

## **Project Summary**

### **Rocky Mountains Cooperative Ecosystem Studies Unit**

**Project Title:** Post Rim Fire assessment of fuel consumption and mortality in the Yosemite Forest Dynamics Plot

**Type of Project:** Research  
**Discipline:** Natural Resources  
**Funding Agency:** National Park Service  
**Cooperators:** University of Montana  
**Effective Dates:** 3/1/2014 - 3/31/2016  
**Funding Amount:** \$8,137

**Investigators and Agency Representative:**

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**Project Abstract:**

Task 1: Construct full pre-fire and post fire data set for all subsequent fire effects and demographic analyses.

Task 2: Assess mortality of all trees in YFDP and assess status of snags.

Task 3: Determine scorch assessment on all trees and snags in YFDP (scorch height, percent scorch, and char height).

Task 4: Measure surface fuel consumption along fuels transects between monuments to determine heterogeneity of fuel consumption.

Task 5: Re-read existing and replace damaged dendrometers to measure the post fire tree growth. This agreement does not include cost of new dendrometers.

Task 6: Enter and conduct QA/QC on data entered into database.

Task 7: Analyze data to report on post fire mortality of trees of different sizes classes, scorch and char associated with fire-killed trees, fate of snags and large downed wood, and surface fuel consumption.

**Outcomes with Completion Dates:**

- 1) Access to data and report on Rim Fire effects assessment in final report due at the termination of the agreement. Data format is specified by Smithsonian Institute, Center for Tropical Forest Science. Access to data in Amazon cloud will be granted to Yosemite when requested.
- 2) Final report due 12/31/2014
- 3) Database available 12/31/2015

**Keywords:** Rim Fire, tree mortality, fire effects, Yosemite National Park, University of Montana