



— BUREAU OF —
RECLAMATION

Bureau of Reclamation's WaterSMART Program

WaterSMART Program



Provides a framework for Interior to support water supply reliability for multiple water users.



WaterSMART Program Overview

- Increases water supply reliability through investments and attention to local water conflicts
- Supports water conservation and water management improvements to help meet competing demands for water
- Leverages Federal and non-Federal funding
- Relies on collaboration with stakeholders to develop local solutions to water supply issues



Growing Populations



Restoration Needs



Drought



Build a Foundation Through WaterSMART

Planning

- CWMP Phase I
- Drought Contingency Plans
- Water Marketing Strategy Grants
- Water Conservation Field Services Program

Science and Tools

- Applied Science Tools
- Drought Resiliency Projects
- Reservoir Operations Pilots
- Water Management Options Pilots

On-the-Ground Projects

- CWMP Phase II
- Drought Resiliency Projects
- Small-Scale Water Efficiency Projects
- Water and Energy Efficiency Grants



WaterSMART Program Basics



Most WaterSMART activities are grant programs



Generally a 50% non-Federal cost share is required for grants under WaterSMART



Applicants include entities such as states, tribes, cities, water districts, irrigation districts, watershed groups, non-profits, and flood control districts within the 17 Western United States (and in some cases AK and HI)



Funding is allocated through annual competitive processes



Basin Study Program

Applied Science Grants

Eligible Projects

- Improve or enhance modeling capabilities
- Improve or adapt forecasting tools and technologies
- Improve access to and use of water resources data

Funding

- 50% non-Federal cost share required
- Up to \$150k for a 2-year project
- Up to \$300k for a 3-year project



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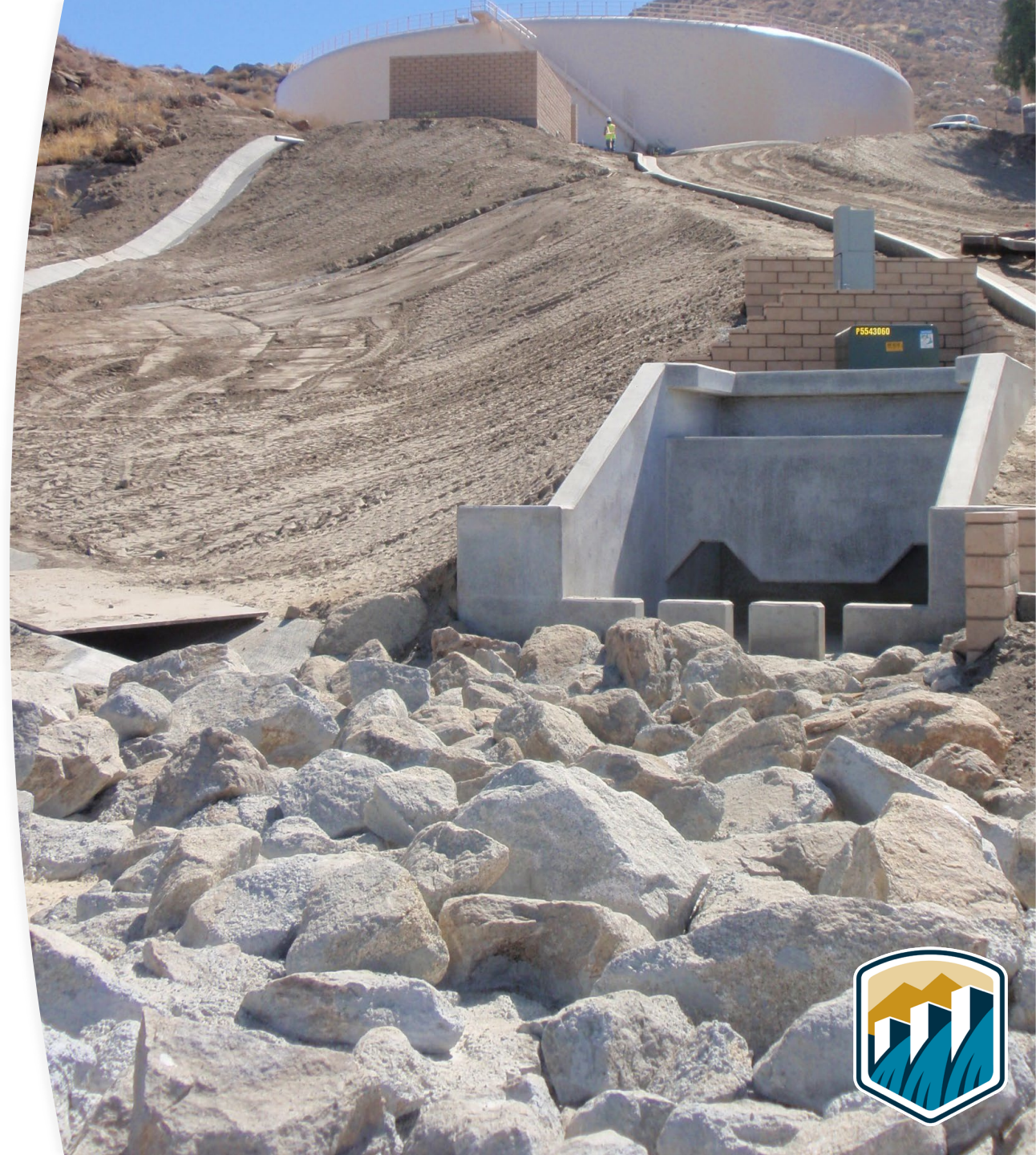
Water Reclamation and Reuse Research Projects

