WaterSMART Program

- Implements SECURE Water Act, Public Law 111-11

- Established in 2010 by Secretary Salazar to...
  - Improve water conservation
  - Promote sustainability
  - Help water resource managers make decisions about water use
  - Develop strategies to ensure sufficient of water for multiple uses
  - Develop adaptive measures to climate change and its on future water demands
Reclamation’s WaterSMART Components

- **WaterSMART Grants**
  - Water and Energy Efficiency Grants
  - System Optimization Reviews
  - Advanced Water Treatment Pilot and Demonstration Projects
  - Grants to Develop Climate Analysis Tools

- **Water Conservation Field Services**

- **Title XVI Water Reclamation and Reuse Program**

- **Basin Study Program**
  - West-Wide Climate Risk Assessments
  - Basin Studies
  - Landscape Conservation Cooperatives

- **WaterSMART Clearinghouse**
Basin Study Program

- West-Wide Climate Risk Assessments
- Basin Studies
  - Basin Studies
  - Secure Water Feasibility Studies
- Landscape Conservation Cooperatives
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 impacts of climate change to water uses

- Baseline for more in-depth analyses performed through Basin Studies
SECURE Water Act Section 9503(c) – Reclamation Climate Change and Water – April 2011
Projected median temperature (° F) and precipitation (%) changes at the end of 21st century (2070–2099) relative to historic conditions (1950–1979)
Mid-Pacific Region Hydro-Climate Projections

Klamath Basin
Sacramento-San Joaquin Basins
Truckee-Carson Basins

Note: Runoff scales vary by basin
Basin Studies

- **Purpose**
  - Work with state and local partners in 17 Western States to evaluate future water supply and demand imbalances in a changing climate

- **Basin Studies Include:**
  - Assessments of the risks and impacts of climate change on water resources, and
  - Development of potential mitigation and adaptation strategies to meet future demands
  - Propose Feasibility-Level Investigations
Basin Study Elements

1. Assessment of existing & future supplies and demands, including impacts of climate change

2. Analysis of how basin’s existing water and power operations and infrastructure will perform in response to projections of future water supplies and demands

3. Development of options to improve operations and infrastructure to supply adequate water in future

4. Trade-off analysis of options identified, findings, and recommendations for adaptive responses to changes identified

5. Recommendations for Future Feasibility Studies
Basin Study Partners and Stakeholders

- Cost-Share Partners include Reclamation, DWR, Stockton East Water District, Calif Partnership for San Joaquin Valley

- Seeking additional non-federal partners to support full cost of study; consistent with IRWM Regions; 50/50 cost share required

- Complements and builds on other ongoing studies, information, and outreach (e.g., DWR’s Water Plan 2013 process, Reclamation’s Central Valley Project – Integrated Resources Plan, BDCP, DHCCP)

- Includes public involvement and outreach
Sacramento - San Joaquin Basins Study

• Phase 1 Plan of Study Proposal
  ➢ Phase 1 Awarded in August 2011
  ➢ Completed Plan of Study October 2011

• Phase 2 – Basin Study
  ➢ Application Process / Letters of Interest due from non-federal partners by 11/30/2011
  ➢ Basin Study Funding Proposal – Feb 2012
  ➢ Funding Announced – March 2012

• Basin Study Timeline
  ➢ Partners complete MOA in June 2012
  ➢ Study start about October 2012
  ➢ Complete within 24 months
Mid-Pacific Region - Basin Studies

KLAMATH BASIN STUDY PROPOSAL
A COOPERATIVE PROPOSAL SUBMITTED BY
STATE OF OREGON - WATER RESOURCES DEPARTMENT
STATE OF CALIFORNIA - DEPARTMENT OF WATER RESOURCES

Truckee River Basin Study
Climate Change and Water Resources Assessment
Plan of Study

With Cost-Share Participation by these Major Study Partners:

TAHOE REGIONAL PLANNING AGENCY
Placer County Waters Agency
Truckee Meadows Water Authority
Truckee River Flood Management Authority

RECLAMATION
Basin Study Information

http://www.usbr.gov/WaterSMART/basin

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