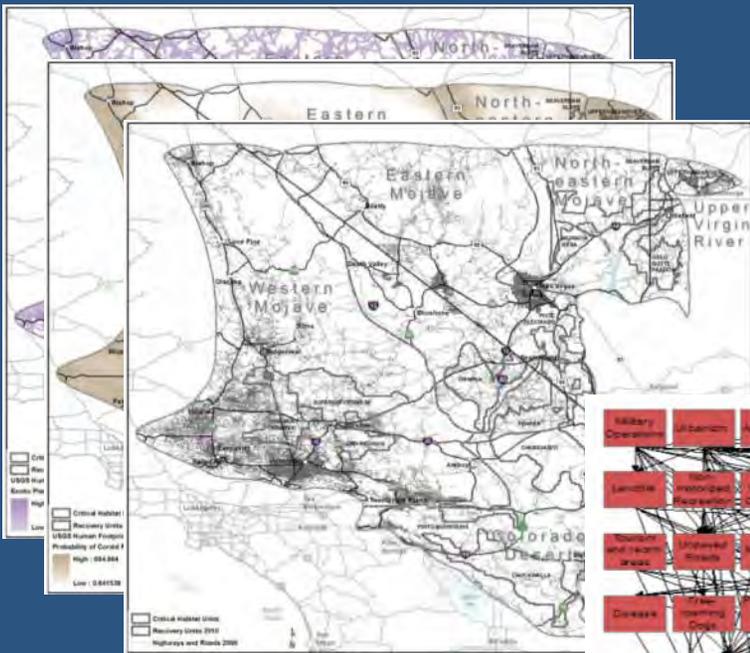
Spatial variation in threats



How threats effect tortoises



Where we expect tortoises to occur



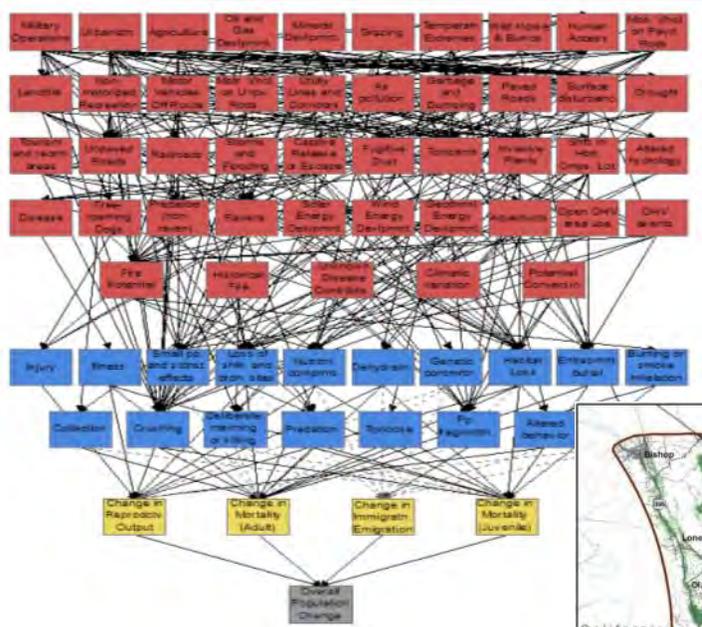
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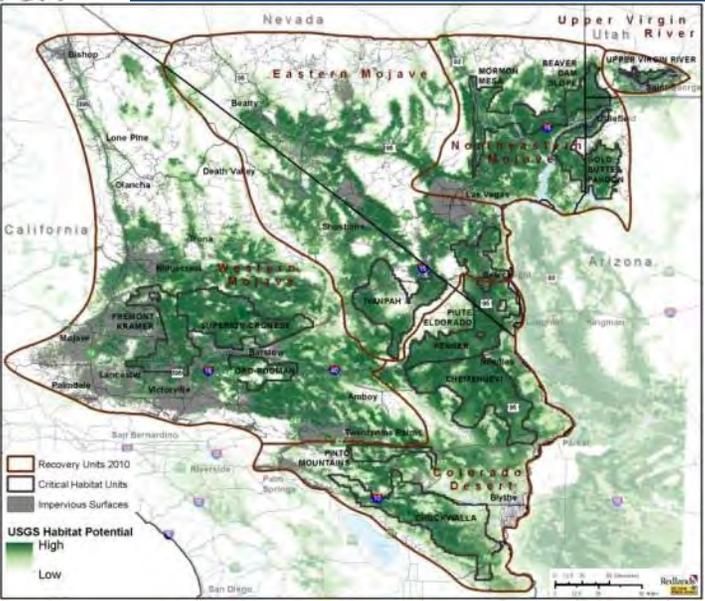
Risk to Population



