

# RECLAMATION

*Managing Water in the West*

## **Fiscal Year 2011 Funding Opportunities**

**WESTCAS 2010 Annual Conference  
Catamaran Resort and Spa  
San Diego, CA  
June 16 – 18, 2010**

**William Steele, Area Manager  
Southern California Area Office**



U.S. Department of the Interior  
Bureau of Reclamation

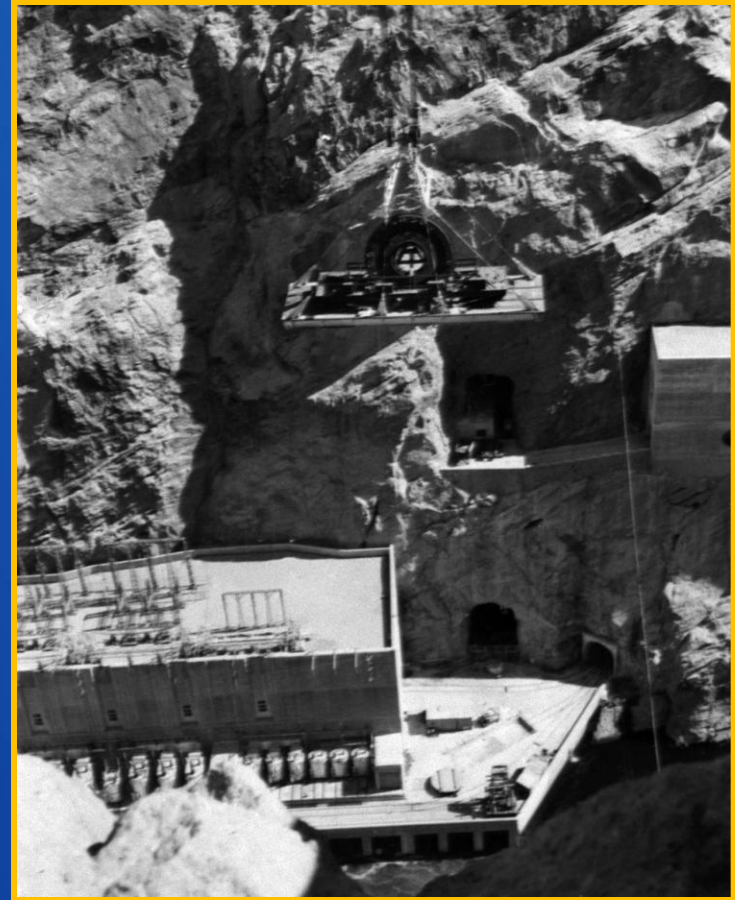
# Reclamation Act of 1902



Agricultural Project, 1910



