

# KINGS BASIN

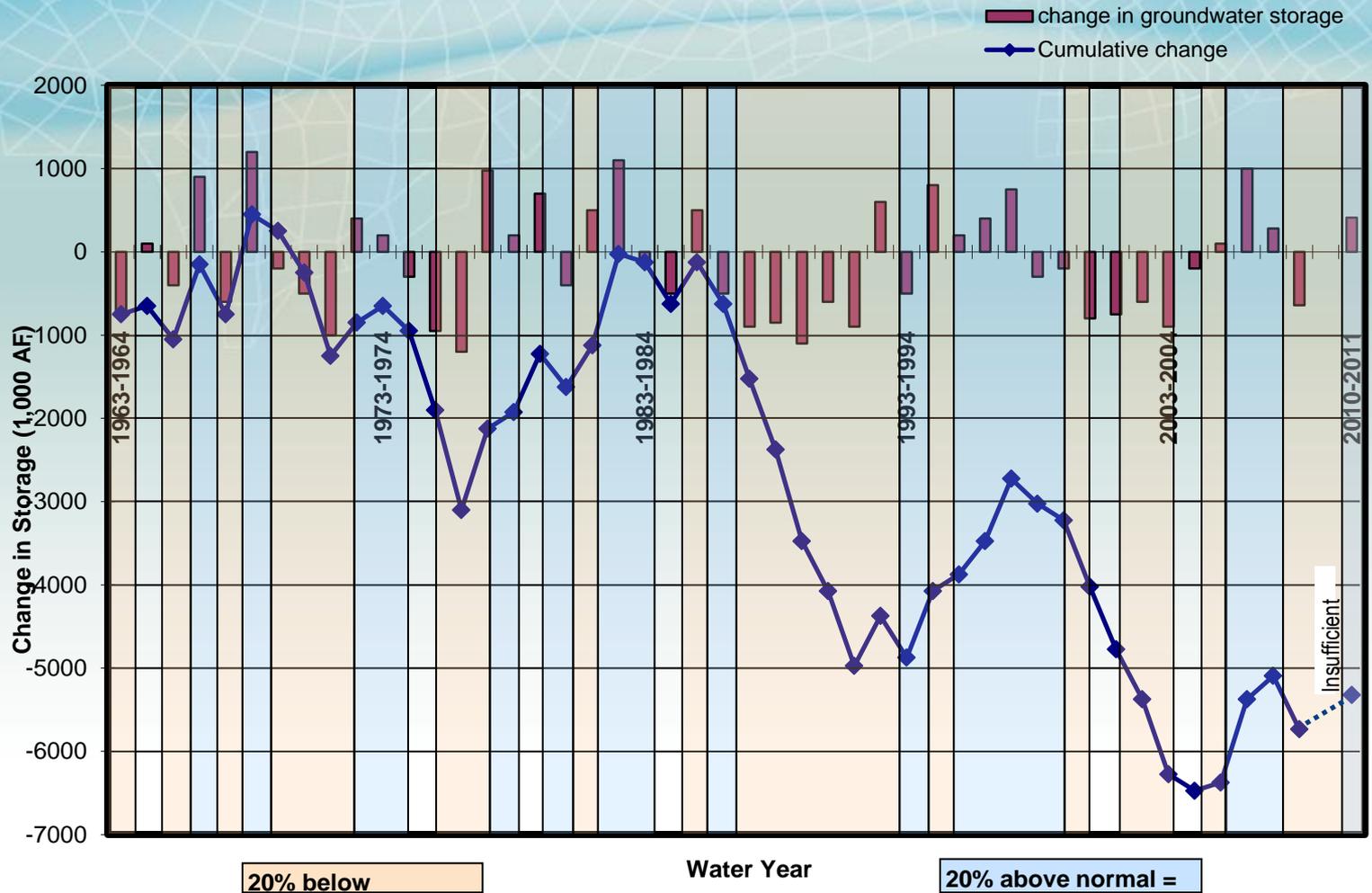
## INTEGRATED REGIONAL WATER MANAGEMENT



David Orth  
Secretary / Treasurer  
Kings Basin Water Authority

