RECLAMATION
Managing Water in the West

WaterSMART Grants

U.S. Department of the Interior
Bureau of Reclamation
Reclamation Regions

Lower Colorado Region
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.
Water Related Facilities and Uses

- Hoover Dam
- CAP
- Agricultural Use
- Environmental Uses
- Municipal Use
Overview

• Reclamation Grant 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
Basin Studies Program
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
**Basin Studies Program- Applied Science Requirements**

<table>
<thead>
<tr>
<th><strong>Applied Science Grant</strong></th>
<th>• Develop hydrologic information and water management tools and improve modeling and forecasting capabilities to increase water supply reliability.</th>
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</table>
| **Eligible Applicants**   | • Category A: States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority  
  • Category B: Universities, nonprofit research institutions, and nonprofit organizations |
| **Cost Share**            | • 50% non-Federal cost-share required |
| **Basin Study**           | • Funding Group I: Up to $150,000 and completed within 2 years  
  • Funding Group II: Up to $300,000 and completed within 3 years |
Title XVI – Water Recycling and Reuse Program

WaterSMART: Title XVI Water Reclamation and Reuse Projects

Funding Opportunity Announcement No. BOR-DO-18-F011

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

May 2018
### Title XVI – Water Recycling and Reuse Program

<table>
<thead>
<tr>
<th><strong>Title XVI Water Reclamation and Reuse</strong></th>
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<tr>
<td>• Planning, design, and/or construction of Title XVI authorized projects</td>
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<tr>
<th><strong>Eligible Applicants</strong></th>
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<tbody>
<tr>
<td>• Sponsors of water reclamation and reuse projects specifically authorized for funding under Title XVI of Public Law (P.L.) 102-575, as amended</td>
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<thead>
<tr>
<th><strong>Cost Share</strong></th>
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<tr>
<td>• 75% non-Federal cost-share requirement</td>
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<tr>
<th><strong>Federal Funding</strong></th>
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<tr>
<td>• 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</td>
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Title XVI – Water Recycling and Reuse Program

- Development of new water reuse feasibility studies
- States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority
- 50% non-Federal cost-share requirement
- Up to $150,000 Federal Funding
- Completed within 18 months
- Up to $450,000 Federal Funding
- Completed within 3 years
Title XVI – Water Recycling and Reuse Program

<table>
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<tr>
<th>Water Reclamation Research</th>
<th>• 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</th>
</tr>
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<tbody>
<tr>
<td>Eligible Applicants</td>
<td>• States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority</td>
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<tr>
<td>Cost Share</td>
<td>• 75% non-Federal cost-share requirement</td>
</tr>
<tr>
<td>Funding Group I</td>
<td>• Up to $75,000 Federal Funding • Completed within 18 months</td>
</tr>
<tr>
<td>Funding Group II</td>
<td>• Up to $150,000 Federal Funding • Completed within 2 years</td>
</tr>
<tr>
<td>Funding Group III</td>
<td>• Up to $300,000 Federal Funding • Completed within 3 years</td>
</tr>
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</table>
### Title XVI – Water Recycling and Reuse Program

| **Desalination Construction Projects Under the WIIN Act** | • Planning, design, and/or construction of Title XVI authorized projects |
| **Eligible Applicants** | • States, Departments of a State, subdivisions of a state, or a public agency organized pursuant to a State law, |
| **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 3 years |
WaterSMART Grants

- SCADA (supervisory control and data acquisition)
- Canal Lining
- Leak Detection
- Water Metering
- Well Conversions
- Marketing
- Irrigation Measures
- Groundwater Recharge
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
Small-Scale Water Efficiency Grants 17&18

- Arizona Water Company, AZ 2017
  - White Tank SCADA Water Efficiency Project

- Roosevelt Irrigation District, AZ 2017
  - Main Canal Spill Reduction

- City of Avondale, AZ 2018
  - Well Booster Station Meter Project

- Cortaro Water Users Association, AZ 2018
  - Supervisory Control & Data Acquisition (SCADA) Project

- Oak Creek Water Company, AZ 2018
  - Meter Upgrade Replacement Program
# WaterSMART Grants

## Water and Energy Efficiency Grants

- Projects that result in quantifiable and sustained water savings or improved water management, increase the use of hydropower in managing and delivering water

## 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
## WaterSMART Grants

<table>
<thead>
<tr>
<th>Eligible Applicants</th>
<th>States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority</th>
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</thead>
<tbody>
<tr>
<td>Cost Share</td>
<td>50% non-Federal cost-share requirement</td>
</tr>
</tbody>
</table>
| 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 to $200,000 |
| 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 |
Water Conservation Field Services Program

- Water Management Plans
- Project Designs
- System Optimization Reviews
- Demonstration Projects
System Optimization Review 2018

- Arizona Department of Water Resources, AZ
  - Evaluation of the Feasibility of Water Augmentation Options to Assist Planning Areas within Arizona

- Gila Valley Irrigation District, AZ
  - Gila Valley Irrigation District System Optimization Review
Demonstration Project

- 2017 Arizona Water Company, AZ
  - Leak Data Collection Enhancement Project
## Water Conservation Field Services Program

