

#### Reclamation's Mission

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.





## WaterSMART Program

Supports Reclamation's mission through collaboration with stakeholders to improve water management, increase conservation, and stretch scarce water resources



## History of Drought Program

- Reclamation States
   Emergency Drought
   Relief Act of 1991 (P.L. 102-250) (Drought Act)
- Program reformulated in 2015 to support a proactive approach for non-Federal partners to prepare for and respond to drought



## Objective of Drought Program

#### **Drought preparedness to:**

- Identify vulnerabilities and mitigation actions to reduce risks
- Improve coordination and cooperation among key entities, and development of procedures for monitoring, assessing, and responding to drought
- Reduce impacts of drought, and conflicts between water users

## Drought Response Program





Drought Contingency Planning



Drought Resiliency Projects



**Emergency Response Actions** 

# Drought Response Program Drought Contingency Plans

The East Bay Municipal Utility District and other regional water management agencies within the Bay Area in California will develop a drought contingency plan

The Washington State Department of Ecology will update its drought contingency plan, last published in 1992.

The **Dolores Water Conservancy District in Colorado** will develop a drought contingency plan with the Ute Mountain Ute Tribe Farm and Ranch Enterprise, and the Montezuma Valley Irrigation Company.



# Drought Response Program Drought Resiliency Projects

#### **Eligible Projects Include:**

- Infrastructure Improvements
  - Modifying surface water intakes
  - New conveyance system components
  - Additional water storage
  - Aquifer Storage and Recovery
  - Capture and treat alternative supplies
- Decision Support Tools & Modeling
  - Tools to support water marketing
  - Tools to convey water supply information
  - Measurement
- Environmental Protection
  - Improve habitat
  - Install fish screens and ladders