Eligible Project Types

- Projects that seek to address water supply challenges by establishing or expanding the use of water reclamation and reuse, improving existing water reuse facilities, and/or streamlining the implementation of state-of-the-art technology for new facilities.

Funding

- 75% non-Federal cost share required



Water Conservation Field Services Program

5 sub-activities

- Water Management Planning
- System Optimization Review
- Designing Water Management Improvements
- Demonstration Projects
- Technical Assistance



Water Management Planning

Water Conservation Field Services

Program Objective: Provides an opportunity to document data on current water supply and demand, prepare a forecast for future water demands, identify water conservation goals, and determine conservation measures.

Eligible activities:

- Development/Update a water management plan
- Development/Update a water conservation plan

Funding levels:

- Non-Federal Cost Share: 50% or greater
- Up to \$100,000



System Optimization Review

Water Conservation Field Services

Program Objective: Review to assess the potential for water management improvements and to identify a plan of action that contains recommendations for implementing specific improvements that have the potential to enhance water management.

Components of a SOR:

- Gather information (e.g., surveying, data searches, literature reviews, site visits)
- Identify, describe, and prioritize water management issues
- Establish goals
- Identify, evaluate, and prioritize potential improvement projects with the ability to mitigate the identified issues and accomplish goals

Funding levels:

- Non-Federal Cost Share: 50% or greater
- Up to \$100,000



Designing Water Management Improvements

Water Conservation Field Services

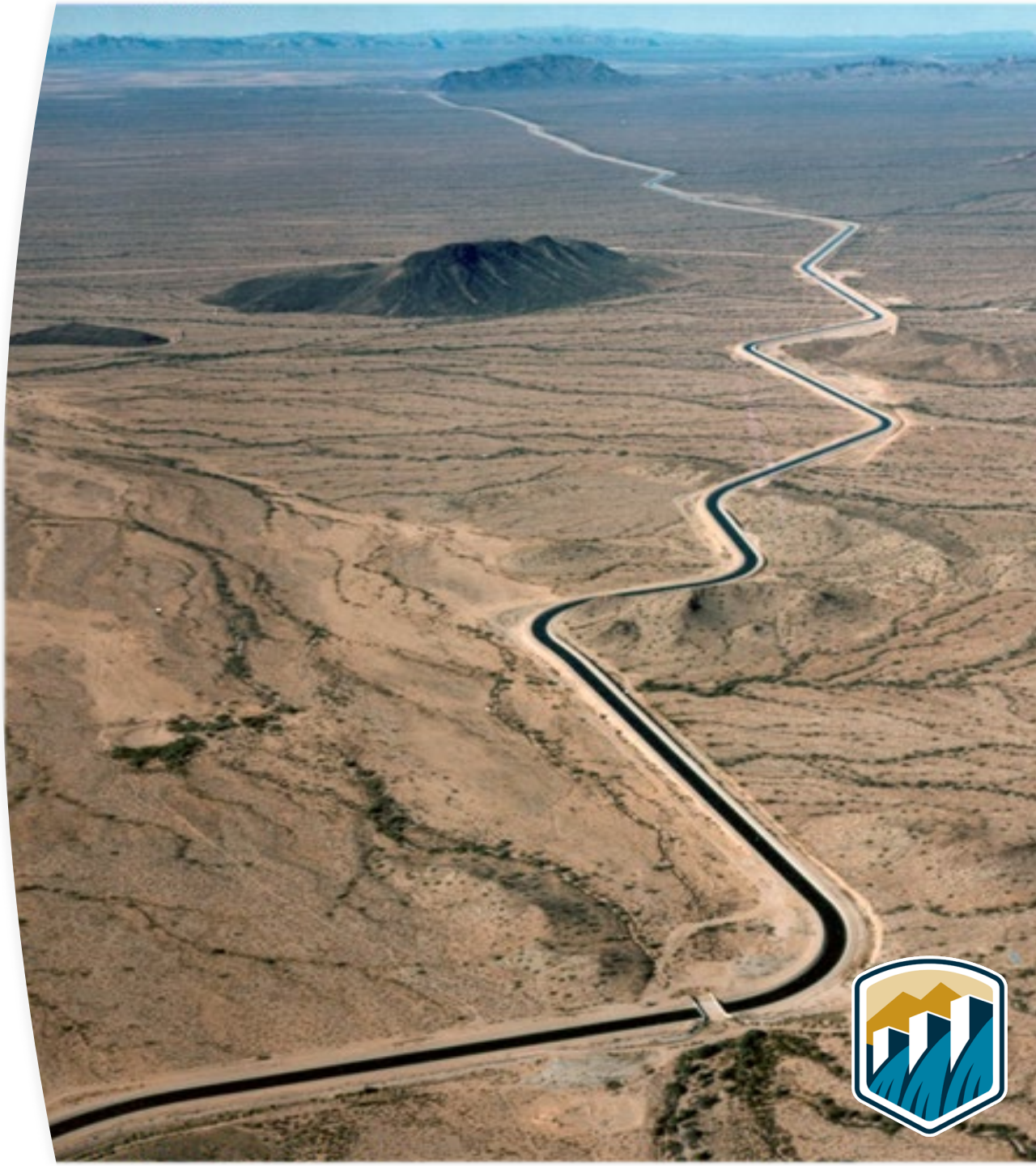
Program Objective: Design of water management improvement projects. This activity includes the necessary preliminary work in preparation of the design such as surveying and gathering pertinent site specific information.

