Desert Tortoise Monitoring PROJECT NUMBER: 2013-GBI-1450A PROJECT NUMBER: 2013-GBI-1450B

Great Basin

Institute

AGENCY PARTICIPANTS





This work was supported by the Clark County Desert Conservation Program and Southern Nevada Public Land Management Act as project to further implement or develop the Clark County Multiple Species Habitat Conservation Plan





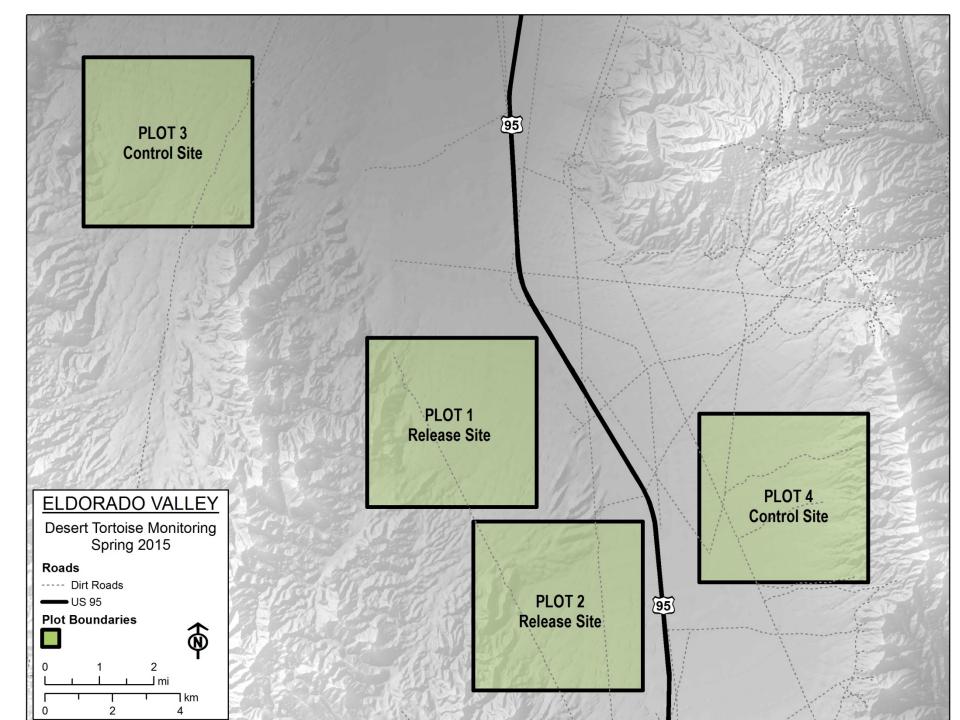
PROJECT NUMBER: 2013-GBI-1450A

Eldorado Desert Tortoise Monitoring Year 0

PROJECT OVERVIEW



- Monitor the effectiveness of translocation
- Compare two control sites to two release sites



SUMMARY OF PROJECT TO DATE

- Crew members were provided training prior to the season
- Crew members conducted practice transect to ensure adherence to protocols
- All surveys completed and data submitted to DCP for Year 1

TRANSECTS

- Collect data on resident and translocated tortoises for Year 1 after translocation (Years 2 -2016)
- 5 km parallel transects oriented east and west and 50 m apart
- Data recorded included location, sex, MCL, BCS and tags
- Unmarked tortoises were tagged

Surveys completed from 7 April - 28 May 2015

- Four plots completed, 400 transect lines walked, in plot order 1-4
- 88 Total live tortoises found, 85 survey tortoises
 - 75 transect live tortoise observations(63 new, 12 recaptures)
 - 10 opportunistic tortoise observations (7 new, 3 recaptures)
- 76 Total carcasses found
 - 74 transect carcass observations (1 with tag, 3 with notches)
 - 2 opportunistic carcass observations

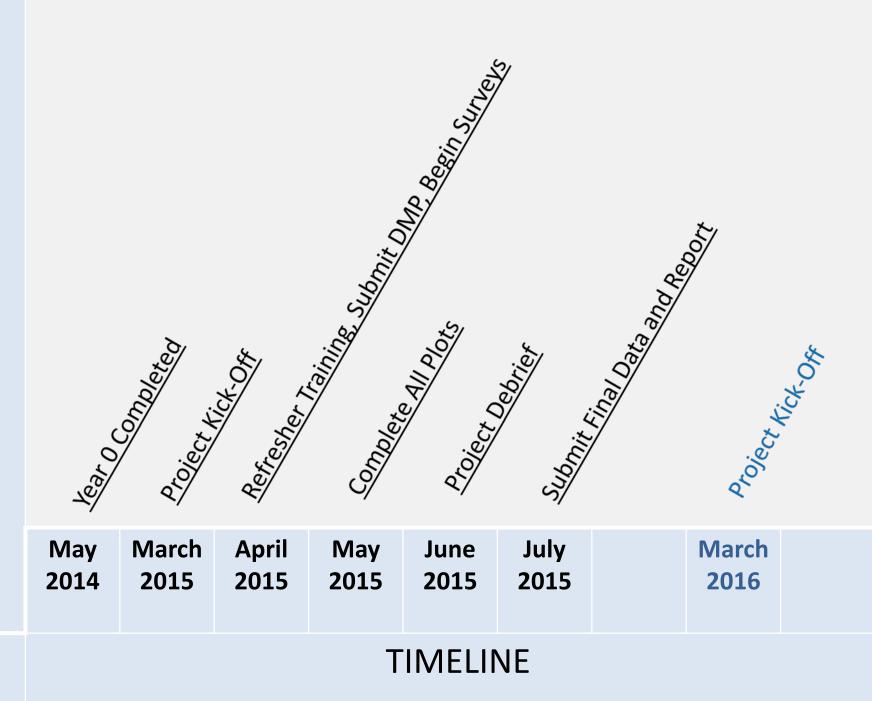
TELEMETRY

 Conducted telemetry at one site in Piute Valley to estimate the proportion of tortoises active or visible during transect surveys. Data used to calibrate the results of transect surveys

