



Partnership Opportunities



Climate Change Adaptation Policy Workshop

25 September 2008



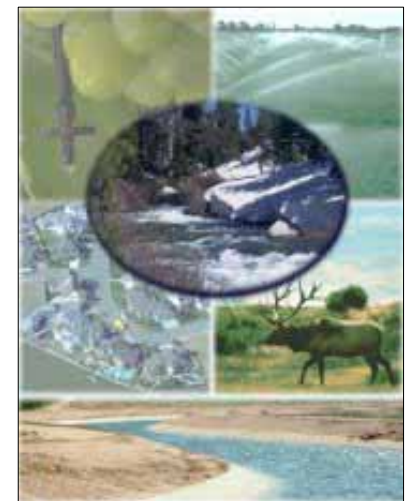
Pacesetters – Building Strong!



Many WSWC member states have expressed the importance of collaboration associated with issues similar to the following:

"A viable (state water) plan depends on the collaboration of a wide array of stakeholders, particularly when we are facing a growing population and impacts from a changing climate."

- California Department of Water Resources
Director Lester A. Snow.



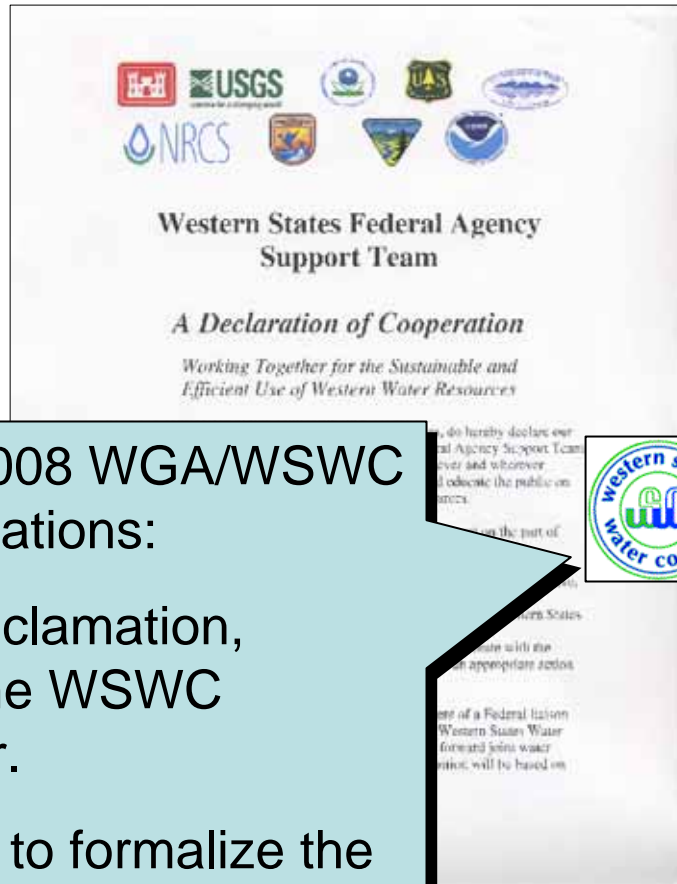


Water Needs and Strategies for a Sustainable Future: Next Steps

Western Governors' Association

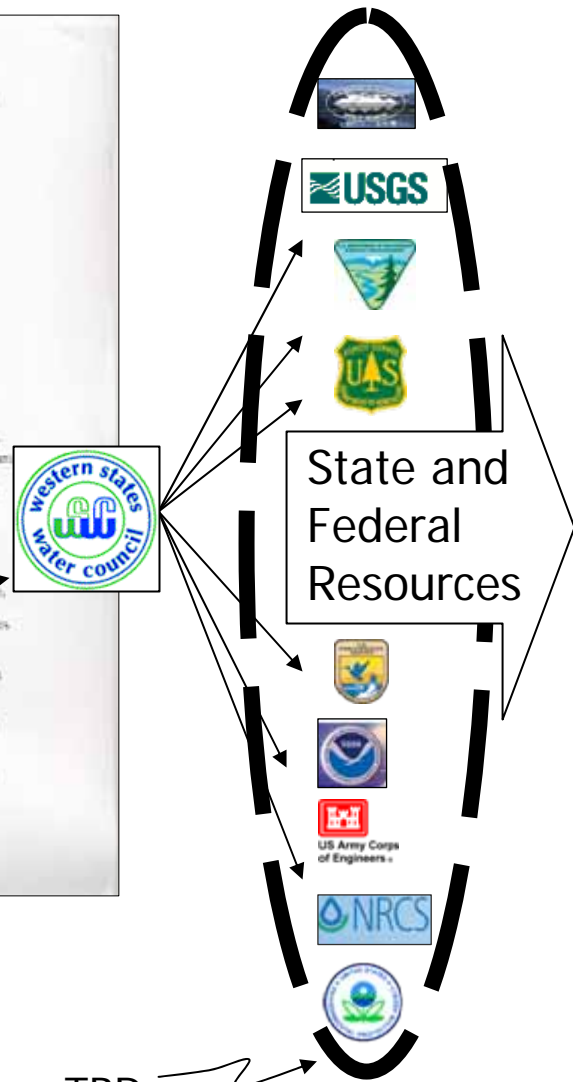
[The image shows several overlapping pages from the report. One page is circled with a dashed line, highlighting a section of text. Another page below it also has a dashed circle around a section. The text is partially obscured by the overlapping pages and the callout box.]

The June 2008 Water Needs and Strategies for a Sustainable Future: Next Steps report provides framework strategies for collaborative partnerships associated with state plans and regional issues such as climate change.



In response to June 2008 WGA/WSWC recommendations:

- Ms. Jonne Hower, Reclamation, selected to serve as the WSWC Federal Liaison Officer.
- Efforts are underway to formalize the Western States Federal Agency Support Team (WestFAST).



Initial "WestFAST". Additional team members TBD



- Secretary Woodley testified before the House Committee on Corps response to climate change.



DEPARTMENT OF THE ARMY

COMPLETE STATEMENT

OF

THE HONORABLE JOHN PAUL WOODLEY, JR.
ASSISTANT SECRETARY OF THE ARMY (CIVIL WORKS)