Spatial variation in threats
Data Explorer

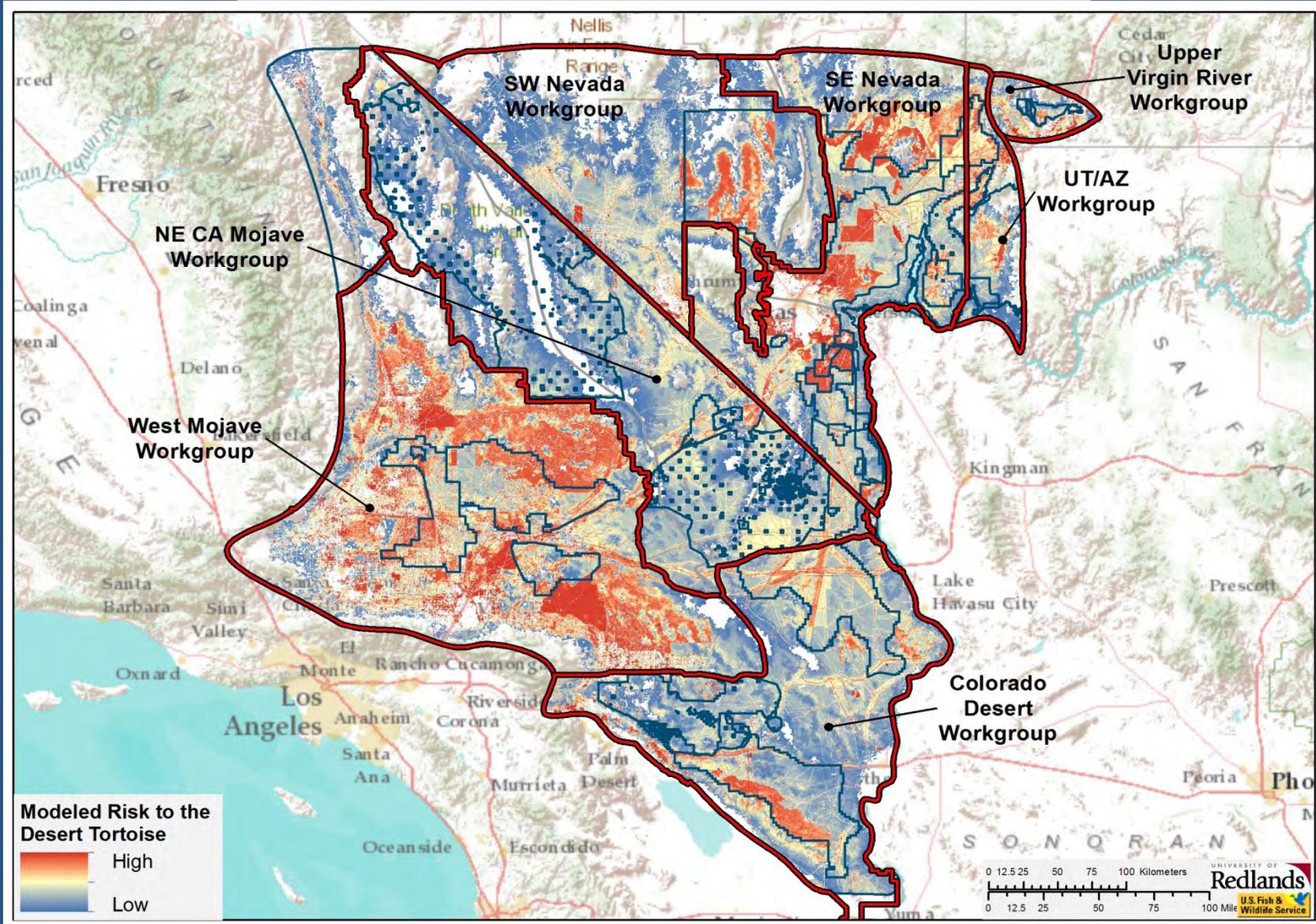
Revised based on RIT review!