Eligible activities:

- Design for conversion of an open conveyance system to a closed conveyance
- Design for lining of canal
- Design of weirs, flumes, ramps, etc.
- Design of control structures for an irrigation system
- Design for installation of meters within a distribution system
- Design for system implementation of SCADA
- Design of irrigation system regulating reservoirs
- Design for aquifer storage recovery ponds
- Design for water storage ponds

Funding levels:

- Non-Federal Cost Share: 50% or greater
- Up to \$100,000



Demonstration Projects

Water Conservation Field Services

Program Objective: Demonstration activities are those that include the installation or application of a particular technology in a new way, or in a new setting, with the intent of answering questions about the reliability of this technology and reporting the results to others for wider adoption. In order to qualify as a demonstration program your agency must not have conducted any portion of the proposed project or used the technology in the past.

Funding levels:

- Non-Federal Cost Share: 50% or greater
- Up to \$100,000



Technical Assistance

Water Conservation Field Services

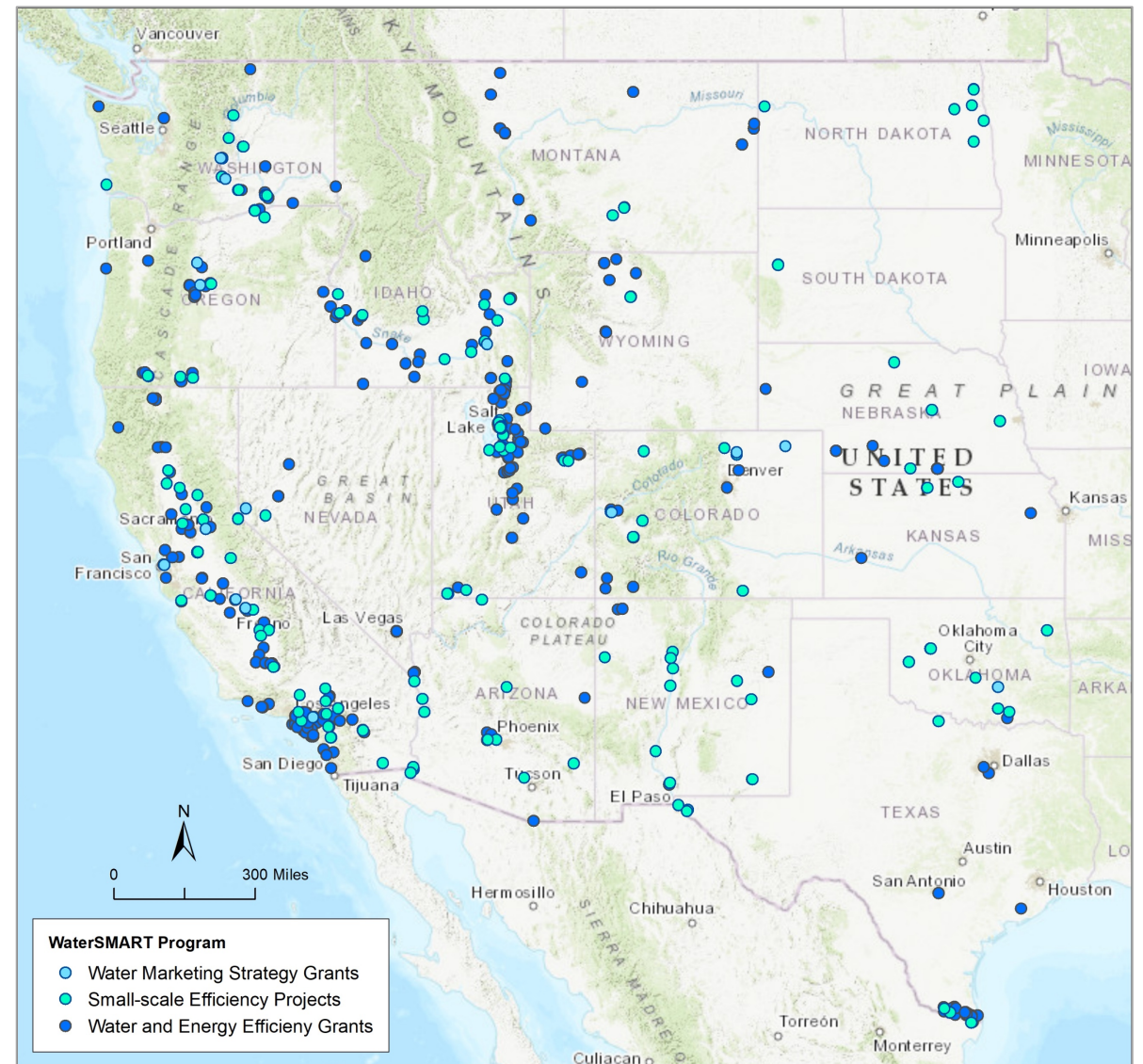
Program Objective: Technical assistance is provided by Reclamation staff, and/or provides services instead of money.



