

RECLAMATION

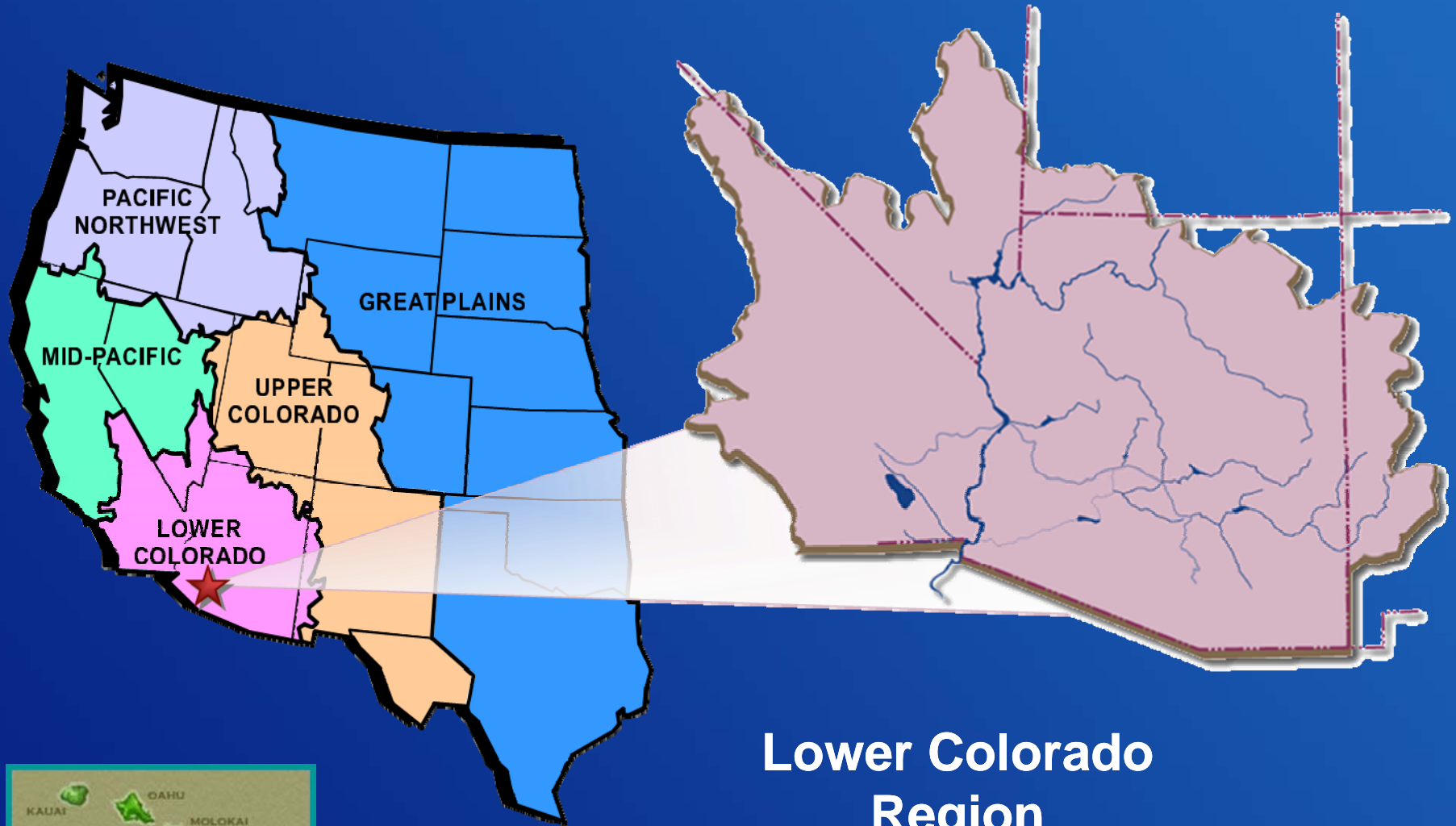
Managing Water in the West

WaterSMART Grants



U.S. Department of the Interior
Bureau of Reclamation

Reclamation Regions



Lower Colorado
Region

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Phoenix Area Office Service Area

