

New Mexico EPSCoR

Climate Impacts on New Mexico's Mountain Sources of Water

The New Mexico Experimental Program to Stimulate Competitive Research (NM EPSCoR) is working to provide the critical gap infrastructure, computational support, and education and outreach opportunities that foster excellence in climate change research and collaboration.

RESEARCH INFRASTRUCTURE



NM EPSCoR has filled in the “gaps” in the climate observation network, especially in rural, under-served communities, including the Navajo Nation. Strong collaborative efforts across institutions are leading to enhanced modeling of hydrologic systems as well as interdisciplinary studies of water chemistry in key watersheds. Researchers are working with local water managers of acequia systems to study and revise water-sharing agreements using EPSCoR-generated data. Infrastructure seed awards are enabling smaller minority serving universities to engage their students in environmental science research.

CYBERINFRASTRUCTURE

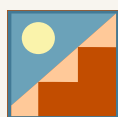
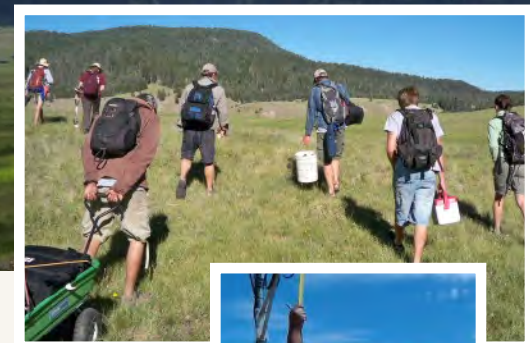


By providing improvements to environments that connect data, computers, and people, NM EPSCoR is advancing our ability to observe and simulate mountain hydrological processes and their susceptibility to climate change. NM EPSCoR has developed a scalable infrastructure for flexible data and information delivery that provides access to environmental data to researchers, educators, and policy-makers.

HUMAN INFRASTRUCTURE



Drawing upon New Mexico's rich diversity, NM EPSCoR connects research with education for K-12 teachers, undergraduate and graduate students, and the public with programs tailored specifically for each group. NM EPSCoR collaborates with schools, colleges, private and public organizations, and national laboratories to increase knowledge in scientific areas important to understanding the ramifications of climate change and to resolving associated energy, water, and environmental challenges. NM EPSCoR researchers have partnered with the New Mexico Museum of Natural History and Science to develop an exhibit to communicate climate research to the museum's quarter million annual visitors.



New Mexico
EPSCoR



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New Mexico EPSCoR

Economic Impacts of NM EPSCoR on New Mexico

NSF FUNDING AWARDED TO NEW MEXICO

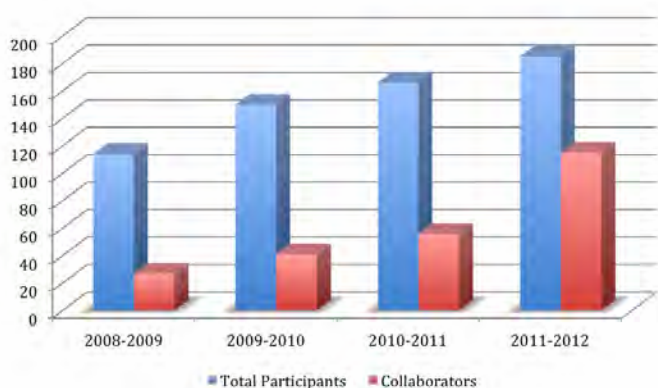
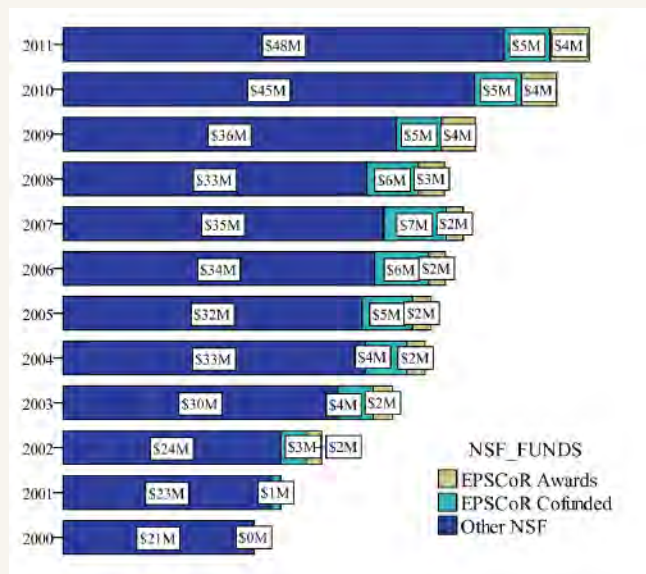
Since 2000, NSF EPSCoR has contributed approximately \$79 million to New Mexico in direct EPSCoR awards (\$28M) and co-funded awards (\$51M; co-funded awards would not have been made without EPSCoR funding). Also, NM EPSCoR is achieving its goal of making the state more competitive in securing NSF funding.

NM EPSCoR has two awards in addition to the current “Track 1” Research Infrastructure project:

- Track 2: Cyberinfrastructure Development for the Western Consortium of Idaho, Nevada, and New Mexico
- C2: Improving Broadband Connectivity for Tribal and Regional Colleges in New Mexico

More information about these projects is available on our website at nmepscor.org.

NSF Funded Awards in New Mexico by Calendar Year: 2000-2011



NM EPSCoR PARTICIPATION

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NM EPSCoR SUPPORT FOR RESEARCH

The current award supports research investments at higher education institutions across the state. Research funding is used for:

- Equipment
- Laboratory upgrades
- Field experimental facilities
- Salary plus tuition for graduate and undergraduate students
- Travel to professional conferences

* New Mexico State University, New Mexico Tech, University of New Mexico, New Mexico Highlands University. Regional Universities: Eastern New Mexico University, Western New Mexico University, Diné, Navajo Technical College. IWG: Innovation Working Groups support researchers to work collaboratively on complex science issues through integration and synthesis of data, information, and knowledge.

* Budgeted Research by Institution