Concrete canal lining  
project, 1913

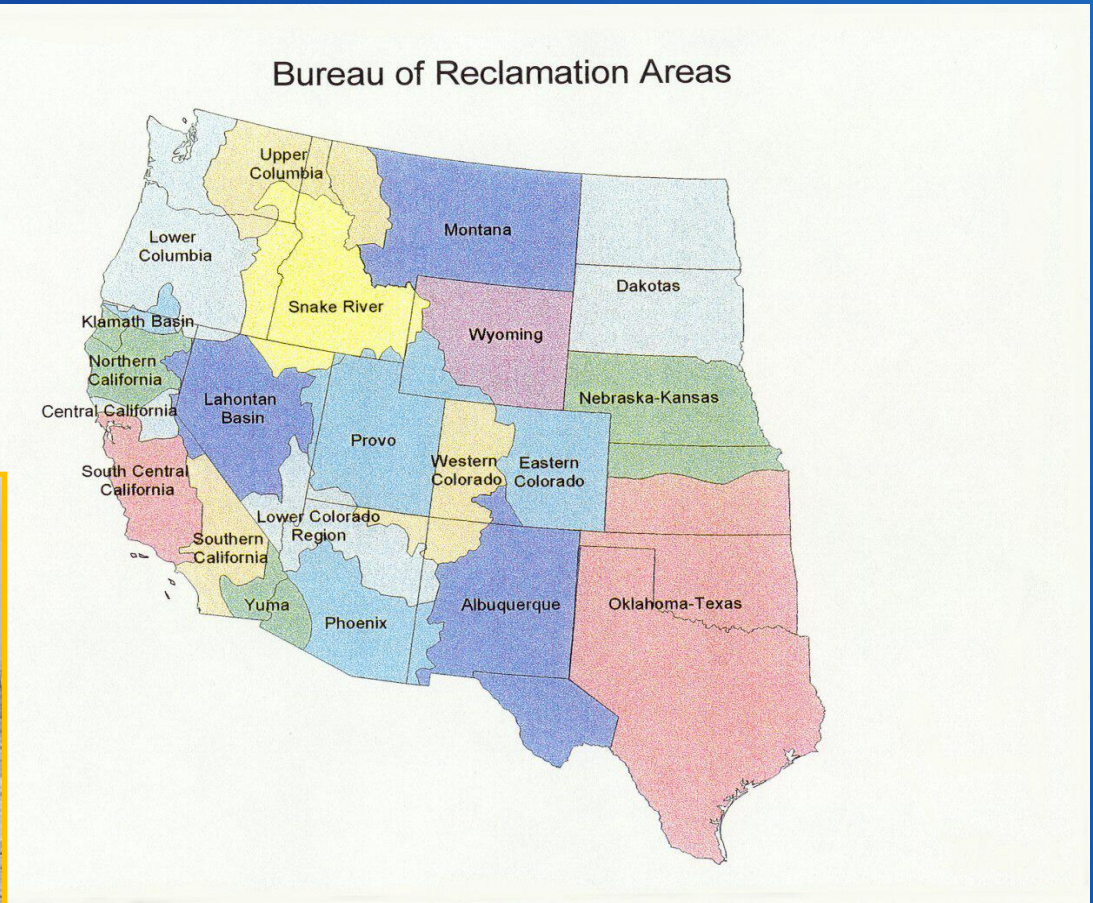


Boulder Canyon Dam, 1946

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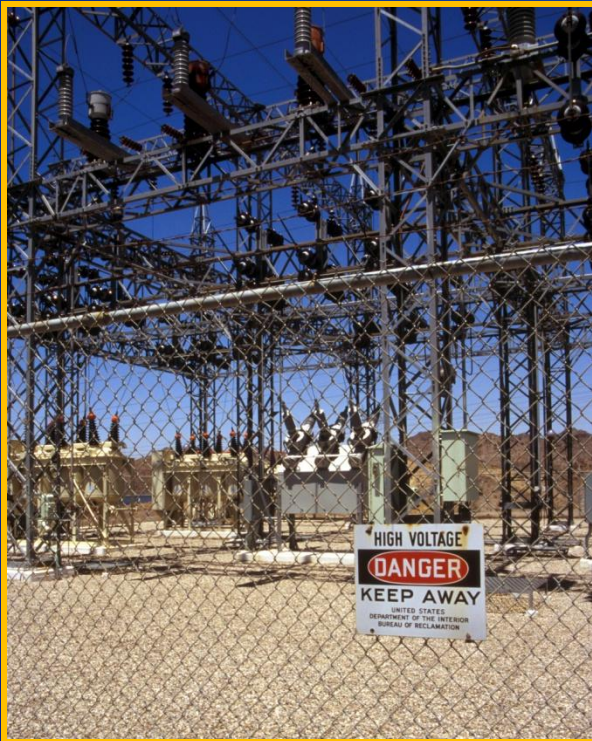
# Bureau of Reclamation



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# Bureau of Reclamation

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.



