

RECLAMATION

Managing Water in the West

WaterSMART

Secure and Manage America's Resources for
Tomorrow



U.S. Department of the Interior
Bureau of Reclamation

SECURE Water Act

Science and Engineering to Comprehensively Understand and Responsibly Enhance

- The SECURE Water Act is implemented through the WaterSMART Program
- The SECURE Water Act authorizes federal water and science agencies to work together with state and local water managers to:
 - Plan for climate change and the other threats to our water supplies; and
 - Take action to secure our water resources for the communities, economies, and the ecosystems they support



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WaterSMART Program



- Department wide program
- Established by Secretary Salazar in 2010
- Focus
 - improving water conservation
 - sustainability
 - helping water resource managers make sound decisions about water use
 - strategies to ensure that this and future generations will have sufficient supplies of clean water for drinking, economic activities, recreation and ecosystem health
 - adaptive measures to address climate change and its impact on future water demands

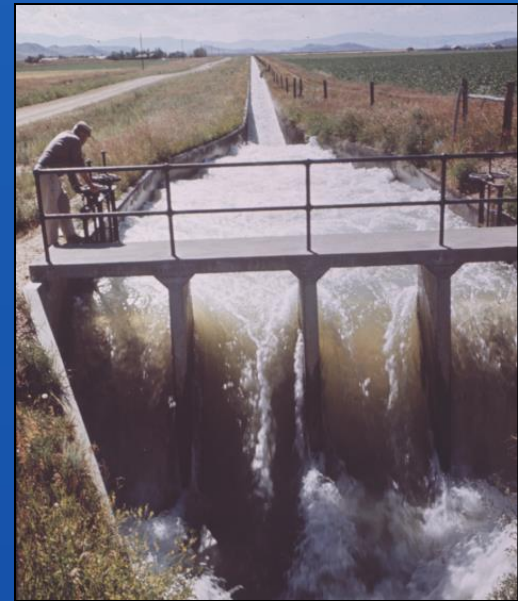
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Reclamation's Components of WaterSMART

- **WaterSMART Grants**
 - Water and Energy Efficiency Grants
 - System Optimization Reviews
- **Title XVI Water Reclamation and Reuse Program**
- **Basin Study Program**
 - West-Wide Climate Risk Assessments
 - Basin Studies
 - Landscape Conservation Cooperatives
- **Cooperative Watershed Management Program**

WaterSMART Grants

- Implement Section 9504 of the Secure Water Act
- 50% non-Federal cost-share
- Selected through a competitive process



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WaterSMART Grant Funding Opportunity Announcements

- **Water and Energy Efficiency Grants (WEEG)**
 - Water Conservation
 - Energy Efficiency
 - Addressing Endangered Species Concerns
 - Water Banks and Water Markets
- **System Optimization Reviews (SOR)**

Water and Energy Efficiency Grants

- ❖ **Projects should seek to conserve and use water more efficiently, increase the use of renewable energy, protect endangered species, or facilitate water markets.**
- ❖ **Reclamation provides 50/50 cost share funding**
- ❖ **Grants are available to States, Indian tribes, irrigation and water districts, and other organizations with water or power delivery authority.**

Water and Energy Efficiency Grants

❖ Types of projects funded:

- Install water service meters in areas where actual water is currently difficult to measure accurately
- Install soil moisture sensors
- Install new proven lining materials or technology
- Convert open canals to pipeline
- Implement landscape rebate programs – (i.e. turf replacement)
- Construct wind and/or solar power generation systems



System Optimization Reviews (SOR)

- ❖ A System Optimization Review is a broad look at system-wide efficiency focused on improving efficiency and operations of a water delivery system, water district, or water basin. The Review results in a plan of action that focuses on improving efficiency and operations on a regional and basin perspective.
- ❖ Grants are available to States, Indian tribes, irrigation and water districts, and other organizations with water or power delivery authority.

