# NPS

**PROJECT SUMMARY**

|  |
| --- |
| **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 ScientistDepartment of Forest, Rangeland and Watershed StewardshipRoom 234 Natural Resources BuildingColorado State UniversityFort Collins, CO 80523Phone: 970-491-5430E-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, NPSResearch CoordinatorCPCESUNorthern Arizona UniversityP.O. Box 5765Flagstaff, AZ 86011-5765Tel: (928) 523-0877Fax: (928) 520-8223Ron.Hiebert@nau.edu | Agency Administration RepresentativeLynell WrightBudget AnalystIntermountain Region – Budget & FinanceP.O. Box 2528712795 W. Alameda ParkwayDenver, CO 80225-0287Tel: (303) 969-2654Fax: (303) 969-2794Lynell\_Wright@nps.gov | **Investigator:**Department of Forest, Rangeland and Watershed StewardshipRoom 234 Natural Resources BuildingColorado State UniversityFort Collins, CO 80523Phone: 970-491-5430E-Mail: David@cnr.colostate.edu | **Partner Admin. Contact:** Carmen MoralesSponsored Programs408 University Services CenterColorado State UniversityFort Collins, CO 80523Phone: 970-491-6684Fax: 970-491-6147E-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 GibsonEcologist/Fire EcologistWhiskeytown NRAP.O. Box 188Whiskeytown, CA 96095Phone: 530-242-3457E-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.*