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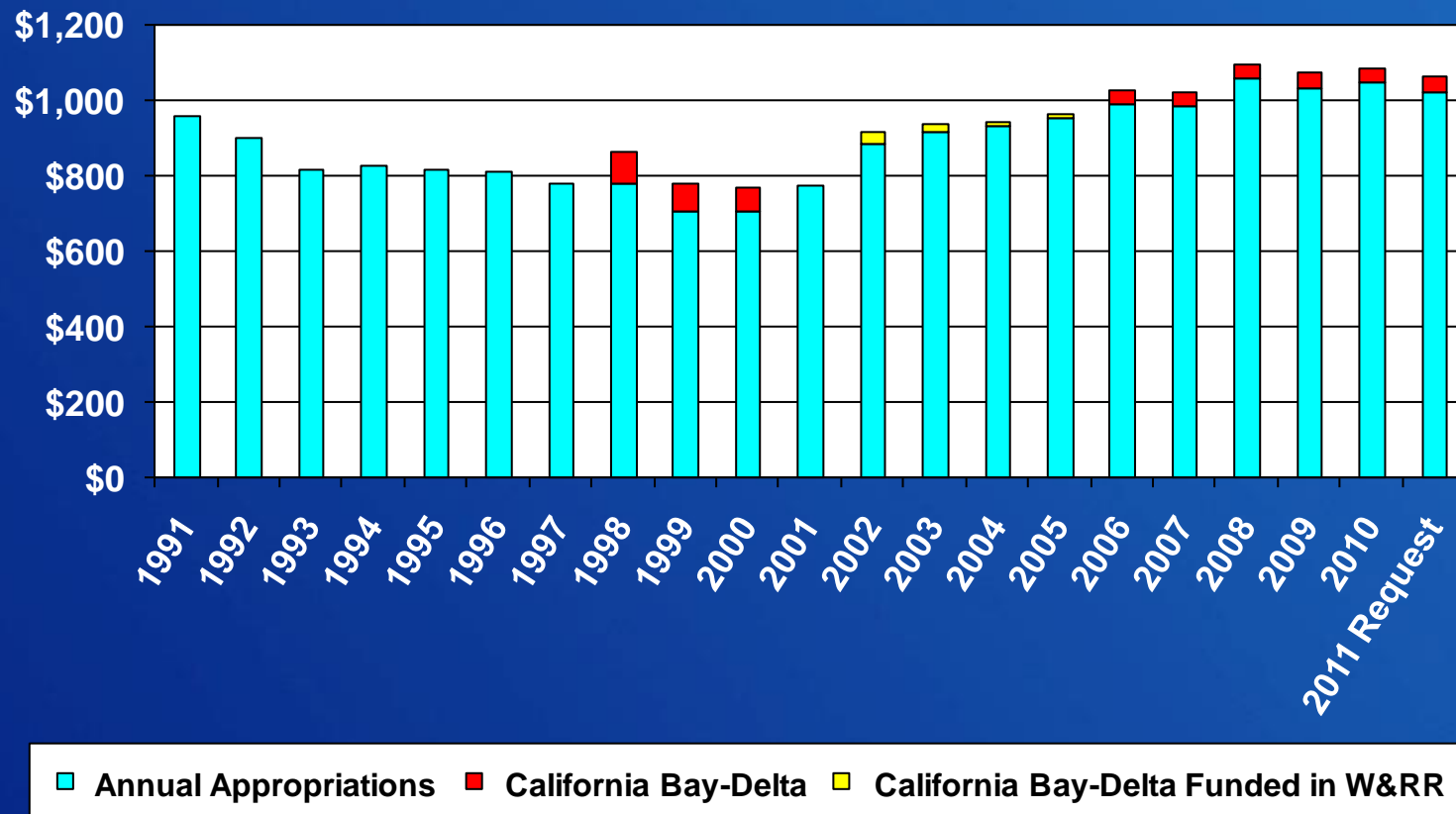
# Bureau of Reclamation (Historical)