BEFORE THE

COMMITTEE ON TRANSPORTATION AND INFRASTRUCTURE
UNITED STATES HOUSE OF REPRESENTATIVES

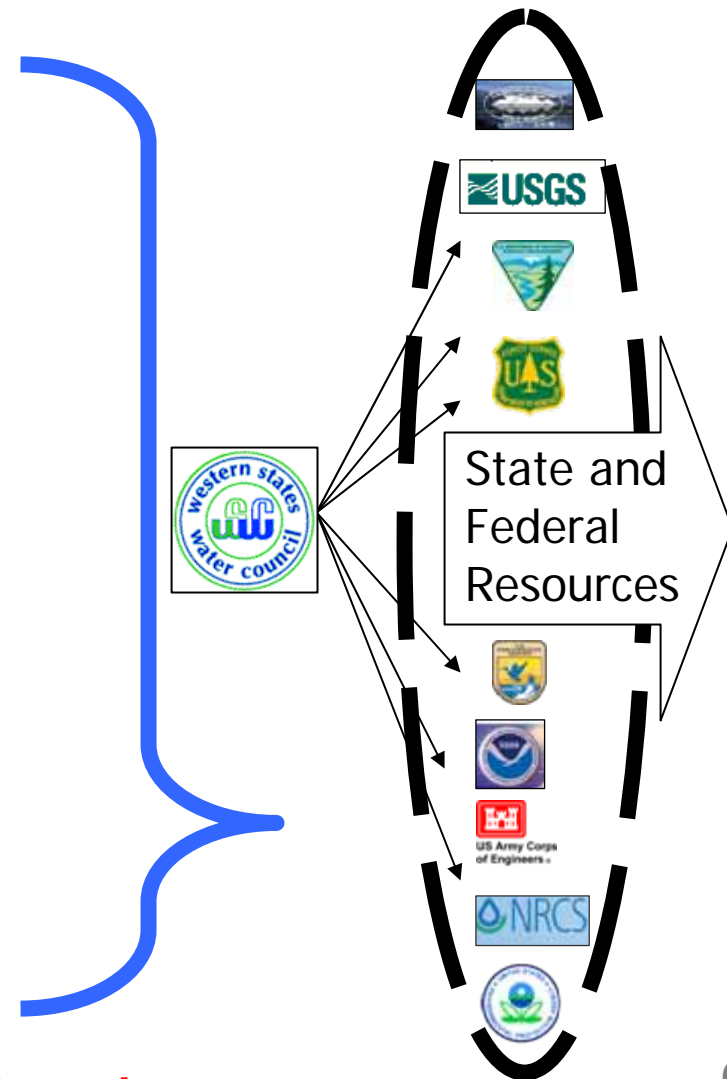
ON

THE ARMY CIVIL WORKS PROGRAM'S RESPONSE TO CLIMATE
CHANGE AND ENERGY INDEPENDENCE

MAY 11, 2007



- “The USACE has the necessary authorities to conduct a broad program of necessary first steps that are part of a longer-term proactive management strategy.”
- “USACE is working with other Federal agencies to share information on the complex and technically difficult aspects of our respective responses to climate change.”



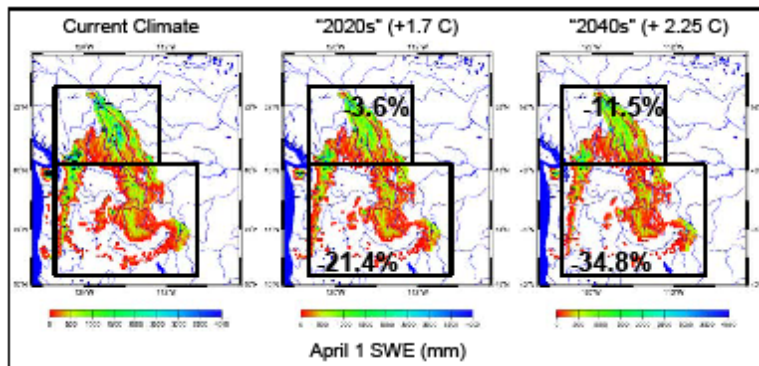


Examples of Corps Authorities:

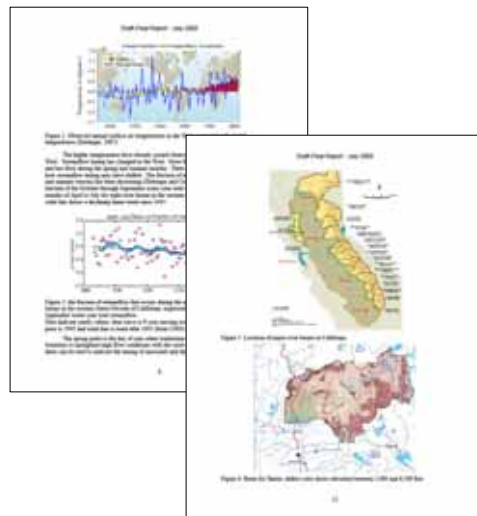
- Planning Assistance to States (Section 22, 1974 Water Resources Development Act, as amended).
- General Investigations.
- Sections 731, 707 and 729 in Public Law 99-662 (WRDA '86).
- Special Authorities Such as the FY 2006 Energy and Water Development Appropriations Act, Public Law 109-103 (i.e. Western States Watershed Study and other national studies).



On-Going Collaborative Activities Involving USACE



- Research on Climate Change and Water Management Challenges to the Columbia River Basin



- Evaluations to determine how North California flood risk management projects (Shasta, Oroville, and New Bullards Bar) respond individually and collectively to “climate changed” inflows.