Reclamation Mission

To manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

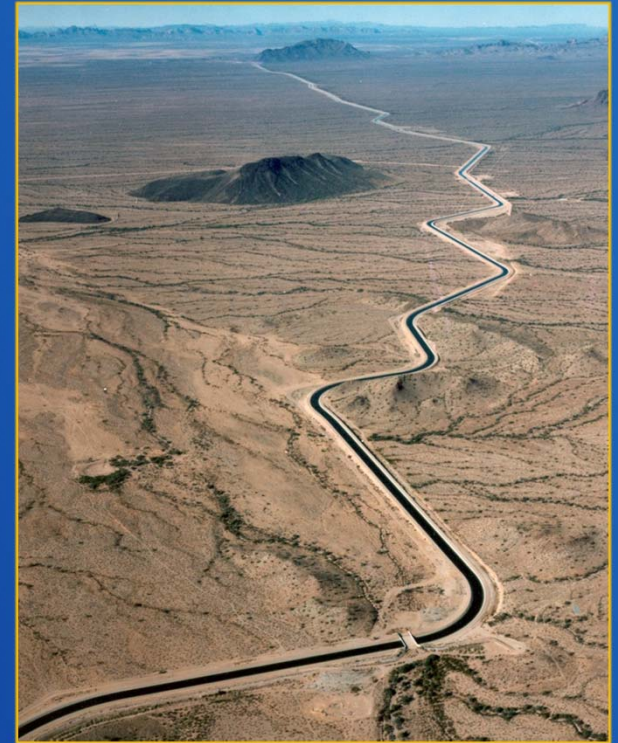


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Water Related Facilities and Uses



Hoover Dam



CAP



Environmental Uses

Agricultural Use



Municipal Use

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Overview

- WaterSMART Programs
- NEPA
- How do I get a grant?
- What's a FOA?
- Suggestions to improve your proposals

WaterSMART Program

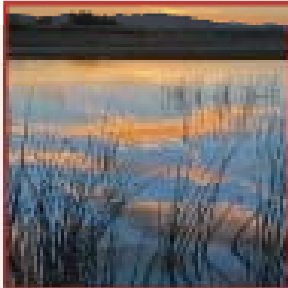
Sustain and Manage America's Resources for
Tomorrow

- Working to achieve a sustainable water strategy to meet the Nation's water needs
- Managed out of Reclamation's Denver Office
- Reclamation Wide programs



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WaterSMART Program



Basin Study Program

Collaborative Planning



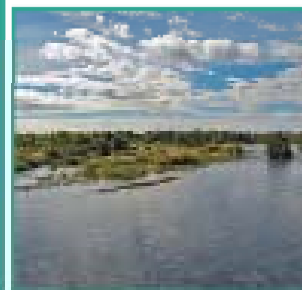
Title XVI Program

Water Reclamation and Reuse



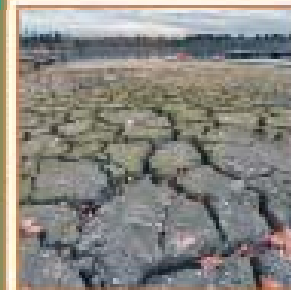
WaterSMART Grants

Water Conservation and Efficiency



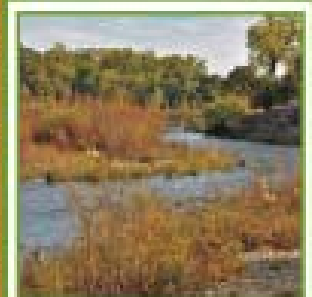
Water Conservation Field Services Program

