

Overview





The Adaptive Management Program:

- Provides objective, science-based approach to the implementation of the MSHCP
- Helps direct expenditures
- Leads projects that further the MSHCP
- Ensures an adaptive management approach to all management actions



Overview





Biological Goals and Objectives for the Clark County, NV Multiple Species Habitat Conservation Plan - Final

Prepared for the:



desert conservation

PROGRAM

4701 W. Russell Rd.

Las Vegas, NV, 89118

2013-TERRA-1410B-D10

Prepared by:

The Science Advisor Panel for the Desert Conservation Program:

TerraGraphics Environmental Engineering, Inc.

108 W. Idaho Ave. Kellogg, ID 83837



www.terragraphics.com









University of Idaho

June 22, 2016

Adaptive Management and Monitoring Plan



desert conservation

Prepared for:

Desert Conservation Program 4701 W. Russell Rd.

Las Vegas, NV, 89118

2013-TERRA-1410B-D17

Prepared by:

The Science Advisor Panel for the Desert Conservation Program:

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University of Idaho

January 9, 2017





Riparian Reserve Units

- 4 Goals
- 11 Objectives
- 26 projects over the last year



Desert Reserve Units

- 4 Goals
- 13 Objectives
- 35 projects over the last year







Biological Goals and Objectives for the Riparian Reserve Units

BGO's for Riparian Reserve Units





Goal R 1. Maintain, improve, and expand habitat for the MSHCP-covered species on riparian reserve system lands

Objectives:

R 1.1: Monitor species occupancy

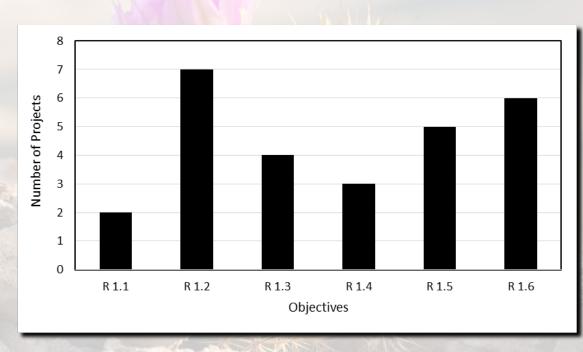
R 1.2: Maintain/increase habitat

R 1.3: Incorporate elements of natural riparian processes

R 1.4: Control invasive plant species

R 1.5: Reduce habitat fragmentation/improve connectivity

R 1.6: Acquire riparian property



R 1.3 Incorporate Elements of Natural Riparian Design





Thermal refugia of the riparian reserves



https://inletkeeper.org/our-work/healthy-habitat/cold-water-refugia/

Plant pollinators



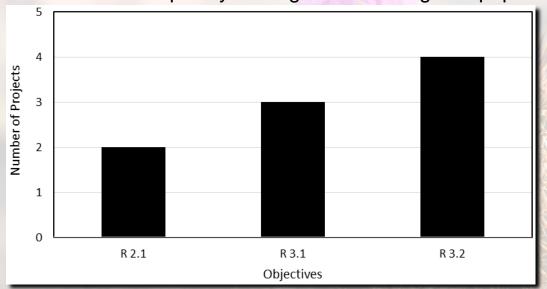
BGO's for Riparian Reserve Units





Goal R 2. Maintain stable or increasing populations of T&E species

Objectives: R 2.1: Monitor and adaptively manage for breeding bird populations



Goal R 3. Foster community and stakeholder engagement

Objectives: R 3.1: Collaborate with other stakeholders

R 3.2: Promote responsible recreation

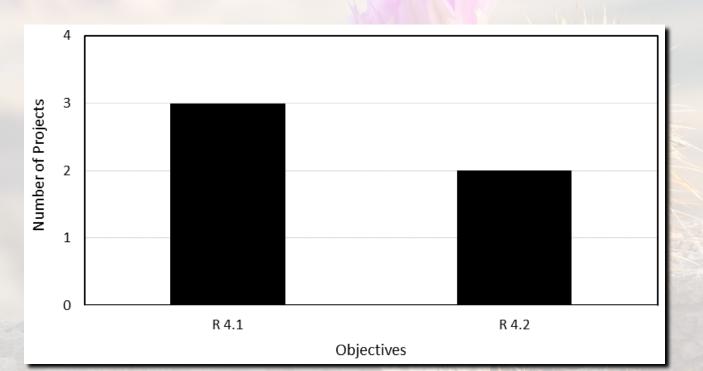
BGO's for Riparian Reserve Units





Goal R 4. Promote ecological resiliency on riparian reserve system lands

Objectives: R 4.1: Identify critical uncertainties R 4.2: Identify critical connectivity corridors