How threats effect tortoises
Model Explorer



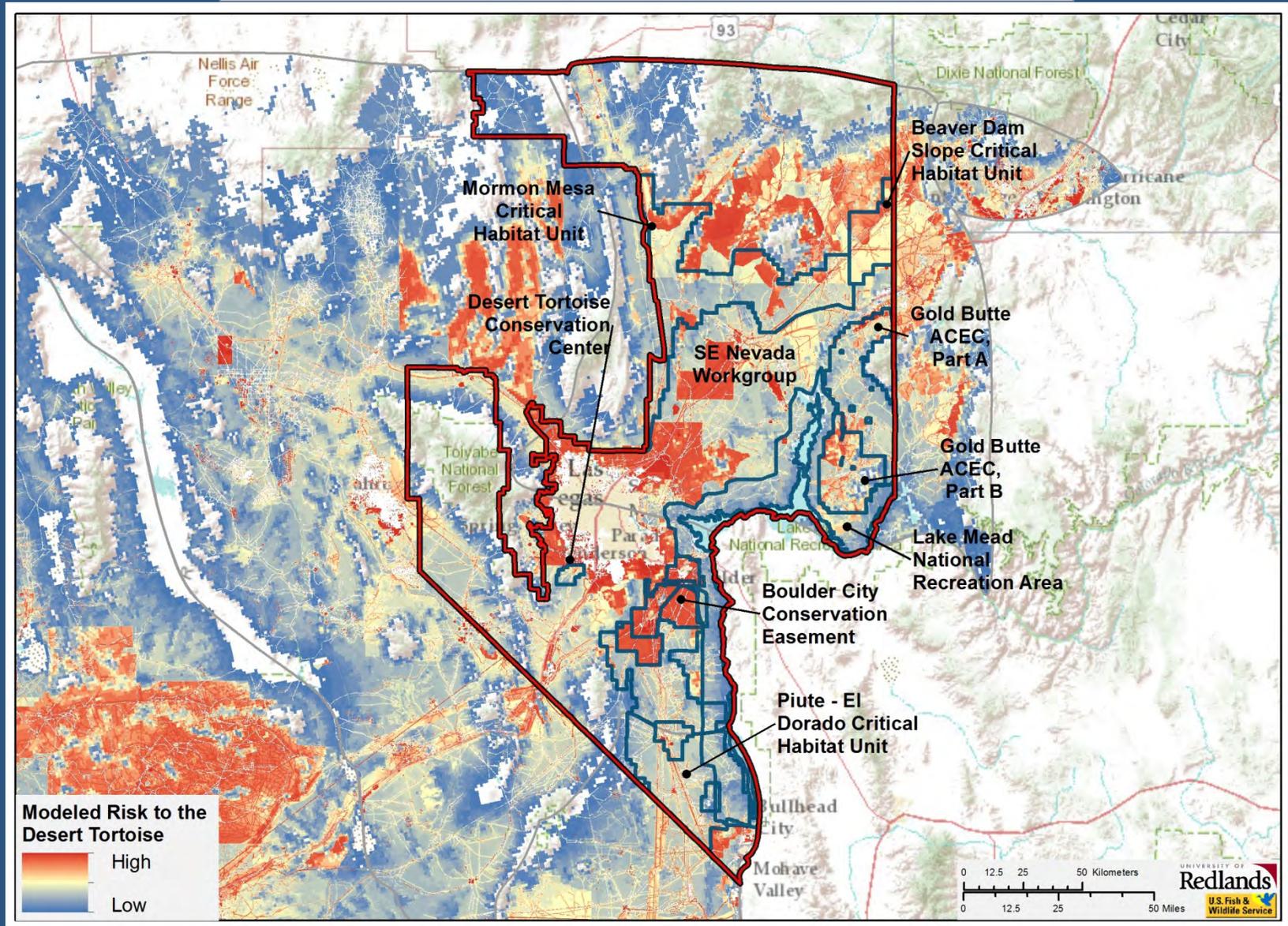
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Aggregate Population Risk to Tortoises