- **Produces 245 million acre-feet on water on an average year**
- **Irrigates 10 million acres per year**
  - 60% U.S. vegetables
  - 25% U.S. fruits/nuts
- **Recreation**
  - > 300 water-based recreation sites
  - 90 million visitor days per year
- **Operates 348 dams & reservoirs**
- **Serves water to 31 million people**
  - municipal
  - rural
  - industrial
- **Reclamation is**
  - the 2nd largest hydro producer
  - 5th largest electric utility
  - 58 hydropower facilities
  - 42 billion kilowatt hours

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# History of Appropriations

(\$ in millions)



# Secretarial Initiatives

- **WaterSMART Program**
  - Sustain and Manage America's Resources for Tomorrow
  - Supports Interior's High Priority Performance Goal, which seeks to conserve an estimated 350,000 acre-feet of water by 2012
- **Climate Impacts**
  - Determine causes & formulate solutions to mitigate climate impacts
- **The New Energy Frontier**
  - Clean energy and responsibly developing conventional energy
- **Treasured Landscapes**
  - Restore, protect and preserve key ecosystems and protect, operate and maintain landscapes
- **Empowering Tribal Nations**
  - Advance Nation-to-Nation relationships, improve Indian education & safety and reform trust land management
- **21<sup>st</sup> Century Youth Conservation Corps**
  - Increase employment of youth in natural resources

# Components of The WaterSMART Program

- WaterSMART Grants
- Basin Studies
- Title XVI Water Reclamation and Reuse Program
- WaterSMART Clearinghouse



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# WaterSMART Program

Sustain and Manage America's Resources for Tomorrow (\$ in millions)

	FY 2009	FY 2010	FY 2011
Project/Program	Enacted	Enacted	Request
WaterSMART Grants (formerly Challenge Grants)	\$7.0	\$18.0	\$27.0
Basin Studies	\$4.0	\$3.0	\$6.0
Title XVI - Commissioner's Office <sup>/1</sup>			\$20.2
Title XVI, Water Reuse Projects	\$39.2	\$13.6	\$8.8
<b>TOTAL</b>	<b>\$50.2</b>	<b>\$34.6</b>	<b>\$62.0</b>

<sup>/1</sup> \$20M for Title XVI Funding Opportunity, \$200K for reviews of Title XVI feasibility studies

## Working to achieve a sustainable water strategy to meet our Nation's water needs:

- cost-shared grants for conservation and water management improvement projects;
- Basin-wide planning studies that will address the water related impacts of climate change; and
- Continued water reuse and recycling projects

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# WaterSMART Grants

- WaterSMART Grants implement Section 9504 of the Secure Water Act by providing cost-shared funding on a competitive basis to address crucial water supply issues, stretch limited water supplies, and improve water management.



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# WaterSMART Grants

- Grants will be available to States, tribes, irrigation and water districts, and other entities with water or power delivery authority.
- WaterSMART Grants will leverage Federal funding by requiring a 50% non-Federal cost-share contribution.
- Grant projects are selected through a competitive process.
- Since 2004 \$73.8 million in Federal funding has been awarded to projects in 16 Western States resulting in estimated water savings of approximately 580,000 acre-feet.

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# WaterSMART Grants Budget

- The FY 2010 enacted budget is \$18 million.
- With the \$27 million requested in FY 2011, Reclamation will be able to fund 60 to 75 new projects.

FY 2009 Enacted	FY 2009 Recovery Act	FY 2010 Enacted	FY 2011 Requested
\$7 million	\$40 million	\$18 million	\$27 million

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# Title XVI Water Reclamation and Reuse Program

- This Program identifies and investigates opportunities to reclaim and reuse wastewaters and naturally impaired ground and surface water through planning studies and construction activities.



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# Title XVI

- Title XVI construction funding is provided to projects specifically authorized by Congress and undertaken by local government entities.
- There are currently 53 authorized Title XVI projects.
- Through Title XVI over \$520 million in Federal cost-share has been leveraged with more than \$1.7 billion in non-Federal funding since 1992, and in FY 2009 an estimated 245,000 acre-feet of water was recycled through Title XVI projects.

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# Title XVI Budget – FY 2010

- The Title XVI Program is budgeted for by the regions.
- The FY 2010 enacted budget is over \$13 million.