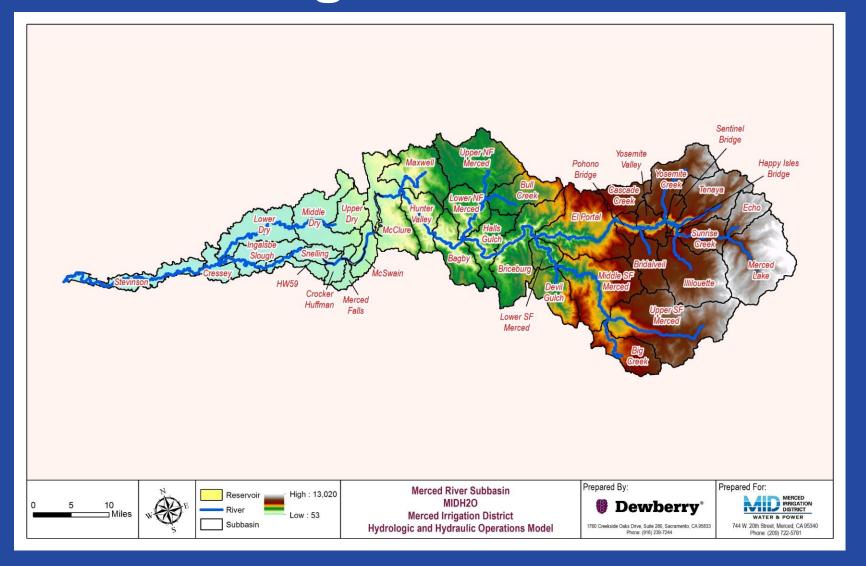
Projects build resilience to drought

Projects supported by a drought plan are more competitive

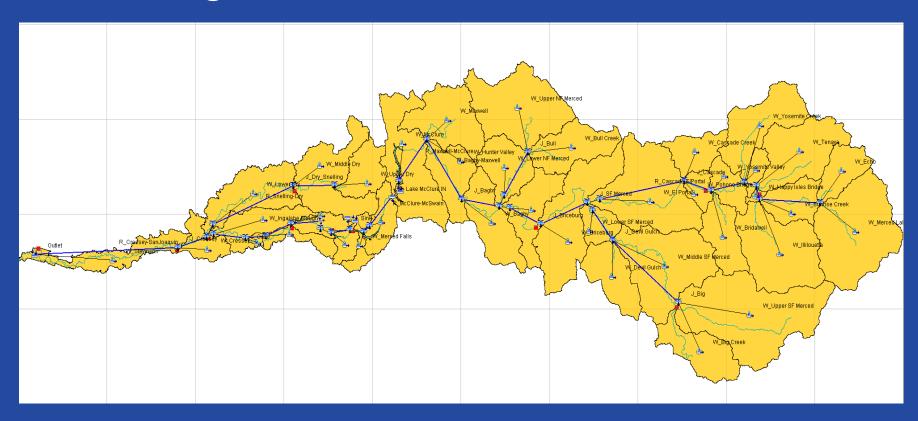
**Funding Level I: \$300k** 

**Funding Level II: \$750k** 

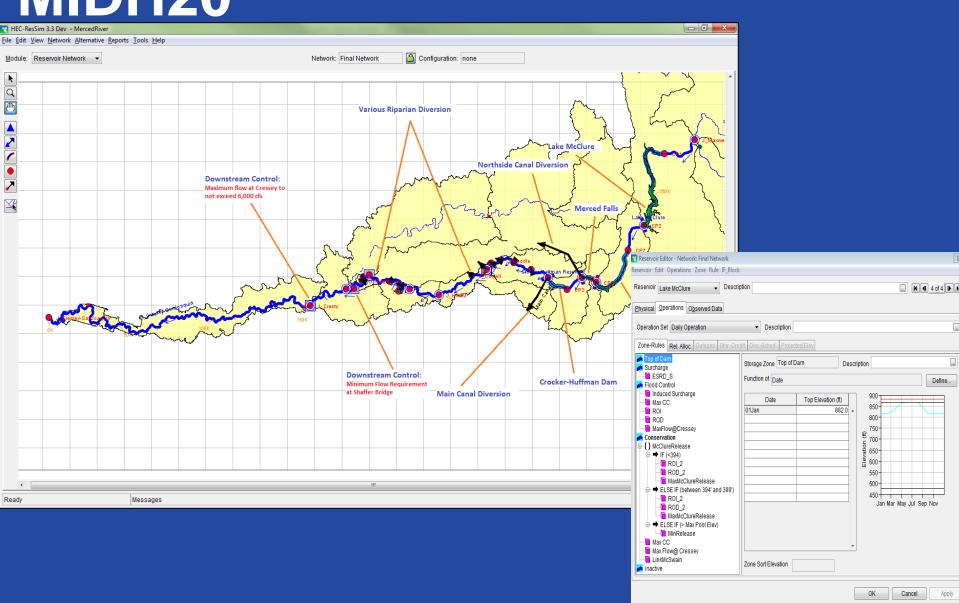
## Merced Irrigation District



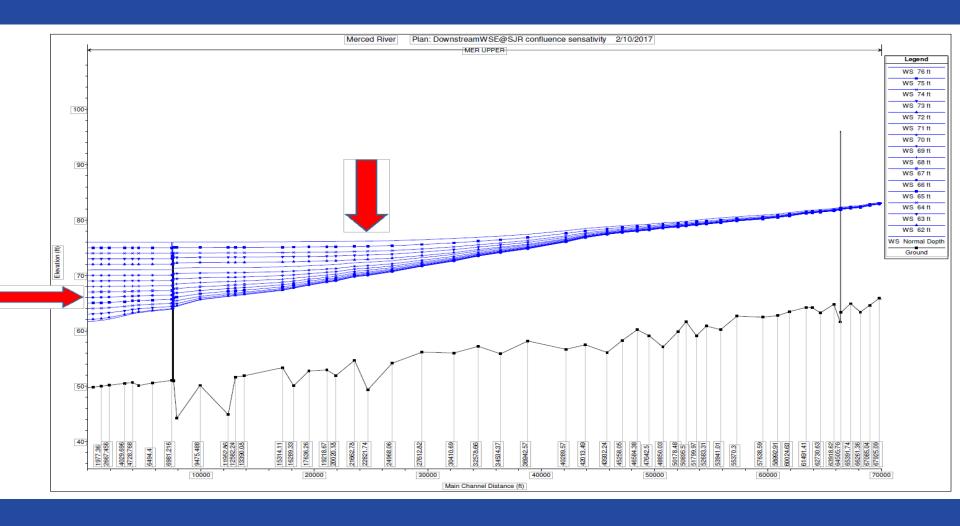