WaterSMART Grants

3 sub-activities

- Water and Energy Efficiency Grants (WEEG)
- Small-Scale Efficiency Projects (SWEP)
- Water Marketing Strategy Grants (WMSG)



WaterSMART Grants

Water and Energy Efficiency Grants –

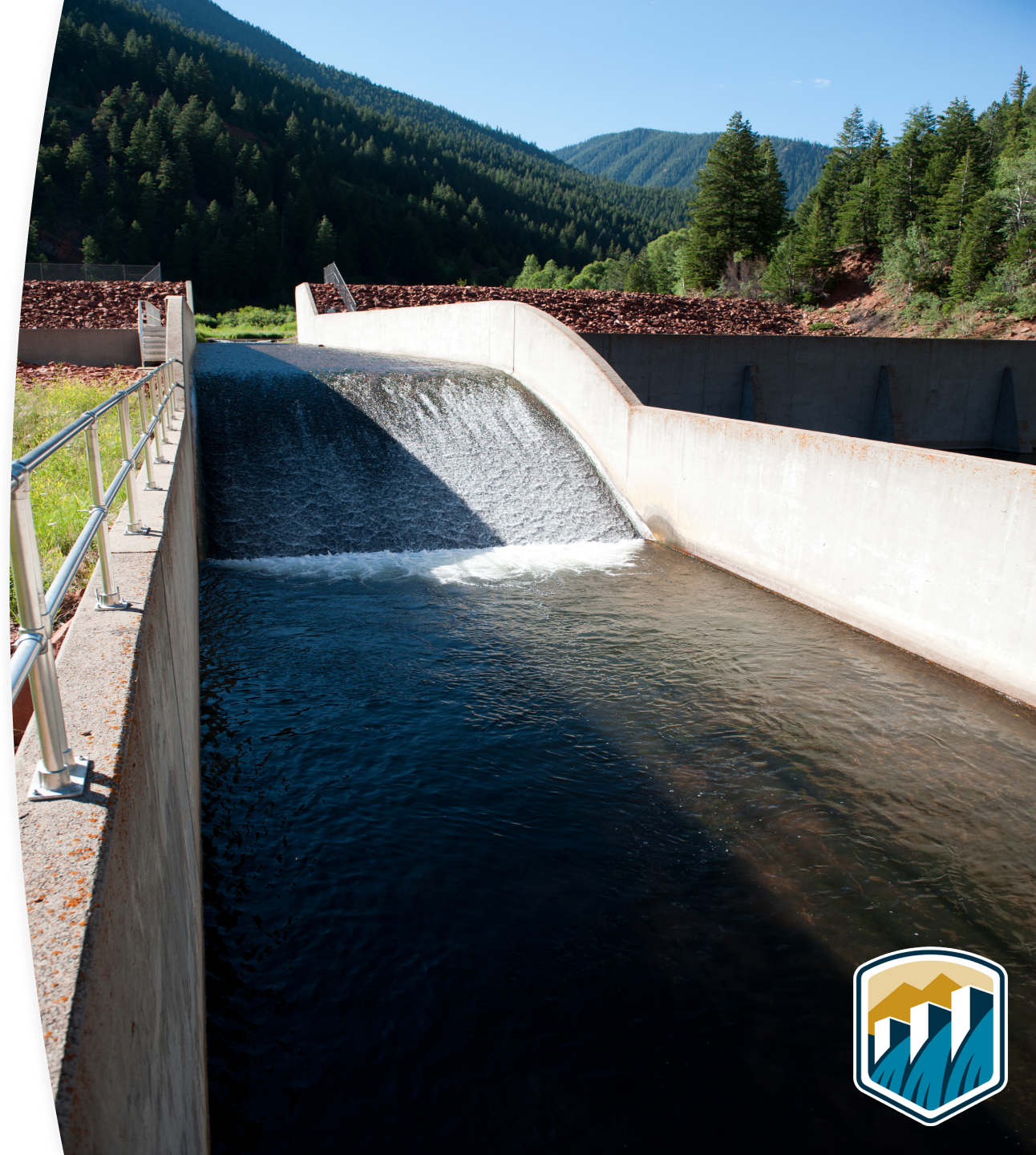
Eligible Project Types

- Water and energy efficiency
- Canal lining/piping
- Municipal metering
- Irrigation flow measurement
- Landscape irrigation measures
- Hydropower

