# NPS

**PROJECT SUMMARY**

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| **Cooperative Ecosystem Studies Unit**  **Cooperative Agreement Modification** | | | | | |
| FUNDING AGENCY: **National Park Service** | | | | | |
| MODIFICATION NO.: **[CESU info only]** | | COOPERATIVE AGREEMENT NO.: **1200-99-009** | | FUNDING AMOUNT: $ 22,001 | |
| INVESTIGATORS’ Contact Information:  Dr. David Cooper, Senior Research Scientist  Department of Forest, Rangeland and Watershed Stewardship  Room 234 Natural Resources Building  Colorado State University  Fort Collins, CO 80523  Phone: 970-491-5430  E-Mail: David@cnr.colostate.edu | | | | | |
| PROJECT TITLE:  Assessing the Hydrologic, Geochemical, and Sediment Flux Impacts to *Puccinellia howellii*; Whiskeytown National Recreation Area | | | | | |
| EFFECTIVE DATES**: May 20, 2004 - May 20, 2005. This is a multi-year project pending available funds.** | | | | | |
| PROJECT ABSTRACT:  ***Abstract –*** As identified in the *Puccinellia howellii* Conservation Agreement, there is a critical need to understand the physical and ecological factors that control *P. howellii* populations within Whiskeytown National Recreation Area. The studies outlined in this proposal will provide empirical and experimental data and analyses to quantify the factors that control the distribution and persistence of *P. howellii*. This will be accomplished through several studies that are designed to determine the history of the site and variability in the groundwater flow, characterize water and soil chemistry of the springs, and determine the effects of unnatural sediment fluxes from the highway fill. This information will not only identify potential threats and impacts to *P. howellii*, it will also provide park staff with methods for long-term monitoring and it will provide park-specific mitigation strategies to address potential impacts. | | | | | |
| **Agency Representative:**  Ron Hiebert, NPS Research Coordinator  CPCESU  Northern Arizona University  P.O. Box 5765  Flagstaff, AZ 86011-5765  Tel: (928) 523-0877  Fax: (928) 520-8223  Ron.Hiebert@nau.edu | Agency Administration Representative Lynell Wright  Budget Analyst  Intermountain Region – Budget & Finance  P.O. Box 25287  12795 W. Alameda Parkway  Denver, CO 80225-0287  Tel: (303) 969-2654  Fax: (303) 969-2794  [Lynell\_Wright@nps.gov](mailto:Lynell_Wright@nps.gov) | | **Investigator:**  Department of Forest, Rangeland and Watershed Stewardship  Room 234 Natural Resources Building  Colorado State University  Fort Collins, CO 80523  Phone: 970-491-5430  E-Mail: David@cnr.colostate.edu | | **Partner Admin. Contact:**  Carmen Morales  Sponsored Programs  408 University Services Center  Colorado State University  Fort Collins, CO 80523  Phone: 970-491-6684  Fax: 970-491-6147  E-mail: Cmorales@research.colostate.edu |
| ***List of Key Words: [Insert key words – list available under “Project Planning” at http://cpcesu.nau.edu]*** | | | | | |
| ***Agency Manager/Technical Representative/Key Official from National Park - Include contact information @ Specific Park or NPS Office****:*  Jennifer Gibson  Ecologist/Fire Ecologist  Whiskeytown NRA  P.O. Box 188  Whiskeytown, CA 96095  Phone: 530-242-3457  E-mail: Jennifer\_Gibson@nps.gov | | | | | |
| *Annual Report Received:*  *Final Report Received:*  *Publications on File:* | | | | | |
| *This Modification is subject to all the provisions included in the Cooperative Agreement,* ***dated 6/22/99.*** | | | | | |

*Attach any supporting material as necessary.*