# Merced Irrigation District MIDH20



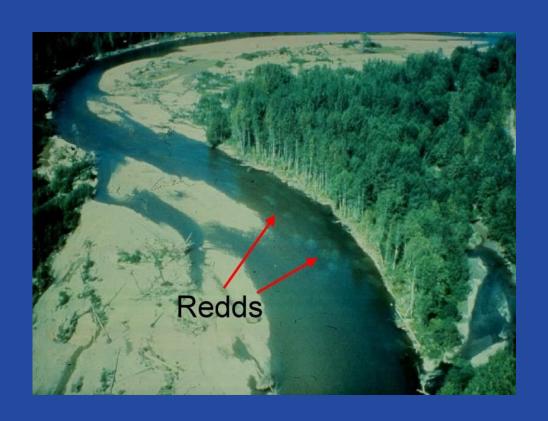
# Merced Irrigation District MIDH20



# Stevinson Gage on the Merced River



## **Merced Irrigation District**

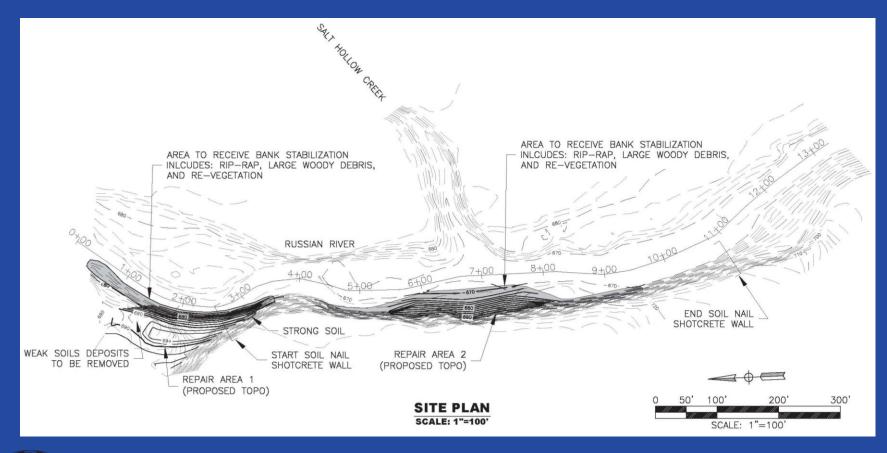


Protection of redds while maintaining safe stages downstream and reducing risks for the protection and safety of the New Exchequer Dam