Funding

- Funding Group I: Up to \$500k in 2 years
- Funding Group II: Up to \$2 million in 3 years

Criteria focus on quantifying water savings



WaterSMART Grants

Small-Scale Water Efficiency Projects

Eligible Project Types

- Canal lining/piping
- Meter and flow measurement (Municipal or Ag)
- Landscape irrigation measures
- SCADA and Automation

Funding

- Up to \$75k in Reclamation funds
- Maximum total project costs of \$200k per project

Evaluation Criteria

- Simplified evaluation criteria
- Benefits to applicant
- Previous planning efforts supporting the project



WaterSMART Grants

Water Marketing Strategy Grants

Program Objective: Water markets between willing buyers and sellers can help meet demands efficiently in times of shortages, preventing conflicts

Eligible activities:

- Outreach and partnership building
- Scoping and planning
- Development of a water marketing strategy document
- Pilot activities to further the development of a water marketing strategy

Funding levels:

- Up to \$200k for a 2-year project
- Up to \$400k for a 3-year project

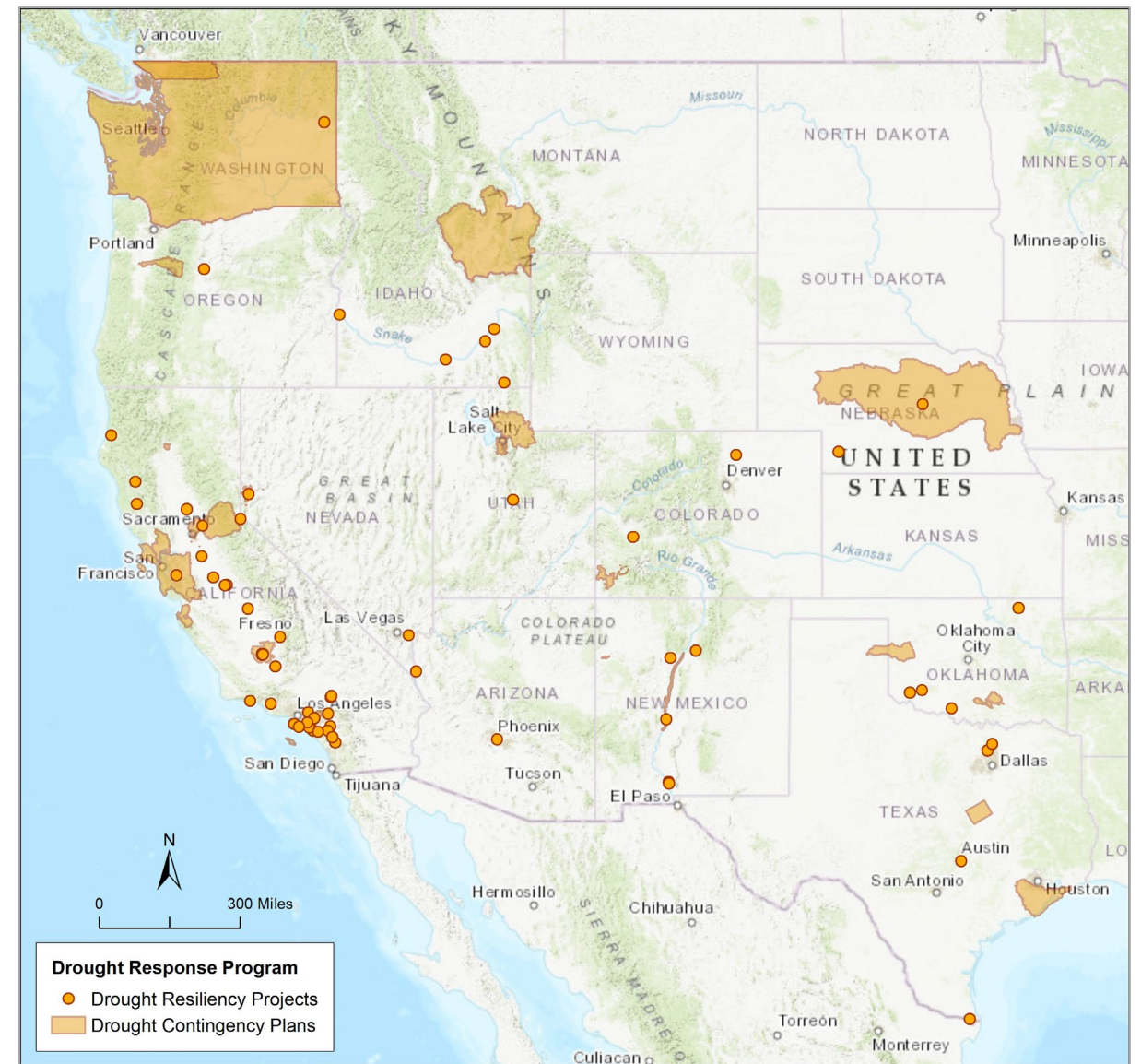


Drought Response Program

3 sub-activities

- Drought Contingency Planning
- Drought Resiliency Projects
- Emergency Response Actions

Since 2015, the program has provided over \$41 million in competitively-awarded funding for drought planning and drought resiliency.