On-Going Collaborative Activities Involving USACE

Climate change and water resources management:
A federal perspective

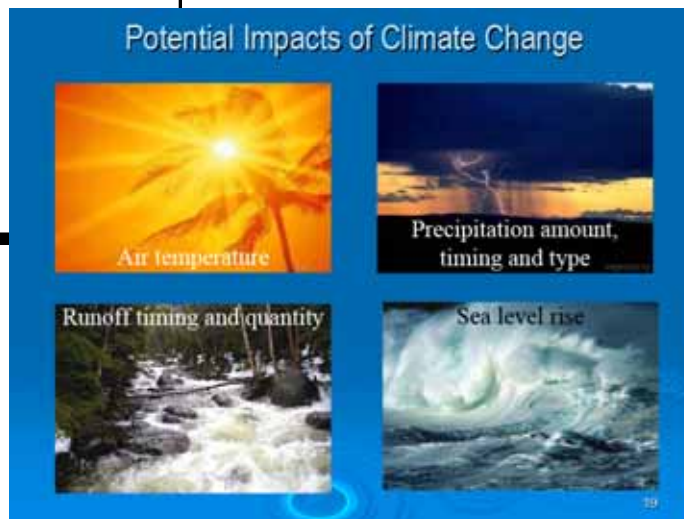
U.S. Geological Survey

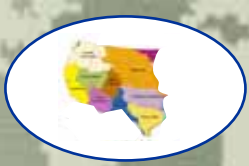
U.S. Army Corps of Engineers

U.S. Bureau of Reclamation

National Oceanic and Atmospheric Administration

- Draft report on climate change and water resources being written by four Federal agencies.





On-Going Collaborative Activities Involving USACE

Department of the Army
U.S. Army Corps of Engineers
Washington, DC 20314-1000

CECW-CE

EC1165-2-XXX

Circular
No. 1165-2-XXX

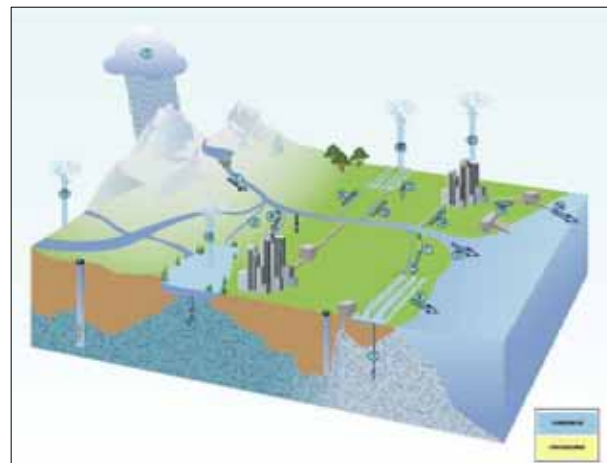
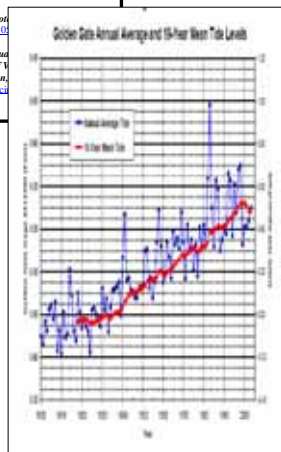
Date

EXPIRATION DATE

Water Resource Policies and Authorities
INTERIM GUIDANCE FOR INCORPORATING SEA LEVEL CHANGE

- 1. Purpose.** This circular provides interim United States Army Corps of Engineers (USACE) guidance for the incorporation of future sea level change in the project management, planning, engineering, design, construction, operation, and maintenance of USACE projects and systems of projects. Sea level change is a subject of intense study, and new knowledge and understanding of the drivers of sea level change will require updating of this guidance.
- 2. Applicability.** This Circular applies to all USACE elements having Civil Works responsibilities and is applicable to all USACE Civil Works activities. This guidance is effective immediately, and supersedes all other guidance included in ER 1105-2-100 Appendix E, Section IV E-24 (k). District and Division offices shall inform CECW of any problems with the implementation of this guidance.
- 3. Distribution Statement.** This publication is approved for public release; distribution is unlimited.
- 4. References and Glossary.**
 - References are included in Appendix A, B, D, and E, with the exception of required USACE guidance documents included here:
 - (1) USACE (2000) *ER 1105-2-100 Planning Guidance Note* (<http://www.usace.army.mil/publications/eng-reg/er1105>)
 - (2) USACE (2007) *EC 1110-2-6065 Comprehensive Evaluation Datum: Guidance for a Comprehensive Evaluation of V Flood Control, Shore Protection, Hurricane Protection, Projects* (<http://www.usace.army.mil/publications/eng-c/g65/>)

