Project Summary
Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Restoration with Whitebark Pine seedlings on Dunraven Pass, Yellowstone National Park: availability of native mychorrhizal fungi in soil
Discipline: Natural Resources
Type of Project: Technical assistance
Funding Agency: National Park Service
Other Partners/Cooperators: Montana State University
Effective Dates: 3/1/2007 – 8/15/2008
Funding Amount: $5,000

Investigators and Agency Representative:
NPS Contact: Mary Hektner, Center for Resources, P.O. Box 168, Yellowstone National Park, WY 82190; 307-344-2151, mary_hektner@nps.gov
Investigator: Cathy Cripps, Plant Science Dept., Montana State University, Bozeman, MT 59717; 406-994-5226, ccripps@montana.edu

Project Abstract: Cooperators will work with the NPS on a project to determine the best methods for restoring whitebark pine seedlings to impacted sites in the Dunraven Pass area of Yellowstone National Park. Tasks include:

- Soil sampling in Yellowstone National Park in areas where nursery whitebark pine seedlings are to be planted
- Initial reconnaissance to observe whitebark pine seedlings planted along Dunraven Pass
- Pick up extra nursery whitebark pine seedlings, and set up whitebark pine seedling assay in Plant Growth Center, MSU
- Maintain whitebark pine seedling assay in Plant Growth Center, MSU
- Complete Greenhouse Soil Bioassay (MSU)
- Site visits to planting areas in summer 2007
- 2 collecting trips for fungi in whitebark pine forests
- Sampling of whitebark pine seedling roots (July/Aug 2007)
- Root processing: screening & morphotyping
- Root processing: molecular analysis
- Analysis of Greenhouse Bioassay, Plant Growth Center, MSU
- Analysis of Site Monitoring for Mycorrhizae

Outcomes with Completion Dates: Due by February 2008, report documenting results of Greenhouse and Dunraven soil bioassays and whitebark pine seedling root bioassays

Keywords: Yellowstone National Park, Dunraven Pass, whitebark pine, restoration, soils, mychorrhizal fungi, Montana State University

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Date Annual Report Received:
Date Final Report Received:
Publications, etc. on file: