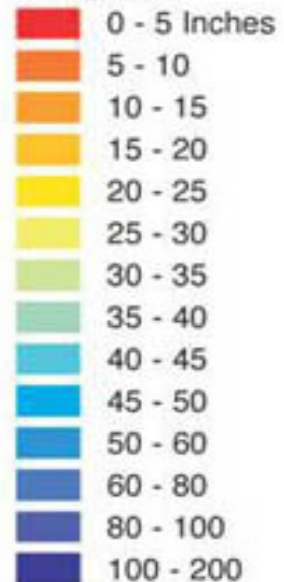


Federal Science and Water

Gene Whitney

**Office of Science and Technology Policy
Executive Office of the President**

Average Annual
Precipitation



**NIWR
February 28, 2006**



What are the key questions?

Will the U.S. have enough fresh water to sustain economic growth regionally and nationally?

Will our drinking water be safe?

How will climate change affect water supply and our management of water?

What are our options for expanding water supply in a sustainable manner?

Is it possible to improve our water policies?

Key needs for water in the United States?

- Modern, well-maintained water infrastructure
- Competent, watershed-based water management
- Fair, uniform and coherent water policy
- Broad, nationally consistent surface water and ground water monitoring
- Scientifically rigorous understanding and models of water processes



Executive Office of the President
Office of Management and Budget

M-05-18

July 8, 2005

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM: JOHN H. MARBURGER, III *John Marburger*
DIRECTOR, OFFICE OF SCIENCE AND TECHNOLOGY POLICY

JOSHUA B. BOLTEN *J. Bolten*
DIRECTOR, OFFICE OF MANAGEMENT AND BUDGET

SUBJECT: FY 2007 Administration Research and Development Budget Priorities

This memo highlights the Administration's research and development (R&D) priorities and emphasizes improving management and performance to maintain excellence and leadership in

The ability to measure, monitor and forecast U.S. and global supplies of fresh water is important because agencies are developing a coordinated, multi-year plan through the NSTC to improve research to understand the processes that control water availability and quality, and to collect and make available the data needed to ensure an adequate water supply for the future. Significant progress on this plan, including stakeholder input, is expected during the next two years.

How do we address national water science and technology issues?

- Mandate from the bosses
- NSTC and SWAQ
- Slicing and dicing water
 1. Know U.S. water resources and uses
 2. Expand U.S. water supply options
 3. Improve water management tools

1. Know our Water Resources and Uses

- Know our water resources and how they are changing
- Know our water use
- Know our engineered water infrastructure
- Know our ecosystems services

..... a water census

2. S&T to Expand our Water-Supply Options for the Future

- Improve use of existing water resources through use efficiency & new methods
- Improve efficiency of infrastructure
- Expand water supply through treatment and expanded use of lower quality water
- Develop new approaches for storage

3. Develop Tools to Make Good Decisions as we Shape our Water Future

- Predict outcomes of storage, release, withdrawal, and use of water
- Predict outcomes of our planning and policy decisions
- Predict water needs/benefits for ecosystems and impact on other uses

The rest of the story.....

- Finish the interagency strategic plan for water S&T (...and Ocean Action Plan)
- Work with agencies to get priorities built into their planning and budget processes
- Work with OMB to use priorities to guide Administration budget decisions