Telemetry monitored from 6 April - 28 May 2015

Average number of observations = 42.2/day

- 12-15 previously transmittered tortoises monitored
- 1605 total observations over 38 days



PROJECT NUMBER: 2013-GBI-1450B

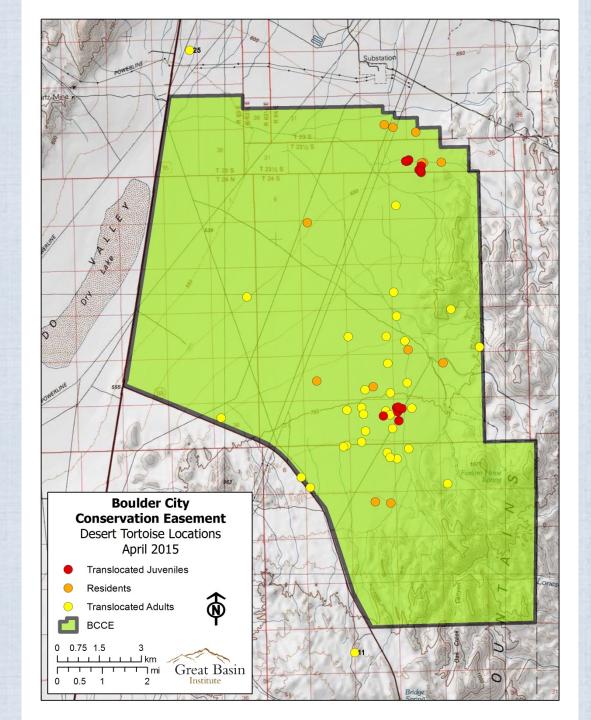


Boulder City Conservation Easement Desert Tortoise Telemetry Year 1

PROJECT OVERVIEW



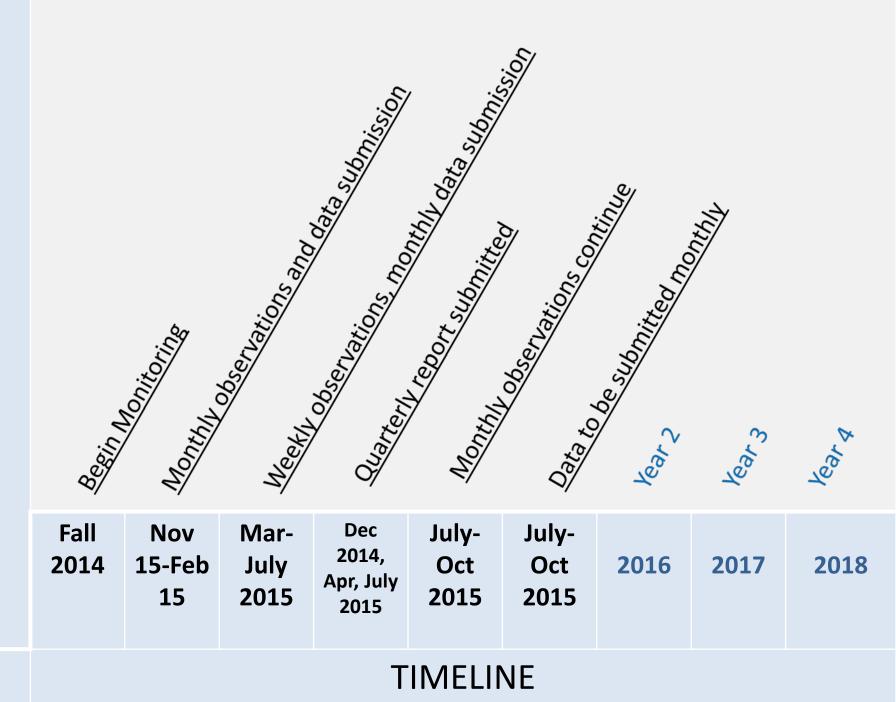
- PART OF A LARGER POPULATION AUGMENTATION STUDY
- DETERMINE SURVIVORSHIP AND MOVEMENT PATTERNS OF TRANSLOCATED AND RESIDENT DESERT TORTOISE
 MONITOR FOR FOUR YEARS POST TRANSLOCATION



SUMMARY OF PROJECT TO DATE



- Monthly observations Nov-Feb, Weekly observations Mar-Oct
- Transmittered 13 Resident, 40 Translocated tortoises
- Currently
 - 13 Resident tortoises
 - 28 Translocated tortoises (12 dead)



VALUE TO MSHCP IMPLEMENTATION

OBJECTIVE 1: Collect transect and telemetry data on resident tortoises

CURRENT MSHCP CONSERVATION EFFORT: Protect existing desert tortoise populations and monitor to detect trends

OBJECTIVE 2: Collect transect and telemetry data on resident and translocated tortoises for 2 years after translocation

CURRENT MSHCP CONSERVATION EFFORT: Improve effectiveness of translocation methods and monitoring



THANK YOU

QUESTIONS?

(Permission to use photographs provided by The Great Basin Institute)