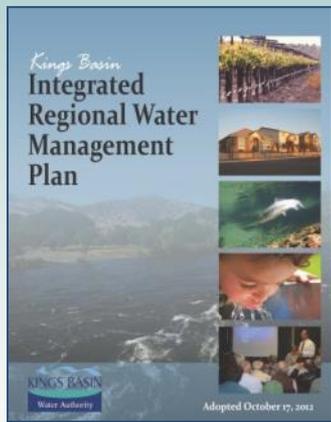


# Change in Kings Basin Storage

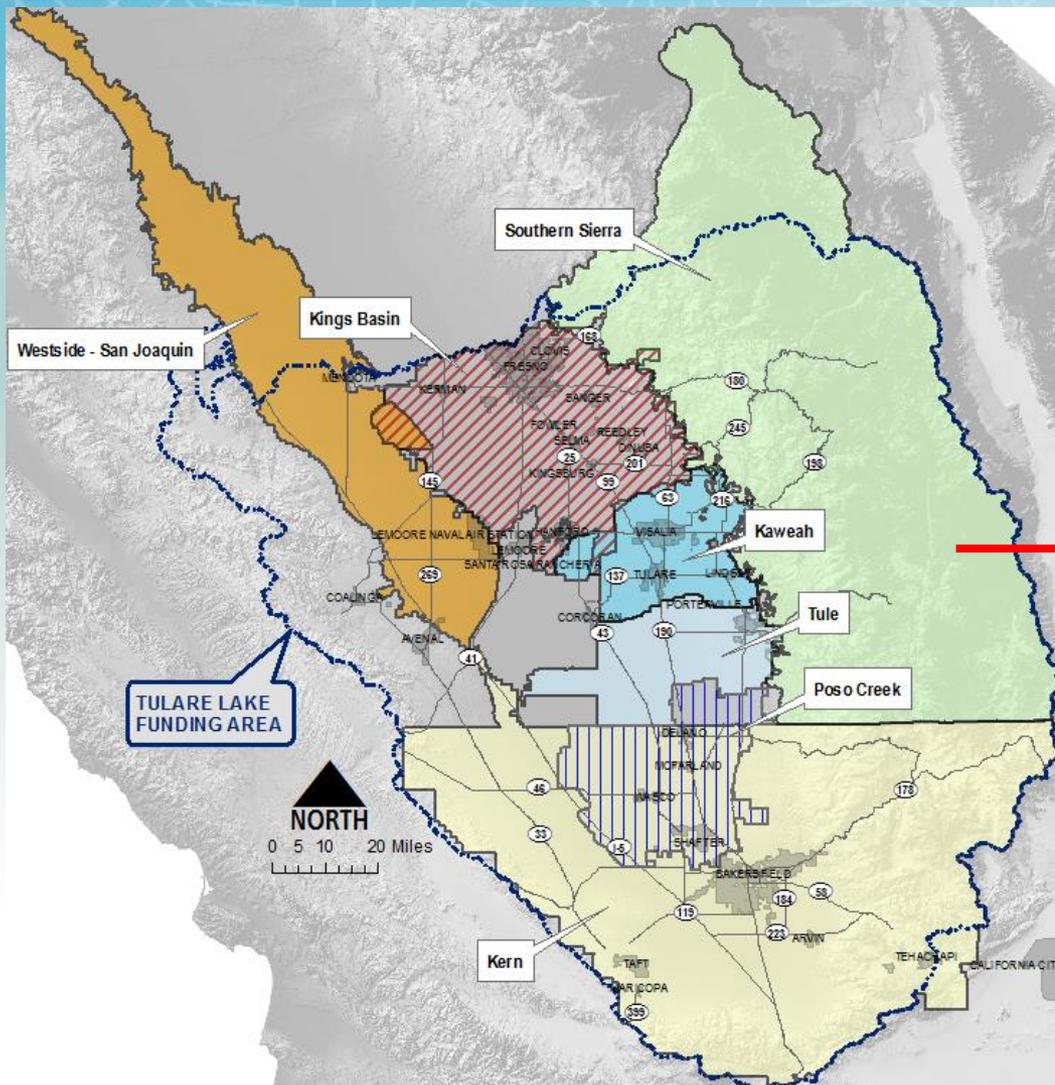


# Evolution of IRWM in the Kings Basin