WaterSMART Grants Application Process

- **Timeline**
 - Post FOA on www.grants.gov
 - **Application Deadline**
 - **Review Committee**
 - **Contact applicants**
 - **Award financial assistance agreements**



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WaterSMART Grants Application Process

- **Eligibility**
- **Proposal**
 - **Page limits**
 - **Application Content**
 - **Task Areas**
 - **Funding groups**
 - **Official resolution**
 - **Budget**
 - **Letters of Commitment**
 - **Submission**
 - **Grants.gov**



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Water Conservation Field Services Program

- Established in 1996 to meet requirements of Sec. 210 of the Reclamation Reform Act of 1982 – to encourage water conservation on Reclamation projects
- Areas of emphasis include:
 - Water Management Planning
 - Water Conservation Education
 - Demonstration of Innovative Technologies
 - Implementation of Conservation Measures

Water Conservation Field Services Program

- In many ways operates like a 'mini' WaterSMART grant:
 - Advertises on grants.gov, and generally uses the same Authority, but has others that may apply
 - Requires a minimum 50% cost share, selected by a competitive process
- Is different from the WaterSMART grants:
 - Operated at the Area Office level
 - Demonstrate connection to a Reclamation project
 - Generally \$100,000 or less
 - Includes technical assistance

Title XVI Water Reclamation and Reuse Program

- Title XVI of P.L. 102-575 (1992)
- Program to...
 - investigate and identify opportunities for reclamation and reuse of
 - municipal,
 - industrial,
 - domestic, and
 - agricultural wastewater, and
 - naturally impaired ground and surface waters,
 - design and construction of demonstration and permanent facilities to reclaim and reuse wastewater,



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Cooperative Watershed Management Program

- **Purpose** → is to improve water quality and ecological resilience, and to reduce conflicts over water at the watershed level, by supporting the formation of watershed groups to develop local solutions to address water management issues
- Phase I FOA for the establishment or expansion of an existing watershed group
 - up to \$50,000 per award, per year, for a period of up to two years
 - No Non-Federal cost-share required
- Phase II and III FOAs expected once additional funding is available
 - watershed management projects

