

Rocky Mountains Cooperative Ecosystem Studies Unit
Project Summary

Project Title: Cooperative Research and GIS Support for Visitor Use Management, Long Range Transportation Planning and Incident Management Training

Task Agreement: P18AC01243

Mods: 6

Discipline: Natural

Type of Project: Research/Technical Assistance

Funding Agency: National Park Service

Other Partners/Cooperators: Colorado State University

Student Participation: Yes

Effective Dates: 9/1/2018 – 3/31/2022

Funding Amount: \$269,181.00

Investigators and Agency Representative:

NPS Contact:

Jennifer Carlino

NPS

jennifer_carlino@nps.gov

Investigator:

Gregory Newman

Natural Resource Ecology Laboratory

1499 Campus Delivery

Colorado State University

Fort Collins, Colorado 80523-1499

Phone: (970) 491-0410

Fax: (970) 491-1965

Email: gregory.newman@colostate.edu

Project Abstract:

Project Goals – This project will provide the following high priority support goals:

- a. Provide location-specific insight and guidance to park managers on visitor use trends within congested Intermountain Region parks to inform management decisions that will improve visitor experience.
- b. Provide expert support on the overhaul of the GIS Specialist for Incident Management (S-341) class in direct support of wildland fire and other emergency operations.
- c. Produce high-quality data and map products based on geospatial analysis results to inform Long Range Transportation Planning at both park and regional levels.

Project Objectives –

The following objectives will fulfill the project goals:

- a. Geographically analyze visitor use trends through the application of advanced technology including big data location sources and visitor distribution modeling.
- b. Improve and finalize the S-341 training course through review, editing, and testing of current course content.
- c. Integrate transportation-related geospatial data from a variety of agency and non-agency sources and complete spatial analysis of transportation networks and assets using local and big data