FY 2009 Enacted	FY 2009 Recovery Act	FY 2010 Enacted	FY 2011 Requested
<b>\$39.2 million</b>	<b>\$135 million</b>	<b>\$13.6 million</b>	<b>\$29 million</b>

# 2010 Funding Opportunity Announcements

- There will be 4 Funding Opportunity Announcements in 2010 for the following types of projects.
  - Water and Energy Efficiency Grants
    - Water Conservation
    - Energy Efficiency
    - Addressing Endangered Species Concerns
    - Water Banks and Water Markets
  - System Optimization Reviews
  - Advanced Water Treatment Pilot and Demonstration Projects
  - Research Grants for Non-Profits and Universities

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# Title XVI New Funding Opportunity for 2011

- In FY 2011 \$20 million has been requested, and will be distributed through a competitive selection process.
- If final appropriations allow it, Reclamation will post an announcement inviting eligible project sponsors to apply for funding.
- Projects will be selected using criteria focused on reducing existing diversions or addressing specific water supply issues, addressing environmental and water quality concerns, and meeting other program goals.

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# WaterSMART – New Criteria

## Title XVI –Recycling and Reuse

- Reclamation is currently developing funding criteria for a fiscal year 2011 Title XVI funding opportunity, as outlined in the President's budget request. Although an opportunity for comment has closed, the draft criteria can be viewed at <http://www.usbr.gov/WaterSMART/docs/draftXVIcriteria.pdf>. Once comments have been evaluated, revisions to the criteria will be posted here.
- To join our email list for prompt notification of new Title XVI announcements, simply send a blank email to [join-titlexvi@listserver.usbr.gov](mailto:join-titlexvi@listserver.usbr.gov)

# Eligibility

- Any funding opportunity will be open to sponsors of authorized Title XVI projects (for construction activities) and others (for pre-construction activities such as feasibility study development, financial capability preparation, or environmental compliance). Construction and pre-construction activities that can be commenced in FY 2011 and completed within 24 months may be included in applications for funding. Expenditures made prior to FY 2011 are not eligible for this funding opportunity.
- To be eligible to receive funding for construction activities, a water reclamation and reuse project must be specifically authorized under Title XVI. Funds for construction activities associated with an individual project will not be disbursed until all Title XVI pre-construction requirements have been met for that project.

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# Eligibility - continued

- These include: (1) a finding that the feasibility study meets the requirements of Title XVI; (2) complete compliance with the National Environmental Policy Act and other environmental clearances; (3) an approved determination of financial capability; and (4) an executed cooperative agreement for financial assistance.
- If the amount of Federal funds currently received (including obligated funds) for the project is less than 25 percent of the overall expenses, then the project sponsor may request Federal funds greater than 25 percent for the proposed activity as long as the overall Federal cost share does not exceed 25 percent of incurred
- expenses.