Water Conservation Planning and Design



Drought Response Program

Planning and Building Resiliency



Cooperative Watershed Management Program

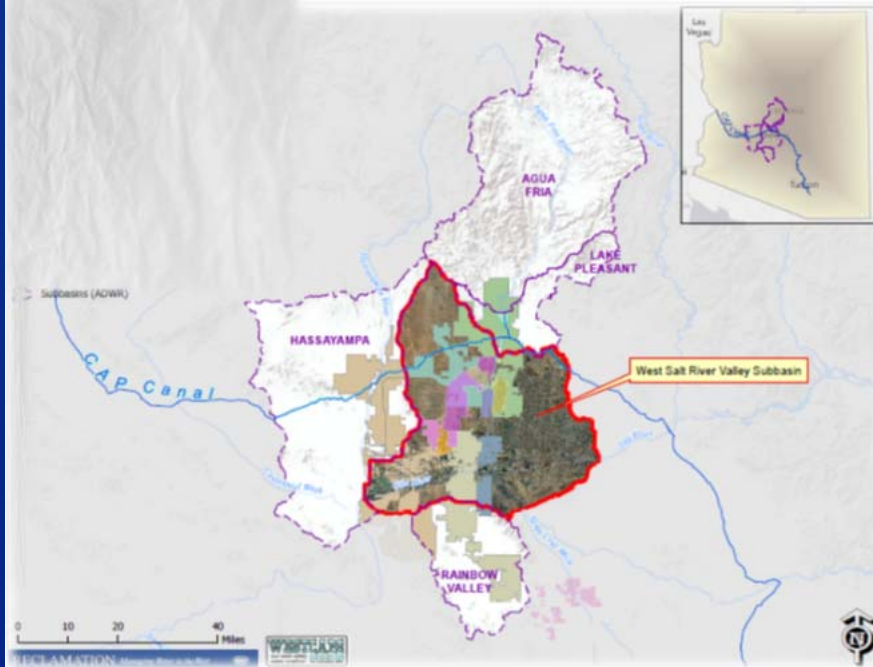
Watershed Management and Restoration

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Basin Studies Program



Metropolitan Phoenix West Salt River Valley Basin Study



Plan of Study



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Basin Studies Program- Program Requirements

Basin Studies Program

- Studies to evaluate climate change and help ensure water supplies by identifying water supply and demand

Eligible Applicants

- States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority

Cost Share

- 50% non-Federal cost-share required

Basin Study

- Up to \$500,000 and completed within 3 years

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Basin Studies Program

- **Completed Arizona Basin Studies**
 - 2012 Colorado River Basin Study

- **Current Arizona Basin Studies**
 - 2013 West Salt River Valley Basin Study
 - 2015 Lower Santa Cruz River Basin Study
 - 2017 Eloy and Maricopa-Stanfield Basin Study

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Title XVI – Water Recycling and Reuse Program

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Managing Water in the West

Funding Opportunity Announcement No. BOR-DO-17-F003

**WaterSMART:
Development of Feasibility Studies under
the Title XVI Water Reclamation and Reuse
Program for Fiscal Year 2017**



U.S. Department of the Interior
Bureau of Reclamation
Policy and Administration
Denver, Colorado

October 2016

RECLAMATION

Managing Water in the West

Funding Opportunity Announcement No. BOR-DO-17-F004

**WaterSMART:
Water Reclamation Research under the
Title XVI Water Reclamation and Reuse
Program for Fiscal Year 2017**



U.S. Department of the Interior
Bureau of Reclamation
Policy and Administration
Denver, Colorado

November 2016

RECLAMATION

Title XVI – Water Recycling and Reuse Program

Title XVI Water Reclamation and Reuse

- Planning, design, and/or construction of Title XVI authorized projects

Eligible Applicants

- Sponsors of water reclamation and reuse projects specifically authorized for funding under Title XVI of Public Law (P.L.) 102-575, as amended

