

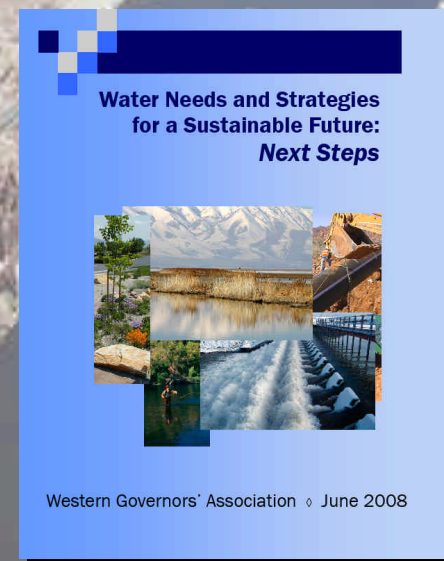
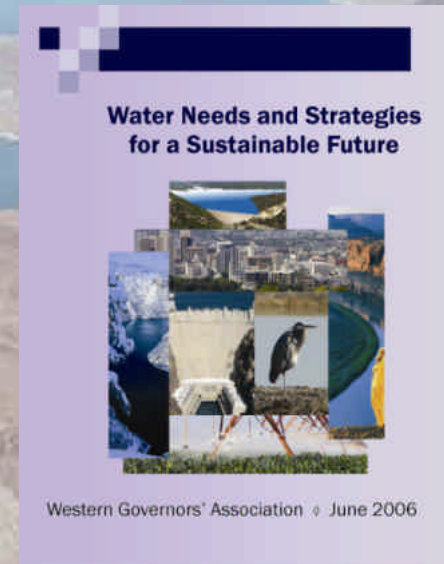
An aerial photograph of a large reservoir in a desert landscape. The water is a deep blue, contrasting with the brown, rocky terrain. In the foreground, a large concrete dam is visible, with water flowing through its spillways. The background shows more of the reservoir and distant mountains under a clear sky.

West FAST Agencies Water- Climate Change Program Inventory

The Western Federal Agency
Support Team
July 22, 2010

Western Governors' Association Western States Water Council Reports

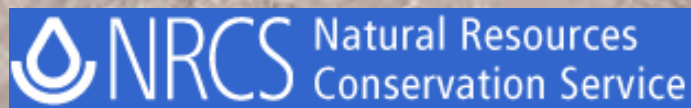
- Water Needs and Strategies for a Sustainable Future
- Water Needs and Strategies for a Sustainable Future: Next Steps



Climate Related Issues

- #34 “The federal government, in cooperation with states, should take the lead in putting together a web site to provide more useful and scaled output from climate models for the water management community.”
- #35 “Water managers should take the initiative to clearly communicate their needs for applied science to the climate research community, and must seek opportunities to guide hydroclimate research in directions that will support real-world problem solving.
- #36 “Planning for climate changes should be undertaken at all levels, from the federal government to private and public water utilities....”
- #37 “More water storage should be considered, accompanied by an extensive risk and cost-benefit analysis, together with an analysis of the potential for reducing demand and increasing water use efficiency. “

WestFAST Members



West FAST Agencies Water-Climate Change Inventory

- Water Science and Water Management Programs
- Conducted from October 2009 – March 2010
- Includes information on FY 2009, 2010, and 2011 as available
- Overview of Federal Climate Change Program
- West FAST Interagency Coordination
- West FAST Agency Programs

Federal Climate Change Budget

Category	FY 2009 Million \$	FY 2010 Million \$	FY 2011 Million \$
US Global Change Research Program	\$2,023	\$2,122	\$2,561
Climate Change Technology Program	5,386	5,504	5,690
Energy Tax Provisions	1,870	4,140	3,950
Energy Grants	1,050	3,090	4,460
International Assistance	373	1,080	1,494
Wildlife Adaptation	0	65	87
Total	\$10,702	\$16,961	\$18,242

Global Change Research Program FY 2009

Topic	Million \$
Earth Observation Satellites	\$769
Climate Variability	\$486
Atmospheric Composition	\$166
Global Water Cycle	\$138
Carbon Cycle	\$122
Human Contribution	\$110
Ecosystems	\$107
Land Use	\$30
Climate Change Research Initiative (various topics)	\$150

Global Water Cycle 2009

Agency	Million \$
NASA	96.1
National Science Foundation	16.4
NOAA	10.0
DOI (USGS)	6.7
USDA (ARS, FS, EXT)	4.6
EPA	3.7

Federal Interagency Coordination

- US Global Change Research Program – 7 WestFAST Agencies
- CEQ Interagency Committee on Climate Change Adaptation – Water Resources Working Group – 5 WestFAST Agencies
- Climate Change and Water Working Group – CCAWWG – 4 WestFAST Agencies
- Interagency Climate Change Working Group – 4 WestFAST Agencies

Opportunities for Collaboration

- DOI Climate Change Centers
- DOI Landscape Conservation Cooperatives
- EPA Climate Ready Water Utilities Working Group
- EPA State-Tribal Climate Change Council
- NOAA – National Integrated Drought Information Center - NIDIS
- NOAA – Regional Integrated Sciences and Assessments Programs - RISA

Observations

- Federal Climate Change Programs that Focus on Adaptation – early formative stage – will evolve
- Many Agency Programs are Inwardly Focused on Agency Specific Mission
- Interagency Coordination is Increasing
- Opportunities Exist for States to Engage
 - WestFAST can help facilitate
 - Specific Requests/Recommendations from States will be Helpful – Item 35 from Next Steps Report – WGA June 2010 Adaptation Strategy Document

Questions?

