KINGS BASIN WATER AUTHORITY

2023 ANNUAL REPORT

(OCTOBER 2022 – SEPTEMBER 2023)

April 17, 2024

PREPARED BY:

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Attachments

1 – INTRODUCTION

The Kings Basin Water Authority (KBWA) adopted an updated Integrated Regional Water Management Plan (IRWMP) in October 2018. The IRWMP established a goal of preparing an annual report (see Section 9.6 of IRWMP) to document progress and serve as a reference document for future IRWMP updates. This report includes information on the Sustainable Groundwater Management Act (SGMA); status of IRWMP objectives and implementation projects; changes in governance, policies and membership of the KBWA; and proposed IRWMP amendments.

This report discusses and documents project activities directly related to or processed through the KBWA or Integrated Regional Water Management (IRWM) related funding. It should be recognized that the stakeholders undertake numerous activities outside of the IRWM that may contribute to the goals and objectives of the region, however this report is not intended to document all individual stakeholder activities outside of IRWM efforts.

The annual report for the KBWA follows the Kings River water year, covering the timeframe between October 1, 2022 to September 30, 2023.

2 – STATUS OF MEASURABLE OBJECTIVES

Following is a list of Measurable Objectives (MO) from Chapter 5 of the 2018 IRWMP and progress made in meeting those objectives during the year. Progress for most objectives is documented when projects are completed, whether through funding secured by KBWA or funded through other sources. Some objectives, such as those related to public outreach or education, are not necessarily performed as part of projects on the KBWA list, and their progress is reported on an on-going basis.

Measurable Objective No. 1: Increase amount of groundwater in storage with intent to eliminate the groundwater overdraft in 20 years

Measurement: Report of change in overdraft in accordance with Section 12.2 of the IRWMP and net effect of new projects capacity/performance.
Status: This annual report does not include an estimation of the overall change in overdraft within the Kings IRWMP area; an estimation is provided in the 2018 IRWMP and will be provided in the future in subsequent updates to the IRWMP if required. The region continues to be actively engaged in the implementation of the Sustainable Groundwater Management Act (SGMA) which requires sustainability consistent with this Measurable Objective. The KBWA boundary encompasses all of the Kings Subbasin, where seven (7) Groundwater Sustainability Agencies (GSAs) have been formed but also extends past the subbasin boundaries and includes a portion of two (2) additional GSAs. The seven GSAs within the Kings Basin are Central Kings GSA, James GSA, Kings River East GSA, McMullin Area GSA, North Fork Kings GSA, North Kings GSA, and South Kings GSA. Annual groundwater storage change estimations have been developed and documented in the Groundwater Sustainability Plans (GSPs) and the Kings Basin Annual Report.

Several projects from the IRWM project list were initiated, continued, or completed in this reporting period and will help to increase groundwater storage and reduce groundwater overdraft, as follows:

- Consolidated Irrigation District acquired additional acres of new recharge basin.
- Fresno Irrigation District acquired additional acres of new recharge basins.
- Proposition 1 IRWM Implementation funding was awarded to the City of Parlier and Fresno Irrigation District in early 2023 to retrofit three existing stormwater retention basins to serve as groundwater recharge basins and construct a new 40-acre recharge basin, respectively.
- The Fresno Metropolitan Flood Control District's (FMFCD) Basin CF intertie project that will provide recharge benefit to Malaga County Water District (MCWD) is continuing with project construction.

Other SGMA related activities are included in the Kings Basin annual report. All GSAs within the KBWA submitted their GSPs in January 2020. The objective of the GSPs and the legislative requirements that guide them are to achieve groundwater sustainability by 2040, which will include a mixture of efforts. All of the GSPs provide possible actions to reach sustainability, many of which include constructing new recharge projects in the Kings subbasin. Much of the IRWMs work for sustainability is shifting to GSA activities.

In March 2023, the Kings Basin GSPs were approved by the Department of Water Resources. The GSPs for the portions of the KBWA outside of the Kings Basin have been referred to the

State Water Board. In March 2023, the Kings Basin GSPs were approved by the Department of Water Resources. The GSPs for the portions of the KBWA outside of the Kings Basin have been referred to the State Water Board.