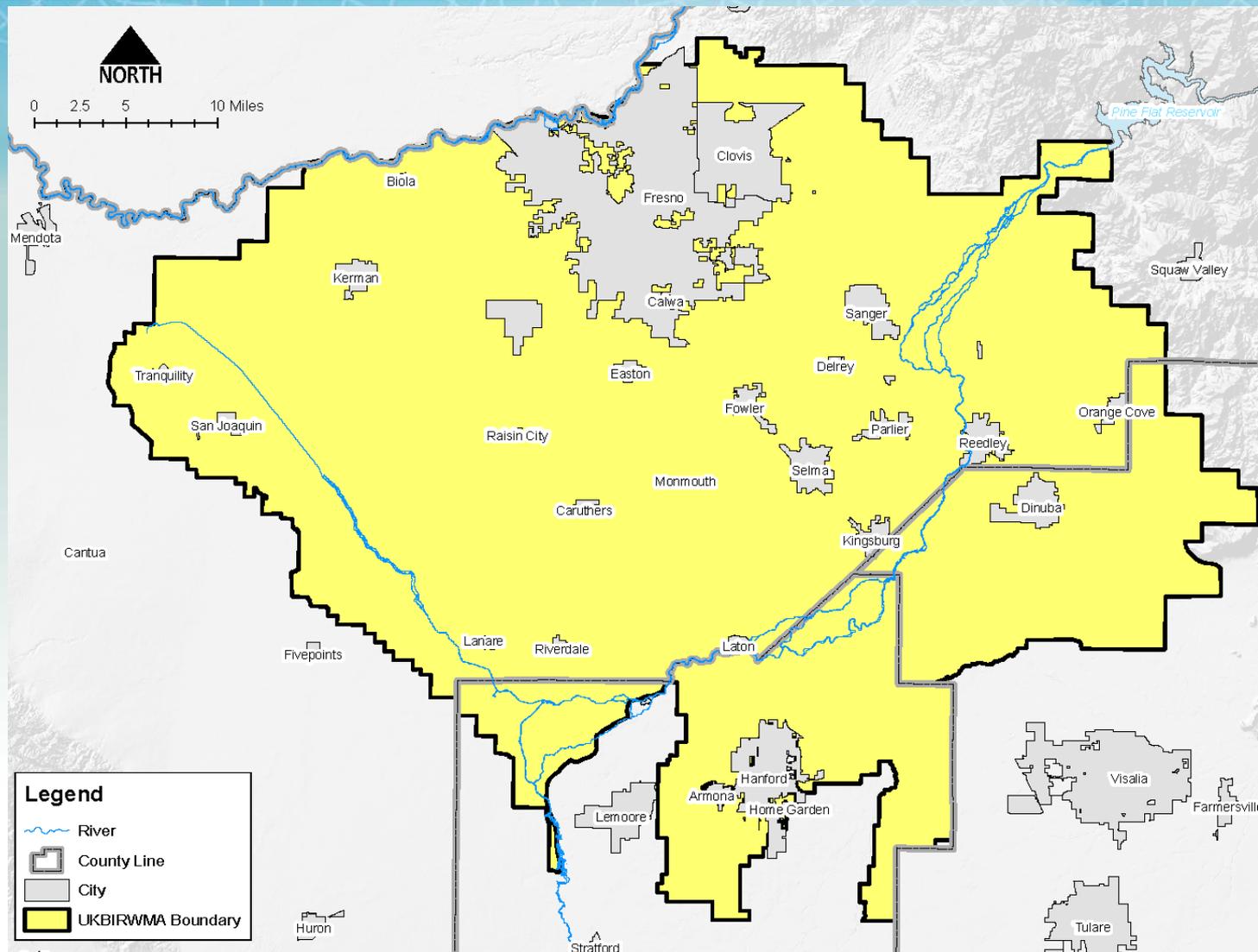
- 2001 – Upper Kings Basin Advisory Panel
- 2004 – Upper Kings Basin Water Forum
- 2009 – Kings Basin Water Authority