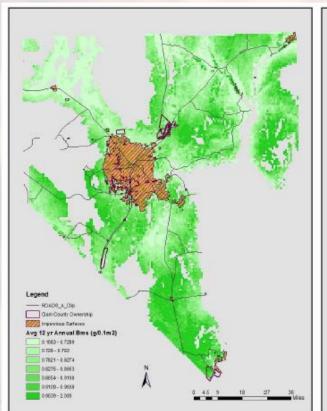


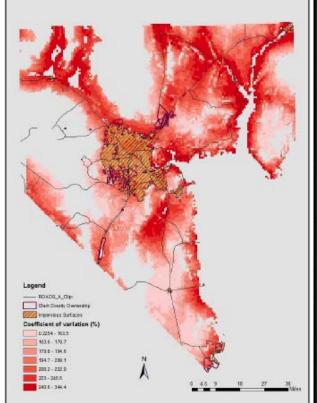
R 4.1 Identify Critical Uncertainties





Fire risk modeling









Biological Goals and Objectives for the Desert Reserve Units

BGO's for Desert Reserve Units





Goal D 1. Maintain, improve, and expand habitat for MSHCP-covered species on desert upland reserve system lands

Objectives:

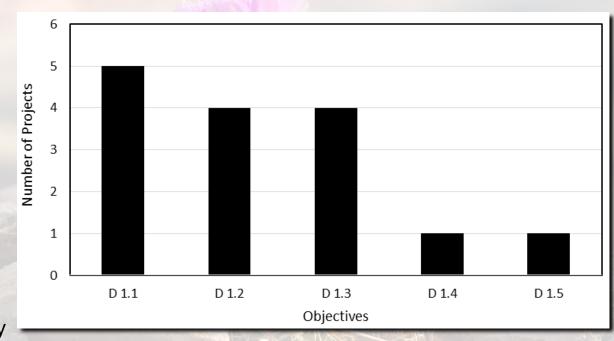
D 1.1: Monitor species occupancy

D 1.2: Maintain existing habitat and restore degraded habitat

D 1.3: Protect habitat for covered plants

D 1.4: Control invasive plant species

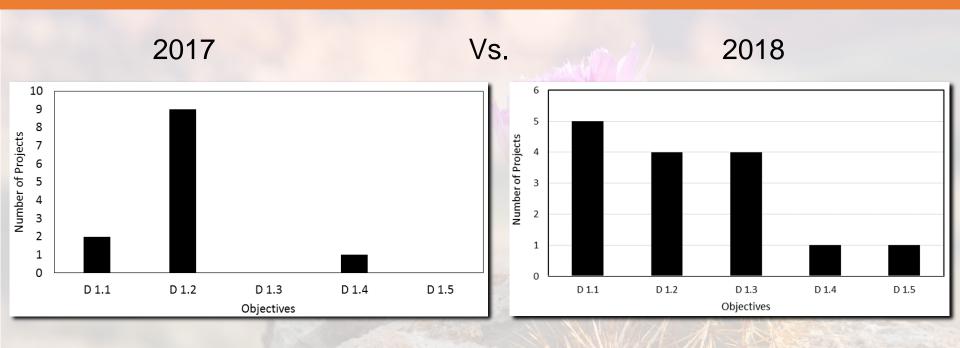
D 1.5: Reduce habitat fragmentation/improve connectivity