Measurable Objective No. 2: Identify opportunities and Projects

Measurement: List of projects and opportunities and their potential.
Status: KBWA Members and Interested Parties can submit projects for inclusion on the IRWM Project List at any time during the year. Included on the KBWA website is a link to submit a project. New projects are considered at each Advisory Committee meeting and presented to the Board of Directors for inclusion on the IRWM Project List. During this year, no new projects were submitted for the IRWM Project List. A copy of the current IRWM Project List is included as **Attachment 1**.

Measurable Objective No. 3: Identify Disadvantaged Community (DAC) priority needs and promote/support solutions to DAC water issues

Measurement: DAC studies and project development/implementation
Status: Project efforts continue on several IRWM funded DAC projects listed in **Attachment 2** including the following:

- Proposition 1 IRWM Implementation funding was awarded to Bakman Water Company and City of Parlier in early 2023 for two projects that would directly benefit a DAC. Bakman Water Company's project includes installation of in-line nitrate analyzers on four to seven wells known to have nitrate problems. City of Parlier's project includes retrofitting three existing stormwater retention basins to serve as groundwater recharge basins.
- The FMFCD Basin CF Intertie Project that was awarded funding from DWR will directly benefit the Malaga CWD.
- The *Proposition 1 DAC Involvement Grant Program* aims to ensure involvement of DACs, Economically Disadvantaged Areas, or underrepresented communities in IRWM planning efforts, including the following activities: Needs Assessment, Project Development, DAC Engagement and Education Program, Final Report, Project Management, and Grant Administration. Funding was received in February 2018 and the Needs Assessment identified and funded three DAC projects within KBWA. A project for East Orosi CSD is in process and nearing completion.

Measurable Objective No. 4: Increase average annual supply and reduce demand

Measurement: Documentation of amount of increase/decrease
Status: Groundwater recharge projects have been a priority project for the region to increase average annual supply to the area. The GSPs in the basin also include extensive discussion on the supply and demands of every water user in the KBWA and potential actions to increase supply and/or reduce demands. The GSAs have started implementing projects and programs to help increase the average annual supply within the basin, and a listing of these activities is included in the Kings Basin Annual Report. Refer to **Attachment 2** for a list of currently funded projects.

Measurable Objective No. 5: Increase dry year supply

Measurement: Documentation of amount of increase
Status: Groundwater banking and water conservation efforts remain the focus of improving dry year supply within the region. Refer to **Attachment 2** for a list of currently funded projects.

Measurable Objective No. 6: Increase regional conveyance capacity and adapt operations to accommodate changes in runoff and recharge

Measurement: Total acre-feet available (both capacity and re-operation)
Status: Some of the IRWMP projects implemented have included conveyance capacity, but there are no IRMWP projects that solely increase conveyance capacity that have been initiated. The IRWM funded recharge projects for the City of Parlier and Fresno Irrigation District under the Prop 1 IRWM Implementation Grant will provide additional capacity to capture storm water runoff and flood water.

Measurable Objective No. 7: Compile baseline water quality data for ground and surface water

Measurement: Report of data collected and evaluate changes in the basin in annual report by considering population served and compliance orders from available sources such as Enforcement Compliance History Online (ECHO) and Safe Drinking Water Information System (SDWIS).
Status: All of the permitted water suppliers perform water quality testing, which is available upon request. Through development of the GSPs, documented water quality data in the KBWA has been compiled and documented for groundwater sources. This information was used in the discussion and development of sustainability criteria for water quality in groundwater. Information regarding new water quality data and/or changes to the baseline water quality characteristics will be documented in the GSA's annual reports. The Kings River Water Quality Coalition (KRWQC) administers the Irrigated Lands Regulatory Program (ILRP) that covers most of the KBWA boundary. Water quality information from this program is included in regular reporting to the State. The KRWQC led the formation of the Kings Water Alliance, a nonprofit organization with the purpose to implement new water quality requirements set forth by the State Water Resources Control Board's Nitrate Control Program. Current efforts by the KWA includes domestic well testing for nitrates. Wells with nitrate levels above safe drinking water levels are eligible for free bottled water delivery. The KBWA has not initiated a specific region-wide water quality data analysis for surface water sources.

Measurable Objective No. 8: Encourage Best Management Practices, policies and education that protect water quality

Measurement: Documentation of efforts/education
Status: Potential Management Actions and development of Undesirable Results, Measurable Objectives and Minimum Thresholds related to water quality in the GSPs will help to protect and potentially improve water quality throughout the region. The Fresno Metropolitan Flood Control District continued its public outreach efforts related to clean stormwater and pollution prevention, including television advertisements, mailings, and education programs. The Kings River Water Quality Coalition provides resources, outreach and reporting related to the nitrate management and the requirements of ILRP. The Kings Water Alliance provides outreach to small communities to educate community members on the health and safety impacts of high nitrate levels in drinking water from domestic wells and the various factors or actions that can contribute to contamination of groundwater quality.