Cost Share

- 75% non-Federal cost-share requirement

Federal Funding

- Up to 25% of the total cost of planning, design, and/or construction that has either already been completed or will be conducted within 2 years

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Title XVI – Water Recycling and Reuse Program

Development of Feasibility Studies

- Development of new water reuse feasibility studies

Eligible Applicants

- States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority

Cost Share

- 50% non-Federal cost-share requirement

Funding Group I

- Up to \$150,000 Federal Funding
- Completed within 18 months

Funding Group II

- Up to \$450,000 Federal Funding
- Completed within 3 years

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Title XVI – Water Recycling and Reuse Program

Water Reclamation Research

- Address water supply challenges by establishing or expanding of water reclamation and reuse markets, improving existing water reuse facilities, and/or streamlining the implementation of state of the art technology for new facilities

Eligible Applicants

- States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority

Cost Share

- 75% non-Federal cost-share requirement

Funding Group I

- Up to \$75,000 Federal Funding
- Completed within 18 months

Funding Group II

- Up to \$150,000 Federal Funding
- Completed within 2 years

Funding Group III

- Up to \$300,000 Federal Funding
- Completed within 3 years

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WaterSMART Grants

- SCADA (supervisory control and data acquisition)
- Canal Lining
- Leak Detection
- Water Metering
- Well Conversions
- Marketing
- Irrigation Measures
- Groundwater Recharge

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Funding Opportunity Announcement No. BOR-DO-17-F012

**WaterSMART Grants:
Water and Energy Efficiency Grants for
Fiscal Year 2017**




U.S. Department of the Interior
Bureau of Reclamation
Policy and Administration
Denver, Colorado

November 2016

RECLAMATION
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Funding Opportunity Announcement No. BOR-DO-17-F011

**WaterSMART Grants:
Small-Scale Water Efficiency
Projects for Fiscal Year 2017**



U.S. Department of the Interior
Bureau of Reclamation
Policy and Administration
Denver, Colorado

November 2016

RECLAMATION
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Funding Opportunity Announcement No. BOR-DO-17-F014

**WaterSMART Grants:
Water Marketing Strategy Grants
for Fiscal Year 2017**



U.S. Department of the Interior
Bureau of Reclamation
Policy and Administration
Denver, Colorado

February 2017

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WaterSMART Grants

Water and Energy Efficiency Grants Funding

- Projects that result in quantifiable and sustained water savings, increase renewable energy use and improve energy efficiency, address endangered species issues and broader water sustainability benefits

Small-Scale Water Efficiency Projects Funding

- Support small-scale water management projects that have been identified through previous planning efforts

Water Marketing Funding

- Conduct planning activities to develop a water marketing strategy to establish or expand water markets or water marketing transactions

RECLAMATION

WaterSMART Grants

Eligible Applicants

- States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority

Cost Share

- 50% non-Federal cost-share requirement

Water and Energy Efficiency Grants Funding

- Funding Group I: Up to \$300,000 and completed within 2 years
- Funding Group II: Up to \$1,000,000 and completed within 3 years

Small-Scale Water Efficiency Projects Funding

- Up to \$75,000 and completed within 2 years
- Total project cost of \$150,000

Water Marketing Funding

- Funding Group I: Up to \$200,000 and completed within 2 years
- Funding Group II: Up to \$400,000 and completed within 3 years

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Water and Energy Efficiency Grants

- **2013 City of Goodyear, AZ**
 - Initial Vadose Zone Recharge
- **2013 Avra Valley Irrigation and Drainage District, AZ**
 - Water and Energy Efficiency Improvement Program
- **2014 City of Peoria, AZ**
 - Implementation of Adaptation Strategies
- **2015 City of Nogales, AZ**
 - Drinking Water System Endpoint, Efficiency, and Improvement Program

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Small-Scale Water Efficiency Grants 2017