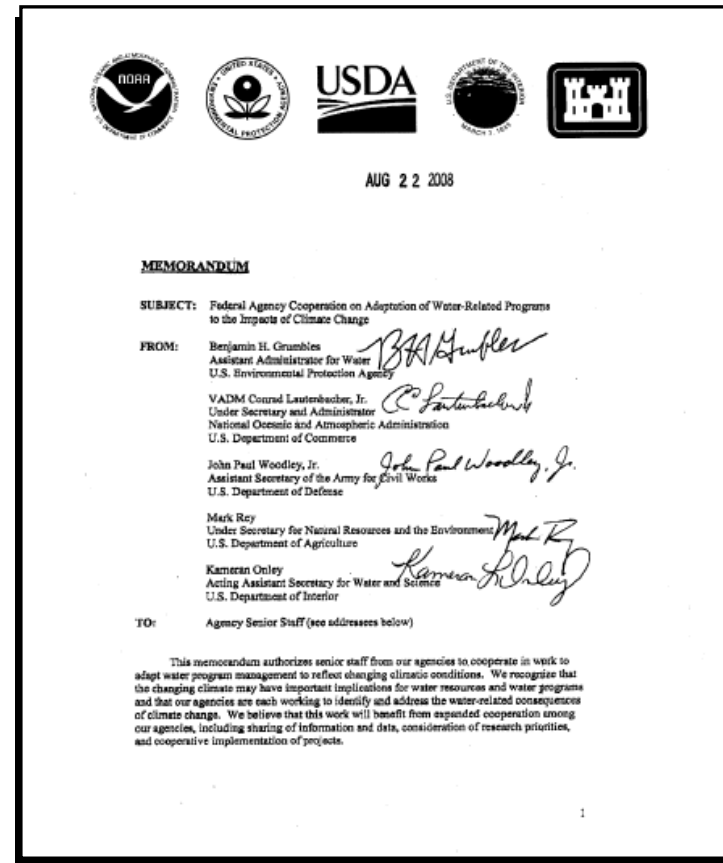
- USACE is currently revising guidance on sea level change (with USGS and NOAA – National Ocean Service).





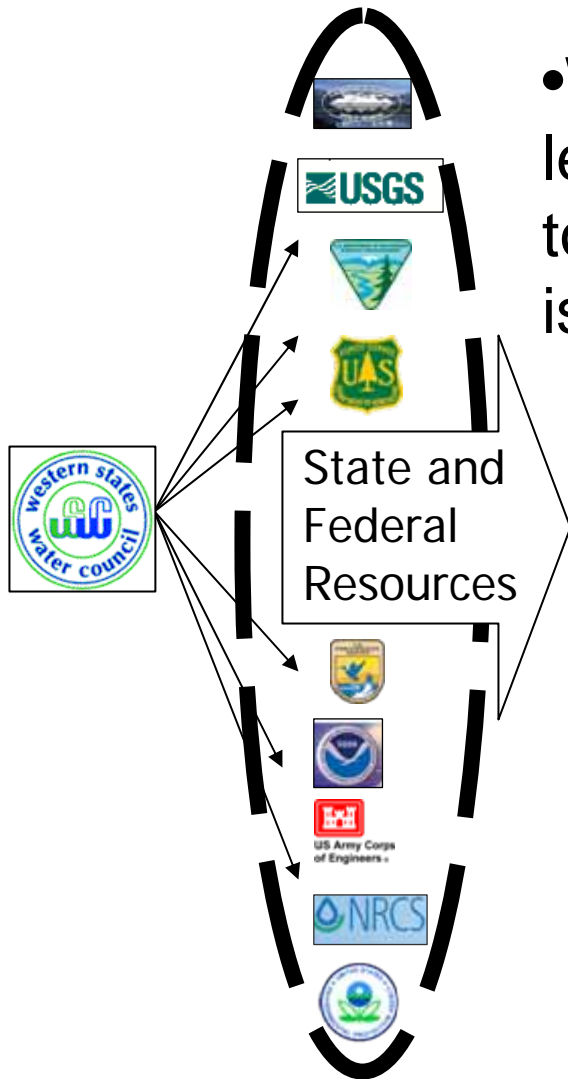
On-Going Collaborative Activities Involving USACE

