

Project Map May 2016

Project Timeline

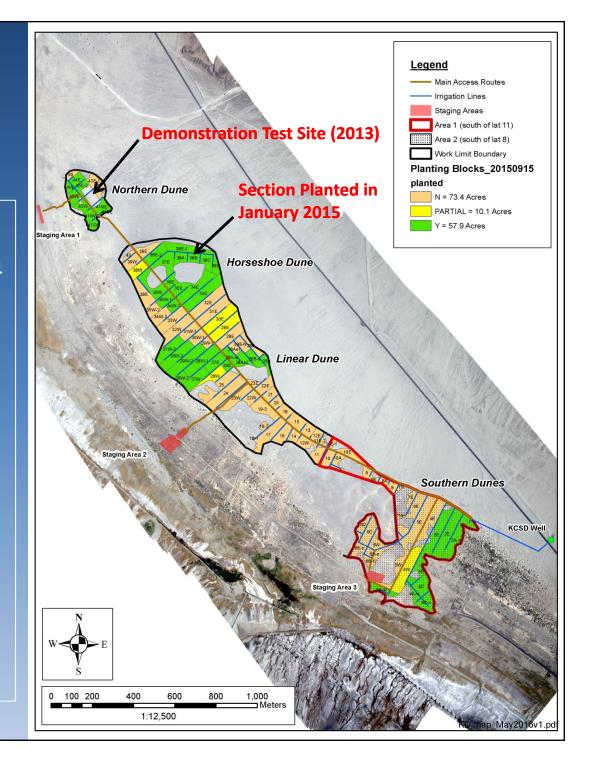
2013: Demonstration Test

2014-2016: Main Project Construction

- Year 1 = October 2014 May 2015
 - ~66,000 bales (80%)
 - ~15,000 plants (5%)
- Year 2 = Oct 2015 February 2016
 - ~16,000 bales
 - ~60,000 plants (36% complete)

2016-2017: Future Project Schedule

- Plant remainder of northern portion of project in Fall-Winter 2016/17. (97,000 plants)
- Implement revised project design for Southern Dunes in Fall 2016 with planting in Fall 2017.

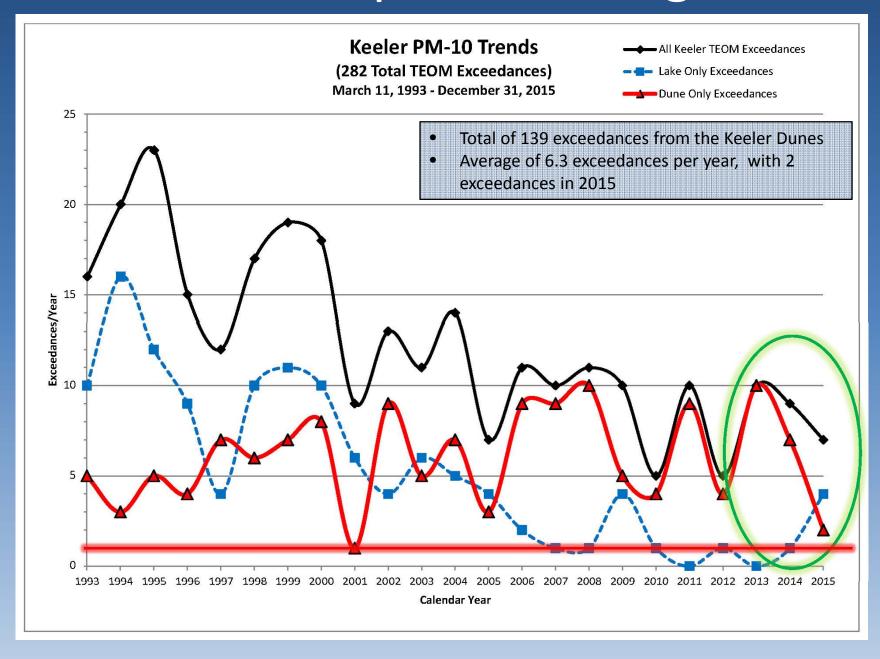


Project Successes

- Reduction in PM10 levels in Keeler
- Increase in wildlife in the dunes
- Natural recruitment of native shrubs in the dunes

Project Goal: Reduce PM10 in Keeler by trying to re-establish a natural stable self-sustaining dune system. This process takes time.

