

Project Summary
Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Data Warehouse for Air Quality Modeling in the Oil & Gas Region of Wyoming, Utah and Colorado

Discipline: Natural
Type of Project: Technical Assistance
Funding Agency: National Park Service
Other Partners/Cooperators: Colorado State University
Effective Dates: 9/6/2011 - 9/30/2012
Funding Amount: \$215,850

Investigators and Agency Representative:

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Project Abstract: The purpose of the agreement is for the two organizations to work together on data of mutual interest to support future air quality modeling and analysis and getting these data into common repository, a data warehouse. This cooperative agreement is for a year. This project is undertaken with NPS collaboration with the Western Governors' Association, the USDA Forest Service, the Bureau of Land Management, the Environmental Protection Agency, the state of Colorado, the state of Utah and the state of Wyoming through participation in the Three-State Study who are also contributing to this undertaking. The Steering Committee for that study which has representatives of those agencies has been charged with working closely with the NPS in its partnership with CSU-CIRA.

The primary objectives are:

1. Utilize the unique skill, resources, and expertise of each entity (NPS and CSU-CIRA) to better understand and quantify the relationship between air emissions, meteorology and atmospheric transport and chemical conversion and removal mechanisms through development of a comprehensive data management and information delivery system, incorporating ambient air quality, meteorological, and emissions, as well as analysis and modeling results of previous studies.
2. Enhanced coordination and collaboration between NPS and CSU-CIRA through CSU-CIRA's relationships with Western Governors' Association, as well as with other federal agencies.
3. Improve, through the collaborative efforts of the NPS and CSU/CIRA, the spatial coverage and ready-access of the kinds of air quality data described above.

Outcomes with Completion Dates: air quality database, due by September 30, 2012

Keywords: Colorado State University, NPS-Air Resources Division, air quality modeling, data warehouse, Wyoming, Colorado, Utah