

Project Summary

Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Genetic Evaluation of Southeastern Oregon Clade of Columbia Spotted Frogs

Type of Project: Research

Project Discipline: Natural

Funding Agency: Bureau of Land Management

Other Partners/Cooperators: Colorado State University

Effective Dates: 11/5/2009 - 9/22/2014

Funding Amount: \$35,500

Investigators and Agency Representative:

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Investigator: Chris Funk, Assistant Professor, Department of Biology, Colorado State University, Fort Collins, Colorado 80523; 970-491-3289; Chris.Funk@colostate.edu

Project Abstract: Colorado State University for the purpose of using mt DNA sequences and microsatellite markers to evaluate the geographic distribution and status of the southeastern Oregon clade of Columbia spotted frogs (*Rana luteiventris*).

Objectives are to:

- a. Clarify the distribution of the southeast Oregon clade of the Columbia spotted frogs
- b. Test whether the Great Basin and Northern clades are different Evolutionary Significant Units or separate species;
- c. Test for population declines of Columbia Spotted Frog in southeastern Oregon using genetic bottleneck test; and
- d. Measure patterns and rates of gene flow (gene connectivity) among populations in southeastern Oregon

Outcomes with completion dates: September 24, 2014

Keywords: Columbia spotted frog, **southeastern Oregon**, genetics, Bureau of Land Management, Colorado State University