Keeler PM10 Update Through 2015



Wildlife in the Dunes

Critter Cameras and Tracks

- Kangaroo rat
- Black-tailed jackrabbit
- Common Raven
- Savannah sparrow
- Le Conte's thrasher
- Kit fox
- Lesser Goldfinch
- Coyote

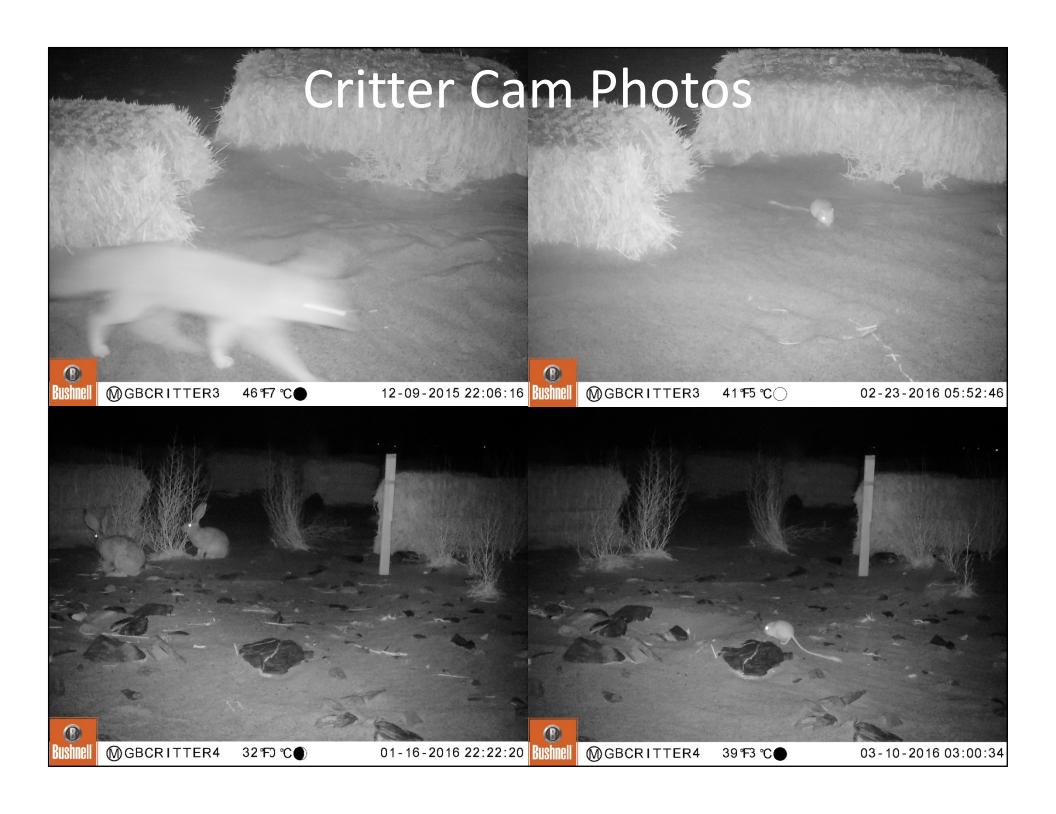
- Loggerhead shrike
- Western side-blotched lizard
- Southern Desert horned lizard
- White tailed antelope squirrel
- Great Basin whiptail lizard
- Dune weevil
- Ringtail cat