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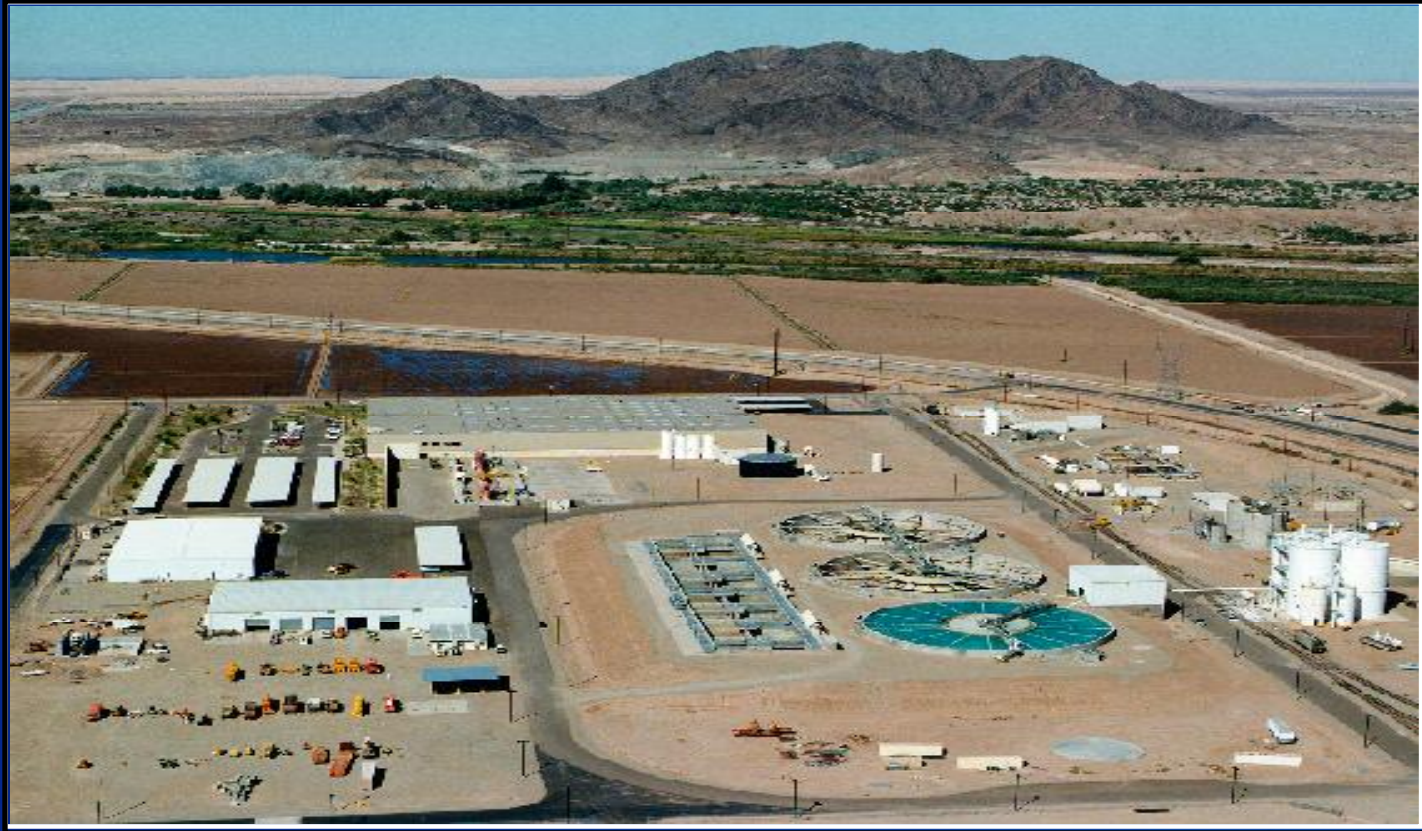


# **Description of Current AWT Research Activities in Reclamation**

- Desalination and Water Purification R&D Program (national in scope)
  - Brackish Groundwater National Desalination Research Facility
- Science and Technology Program (internal, Reclamation-wide)
  - Chlorine resistant membrane, Forward osmosis, treatment of produced water, pretreatment, etc.

