



US Army Corps
of Engineers®

Flood & Coastal Storm Damage Reduction R&D Program

Climate Variability Impacts on Corps Projects

Description	Climate is a key driver of water management issues that is especially significant when combined with other drivers of change in supply and demand. USACE Districts responding to these challenges individually have few tools and policies to guide them as they deal with observed changes and future implications. Improved USACE knowledge and ability to quantify impacts of climate variation on water supply are required for reservoir reallocation agreements, environmental restoration studies, and water-control projects across the country. This project involves experts from within and outside the Corps to assess the state-of-the-art in climate variability, and identify knowledge gaps that can be filled with USACE research and development.
Benefits	Internal and interagency collaboration will provide a consistent approach to solve USACE knowledge and technology gaps for effective water management and provide technology transfer for USACE Districts facing water supply issues related to climate variability.
Status	The USACE Climate Impact Workshop (November 2004) brought together interagency personnel, climate scientists, climate forecasters, water resources researchers, water managers, water policy developers, and senior managers to discuss the ramifications of climate variability and change on water management. A survey of Western Districts was conducted to identify drivers, impacts, and potential solutions to climate variability impacts. FY07 activities included collaboration with Reclamation on workshops in Sacramento, California exploring climate variability impacts to seasonal flood control. This work also leveraged the Headquarters-funded Western States Watershed Study. In FY08-09, a primer describing statistically downscaled climate models was developed and is in review.
Distribution Source(s)	N/A.
Available Documentation	MFR on Climate Workshop, Conference Papers, Journal Papers, Sacramento Workshop Minutes.
Available Training	N/A.
Available Support	N/A.
Application	Policy and procedures are in preparation under various HQUSACE activities.
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Partners	USACE Institute for Water Resources, USACE Portland, Sacramento, and Seattle Districts; U.S. Bureau of Reclamation, National Weather Service, State of California.