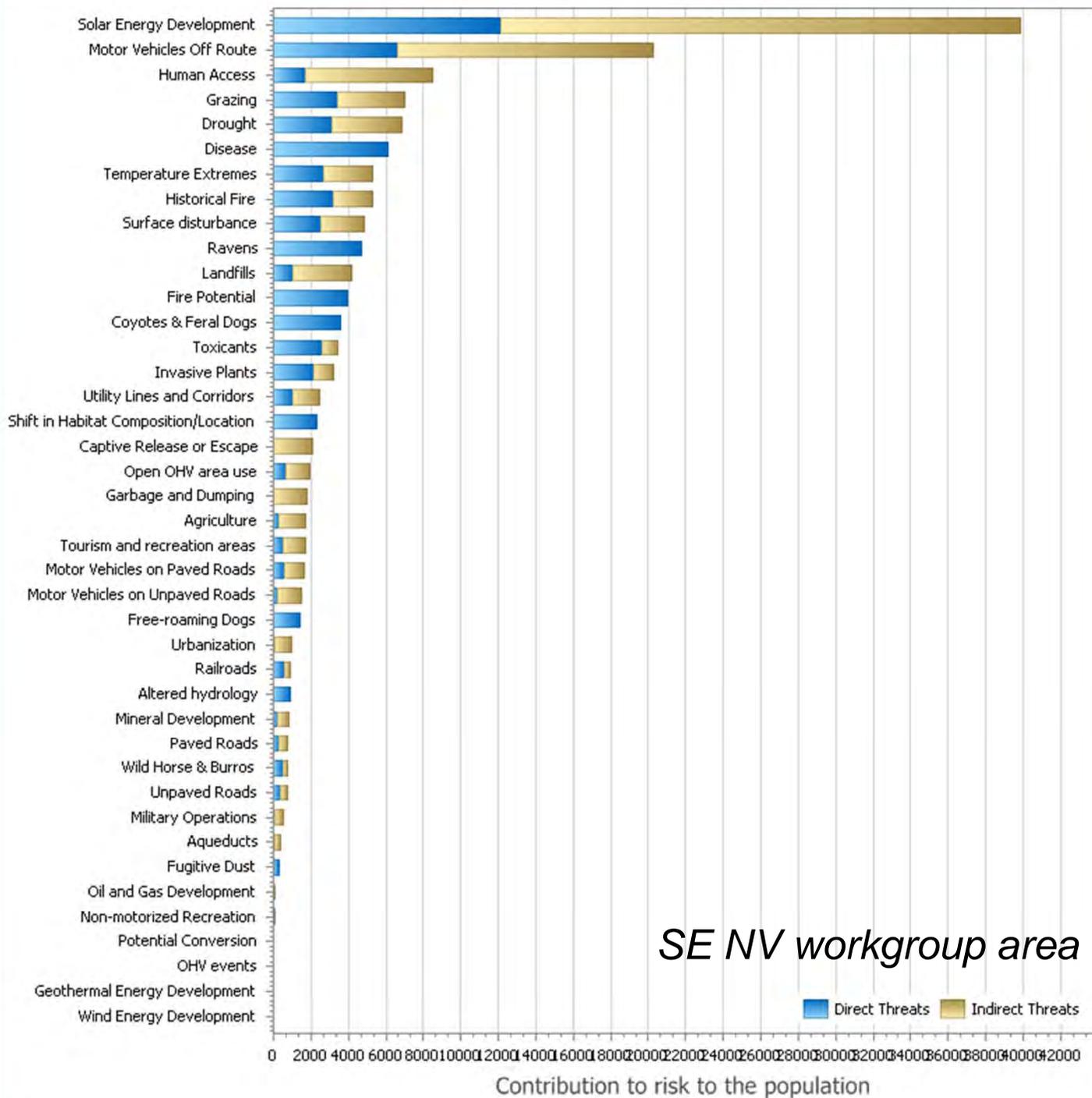


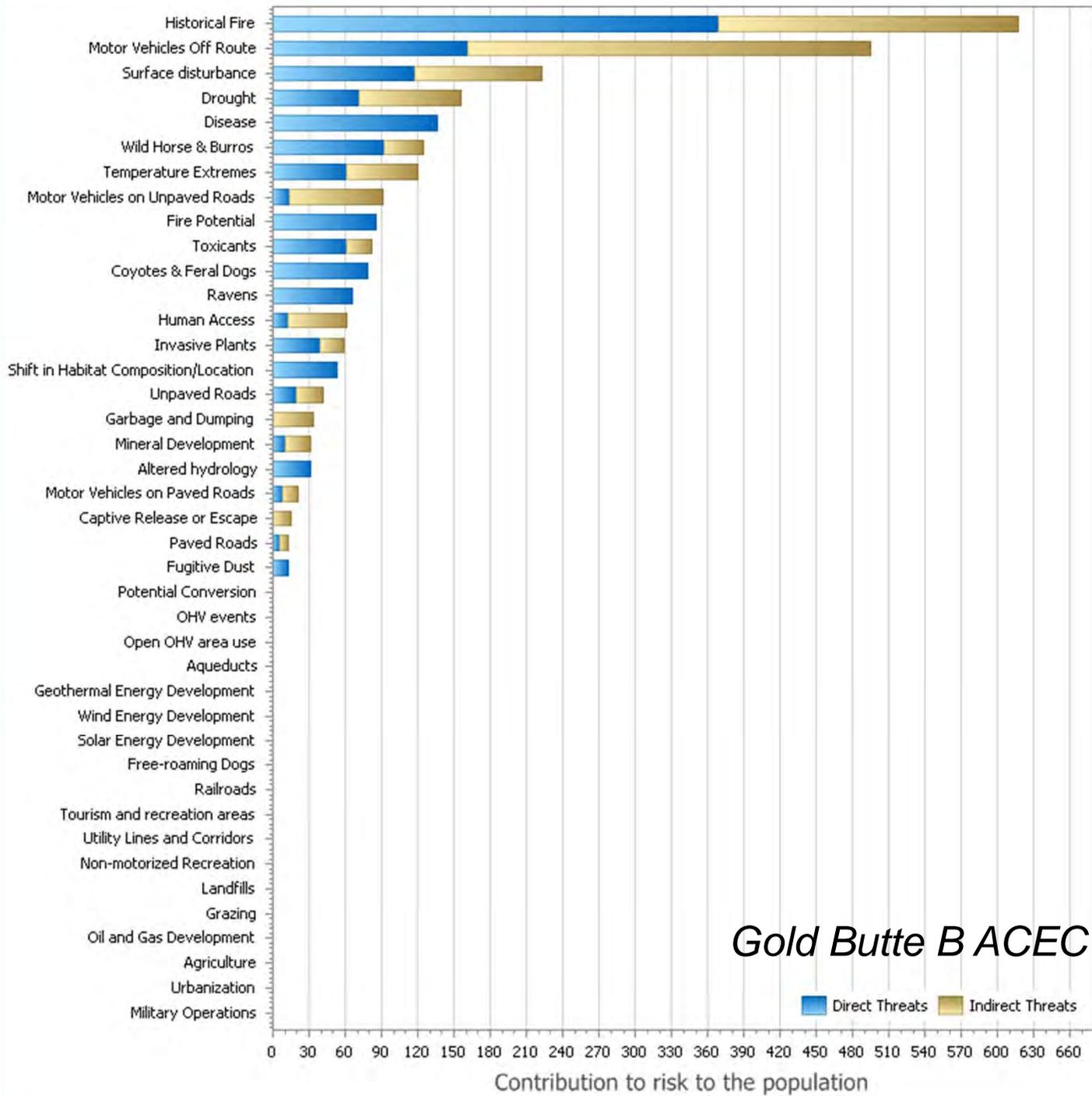
Aggregate contribution from all threats to risk to the tortoise

