FY 2010 Basin Study Program: Evaluation of Proposals and Funding Recommendations

Deschutes Basin Study

Federal Funding: $200,000 **Non-Federal Funding: $205,000**

The members of the Deschutes Water Alliance and the Bureau of Reclamation would conduct a Basin Study in order to provide the basis for a future Water Management Plan. They will build on planning efforts to update existing research of municipal, agricultural, and environmental water needs in relation to existing water supplies, evaluate the effects of climate change on hydropower and water supply and demand, and identify specific options for meeting future water demands.

Basin Study on Water Supply on the Henry Fork of the Snake River Basin

Federal Funding: $400,000 **Non-Federal Funding: $400,000**

The Idaho Water Resource Board, Reclamation, and various stakeholders would conduct a Basin Study in order to support and advance the adaptive management approach with the Snake River Basin. Objectives of the Study include reviewing past research and literature to include in the current analysis, utilizing water projects that improve water acquisition and optimize canal systems, identifying problems, opportunities, and constraints that balance in-basin and in-state supply needs, and improving the water budget, examining the impact of current water projects on the environment. In addition the study aims to analyze the water supply to further understand the watershed and evaluate the effects of climate change on water supply and demand in the Henry's Fork and Upper Snake River basins.

Klamath Basin Study

Federal Funding: $75,000 **Non-Federal Funding: $75,000**

The Klamath River Basin is affected by a variety of water supply and demand imbalances and requires a two-phased approach of study in order to evaluate previous data and research. The first phase would call for an assessment of reviewed information and a detailed plan of the full Basin Study to be used in phase two. The second phase would include identifying and measuring the water resources of the Klamath Basin, determining current and future water needs, evaluating the effects of climate change on supply and demand, and exploring various ways to meet water supply needs. The Basin Study will review two recently-approved landmark agreements of the basin (the Klamath Basin Restoration Agreement and the Klamath Hydropower Settlement Agreement) and be conducted by Reclamation, the California Department of Water Resources and the Oregon Water Resources Department.

Niobrara River Basin Study

Federal Funding: $350,000 **Non-Federal Funding: $500,000**

The Niobrara River Basin and the underlying High Plains Aquifers are fully allocated water sources, but drought often results in substantial shortages to irrigation districts, hydropower facilities, and recreational areas. The Basin Study would assist in developing scientific information to help integrate management planning activities, identify the effects of climate change on future water supply and demand, and evaluate ways that water might be managed to ensure supply and demand remains in balance.

Santa Ana Watershed Basin Study
Federal Funding: $1,000,000 **Non-Federal Funding: $1,528,000**
The Santa Ana Watershed Project Authority and Reclamation would conduct a Basin Study that would evaluate Greenhouse Gas Emission Sources related to water management and operations and further research impacts on water quality (such as brine and salinity). In addition, the Basin Study would extend outreach to significant water users, such as Native American Tribes and Disadvantaged Communities that have been less active in other planning efforts. Impacts of climate change on water supply and demand and how these impacts might be lessened by reducing energy consumption would be explored. This research would build on and complement the ongoing planning efforts of the "One Water One Watershed" Plan Update.

Southeast California Regional Basin Study
Federal Funding: $425,000 **Non-Federal Funding: $425,000**
The Southeast California Regional Basin Study would cover all desert agricultural areas in Borrego Valley, Coachella Valley, Imperial Valley, and the Salton Sea and study how collaboration amongst competing local/industrial irrigation, recreational, and agricultural demands could benefit the region as a whole. The Basin Study will also examine data and reports on past and present water resources, assess water supply and demand and the effects of climate change on them, and develop recommendations on how the area's water systems and management might be integrated and improved so all competing water interests are sustainable.

Taos Pueblo Water Supply and Demand Basin Study
Federal Funding: $25,000 **Non-Federal Funding: $25,000**
The Taos Pueblo Water Supply and Demand Basin Study would analyze if the basin will continue to provide enough water to sustain uses over the next 50 years with population and economic growth, identify how the basin can be protected under Law as a culturally used wilderness area, and establish the relationship between the basin, watershed, and its surface and groundwater supply. The Basin Study will determine the effects of climate change on water supplies and develop recommendations for addressing climate change, drought, environment, and other impacts that may result in water shortages. The Study will identify other studies that may be needed and develop ways of more efficient water usage in the future.

The Truckee River Basin Study
Federal Funding: $850,000 **Non-Federal Funding: $850,000**
Reclamation and a broad range of stakeholders will conduct a Basin Study that addresses potential climate change impacts on hydroelectric power generation, recreation, fish and wildlife (including two endangered species), and habitat. The Study will also address water quality, ecosystems that are dependent on the river's flow and water, and flood control. Stakeholders, including Truckee River Flood Management Project, Pyramid Lake Paiute Tribe, and Placer County Water Agency, will work to identify potential adaptation strategies to these issues.