# 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: $105,200 | |
| INVESTIGATORS Contact Information: Colorado State University, Dr. Ed Redente (970) 491-2339 | | | | | |
| PROJECT TITLE:Vegetative Restoration of Four Disturbed Areas and the Revision of the Vegetative Restoration Management Plan in Rocky Mountain National Park | | | | | |
| EFFECTIVE DATES**:** August 2003-September 2005 | | | | | |
| PROJECT ABSTRACT:The National Park Service (NPS), in cooperation with Colorado State University is involved in a two year process to supplement the revegetation of four disturbed sites in the park and to produce a Vegetative Restoration Management Plan. Plant material is currently being developed with fee demonstration and Federal Highways funds. The following areas would be targeted:   * Federal Highway Administration Bear Lake Road Phase One (subalpine with a variety of wetland and dryland areas)- A total of 280 grams of fourteen species of wetland forb and non-forb seed will be planted in ½ acre of wetland habitat. Seed was collected in the park and some of the species were sent to the Meeker, Colorado NRCS Plants Material Center for a seed increase program. Almost 10,000 grams of 37 species of upland forb and non-forb seed will be planted on 25 acres of upland habitat. 10,034 native salvaged or park greenhouse plants will be planted at twelve pullouts, parking lots or trailheads. * Glacier Creek Wetland (subalpine wetland)- Revegetate 1 acre of wetland with salvaged and greenhouse plants at a ratio of 1 forb or grass/0.22m2, 1 shrub/10m2 and 1 tree/10m2. The 0.5 acres of dryland will be planted at a ration of 1 forb or grass/0.5m2 and 1 shrub/5m2. * Alpine Visitor Center Sewage Lagoon (alpine)- Revegetate ¼ acre with 31 species of alpine plants at a ratio of 1 forb or grass/0.06m2. About 7,000 plants were grown in the park’s greenhouse for this project. * Fall River Pass Vault Toilet (alpine)- Revegetate about 600 square feet of alpine habitat with 600 square feet of alpine plants that were salvaged preconstruction.   Producing the management plan will bring together park personnel, university staff and local experts. It would provide the needed template for all future restoration projects in RMNP. The comprehensiveness of the plan would enable managers and technicians to select techniques based on the success and cost of each technique. | | | | | |
| **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 Assistant  Intermountain Support Office  Denver, CO 80225-0287  Tel: (303) 969-2654  Lynell\_Wright@nps.gov | | **Investigator:**  Ed Redente  Colorado State University  Fort Collins, CO 80523  (970) 491-2339  edr@cnr.colostate.edu | | **Partner Admin. Contact: NAU Contact:**  Carmen Morales  Office of Sponsored Programs  Colorado State University  Fort Collins, CO 80523  (970) 491-6684 |
| ***List of Key Words:*** | | | | | |
| ***Agency Manager/Technical Representative from National Park - Include contact information @ Specific Park****:*  *Carlie Ronca,Supervisory Biological Science Technician, Rocky Mountain National Park, Estes Park, CO. 80517, (970) 586-1364*  *Karl Cordova, Supervisory Biologist, Rocky Mountain National Park, Estes Park, CO. 80517, (970) 586-1258* | | | | | |
| *Annual Report Received:*  *Final Report Received:*  *Publications on File:* | | | | | |
| *This Modification is subject to all the provisions included in the Cooperative Agreement,* ***dated 7/21/03.*** | | | | | |

*Attach any supporting material as necessary.*