Aggregate Population Risk to Tortoises



Aggregate contribution from all threats to risk to the tortoise



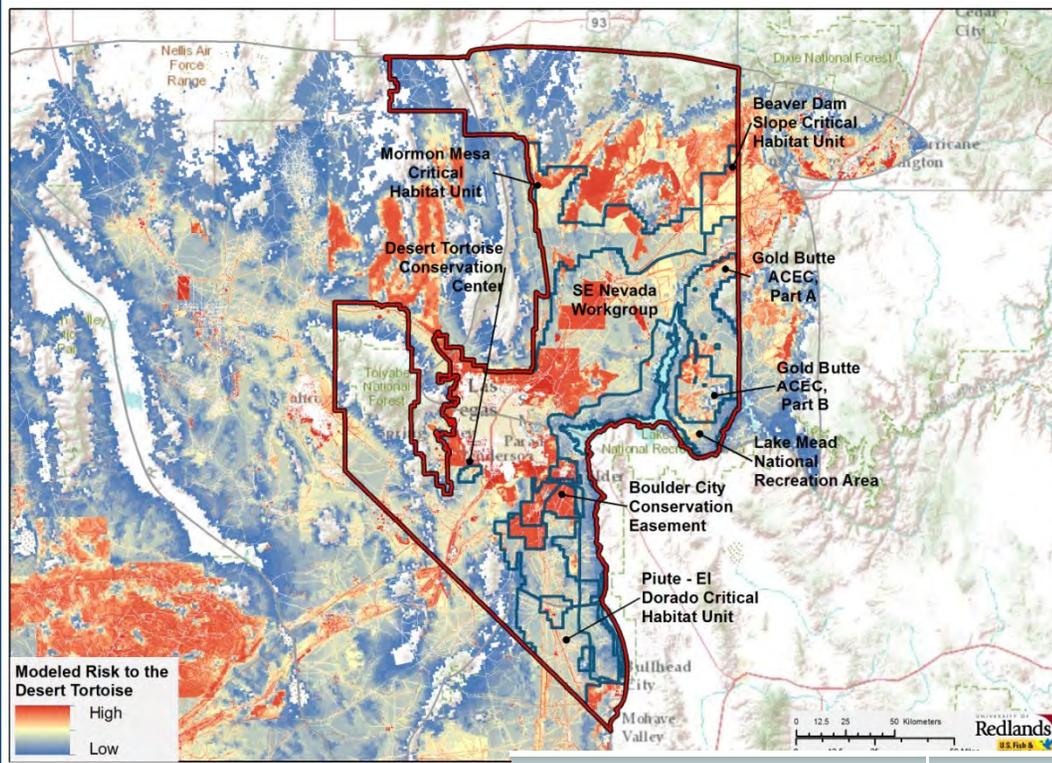


Rank	Southeast Nevada	Beaver Dam Slope (CHU)	BCCE	DTCC	Gold Butte, Part A (ACEC)	Gold Butte, Part B (ACEC)	Lake Mead NRA	Mormon Mesa (CHU)	Piute - El Dorado (CHU)
1	Solar Energy Development	Grazing	Solar Energy Development	Human Access	Agriculture	Historical Fire	Drought	Motor Vehicles Off Route	Motor Vehicles Off Route
2	Motor Vehicles Off Route	Historical Fire	Motor Vehicles Off Route	Invasive Plants	Drought	Motor Vehicles Off Route	Disease	Grazing	Drought
3	Human Access	Human Access	Surface disturbance	Drought	Disease	Surface disturbance	Temperature Extremes	Drought	Human Access
4	Grazing	Drought	Toxicants	Disease	Human Access	Drought	Ravens	Disease	Disease
5	Drought	Disease	Utility Lines & Corridors	Ravens	Temperature Extremes	Disease	Human Access	Human Access	Temperature Extremes
6	Disease	Temperature Extremes	Human Access	Utility Lines & Corridors	Ravens	Wild Horse & Burros	Coyotes & Feral Dogs	Temperature Extremes	Ravens
7	Temperature Extremes	Ravens	Drought	Temperature Extremes	Invasive Plants	Temperature Extremes	Fire Potential	Surface disturbance	Utility Lines and Corridors
8	Historical Fire	Utility Lines & Corridors	Fire Potential	Fire Potential	Historical Fire	Motor Vehicles on Unpaved Roads	Historical Fire	Ravens	Fire Potential
9	Surface disturbance	Coyotes & Feral Dogs	Disease	Coyotes & Feral Dogs	Fire Potential	Fire Potential	Shift in Habitat Comp/Loc	Fire Potential	Surface disturbance
10	Ravens	Fire Potential	Garbage and Dumping	Shift in Habitat Comp/Loc	Coyotes & Feral Dogs	Toxicants	Invasive Plants	Coyotes & Feral Dogs	Coyotes & Feral Dogs