- **Unit B Irrigation and Drainage District , AZ**
 - B16 East Pipeline Conservation Project
- **Yuma Irrigation District, AZ**
 - Magmeter Implementation Program
- **North Gila Valley Irrigation and Drainage District, AZ**
 - McPherson Lateral Lining – Phase II
- **Arizona Water Company, AZ**
 - White Tank SCADA Water Efficiency Project
- **Roosevelt Irrigation District, AZ**
 - Main Canal Spill Reduction

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Water Conservation Field Services Program

- Water Management Plans
- Project Designs
- System Optimization Reviews
- Demonstration Projects



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Water Conservation Field Services Program

Water Management Planning

- Development of written water management and/or conservation plans

System Optimization Review

- A system review to assess water management improvements and to identify a plan of action for implementing the improvements

Designing Water Management Improvements

- Design of improvement projects such as pipelines, canal lining, water measurement structures, or other water management improvement projects

Demonstration Projects

- Demonstrate innovative technologies to increase technical understanding of unfamiliar water management and conservation principles and practices that have not been previously used locally

RECLAMATION

Water Conservation Field Services Program

Eligible Applicants

- States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority

Cost Share

- 50% non-Federal cost-share requirement

Water Management Planning

- Up to \$99,000 Federal Funding
- Completed within 2 years

System Optimization Review

- Up to \$99,000 Federal Funding
- Completed within 2 years

Designing Water Management Improvements

- Up to \$99,000 Federal Funding
- Completed within 2 years

Demonstration Projects

- Up to \$99,000 Federal Funding
- Completed within 2 years

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System Optimization Review

- **The Harlingen Irrigation District in the Lower Rio Grande Valley in Texas**
- **Providence City in Utah**

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Demonstration Project

- **2017 Arizona Water Company, AZ**
 - **Leak Data Collection Enhancement Project**

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Drought Response Program

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Funding Opportunity Announcement No. BOR-DO-17-F010

WaterSMART Drought Response Program: Drought Resiliency Projects for Fiscal Year 2017



U.S. Department of the Interior
Bureau of Reclamation
Policy and Administration
Denver, Colorado

November 2016

RECLAMATION *Managing Water in the West*

Funding Opportunity Announcement No. BOR-DO-17-F009

WaterSMART Drought Response Program: Drought Contingency Planning Grants for Fiscal Year 2017



U.S. Department of the Interior
Bureau of Reclamation
Policy and Administration
Denver, Colorado

November 2016

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Drought Response Program- Program Requirements

Drought Projects

- Drought resiliency projects that will help communities prepare for and respond to drought

Drought Plans

- Develop a drought contingency plan or to update an existing plan

Drought Response Program- Program Requirements

Eligible Applicants

- States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority

Cost Share

- 50% non-Federal cost-share required

Drought Projects

- Funding Group I: Up to \$300,000 and completed within 2 years
- Funding Group II: Up to \$750,000 and completed within 3 years

Drought Plans

- Up to \$200,000 per plan
- Completed within 2 years

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Drought Response Program

- **2015 City of Phoenix, AZ**
 - **Drought Resiliency Project - Deer Valley ASR Well Project**

- **2016 City of Gallup, NM**
 - **Drought Contingency Plan**

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Cooperative Watershed Management Program

Sierra Streams
Institute in north-
central California

Flathead Basin
Commission in western
Montana

Clark Fork Coalition near
Missoula, Montana

Land Trust of the Treasure
Valley in Idaho

Blackfoot
Challenge in
western Montana

Middle Colorado Watershed
Council in Western Colorado

Hood River Soil and Water
Conservation District in
Oregon

Western Slope Conservation
Center in Colorado

Rio Grande Restoration,
Inc. in northern New
Mexico



San Juan Resource Conservation
and Development in Colorado

Friends of the Teton River,
Inc. in Idaho

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Cooperative Watershed Management Program

Phase I

- Establish or enlarge a watershed group

Phase II

- Collaborative watershed projects related to ecological resilience, water quality, and water supply

