

Date of Issuance: June 2, 2022

DESERT CONSERVATION PROGRAM PROJECT COMPLETION SUMMARY:

SPECIES DISTRIBUTION MODELING, PHASE II

2013-UNR-1460E

The work for the above referenced project has been completed. Below is a summary of project related information.

The purpose of the above referenced project was:

The purpose was to create species distribution models [SDMs] for 17 species proposed for coverage under the amended MSHCP.

The major accomplishments or findings of this project include:

- Re-writing modeling code to produce more cohesive modeling results for individual variable influences, and model response curves among modeling algorithms
- Designation of a modeling area that encapsulates a geographic buffer of the county boundary, and creation and downscaling of environmental layers used for species modeling to a standard 250m grid within the area.
- Completed SDMs for the following species:
 - Desert tortoise (*Gopherus agassizii*)
 - Loggerhead shrike (*Lanius ludovicianus*)
 - LeConte's thrasher (*Toxostoma lecontei*)
 - Gilded flicker (*Colaptes chrysoides*)
 - Bendire's thrasher (*Toxostoma bendirei*)
 - Southwestern willow flycatcher (*Empidonax traillii extimus*)
 - Arizona Bell's vireo (*Vireo bellii arizonae*)
 - Yellow-billed cuckoo (*Coccyzus americanus*)
 - Desert pocket mouse (*Chaetodipus penicillatus*)
 - Ridgeway's rail (*Rallus obsoletus yumanensis*)
 - Parish phacelia (*Phacelia parishii*)
 - Pahump Valley buckwheat (*Eriogonum bifurcatum*)
 - Las Vegas buckwheat (*Eriogonum corymbosum* var. *nilesii*)
 - White-margined beardtongue (*Penstemon albomarginatus*)
 - Las Vegas bearpoppy (*Arctomecon californica*)
 - Sticky ringstem (*Anulocaulis leiosolenus*)
 - Sticky buckwheat (*Eriogonum viscidulum*)

For more information about this project and/or for other Project Reports or Symposium Reports, please visit our [website](#)

If you have any questions about this project please contact DCP Project Manager Kimberley Jenkins at (702) 455-5529.