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Risk to Population

$$\int \sum x$$

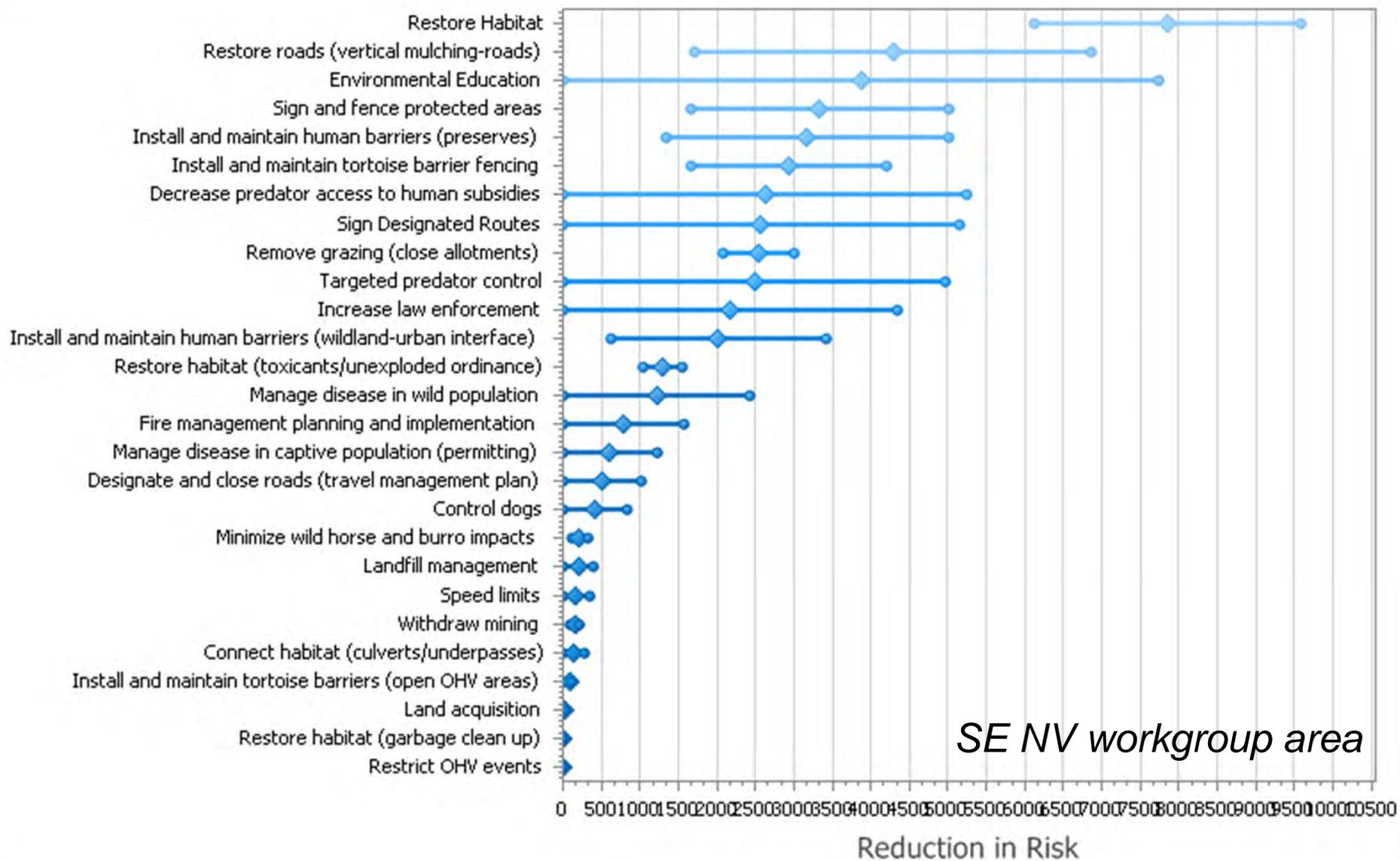


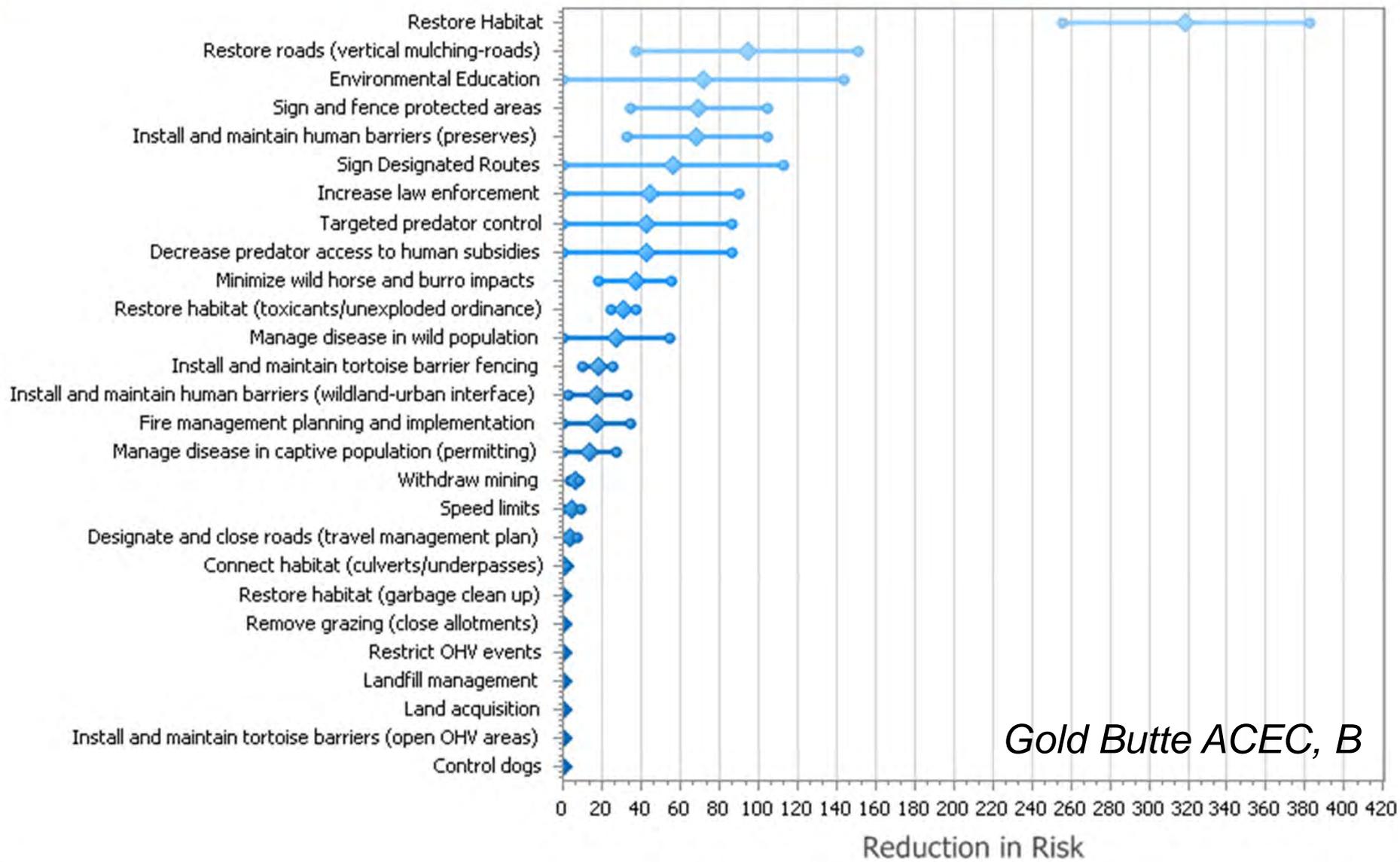
Action Effectiveness

Aggregate Population Risk

Recovery Action Types/ Threat–Stress	Predation– Ravens	Crushing–Cars on Paved Roads	Collection– Human access	Nutritional comp–Invasive Plants
Designate & Close Routes	0	0	3	0
Install & Maintain Tortoise fencing	0	5	0	0
Environmental Education	1	2	3	0
Decrease Predator Access to Subsidies	3	0	0	0
Increase Law enforcement	0	2	2	0
Habitat Restoration	0	0	0	4

Estimates how individual recovery actions effect threat–stress links





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1	Restore Habitat	Restore Habitat	Install and maintain tortoise fencing	Restore Habitat	Restore Habitat	Restore Habitat	Decrease predator access to subsidies	Restore Habitat	Restore Habitat
2	Restore roads (vertical mulching)	Remove grazing	Restore roads (vertical mulching)	Decrease predator access to subsidies	Decrease predator access to subsidies	Restore roads (vertical mulching)	Restore Habitat	Remove grazing	Restore roads (vertical mulching)
3	Environmental Education	Decrease predator access to subsidies	Restore Habitat	Targeted predator control	Targeted predator control	Environmental Education	Targeted predator control	Restore roads (vertical mulching)	Environmental Education
4	Sign and fence protected areas	Targeted predator control	Sign and fence protected areas	Environmental Education	Environmental Education	Sign and fence protected areas	Environmental Education	Environmental Education	Decrease predator access to subsidies
5	Install and maintain human barriers: preserves	Environmental Education	Install and maintain human barriers: preserves	Install and maintain human barriers (WUI)	Install and maintain human barriers (WUI)	Install and maintain human barriers: preserves	Manage disease in wild population	Sign and fence protected areas	Targeted predator control
6	Install and maintain tortoise barrier fencing	Manage disease in wild population	Sign Designated Routes	Increase law enforcement	Manage disease in wild population	Sign Designated Routes	Increase law enforcement	Install and maintain human barriers: preserves	Sign and fence protected areas
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Goal of 1st In-Person Meeting



Development of 5-Year Action Plan for your Workgroup

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- II. Ranked recovery action types for workgroup's tortoise conservation areas & region

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RITs

TRACKING & MONITORING PLAN

- I. Reporting requirements for recovery action implementation and maintenance
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Questions?



