

Rocky Mountains Cooperative Ecosystem Studies Unit
Project Summary

Project Title: Biological Investigations, Monitoring and Restoration on Federal Lands

Award #: F19AC00316
Discipline: Natural
Type of Project: Research/Technical Assistance
Funding Agency: US Fish and Wildlife Service
Other Partners/Cooperators: Colorado State University
Effective Dates: 5/15/2019 – 8/31/2024
Funding Amount: \$203,092

Investigators and Agency Representative:

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Investigator: Lee Grunau, Robert Schorr, Pamela Smith, and Amy Greenwell, Colorado State University, Fort Collins, CO; Tracy.trujillo@colostate.edu

Project Abstract:

- Perform noxious weed surveys and noxious weed monitoring using methods designed for long-term data collection and implement weed control measures as applicable. Collect data that can be utilized to compare the effectiveness of weed treatments and the containment or spread of weeds in the future. Provide treatment services to meet specific needs.
- Integrate weed monitoring data into comprehensive weed maps.
- Develop and/or update management plans to assist Natural Resources personnel with effective and efficient management of native and invasive biological resources using the latest available research to guide management techniques.
- Perform inventories and monitoring of significant biological resources and sensitive, Threatened, and Endangered species and research pollination ecology.
- Develop distribution models for priority species (including sensitive, Threatened, Endangered, and invasive), ecological systems/vegetation, permeability, and other desired models to support planning, under both current and potential future climate scenarios.
- Review Species Status Assessments and provide data development services to inform critical habitat.
- Develop site plans and assist with restoration of degraded landscapes.
- Conduct sampling and studies that describe how the Preble's meadow jumping mouse uses of habitats and to understand what habitat conditions support Preble's meadow jumping mouse populations.
- Conduct sampling and population monitoring of the Preble's meadow jumping mouse persistence in appropriate habitats.
- Conduct sampling and monitoring of the Preble's meadow jumping mouse to understand population dynamics, movement patterns, and natural history.
- Vegetation mapping and monitoring.
- Perform wildlife and vegetation monitoring to inform the Bird/Wildlife Aircraft Strike (BASH) prevention program.