

Project Summary

Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Biostatistics Support for National Park Service Biological Projects
Type of Project: Technical Assistance
Discipline: Natural Resources
Funding Agency: National Park Service
Other Partners/Cooperators: University of Wyoming
Effective Dates: July 10, 2004 - December 30, 2008
Funding Amount: \$11,000
Investigators and Agency Representative: <u>NPS KEY OFFICIAL:</u> Greg Eckert, National Park Service, Biological Resource Management Division, 1201 Oak Ridge Drive, Suite 200, Fort Collins CO 80525, (970) 225-3594 voice, (970) 225-3585 fax Greg_Eckert@nps.gov
<u>PRINCIPAL INVESTIGATOR:</u> Dr. Ken Gerow, Statistical Consulting Center, Department of Statistics, University of Wyoming, Laramie WY 82073, (307) 766-6600, gerow@uwyo.edu
Project Abstract: This project will provide Biostatistics support for the National Park Service, Biological Projects. The University of Wyoming Statistical Consulting Center (UWSCC) will provide specialized statistical assistance through sub teams formed for a particular statistical problem, with Dr. Gerow serving as principal investigator. The UWSCC will provide support through the review of study designs, consulting on preliminary sampling and sample size determination, consulting at all phases of project planning, work, analysis, and write ups including the review of manuscripts for statistical methods used and interpretation of data. The UWSCC, upon request, will provide expertise in biological/ecological monitoring designs, Bayesian Statistics, non-parametric statistics, multivariate statistical tests, and geospatial statistics. The UWSCC will also assist with the development of statistics and probability-based tools, and provide training courses (up to 3-day as identified) as requested. Specific technical assistance to be rendered may include the use of Seasonal Kendall and other Nonparametric Trend Analysis, Bayesian Statistics and Confidence Intervals, time series trend analysis, and geospatial statistics.
Outcomes with completion dates: <ol style="list-style-type: none"> 1. The UWSCC will provide support through the review of study designs, consulting on preliminary sampling and sample size determination, consulting at all phases of project planning, work, analysis, and write ups including the review of manuscripts for statistical methods used and interpretation of data. 2. The UWSCC, upon request, will provide expertise in biological/ecological monitoring designs, Bayesian Statistics, non-parametric statistics, multivariate statistical tests, and geospatial statistics. 3. The UWSCC will also assist with the development of statistics and probability-based tools, and provide training courses (up to 3-day as identified) as requested. 4. Work completed by December 30, 2008
Keywords: biostatistics, National Park Service, Biological Resource Management Division, University of Wyoming Statistical Consulting Center, statistical design
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