Basin Study Program

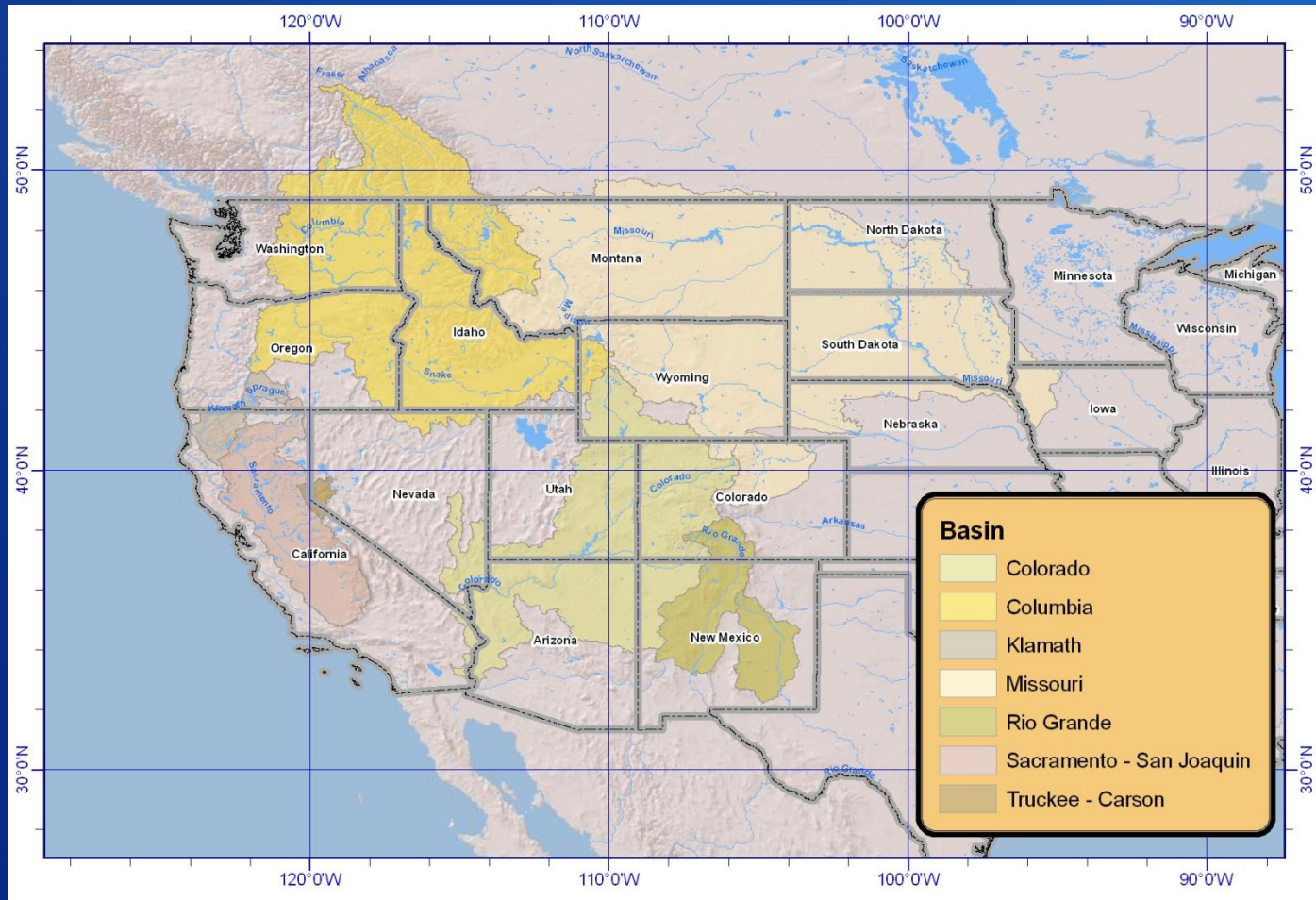


- **West-Wide Climate Risk Assessments (WWCRAs)**
 - Consistent approach throughout the west to assess the impacts of climate change to water supplies as a baseline
- **Basin Studies**
 - Basin Studies - Reclamation works with state and local partners to develop potential mitigation and adaptation strategies to meet future demands in light of the impacts of climate change.
 - **Secure Water Feasibility Studies**
- **Landscape Conservation Cooperatives (LCCs)**
 - Management – Science Partnerships addressing climate change and other stressors across a landscape

West-Wide Climate Risk Assessments

- **Conducted by Reclamation**
- **Reconnaissance-level water supply and demand analyses in eight Reclamation river basins**
- **Projections of climate change impacts to water supply and demand and baseline risk assessments to evaluate the impacts of climate change to water uses**
- **Baseline for more in-depth analyses performed through Basin Studies**

WWCRA Extent



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Basin Studies

- **Work with state and local partners in the 17 Western States to evaluate future water supply and demand imbalances in a changing climate**
- **50/50 Cost-share**
not financial assistance
- **Focus on development of potential mitigation and adaptation strategies to meet future demands**
- **Eligible Applicants**
 - **States, tribes, water districts, cities, and other local governmental entities with water delivery or management authority located in the 17 Western States**
- **Timeline**
 - **Must be completed within 24 months**

Elements of a Basin Study



1. Projections of future supply and demand, including the impacts of climate change
2. Analysis of how the basin's existing water and power operations and infrastructure will perform in response to the projections of future water supplies and demands
3. Development of options to improve operations and infrastructure to supply adequate water in the future
4. Trade-off analysis of the options identified, findings, and recommendations as appropriate



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Basin Studies Selection Process

- **Step 1 – Letters of Interest:**
 - Regional Invitation Letter
 - Letters of interest submitted to regional offices
 - Regional review
- **Step 2 – Study Proposal:**
 - Development of proposal
 - Application Review Committee (ARC)
 - Washington approval
 - Announcement

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