Measurable Objective No. 9: Identify sources of water quality problems and promote/support solutions to improve water quality

Measurement: Report of information gathered

Status: All of the permitted water suppliers perform water quality testing, which is available upon request. The Maximum Contaminant Level (MCL) for hexavalent chromium was invalidated in 2018 and a new MCL remains in development. An MCL for 1,2,3,-trichloropropane (TCP) of 5 parts per trillion (ppt) was set in 2018. Many of the agencies with TCP violations are in process of, at the conclusion of, or contemplating litigation against apparent responsible parties. Those with MCL violations and/or compliance orders are also in process of or have constructed treatment systems, typically granular activated carbon (GAC), to treat the affected water supply to meet drinking water standards.

Measurable Objective No. 10: Increase surface storage

Measurement: Documentation of amount
Status: The increase of surface storage was limited to minimal surface storage increase associated with the groundwater recharge basin or banking facilities included on the IRWM Project List. No larger or significant surface storage project has been undertaken by the KBWA within the region.

Measurable Objective No. 11: Sustain the Kings River Fisheries Program

Measurement: Report on program
Status: The Irrigation Districts continue to divert water from storage to convey down the river to maintain the Fisheries Program in accordance with the Fisheries Program Agreement. The Kings River Fisheries Management Program continues to provide supplemental stocking of rainbow trout into the Kings River. The Kings River Conservation District (KRCD) in coordination with the Kings River Water Association and with grant funding provided through the Kings River Conservancy incubates trout eggs and releases into the Kings River.

Measurable Objective No. 12: Pursue opportunities to incorporate habitat benefits into projects

Measurement: List of opportunities considered and accomplishments
Status: Habitat benefit continues to be considered as part of project development associated with grant funding pursuits including several recharge projects.

Measurable Objective No. 13: Increase public awareness of IRWM efforts

Measurement: Public relations and annual reporting
Status: The 2022-23 outreach efforts for the KBWA included websites, communication tool development, and social media. Some of the highlights include:

- **KBWA website: www.kingsbasinauthority.org**
  Since publication of the redesigned KBWA website in June 2023, the website has garnered 439 page visits.
- **Kings Groundwater Basin Video**
  Since publication of the KBWA groundwater video in April 2014, there has been 1,667 views on YouTube.
- **KBWA Twitter Account: @KingsWater**
  As of September 2021, KBWA's Twitter account has 784 followers and 1,215 tweets since its inception. The goal of KBWA's Twitter account is to extend awareness of the activities of the KBWA to followers locally and outside of the Kings Basin.

- **KBWA Facebook page: @KingsBasinWaterAuthority**
  Since publication of the Facebook page in October 2016, there are 44 people following the page.
- **Communication Tools**
  No communication tools were developed during this reporting period.
- **Media**
  On February 23, 2023, DWR held an award ceremony for recipients of the Proposition 1 Round 2 IRWM Implementation Grant at the City of Parlier's project site. Representatives from the City of Parlier, Bakman Water Company, Fresno Irrigation District, and the KBWA Board Chair were present to accept the check from DWR.

Measurable Objective No. 14: Involve local water districts and land use agencies in generating and confirming the current and future water needs to ensure compatibility and consistency with land use and water supply plans.

Measurement: Tracking of involvement with land use planning officials and inclusion in planning documents.
Status: KBWA and its Members and Interested Parties participated in several forums, committees, workgroups and other activities associated with SGMA. The SGMA coordination workgroup meets monthly, KBWA stakeholders continue to be actively involved in SGMA and involved in how implementation will impact land use decisions.

The GSPs discuss, in detail, existing planning documents related to land use and/or water use and how the GSPs will coordinate with those existing plans, including General Plans, Urban Water Management Plans, and Groundwater Management Plans.

Measurable Objective No. 15: Comply with SBx7-7

Measurement: Review of compliance by stakeholders
Status: All Irrigation Districts that are Members of the KBWA have previously completed Agricultural Water Management Plans and submitted them to the State. The cost of compliance with SBx7-7 legislation remains significant for agricultural districts within the region, and some in the region continue to challenge whether any water conservation benefits will be obtained, particularly in a conjunctive use basin such as the Kings. The implementation of SGMA will coordinate with these efforts for both agricultural and public water purveyors.