- Multi-Agency Memorandum authorizes senior staff from agencies to cooperate in work to adapt water program management to reflect changing climate conditions.



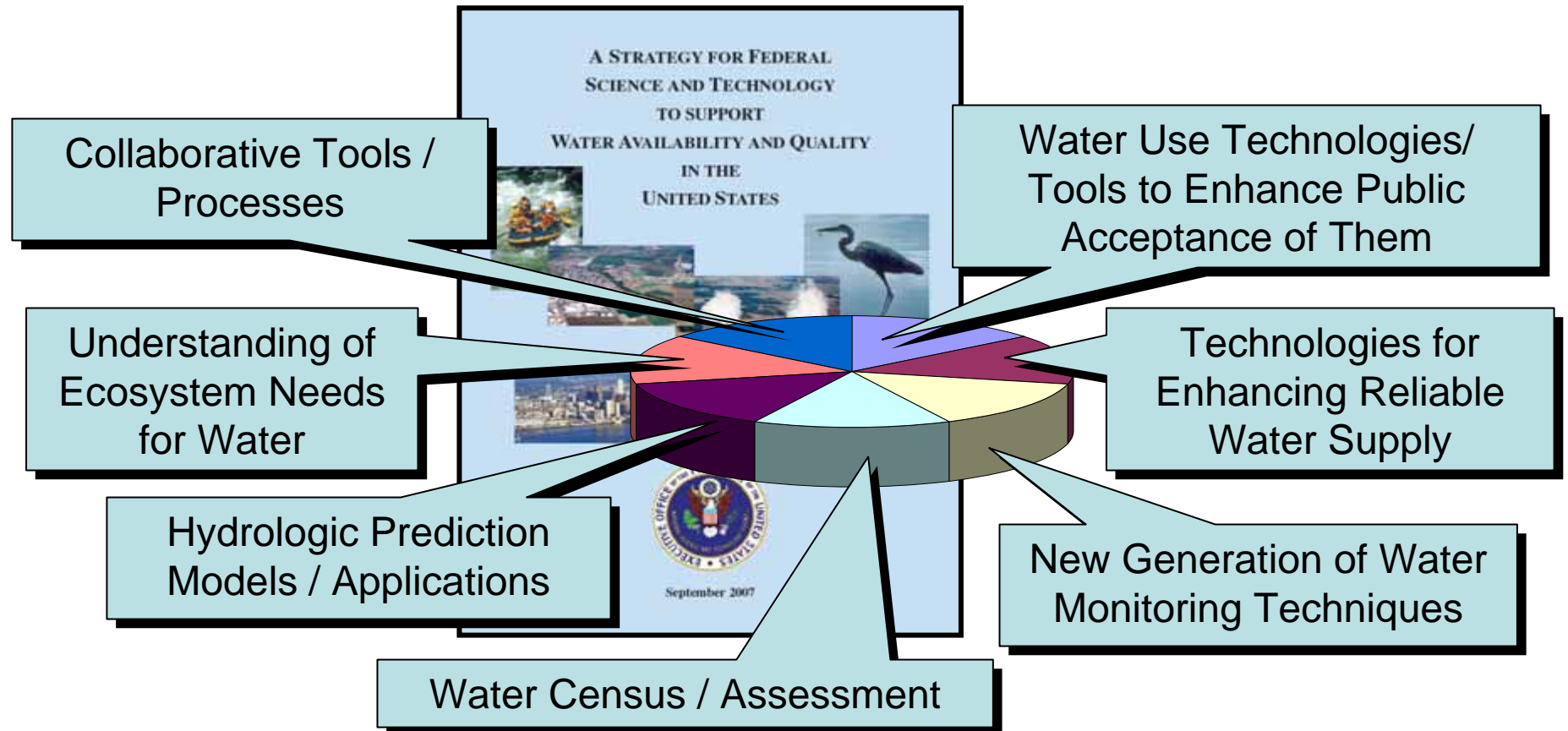


- WSWC and WestFAST could potentially leverage state, federal and other resources to help states address climate change issues.....



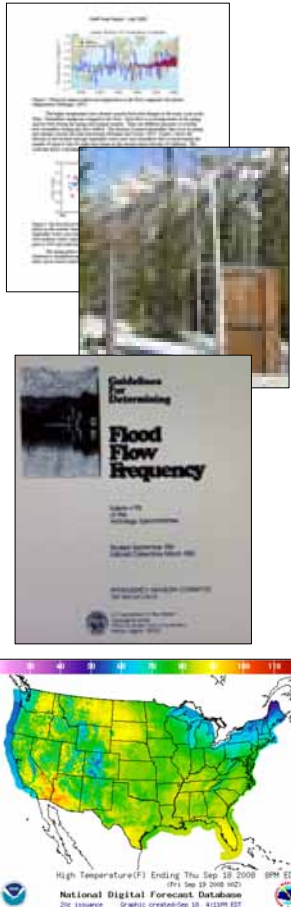


.....in the context of comprehensive water resources strategies, such as those identified in the Subcommittee on Water Availability and Quality September 2007 report.





Stakeholders have indicated that the following are needed for climate change adaptation:

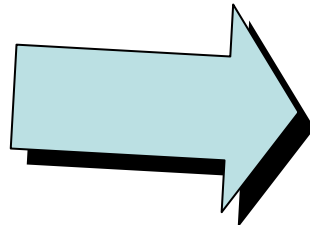
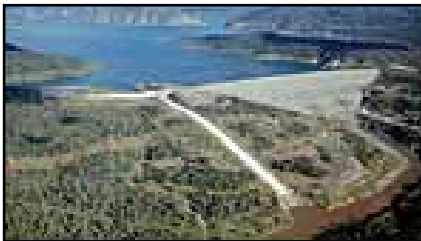


- Evaluation of opportunities to modify Corps reservoir rule curves and consider reallocation scenarios to support adaptation.
- Comprehensive evaluation of monitoring and data collection needs associated with climate change.
- Better understanding of rainfall runoff relationships and development of new hydrologic design standards (USGS publication 17B).
- Improvements to weather and climate forecasting.
- Others?



Information, such as climate adjusted rule curves, could contribute to the development of state plans

State plans could provide information to help develop regional / watershed assessments

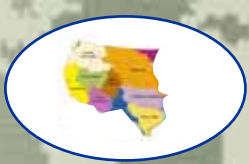


Regional / watershed data and assessments could help provide information to state planners



Potential Near-Term Next Steps

- Collaboratively develop plans to obtain data and tools needed to assist in climate change adaptation
- Identify “gaps” and remaining activities that could potentially be addressed by decision makers in the near-term.
- Identify resources, such as WestFAST, that could potentially conduct pilot demonstration projects and other selected near-term remaining activities.