# Alameda County Water District



# Coyote Valley Band of Pomo Indians



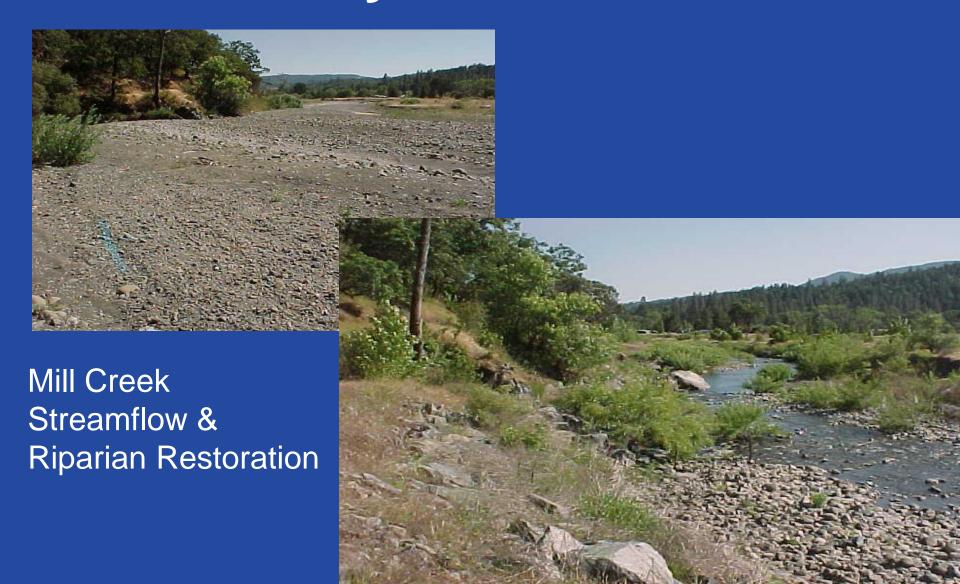


## Round Valley Indian Tribes



Mill Creek Streamflow & Riparian Restoration

## Round Valley Indian Tribes



# **Cooperative Watershed Management Program (CWMP)**

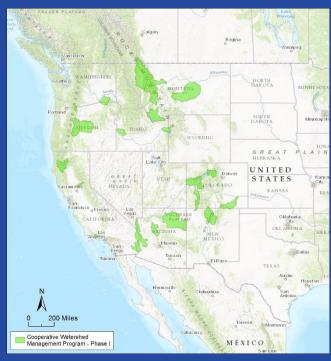
\*\*Support for local, collaborative watershed groups representing diverse interests\*\*

## Watershed Group Development and Restoration Planning (Phase I):

2012-2016, \$2.4M invested in 30 groups in nine states

#### Watershed Management Projects (Phase II):

- ✓ NEW in FY 2017
- ✓In 2017, \$565,000 toward 6 projects



Map of Phase I CWMP Projects 2012-2016

#### **WaterSMART**

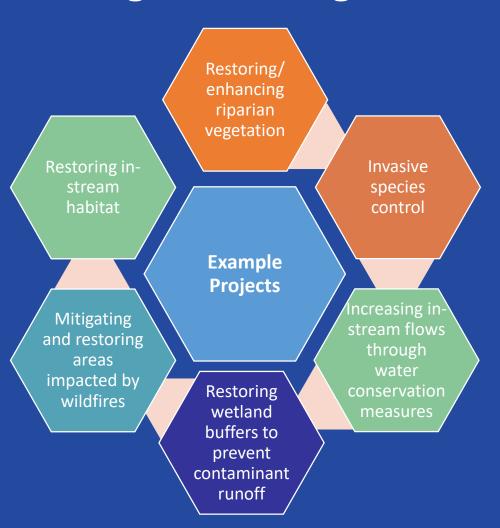
#### **Cooperative Watershed Management Program**

Phase I

Establish and further develop collaborative watershed groups

Phase II

Fund watershed management projects



#### Eagle River Watershed Council, Colorado

Abrams Creek Cutthroat Habitat Flow Restoration and Irrigation Efficiency Project

- Partners: Trout Unlimited, Colorado Parks and Wildlife, and Buckhorn Valley Metropolitan District.
- **Project:** Piping 21,790 linear feet section of the JPO ditch.
- Benefits: The approximately 300 acre-feet of saved water will increase base flows in Abrams Creek, which supports a core conservation population of Green-Lineage Cutthroat and currently suffers from low flows.

#### Friends of Teton River, Idaho

Improving Ecological Resilience through Water Management Activities in the Teton River Watershed

- **Project:** Voluntary, Incidental recharge program. Group will work with irrigators to divert water through canals early in the irrigation season.
- Benefits: Increase recharge into aquifer, which is overdrafted, and increase base flows in the Teton River during critical summer months, reducing calls by downstream seniors and providing cooler, cleaner flows benefitting fish, including native Yellowstone Cutthroat Trout.

# Reservoir Operations Pilot Initiative and Reclamation-wide Guidance

Focus of pilot initiative and guidance

- Incorporating better scientific information into operations (e.g., forecasting, sedimentation, planning models for operations, Federal coordination)
- Optimizing operations within existing water management frameworks
- Identifying locations to update operating criteria to improve water management



#### WaterSMART Data Visualization Tool

Data visualization site is an interactive companion to this report:

- Interactive maps
- Featured project tours
- Program growth over time

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

Data Visualization Tool: arcq.is/1TcT68S

