

Project Completion Report Rocky Mountains Cooperative Ecosystem Studies Unit (RM-CESU)

Project Title: Statistical Consulting for Environmental Monitoring Projects

Project Code: P11AT10394 UWY-154

Type of Project: Technical Assistance

Funding Agency: National Park Service, Appalachian Highlands Inventory and Monitoring Network (APHN)

Partner University: University of Wyoming

NPS Agreement Technical Representative: Robert Emmott, Network Program Manager, Appalachian Highlands I&M Network, c/o Blue Ridge Parkway, 67 Ranger Drive, Asheville, NC 28805, Phone: (828) 296-0850 ext. 105; Fax: (828) 296-0433; Email: Robert_emmott@nps.gov

Principal Investigator: Timothy J. Robinson, Department of Statistics, University of Wyoming, Department 3332, Laramie, WY 82071-3332; tjrobin@uwyo.edu, 307 766 5108.

Start Date of Project: July 1, 2011

End Date of Project: March 31, 2013

Funding Amount: \$6110

Project Summary, including descriptions of products, work accomplished and/or major results. If the information is restricted (e.g. location of endangered species or cultural resources), indicate the title and location of the final report. Also add web sites where project-related information may be found. On this project, Dr. Robinson assisted with analyzing monitoring data for the Federally-listed spotfin chub and duskytail darter. He looked at whether trends existed, the power to detect trends and the approximate number of years of annual monitoring that would be needed to detect trends at various significance levels. Also, for our rich cove vegetation monitoring project, Tim assisted with analyzing data to detect long-term trends in populations of exploited plant species, including black cohosh, bloodroot, trilliums and ginseng.

Number of students participating in this project: undergraduates, graduate students, degrees conferred. N/A

Lessons Learned from this project: Dr. Robinson has been very good to work with. He essentially functioned as a statistical consultant for this project, and has been very responsive to our needs. He's a great listener, sometimes a rare quality in this field, and has the gift of being able to communicate complicated ideas in an understandable manner. I'd definitely recommend him to others seeking the same kind of assistance.