Year to Year Comparison of Goal D1







D 1.4: Control invasive plant species





Brome reduction in Trout Canyon





BGO's for Desert Reserve Units



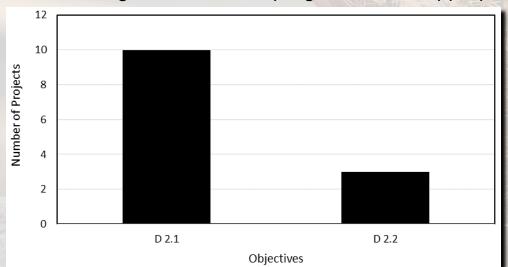


Goal D 2. Maintain stable/increasing populations of T&E species on reserve system lands

Objectives:

D 2.1: Monitor and adaptively manage for desert tortoise populations

D 2.2: Augment populations through translocation programs when appropriate



D 2.2: Augment populations through translocation





September 2017 Release

- 38 adult tortoises
 - 36 from USGS studies
 - 2 removed from construction sites
- 16 tortoises affixed with radio transmitters
 - Current total of 45 tortoises
 - 28 translocated
 - 17 residents
- All tortoise received health assessments before release.



D 2.2: Augment populations through translocation





Propagation and reintroduction of rare plant species







BGO's for Desert Reserve Units





Goal D 3. Foster community and stakeholder engagement

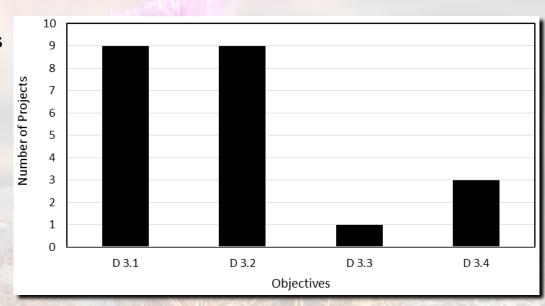
Objectives:

D 3.1: Collaborate with other stakeholders

D 3.2: Promote responsible recreation

D 3.3: Provide law enforcement

D 3.4: Educate construction personnel about procedures for reporting tortoises and provide a mechanism for collection and relocation



D 3.2 and D 3.4





Tortoise and plant OHV awareness



Construction worker training



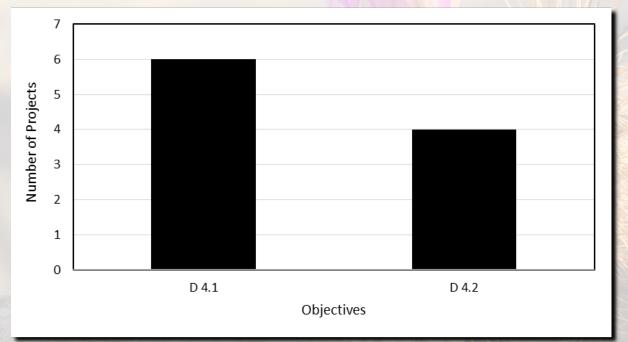
BGO's for Desert Reserve Units





Goal D 4. Promote ecological resiliency on desert upland reserve system lands

Objectives: D 4.1: Identify critical uncertainties D 4.2: Identify critical connectivity corridors



D 4.1 Identify Critical Uncertainties





Tortoise movement across culverts





Photos provided by Kerry Holcomb

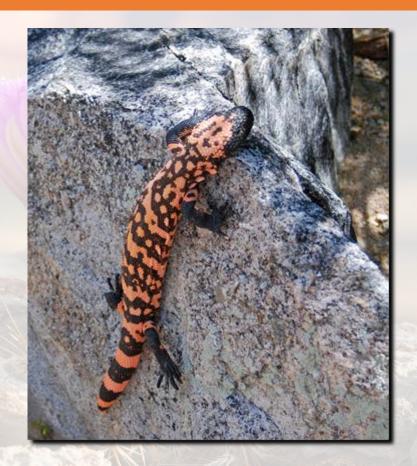
D 4.2 Identify Critical Connectivity Corridors





Gila monster connectivity









THANK YOU TO THE PERMITEES















Questions?











Y'all pronounce it data or data?



I'm mad that I read these words in two different ways... but you're trippin if you think it's data and not data

A FLOCK OF LAWN FLAMINGOS CAN PICK A T-REX CLEAN IN UNDER 90 SECONDS



Kevin: "Hey Jeff, are you koalafied to be a cameraman?"

Jeff: "My career is not a joke, Kevin."

