Project Summary Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: A study of whitebark pine regeneration after fire in Glacier
National Park
Type of Project: Research
Funding Agency: National Park Service, Glacier National Park
Effective Dates: Aug 15, 2002 - Feb 1, 2003
Funding Amount: \$2709
Investigators and Agency Representative:
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Project Abstract:
Half of the whitebark pine in Glacier National Park was killed in the 20
century by mountain pine beetre intestations. Of the remaining whitebark
dead or dving. The loss of whitebark pine in Glacier National Park has
important biodiversity implications, including the character of treeline
vegetation and as a food source for many species of birds and mammals,
including the Clark's nutcracker and grizzly bear.
Glacier national Park has experienced a series of fires during the 1990's.
Given healthy white bark pine ecosystems, fire provides opportunities for
forest renewal. However with the current conditions of THE whitebark pine
seed source, it is questionable whether much whitebark pine regeneration has
occurred during this decade.
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Diana Tomback, on sabbatical leave from the University of Colorado, and USGS
National Park that burned during the 1990's in order to determine densities
of whitebark nine regeneration and condition of nearby seed source. These
regeneration densities will be compared with regeneration densities for
whitebark pine in the Bob Marshall Wilderness Complex from similarly aged
fires.
Outcomes with completion dates: Diana Tomback will offer a formal seminar,
covering the ecology and evolution of nutcracker-pine mutualism, and several
talks and workshops. Talks will be presented to park visitors and staff as
well as at local community colleges near Glacier National Park and to Denver
area schools and universities. Diana Tomback and Kate Kendall will present a
seminar to Park staff and managers on their research findings.
Keywords: Glacier National Park, whitebark pine, blister rust
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