# NPS

**PROJECT SUMMARY**

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| **Cooperative Ecosystem Studies Unit****Cooperative Agreement Modification** |
| FUNDING AGENCY: **National Park Service** |
|  MODIFICATION NO.: **[CESU info only]**  | CESU COOPERATIVE �AGREEMENT NO.:**CA238099001** |  FUNDING AMOUNT: $ **11,980** |
| INVESTIGATORS� Contact Information: **Dr. David J. Cooper/ Ms. Lindsay Patterson, Colorado State University Dept. of Forest, Rangeland and Watershed Stewardship, (970) 491-5430/(303) 499-6441** |
| PROJECT TITLE:**Restoration of Drakesbad Meadow, Lassen Volcanic National Park** |
| EFFECTIVE DATES**: �Start May 15, 2004; End Dec 31, 2004**  |
| PROJECT ABSTRACT: For the past three years Lassen Volcanic National Park and researchers from Colorado State University have been engaged in an effort to restore Drakesbad Meadow, the largest wetland in Lassen Volcanic National Park.� A series of drainage ditches and a road cut had severely altered the hydrologic regime of the wetland.� These modifications resulted in ecological changes including soil degradation and invasion of non-native plant species.� Based on hydrologic, vegetation and soils data, two pilot restoration projects were designed and implemented during the summer of 2003.� One project allows the wetland source water to pass through the road cut, while the second blocks the flow of water in the main drainage ditch.� Drakesbad Meadow is located in a high use area and efforts toward restoration have been extremely controversial, and delayed the implementation of the restoration pilot projects until mid summer 2003.� In order to address these unforeseen visitor concerns, the Park has devoted additional time and resources to data collection and analysis, thus delaying full completion of the project.� Now that the pilot restoration projects are in place, the Park needs to document their effects.�Immediate and continued monitoring is critical to determine whether the restorations were successful, identify additional areas in need of restoration and address specific visitor concerns, and develop a larger scale restoration program.� Without additional data, restoration activities undertaken thus far may be reversed and restoration delayed.� Such delays will inevitably result in further degradation of the wetland, loss of valuable hydrologic data and a missed opportunity to gain knowledge to improve management decisions. |
| ***Agency Representative****:� Ron Hiebert, NPS Research Coordinator, CPCESU, Northern Arizona University, P.O. Box 5765,**Flagstaff, AZ 86011-5765; Tel: (920)523-0877; Fax (928)520-8223;�**Ron.Hiebert@nau.edu****Agency Contracting Representative:�****Shirley Norton, Contracting Officer, Administrative Program Center, P.O. Box 25287,**�Denver, CO 80225; Tel: (303)969-2748; Fax (303)969-2795;�**Shirley\_Norton@nps.gov****Agency Administrative Representative:�****Debi Cox, Program Analyst, Water Resources Division, 1201 Oakridge Dr., Suite 250,**Fort Collins, CO� 80525; Tel: (970)225-3510; Fax (970)225-9965;**Debi\_Cox@nps.gov****Investigator: Dr. David J. Cooper, Colorado State University (970) 491-5430/(303) 4996441******Partner Administrative Contact:� Carmen Morales (970) 491-6684******List of Key Words: �Wetlands, Restoration, Hydrology of wetlands*** |
| ***Agency Manager/Technical Representative/Key Official from National Park - Insert contact information @ specific Park or NPS Office****:***Joel Wagner****NPS Water Resources Division****PO Box 25287****Denver, CO 80225****(303) 969-2955****joel\_wagner@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.*