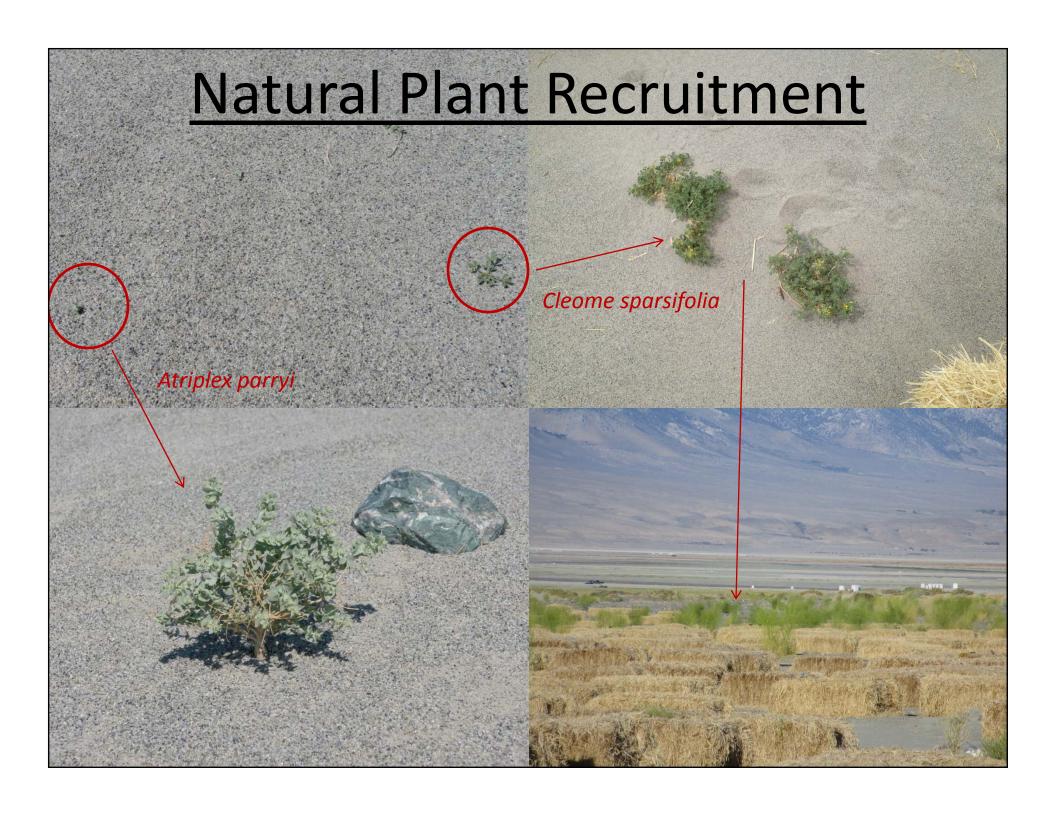
Photo Summary

- 511 days of operation
- 789 wildlife photos
- 695 night photos
- 94 day photos

Video Summary

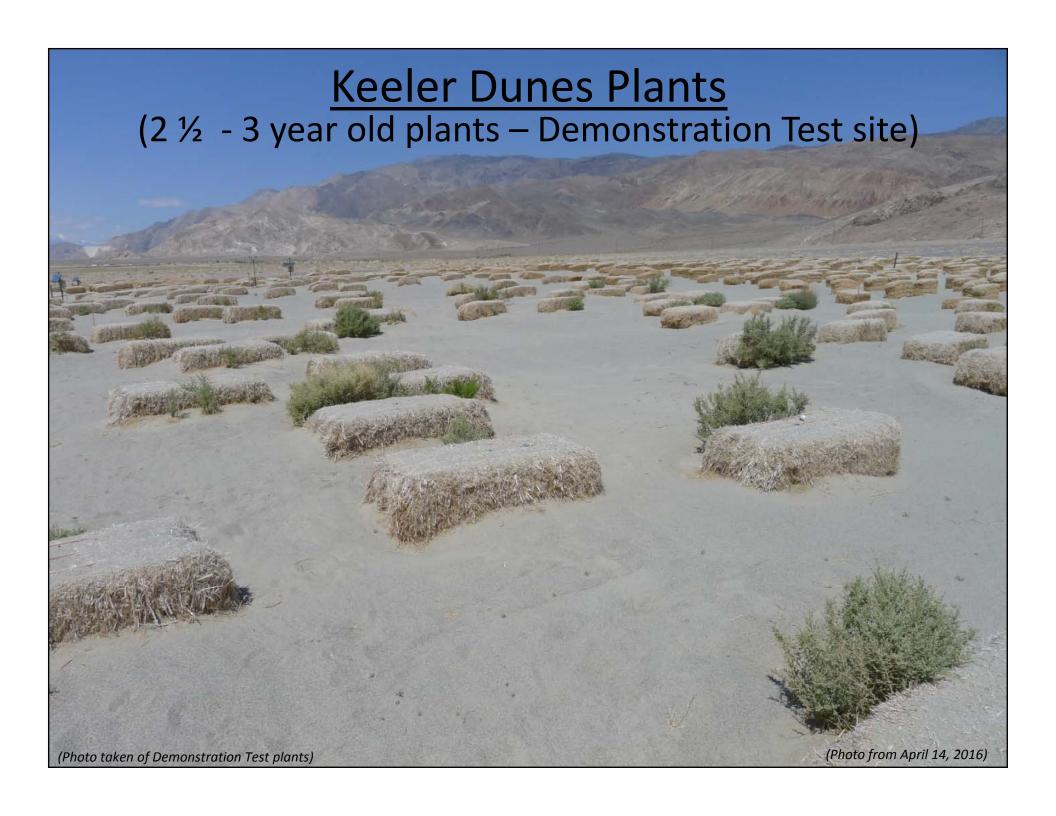
- 258 days of operation
- 371 wildlife videos
- 352 night videos
- 19 day videos