Drought Response Program

Drought Contingency Planning

Eligible Projects

- Funding for development, or update, of comprehensive drought plans.

Funding

- Non-Federal Cost Share: 50% or greater
 - Cost share reduction/waiver available for applicants with financial hardship and a significant Federal interest
- Up to \$200,000



Drought Response Program

Drought Resiliency Projects –

Eligible Project Types

- Infrastructure Improvements
- New conveyance system components
- Additional water storage
- Recharge facilities
- Capture and treat alternative supplies
- Decision Support Tools & Modeling
- Environmental Protection

Funding

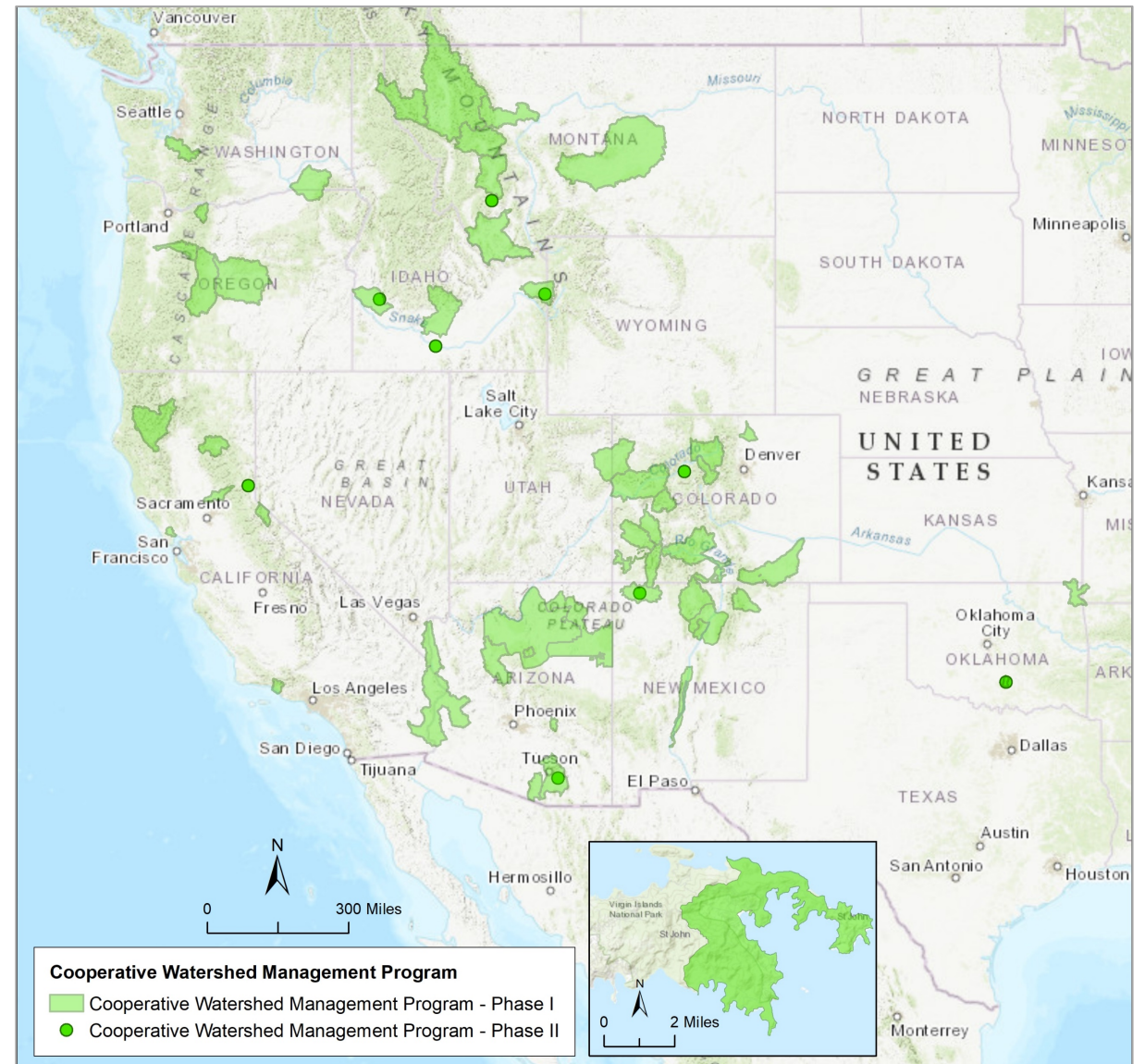
- Non-Federal Cost Share: 50% or greater.
- Funding Level I: \$500k 2 years
- Funding Level II: \$1.5 million 3 years