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Cooperative Watershed Management Program

Eligible Applicants

- Phase I: States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority, Watershed Groups, non-profits
- Phase II: Watershed Groups

Cost Share

- 50% non-Federal cost-share required

Phase I

- Up to \$100,000 federal funding
- Completed within 2 years

Phase II

- Up to \$100,000 federal funding
- Completed within 2 years

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Cooperative Watershed Management Grants

- **Phase I: 2016 Tse Si Ani Chapter: Working Across Tribal Borders: Restoring the Black Mesa Watersheds**
Together received funding for further development of a cooperative watershed management group
- **Phase II: 2017 Cienega Watershed Partnership will receive funding to complete streambank and riparian restoration along Cienega Creek and its tributaries in Pima County, Arizona**

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Quantifiable Water Savings

- Canal Lining/Piping
- Municipal Metering
- Irrigation Flow Measurement
- Landscape Irrigation Measures

Energy-Water Nexus

- Renewable energy related to water management and delivery
- Increased energy efficiency

WaterSMART Grants

Water and Energy Efficiency Grants

Increasing Water Supply Reliability

- Water Access and Conveyance System Improvements
- Aquifer Storage and Recovery
- Development of alternative water sources

Improved Water Management

- Modeling
- Decision support tools
- Measurement and Monitoring

Drought Response Program

Drought Resiliency Projects

Small-Scale Water Efficiency Projects

WaterSMART Grants

Small-scale efficiency and water management projects

- Canal Lining/Piping
- Municipal Metering
- Irrigation Flow Measurement.
- Supervisory Control and Data Acquisition (SCADA) and Automation.
- Landscape Irrigation Measures

Watershed Management Projects

Cooperative Watershed Management Program

- Improving Stream Channel Structure and Complexity
- Restoring or Enhancing Floodplains and Riparian Vegetation
- Invasive Species Prevention/Control
- Water Conservation/Management to Improve Ecological Resilience

WaterSMART Construction Opportunities

NEPA Process

- **NEPA- National Environmental Policy Act**
- **All projects funded require NEPA**
- **Expect NEPA to cost at least 5% of the budget and minimum 3 months to complete**



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NEPA Process – 3 Types

- **Categorical Exclusion determination (CATEX) or Categorical Exclusion Checklist (CEC)**
 - Most projects are excluded from a detailed environmental analysis and so a CATEX or CEC is used
- **Environmental Assessment/Finding of No Significant Impact (EA/FONSI)**
- **Environmental Impact Statement (EIS)**

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How do I get a grant?

www.grants.gov

****KEEP APPLYING****

Request for Proposals (RFP)/Request for Application (RFA)/
Funding Opportunity Announcement (FOA)

Give yourself time to write the proposal!

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IMPORTANT

READ THE FOA!!

Read everything in the Funding Opportunity
Announcement and
ask questions if something doesn't make
sense.



RECLAMATION

FOA Table of Contents

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Tips

- Apply for multiple grants, if it is the same project selected for multiple awards, we all talk with each other and the grant opportunity providing the most benefit will be awarded.
- If it is a large project, consider phasing your project and applying for funding in sequential years.
- Don't assume that the Grantor knows you. The committee is made up of people from all over the 17 western states.
- Focus on the Evaluation Criteria.
- Ask for help!

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Tips

- Understand that the 50/50 cost share is non-federal funding, so you could apply for state funding for the same project. The state funding can count as your cost share portion.
- If your application does not get awarded, ask for a debrief to help prepare a better proposal next year.
- Make sure SAM and ASAP registration is current at least one month before due date as it expires each year.



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WaterSMART How-To's in Yuma

- **Wednesday November 15, 2017**
- **How to calculate Water Savings**
- **How to fill out WaterSMART grant applications**
- **Email: sha-lcr-watersmartmtg@usbr.gov**

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Managing Water in the West

Questions?

<http://www.usbr.gov/WaterSMART/>

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