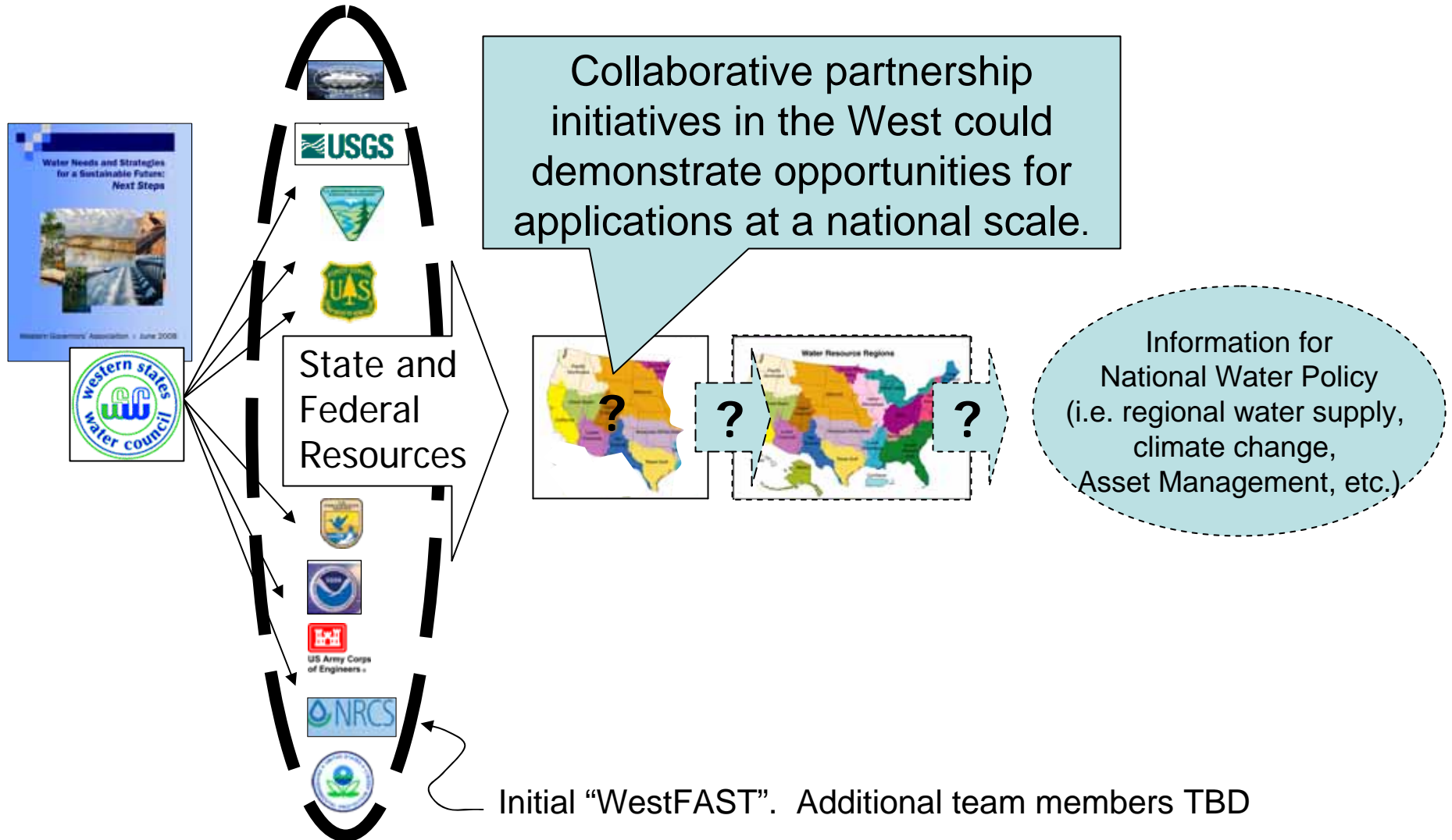


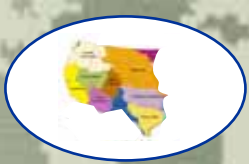
Potential Long-Term Initiatives

- Assistance to develop state water plans.
- Based on the above information, identify remaining activities not anticipated to be addressed in the foreseeable future.
- Identify resources, such as WestFAST, that could potentially conduct selected long-term remaining activities and/or pilot demonstration projects.
- Identify long-term remaining activity “gaps” for consideration by decision makers.



US Army Corps of Engineers





Thank You..... Questions?



Michael P. Fallon, P.E. SES, Director of Programs
Southwestern Division, U.S. Army Corps of Engineers

Michael.P.Fallon@usace.army.mil

469-487-7028