# Tulare Lake Funding Area IRWMPs

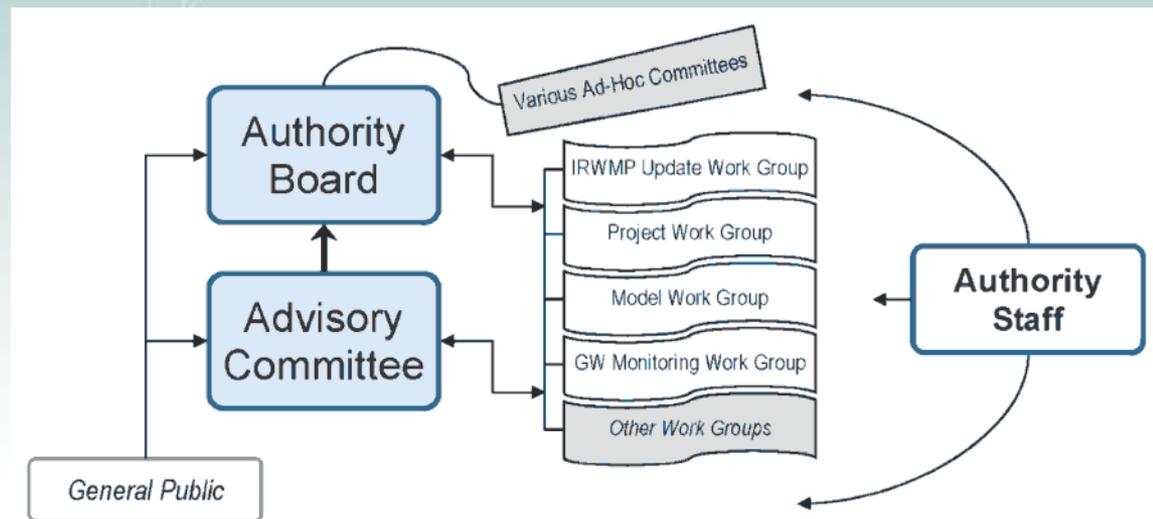


# Kings Basin IRWM Planning Area



# Governance Structure

- **MEMBERS** – voting members (Board of Directors); only public entities
- **INTERESTED PARTIES** – non-voting members (on the Advisory Committee); may be public and non-public entities (non-governmental organizations and state agencies); advisory capacity, participate in committees and sub-committees; seek their support before decisions are made



# Diverse Participation

## MEMBERS

Alta Irrigation District  
City of Clovis  
City of Dinuba  
City of Fresno  
City of Kerman  
City of Parlier  
City of Reedley  
City of Sanger  
City of Selma  
County of Fresno  
County of Tulare  
Consolidated Irrigation District  
Fresno Metro. Flood Control Dist.  
Fresno Irrigation District  
Kings County Water District  
Kings River Conservation District

## INTERESTED PARTIES

Bakman Water Company  
Biola Community Services District  
CA Native Plant Society, Sequoia Chapter  
California State University, Fresno  
City of Kingsburg  
City of Orange Cove  
City of San Joaquin  
Community Water Center  
County of Kings  
Crescent Canal Company  
Cutler Public Utilities District  
East Orosi Community Services District  
Easton Community Services District  
El Rio Reyes Conservation Trust  
Fresno County Farm Bureau  
Hardwick Water Company  
James Irrigation District  
Kings River Conservancy  
Kings River Water Association  
Laguna Irrigation District  
Laton Community Service District  
Liberty Canal Company  
Liberty Water District  
London Community Services District  
Malaga County Water District