Measurable Objective No. 16: Pursue opportunities to include project elements that reduce energy consumption, reduce greenhouse gas emissions, use renewable resources or include carbon sequestrations strategies.

Measurement: List of opportunities considered and accomplishments
Status: Water conservation projects, including water metering, and increased use of recycled water or surface water, reduce the amount of groundwater pumped, which in turn reduces the energy consumption associated with pumping. Additionally, recharge projects help raise groundwater levels, which decreases the amount of lift required and also reduced related energy consumption. Refer to **Attachment 2** for a list of currently funded projects.

3 – IMPLEMENTATION PROJECTS

3.1 – Regional Studies

No regional studies were conducted by the KBWA during this period.

3.2 – IRWM Project List

KBWA Members and Interested Parties can submit projects for inclusion on the IRWM Project List at any time. Projects are then reviewed by the Projects Work Group and considered for approval by the Board. A copy of the IRWM Project List is included as **Attachment 1**. The current list is maintained on the KBWA website, www.kingsbasinauthority.org, which also includes an interactive map of the projects included on the IRWM Project List.

3.3 – Completed or On-going Projects

Completed and ongoing projects during this annual reporting period are listed in **Attachment 2** – Status of Planning and Implementation Contracts and discussed throughout Section 2 – Status of Measurable Objectives. Since the initiation of IRWM efforts in the region, the cumulative funding amount awarded to the region through IRWM related efforts is almost $70 million and the cumulative project cost is more than $122.6 million.

3.4 – Grant Funding

Attachment 2 includes a list of currently funded projects. The KBWA also submitted a Proposition 1 Round 2 IRWM Implementation Grant application in August 2022 that was awarded funding in early 2023. That funding includes a water quality monitoring and use project for Bakman Water Company, and groundwater recharge projects for Fresno Irrigation District and the City of Parlier.

3.5 – Lessons Learned

No lessons learned were reported for this period.

4 – GOVERNANCE, POLICIES AND MEMBERSHIP

4.1 – Changes in Governance and Policies

The KBWA did not consider any new Policies this year.

4.2 – Changes in Government Regulations

The implementation of the SGMA is requiring significant effort by the KBWA's Members and Interested Parties. More information on SGMA can be found in Section 6.

4.3 – Changes in Members and Interested Parties

There were no changes in membership or Interested Parties.

4.4 – Coordination with Other IRWMPs

The KBWA continues to participate in several efforts to coordinate with neighboring IRWMPs, including:

- Participation in the IRWM Roundtable of Regions meetings, a forum for interested parties working on IRWM to discuss those interests and to share their successes and challenges. It also provides a forum for collaborating and providing input to the State on the IRWM Program.
- Participation in the DAC and Tribal Involvement (DACTI) Workgroup. The DACTI Workgroup is a subcommittee under the IRWM Roundtable of Regions. The Work Group meets bi-monthly to provide updates on ongoing DAC and Tribal projects implemented through the Prop 1 DACTI Grant Program and share information and resources about upcoming funding opportunities.
- Regularly attending meetings for the Tulare Basin Integrated Regional Planning Effort, a regional collaboration by several IRWMPs to discuss inter-regional topics in the Tulare Lake Basin.

5 – PROPOSED IRWMP AMENDMENTS

The 2018 IRWMP Update was adopted by the KBWA in October 2018. No amendments are anticipated at this time.

6 – SUSTAINABLE GROUNDWATER MANAGEMENT ACT

The SGMA was passed by California legislation in 2014. SGMA will require a gradual transition to sustainable groundwater management and stabilization of groundwater levels. Groundwater management will occur by Groundwater Subbasin and newly formed GSAs. The GSAs are public agencies independent of the KBWA.

The Groundwater Sustainability Agencies that have been formed in the KBWA boundary include:

- Central Kings GSA
- James GSA
- Kings River East GSA
- McMullin GSA
- North Kings GSA
- North Fork Kings GSA
- South Kings GSA
- The KBWA boundary extends into portions of the following GSAs:
    - Mid-Kings River GSA
    - Greater Kaweah GSA

These GSAs have been formed and the GSPs adopted and submitted to the State in January 2020. The GSAs have until 2040 to reach sustainability, but each of their GSPs identify milestones along the way at 5-year increments. The DWR SGMA portal (https://sgma.water.ca.gov/portal/) features interactive maps that allow viewers to see GSAs and their GSPs.