Cooperative Watershed Management Program

2 sub-activities

- Phase I: Form a watershed group, develop a restoration plan and do project design
- Phase II: Implement on-the-ground watershed management projects



Cooperative Watershed Management Program

Phase I – Watershed Management Project Implementation

Eligible Project Activities

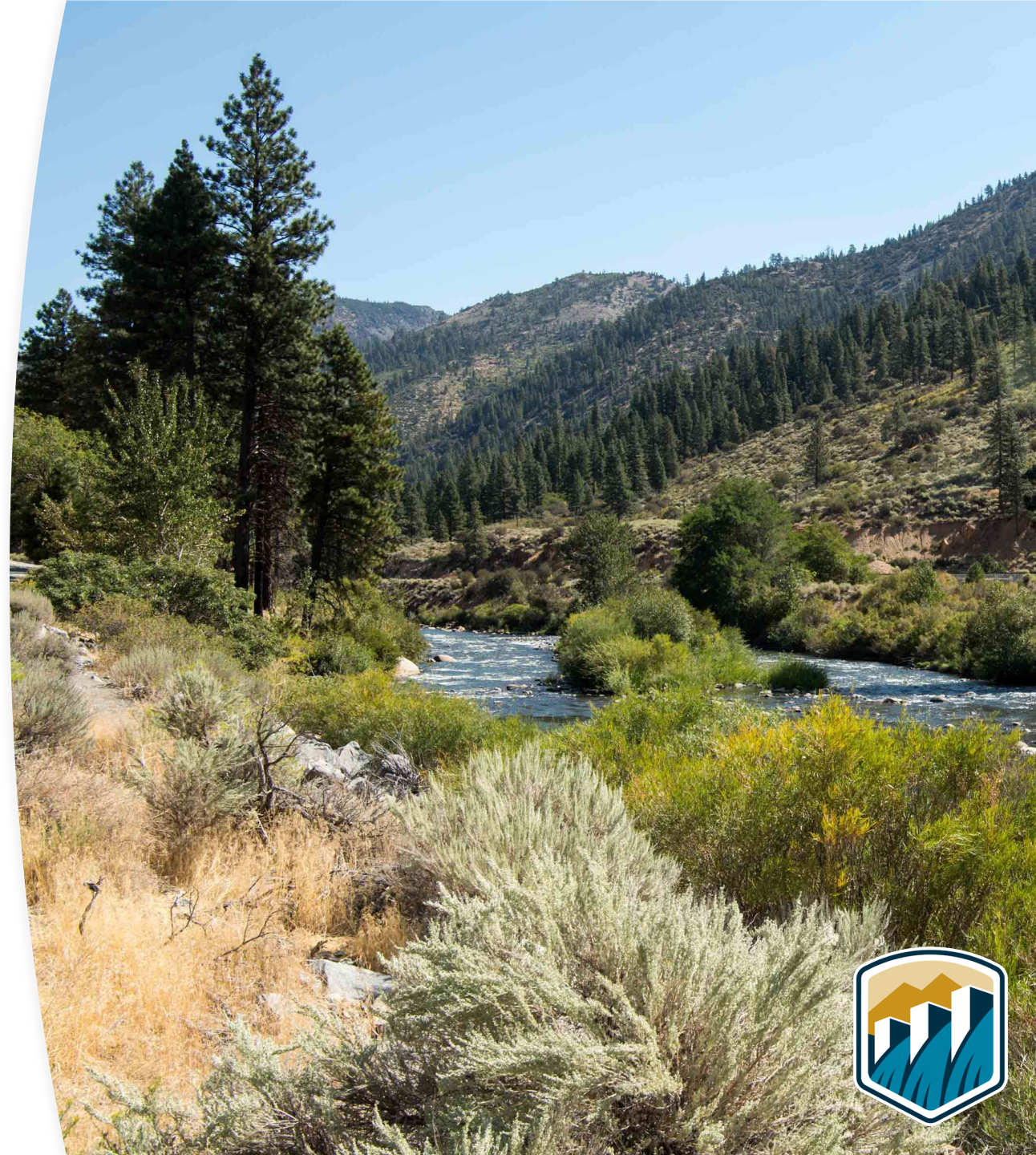
- Watershed group development
- Conducting outreach activities
- Gathering data about the watershed
- Watershed restoration plans
- Watershed management project design

Funding

- 0% non-Federal cost share required
- Up to \$100,000 in Reclamation funding over 2 years
- Sufficiency review required for second year funding

Evaluation Criteria

- Project benefits



Cooperative Watershed Management Program

Phase II – Watershed Management Project Implementation

Eligible Project Activities

- Enhancing riparian vegetation
- Increasing instream flows
- Invasive species control
- Fish passage
- Stream channel reconstruction and bank stabilization