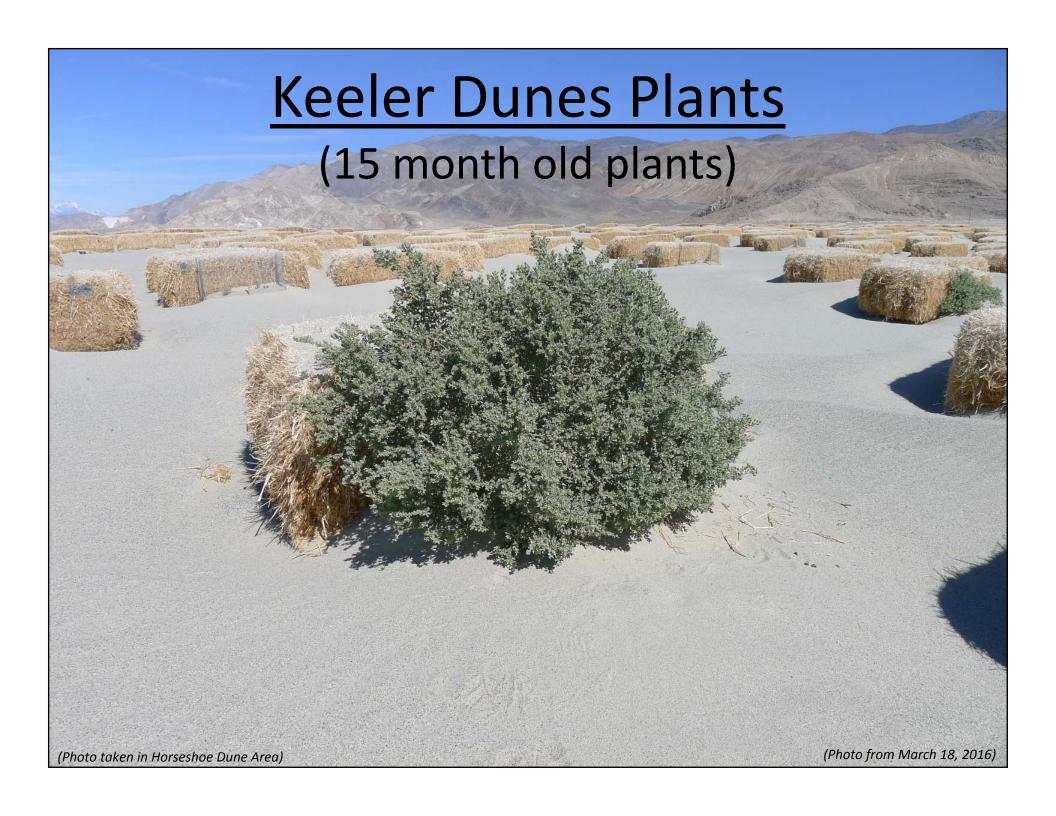


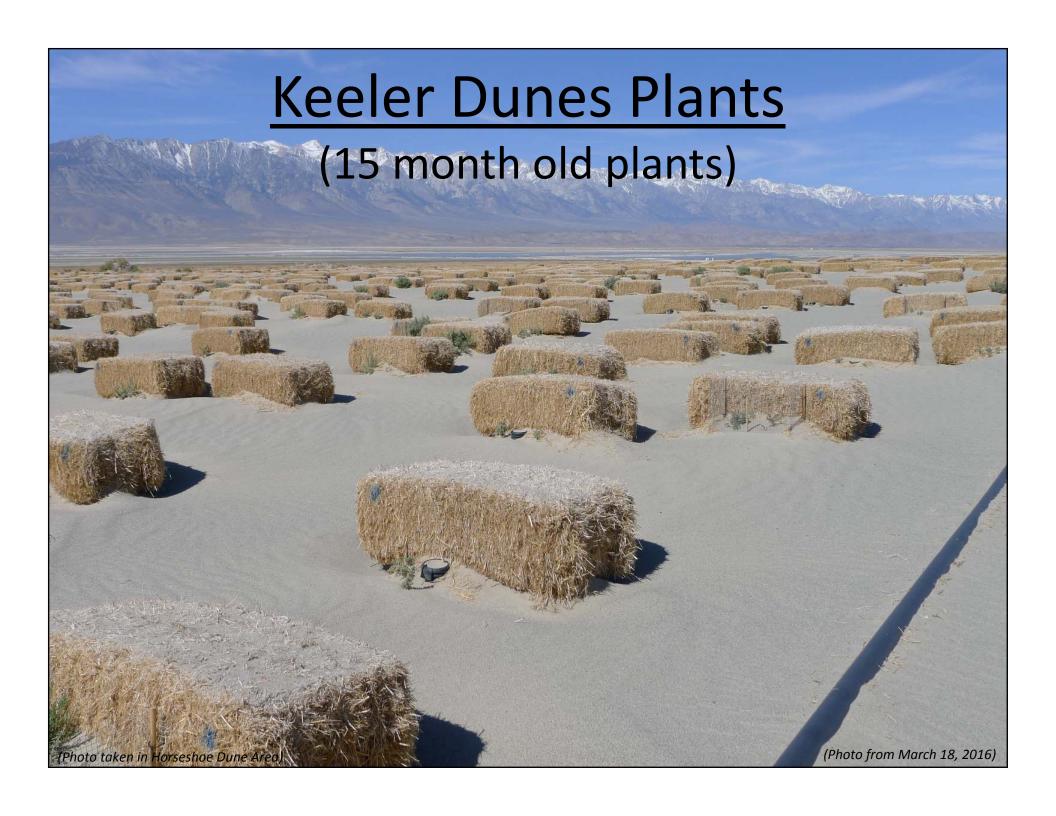


Keeler Dunes Plants

- 5 species of native shrubs
- Planting Phases
 - 1. Demonstration Test Project (2013 2014) Successful!
 - 2. Northern portion of main project (January 2015) Successful!
 - 3. 4 areas of main project (Fall and Winter 2015/16). *Successful in Northern Project!*
 - 4. Fall 2016 grow-out of 97,000 plants for northern project area (in progress).
 - 5. Fall 2017 Southern Dunes??







Dust Control of Southern Dunes

- Original control strategy is not meeting project goals.
- Revised project design is being developed.
- Current redesign concept uses larger roughness elements (bale mounds vs single bales).
 - Small test started in January 2016.
 - Working with BLM to get permission for expanded bales mound test.
 - Considering planting larger plants within mound array.