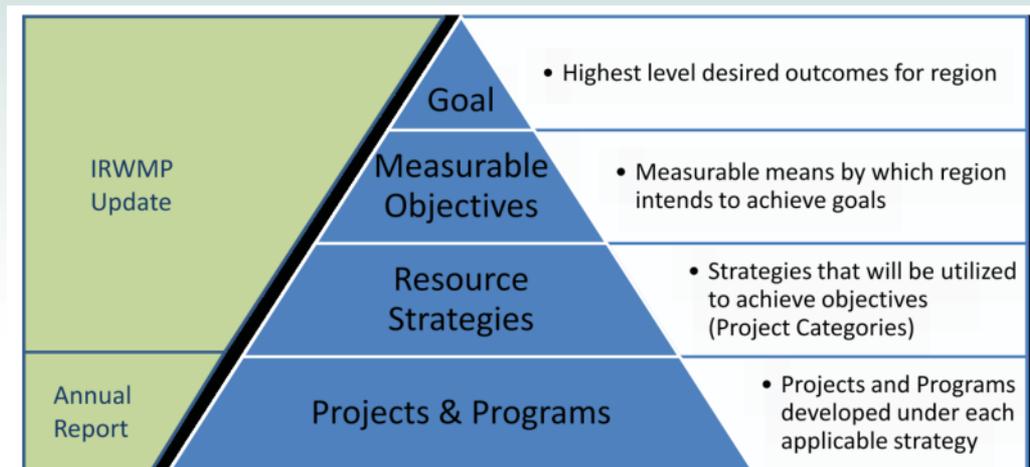
Mid-Valley Water District  
Orange Cove Irrigation District  
Orosi Public Utilities District  
Raisin City Water District  
Reed Ditch Company  
Riverdale Irrigation District  
Riverdale Public Utility District  
Sanger Environmental Fund  
Self-Help Enterprises  
Sierra Club, Tehipite Chapter  
Sierra Resource Conservation District  
Sultana Community Services District  
Terranova Ranch, Inc.  
Tulare Basin Wildlife Partners  
UC Cooperative Extension - Fresno

## OTHER PARTICIPATION

CA Department of Fish & Game  
CA Department of Water Resources  
Center for Collaborative Policy  
Fresno Audubon Society  
Kings River Fisheries Program  
Regional Water Quality Control Board  
Sierra Nevada Research Institute (UCM)  
State Water Resources Control Board

# Regional Planning Goals

- ❑ Halt and ultimately reverse, the current overdraft and provide for sustainable management of surface and groundwater
- ❑ Increase the water supply reliability, enhance operational flexibility, & reduce system constraints
- ❑ Improve and protect water quality
- ❑ Provide additional flood protection
- ❑ Protect and enhance aquatic ecosystems & wildlife habitat