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<thead>
<tr>
<th>Service</th>
<th>Description</th>
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<tbody>
<tr>
<td>Water Management Planning</td>
<td>• Development of written water management and/or conservation plans</td>
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<tr>
<td>System Optimization Review</td>
<td>• A system review to assess water management improvements and to identify a plan of action for implementing the improvements</td>
</tr>
<tr>
<td>Designing Water Management Improvements</td>
<td>• Design of improvement projects such as pipelines, canal lining, water measurement structures, or other water management improvement projects</td>
</tr>
<tr>
<td>Demonstration Projects</td>
<td>• Demonstrate innovative technologies to increase technical understanding of unfamiliar water management and conservation principles and practices that have not been previously used locally</td>
</tr>
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## Water Conservation Field Services Program

<table>
<thead>
<tr>
<th>Eligible Applicants</th>
<th>States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority</th>
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<tbody>
<tr>
<td>Cost Share</td>
<td>50% non-Federal cost-share requirement</td>
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</table>
| Water Management Planning | Up to $100,000 Federal Funding  
|                     | Completed within 2 years                                                                                          |
| System Optimization Review | Up to $100,000 Federal Funding  
|                     | Completed within 2 years                                                                                          |
| Designing Water Management Improvements | Up to $100,000 Federal Funding  
|                     | Completed within 2 years                                                                                          |
| Demonstration Projects | Up to $100,000 Federal Funding  
|                     | Completed within 2 years                                                                                          |
Drought Response Program

WaterSMART
Drought Response Program: Drought Resiliency Projects for Fiscal Year 2018

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

November 2017
Drought Response Program

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

• 2016 City of Gallup, NM
  – Drought Contingency Plan
Drought Response Program -
Program Requirements

Drought Projects

- Projects that build long-term resilience to drought and reduce the need for emergency response actions and provide benefits for fish and wildlife and the environment

Drought Plans

- Develop a drought contingency plan or to update an existing plan
<table>
<thead>
<tr>
<th><strong>Eligible Applicants</strong></th>
<th>States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority</th>
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</thead>
<tbody>
<tr>
<td><strong>Cost Share</strong></td>
<td>50% non-Federal cost-share required</td>
</tr>
</tbody>
</table>
| **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 }
Cooperative Watershed Management Program

- Sierra Streams Institute in north-central California
- Flathead Basin Commission in western Montana
- Clark Fork Coalition near Missoula, Montana
- Middle Colorado Watershed Council in Western Colorado
- Hood River Soil and Water Conservation District in Oregon
- Western Slope Conservation Center in Colorado
- Friends of the Teton River, Inc. in Idaho
- Land Trust of the Treasure Valley in Idaho
- Blackfoot Challenge in western Montana
- Rio Grande Restoration, Inc. in northern New Mexico
- San Juan Resource Conservation and Development in Colorado
Cooperative Watershed Management Grants

• Phase I
  – 2016
    • Tse Si Ani Chapter: Working Across Tribal Borders
  – 2018
    • Alter Valley Conservation Alliance
    • Coconino Plateau Watershed Partnership
    • Friends of the Rio de Flag
    • Industrial Development Authority of Gila County (Cobre Valley)
    • Watershed Management Group
Cooperative Watershed Management Grants

• Phase II:
  – 2017
    • Cienega Watershed Partnership received funding to complete streambank and riparian restoration along Cienega Creek and its tributaries in Pima County, Arizona
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
## Cooperative Watershed Management Program

<table>
<thead>
<tr>
<th>Eligible Applicants</th>
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</thead>
<tbody>
<tr>
<td>- Phase I: States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority, Watershed Groups, non-profits</td>
</tr>
<tr>
<td>- Phase II: Watershed Groups</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Phase I</th>
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<tbody>
<tr>
<td>- Up to $100,000 federal funding</td>
</tr>
<tr>
<td>- Completed within 2 years</td>
</tr>
<tr>
<td>- No cost share</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Phase II</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Up to $300,000 federal funding</td>
</tr>
<tr>
<td>- Completed within 2 years</td>
</tr>
<tr>
<td>- 50% non-Federal cost-share required</td>
</tr>
</tbody>
</table>
• Improving Stream Channel Structure and Complexity
• Restoring or Enhancing Floodplains and Riparian Vegetation
• Invasive Species Prevention/Control
• Water Conservation/Management to Improve Ecological Resilience

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

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

Energy-Water Nexus
• Renewable energy related to water management and delivery
• Increased energy efficiency

Quantifiable Water Savings
• Canal Lining/Piping
• Municipal Metering
• Irrigation Flow Measurement
• Landscape Irrigation Measures

Water and Energy Efficiency Grants

Small-Scale Water Efficiency Projects

WaterSMART Grants

Watershed Management Projects

WaterSMART Construction Opportunities

Drought Resiliency Projects

Drought Response Program

Cooperative Watershed Management Program

Water and Energy Efficiency Grants

WaterSMART Grants

WaterSMART Grants
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. GET ESTIMATES
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)
How do I get a grant?

**KEEP APPLYING**

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

Give yourself time to write the proposal!

www.grants.gov
IMPORTANT

READ THE FOA!!

Read everything in the Funding Opportunity Announcement and ask questions if something doesn’t make sense.
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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!
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 de-brief to help prepare a better proposal next year.

• Make sure SAM and ASAP registration is current at least two months before due date as it expires each year.

• If it is a multiple year project look at doing NEPA upfront
Questions?

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

Presented by:

Jessica Asbill-Case
Water Resources Program Manager
Phoenix Area Office

Email: jasbillcase@usbr.gov
Phone: 623-773-6273

U.S. Department of the Interior
Bureau of Reclamation