

Date: August 05, 2015

TO: DISTRIBUTION

RE: DESERT CONSERVATION PROGAM PROJECT COMPLETION NOTIFICATION:

PREDICTIVE MODELING FOR FOUR CLARK COUNTY BIRD SPECIES 2011-GBBO-901A

The work for the above referenced project has been completed. Please see the attached for all project related information.

The purpose of the above referenced project was:

The purpose of this project was to develop new predictive species distribution models for four bird species occurring in Clark County, Nevada. The predictive species distribution models will support a revision to the list of covered species; an effort that will support a proposed amendment to the Clark County Multiple Species Habitat Conservation Plan and associated Section 10(a)(1)(B) incidental take permit. The following species were addressed by this project: golden eagle (*Aquila chrysaetos*), loggerhead shrike (*Lanius Iudovicianus*), Costa's hummingbird (*Calypte costae*), and gilded flicker (*Colaptes chrysoides*).

The major accomplishment or findings of this project include:

The Predictive Modeling for Four Clark County Bird Species project consisted of three components: (1) creation of conceptual models that describe environmental stressors and responses by each of the four species; (2) preparation of predictive maps that project expected bird presence and/or densities of each of the species based on environmental data from occupied areas; and (3) preparation of statistical models for two species for which sufficient vegetation field data (previously collected in occupied sites) existed.

During the first phase of the project, conceptual models were developed for Golden Eagle, Costa's Hummingbird, Loggerhead Shrike, and Gilded Flicker to help illustrate

their conservation needs in Clark County. The models were based on published literature as well as experience with these species in Clark County and elsewhere in Nevada.

The second phase of the project consisted of constructing predictive maps and statistical models within the context of the conceptual models for each of the species. The primary difference between the predictive maps, which also represent habitat models, and the statistical model based on field data is that the predictive maps can only be based on remotely-sensed vegetation data that are available for the whole county and are therefore, relatively coarse in their resolution for habitat selection by birds. Whereas, the statistical models are based on precise vegetation measurements in the field and cannot be extrapolated out to unsurveyed areas. The combination of the two modeling efforts together provides a more complete picture of a bird species' habitat selection than would either one by itself.

For more information about this project and/or for other Project Reports or Symposium Reports, please visit our website at: http://www.clarkcountynv.gov/Depts/dcp/Pages/default.aspx

If you have any questions, please contact Kimberley Jenkins at (702) 455-5529.

Sincerely,

Marci D. Henson Program Manager

Marcus Henson

cc:

US Fish and Wildlife Service
Board of County Commissioners (7)
Permittees' Executive Committee
Permittees' Process Management Group
Thomas Boldt, Purchasing
Catherine Jorgenson, District Attorney – Civil Division
Desert Conservation Program Community Advisory Committee
Desert Conservation Program Interested Parties List
Multiple Species Habitat Conservation Plan Implementing Agencies
Science Advisor
SNPLMA Office (for SNPLMA projects)
Congressional Office
DCP Staff

DESERT CONSERVATION PROGRAM PROJECT COMPLETION NOTICE

Date of Issuance:

8/5/2015

General Project Information

Project Category

Compliance Category

Project Level

Project Title

Project Number

Contractor

Contractor Person of Contact Contractor Project Manager

DCP Project Manager

DCP Person of Contact/Contract Manager

Competitive Award or Sole Source

Contract Start Date Purchase Order Number

Contract End Date

Commissioner & District

Congressional Rep & District

Financial Breakdown

Funding Source Original Contract Amount

Total Change Request Amount Revised Contract Amount (Original Award plus Change Requests)

Funds Not Used in Contract

Final Payout Amount

Performance Information

Total Number of Change Requests Number of Change Requests by Contractor Number of Change Requests by DCP

Total Number of Deliverables 6 Number of Deliverables Accepted 6 Number of Deliverables Rejected 1 Number of Delinquent Deliverables 0

Total Number of Milestones 7 Number of Delinquent Milestones 1 Number of Milestones Met on Time 0

Total Number of Invoices Submitted 1 0 Number of Rejected Invoices

Conservation

9d-Research/Inventory/Monitoring

Level 3

Predictive Modeling for 4 C.C. Bird Species

2011-GBBO-901A

Great Basin Bird Observatory

Elisabeth Ammon Elisabeth Ammon Kimberley Jenkins Heather Green

Sole Source 01/13/2015 4500234130-004 05/29/2015

Α Steve Sisolak

В Tom Collins C Larry Brown

D Lawrence Weekly Ε Chris Giunchigliani

F Susan Brager G Mary Beth Scow

Dina Titus D1

D2 Mark Amodei D3 Joe Heck

D4 Steven Horsford

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