Eligible Applicants

Must be established Watershed Group to apply

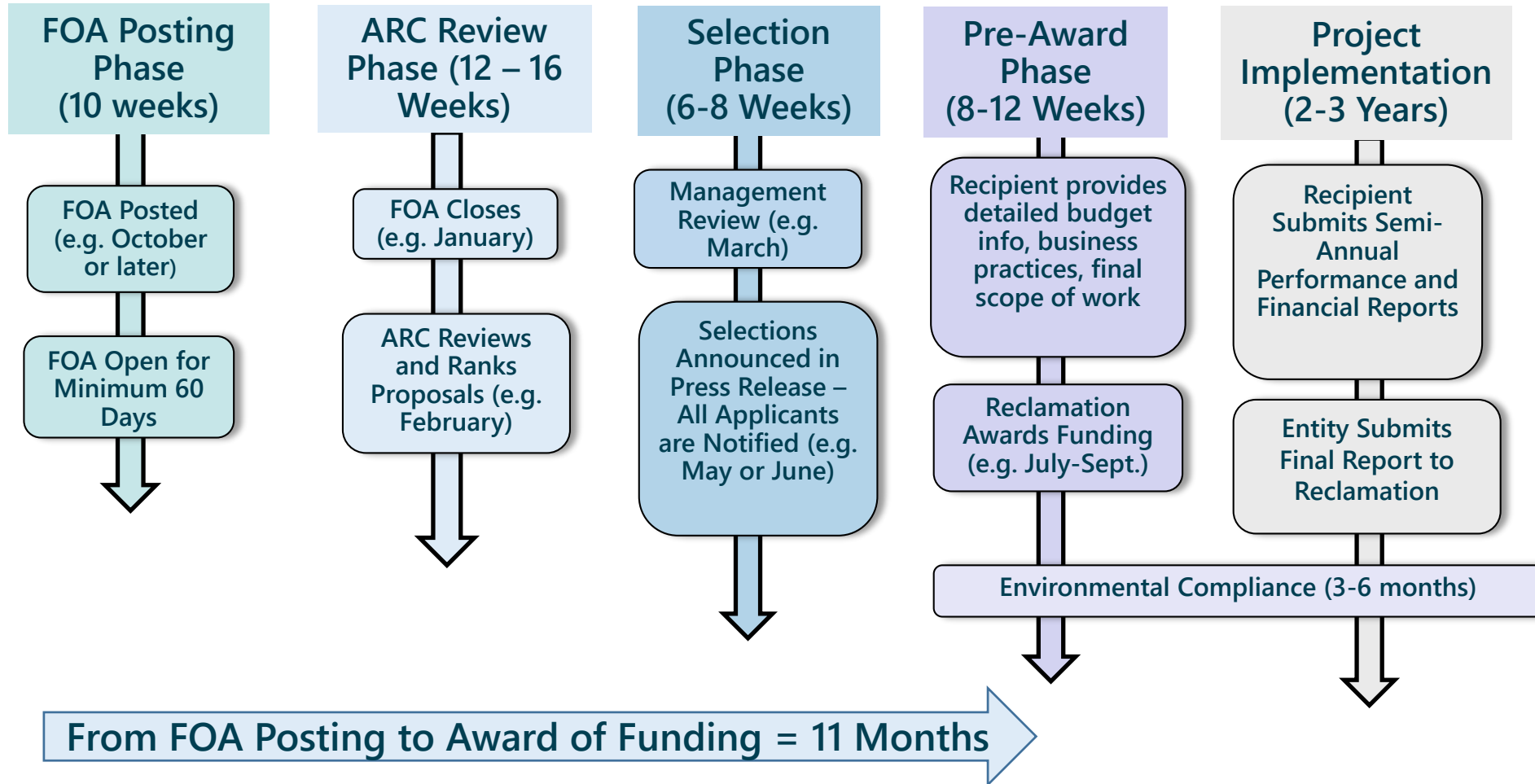
Funding

- 50% non-Federal cost share required
- Up to \$300,000 in Reclamation funding over 2 years
- Sufficiency review required for second year funding



WaterSMART Selection Process

Sample schedule



WaterSMART Program Web Links

Note: Successful proposals are available on the website for each program

Basin Studies	Basin Studies - https://www.usbr.gov/watersmart/bsp/index.html Reservoir Operations - https://www.usbr.gov/watersmart/pilots/index.html Applied Science Tools - https://www.usbr.gov/watersmart/appliedscience/index.html
Title XVI	https://www.usbr.gov/watersmart/title/index.html
WaterSMART Grants	Water and Energy Efficiency Grants - https://www.usbr.gov/watersmart/weeg/index.html Small-Scale Water Efficiency Grants - https://www.usbr.gov/watersmart/swep/index.html Water Marketing Strategy Grants - https://www.usbr.gov/watersmart/watermarketing/index.html
Field Services	https://www.usbr.gov/waterconservation/
Drought	https://www.usbr.gov/drought/
CWMP	https://www.usbr.gov/watersmart/cwmp/index.html



Thank you!

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Send an email to watersmart@usbr.gov with your name and email address for updates.

<https://www.usbr.gov/watersmart/>



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