# Collaborative Approaches to Solving Regional Issues

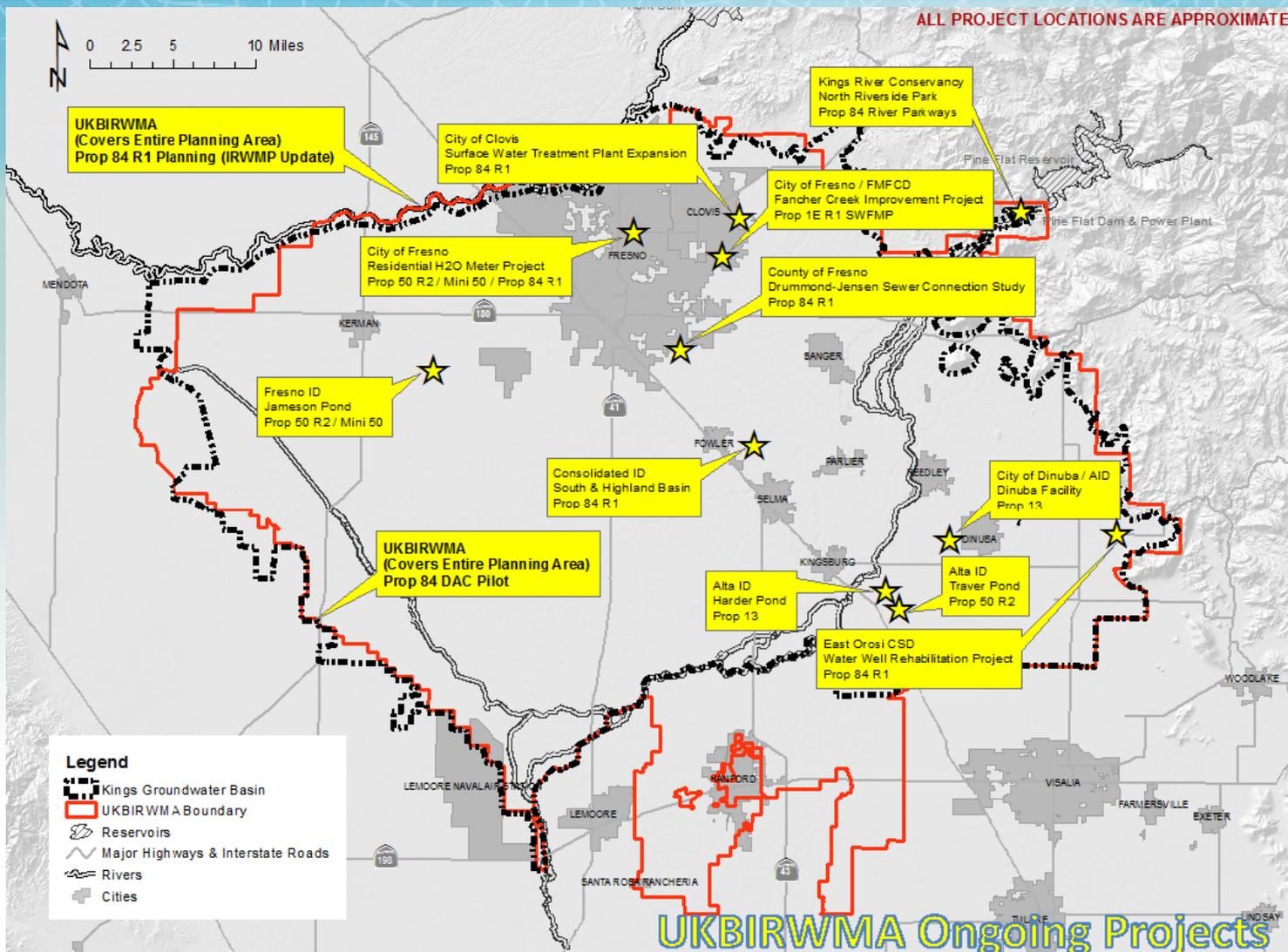
- ❑ DAC drinking water & wastewater projects (emphasis on consolidation)
- ❑ Setback levees & sloughs restoration (flood control, habitat creation and in-lieu recharge)
- ❑ On-farm and dedicated recharge/banking facilities
- ❑ Ag water use efficiency & urban water conservation projects
- ❑ Coordinated Basin-level Monitoring (monitoring groundwater elevations, quality, subsidence, future conditions modeling)
- ❑ Community outreach & education

# Return on Investment (Kings Basin)

- ❑ Regular meetings over time have encouraged uncommon dialog & forged partnerships between diverse groups that otherwise wouldn't exist
- ❑ Regional water resources planning & education tools that extend beyond local jurisdictions
- ❑ \$54 million in State and private grant funding leveraged to complete over \$87 million in planning and implementation projects



# Return on Investment (Kings Basin)



# Prop 50 Round 2 IRWM Projects



## Jameson Pond Recharge Expansion Project

- Sponsor: Fresno Irrigation District
- Grant: \$2,416,865 Project Cost: \$4,409,698
- Expansion of existing 40-acre recharge/banking pond to 100-acres
- Estimated annual average recharge 4,000+ acre-feet per year



## Residential Water Meter Installation Project Phase I

- ❑ Sponsor: City of Fresno
- ❑ Grant: \$1,107,000 Project Cost: \$10,705,352
- ❑ Installed 10,000 of planned 110,000 residential water meters
- ❑ Estimated to conserve up to 8,500 acre-feet ground/surface water per year



## Traver Groundwater Recharge & Banking Project

- ❑ Sponsor: Alta Irrigation District
- ❑ Grant/Project cost: \$2,368,805
- ❑ 47-acre facility, extraction wells, monitoring wells, SCADA
- ❑ 2,000 acre-feet / year banked for later surface-water transfer to DACs

# Questions / Comments?

IRWMP Available at [www.kingsbasinauthority.org](http://www.kingsbasinauthority.org)

 @KingsWater