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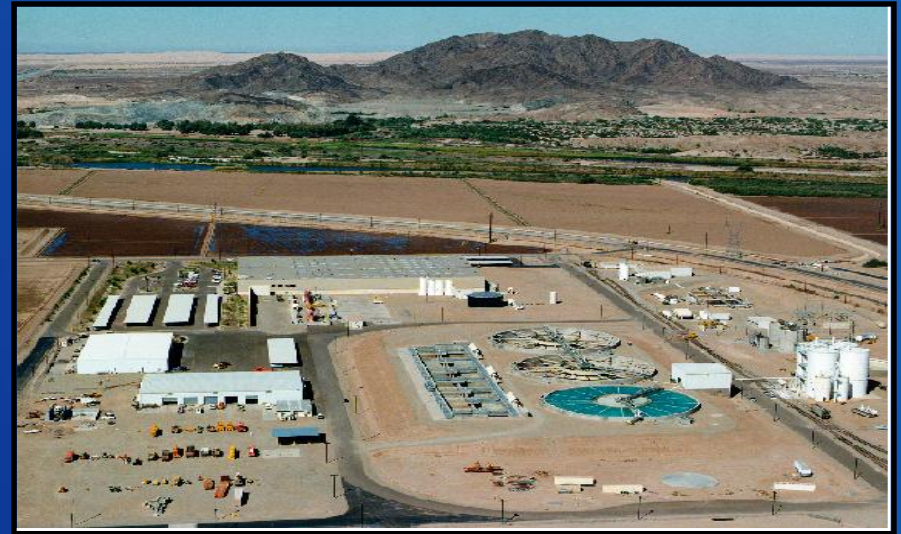
# Title I Desalination Plant - Yuma, AZ



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# Water Quality Improvement Center - Yuma, AZ

- Evaluates technology for possible use at the Yuma Desalting Plant
- In-house and partnered research programs
- Agricultural tail water, brackish groundwater, Colorado River water
- Only bench-to-pilot-scale water research facility on Lower Colorado River
- A Desalination R&D laboratory facility



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# Tularosa Basin National Desalination Research Facility

- Desalination of brackish groundwater
- Concentrate management
- Renewable energy sources for desalination
- Public information and education
- April 2005, first demonstration on site, Office of Naval Research's EUWP
- Partnership of Reclamation and an Executive Committee of multidisciplinary experts



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# Research Budgets for FY10 & FY11 (dollars in millions)

Program	FY2010 (enacted)	FY2011 (requested)
DWPR BGNDRF	\$1.5	\$1.6
Partnership with NMSU		
USBR Research Grants & admin.	\$2.0	\$2.0
<b>Science &amp; Technology</b>	\$0.9	\$0.9
<b>Title XVI</b>		
WateReuse Foundation	\$2.5	\$0
<b>Challenge Grants</b>		
Pilot and demo.	\$2.0	a portion of \$27.0

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# SECURE Water Act

- Science and Engineering to Comprehensively Understand and Responsibly Enhance Water Act
  - Assessing climate change impacts on water supply and demand
  - Developing mitigation strategies to achieve sustainable supply and use. (Basin Studies)
  - Implementing strategies to increase efficiency and achieve sustainable water supplies

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# Restoring Rivers

- Central Valley Project:
  - Trinity Restoration - \$11.8 M
  - Red Bluff - \$39.9 M
- Platte River Recovery
  - \$12.7 M
- Upper Colo Recovery
  - \$8.4 M
- Yakima Water Enhancement
  - \$12.4 M
- Columbia/Snake River Salmon Recovery
  - \$18.0 M
- Klamath Project
  - \$22.5 M
- Klamath Dam Removal Study
  - \$5.0 M
- LCROP – Multi-Species Conservation Program
  - \$16.5 M
- Middle Rio Grande - ESA
  - \$13.8 M
- California Bay-Delta
- CVP Restoration Fund
- San Joaquin River Restoration



Bull Trout



White Sturgeon

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# Reclamation Rural Water Program

- Cost-sharing of appraisal and feasibility studies , including.....

”(III) water treatment facilities for potable water supplies, including desalination facilities;”

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# Rural Water Projects

(\$ in millions)

FY 2009 <u>Enacted</u> \$139.3	FY 2010 <u>Enacted</u> \$121.3	FY 2011 <u>Request</u> \$62.0
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Includes \$62.0 million in funding for 7 ongoing rural water projects in North Dakota, South Dakota, Montana, & New Mexico.

Five of the projects benefit Tribal Nations.

Of this amount, \$15.5 million for operation & maintenance of tribal features for Mni Wiconi and Garrison.

Balance of \$46.5 million is for continued construction of the 7 projects.

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# Friendly Discussion of Water Rights



*Discussing Water Rights, A Western Pastime*

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# Questions?



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