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2. Update & Timelines
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Online Recovery Action Proposal Tool



Recovery Action Proposal Tool - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Recovery Action Proposal Tool

www.spatial.redlands.edu/dtro/rit/ProposalTool.aspx?wg=7

data explorer model explorer

Desert Tortoise Recovery RA Proposal Tool

Welcome cat_darst@fws.gov | Logout

Welcome to the Recovery Action Proposal Tool. Use this site to propose specific actions that you think should be implemented for desert tortoise recovery in the next five years. Actions are submitted under the associated recovery action type, which are listed in order of expected benefit to tortoise recovery. Please spend more of your effort developing proposals for highly ranked action types, also considering the range of effectiveness indicated in the chart associated with each planning area. Although less effective action types are accessible here, due to the low return estimated for these actions, it is not expected that they will be adopted by the workgroup without particular justification, such as being important preconditions for future implementation of higher priority recovery actions. For each proposed action, please provide the specific location, area, and/or number of activities. Please provide enough detail about what should be implemented and where, so that all proposals can be easily assessed by your workgroup during the prioritization process.

You are a member of multiple workgroups. Please select a workgroup:

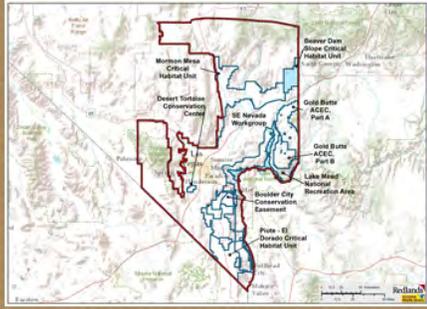
West Mojave Upper Virgin River Northeast California Mojave Utah/Arizona Southwest Nevada Colorado Desert **Southeast Nevada**

Workgroup: Southeast Nevada

[Click here to see a table comparing top ranked threats and recovery action types](#)

Select an area:

- ▶ **Beaver Dam Slope (Critical Habitat Unit)**
 - Boulder City Conservation Easement
 - Desert Tortoise Conservation Center
 - Gold Butte, Part A (ACEC)
 - Gold Butte, Part B (ACEC)
 - Lake Mead Natl Recreation Area
 - Mormon Mesa (Critical Habitat Unit)
 - Piute - El Dorado (Critical Habitat Unit)
 - Southeast Nevada



Ranked recovery action types for Beaver Dam Slope (Critical Habitat Unit)

Recovery action types below are ranked based on their expected ability to decrease risk to the tortoise in Beaver Dam Slope (Critical Habitat Unit). Please type your specific proposals for actions within this tortoise conservation area below the action type, one action at a time. For each proposed action, please provide details to describe location, area, and /or number of activities.

[Click here to see the chart of ranked threats and recovery action types for this area](#)

- 1) Restore Habitat (no proposed actions)
- 2) Remove grazing (close allotments) (no proposed actions)
- 3) Targeted predator control (no proposed actions)

<http://www.spatial.redlands.edu/dtro/rit/proposaltool.aspx>

Online Recovery Action Proposal Tool



Examples of the necessary specificity for proposed recovery actions in the RA Proposal Tool

- 1.) **Habitat Restoration:** Within burned habitat in Gold Butte, establish 40-acre plots (total 1,600 acres) to create "fertile islands" to act as seed banks from which native plants can disperse.
- 2.) **Install & Maintain Tortoise Barrier Fencing:** Install ~20 miles of desert tortoise barrier fencing along each side of Highway 247 between the Mojave National Preserve's Barstow Office and the Lucerne Valley Cutoff Road
- 3.) **Increase Law Enforcement:** Fund two dedicated law enforcement officers to patrol the Gold Butte Pakoona ACEC
- 4.) **Restore roads:** Identify and close all unauthorized (i.e., not designated as "open" on BLMs travel management plan) routes within the Ivanpah DWMA through use of vertical mulching or vehicle barriers (~50 miles)
- 5.) **Remove grazing:** Purchase the base property for the Lazy Daisy allotment (~310,000 acres) and retire the allotment's grazing permit

SE Nevada Workgroup Webinar



Questions?



SE Nevada Workgroup Webinar



Webinar Structure

1. Introductions
2. Updates & Timelines
3. Threats & Recovery Action Rankings
4. Online Recovery Action Proposal Tool
5. Next Steps



Next Steps



- **Deadline:** August 10th → when workgroup members need to have actions submitted to RA Proposal Tool
- Chris & Cat are available if you have questions as you enter specific actions in the RA Proposal Tool
- In-person Meeting: Late-Fall → options: end of October or beginning of December
- Look for follow-up email from us with doodle poll for in-person meeting dates!