In March 2023, the Kings Basin GSPs were recommended for approval. The GSPs in the Kaweah and Tulare Lake Basins were determined to be insufficient and referred to the State Water Board.

Attachment 1 – IRWM Project List

KINGS BASIN IRWMP PROJECT LIST

Adopted 7-20-2022

Updated 4-4-2024

Project ID	Member/IP Organization	Project Title	Project Status	RG1 Halt, and ultimately reverse, the current overdraft and provide for sustainable management of surface and groundwater	RG2 Increase the water supply reliability, enhance operational flexibility, and reduce system constraints	RG3 Improve and protect water quality	RG4 Provide additional flood protection	RG5 Protect and enhance aquatic ecosystems and wildlife habitat	MO1 Increase amount of groundwater in storage with intent to eliminate the groundwater overdraft in 20 years	MO2 Identify opportunities and Projects	MO3 Identify DAC priority needs and promote/support solutions to DAC water issues	MO4 Increase average annual supply and reduce demand	MO5 Increase dry year supply	MO6 Increase regional conveyance capacity	MO7 Compile baseline water quality data for ground & surface water	MO8 Encourage Best Management Practices, policies & education that protect water quality	MO9 Identify sources of water quality problems & promote/support solutions to improve water quality	MO10 Increase surface storage	MO11 Sustain the Kings River Fisheries Management Program	MO12 Pursue opportunities to incorporate habitat benefits into projects	MO13 Increase public awareness of IRWM Efforts	MO14 Involve local water districts and land use agencies in generating and confirming the current and future water needs to ensure compatibility and consistency with land use and water supply plans	MO15 Comply with SBx7-7	MO16 Pursue opportunities to include project elements that reduce energy consumption, reduce greenhouse gas emissions, use renewable resources or include carbon sequestration strategies
2	Bakman Water Company	SCADA system for wells improved groundwater management, operations, s	Planning	S	P	S			S		P	S	S				S						S	
4	City of Clovis	City of Clovis, Water Intertie (North)	Preliminary Design	S	P				S			S	S	P										
6	City of Clovis	Clovis Harlan Recycled Water Extension	Preliminary Design	P	S				P			S	S											
7	City of Clovis	Tarpey Village Metering Project	Planning	P	S				P			S	S									S		
8	City of Dinuba	Dinuba Reclamation Conservation & Recreation (RCR) Project	Preliminary Design	P	S	S		S	P			S			S	S	S	S		S		S		
12	City of Fresno/Water Division	Three Reclamation Water Wells at the Fresno/Clovis Regional Wastewater	Preliminary Design	P	S	S			P		S	S	S											
16	City of Fresno/Water Division	Northwest Fresno Regional Recharge Facility	Planning	P	S	S	S		P		S	S	S					S						
17	City of Fresno/Water Division	Southeast Fresno Stormwater Detention, Greenbelt and Environmental Ha	Conceptual	S	P	S	S	S	P		S	S	S	S		S		S		S				
18	City of Fresno/Water Division	Regional Groundwater Banking Facility	Planning	P	S	S	S		P		S	S	S											
20	City of Fresno/Water Division	Southeast Fresno Regional Recharge Facility	Conceptual	P	S	S	S		P		S	S	S					S						
21	City of Fresno/Water Division	Southwest Fresno Regional Recharge Facility	Conceptual	P	S	S	S		P		S	S	S					S						
22	City of Fresno/Water Division	Northeast Fresno Recycled Water Transmission Pipeline and Reclamation F	Conceptual	P	S	S			P			S	S											
24	City of Fresno/Water Division	Sunnyside Area Sewer Conversion	Conceptual		S	P							S				P							
25	City of Fresno/Water Division	Fort Washington Sewer Conversion	Conceptual		S	P							S				P							
27	City of Parlier	Parlier Water Storage Project	Planning & Preliminary Design	S	P				P									S						
33	City of Selma	Storm Drain Storage/Recharge Project	Conceptual		P				S	P					S									
35	Consolidated Irrigation District	Ward Drainage Canal Capacity Enlargement and Recharge Project	Conceptual	P	S	S	S	S	P			S	S	S				S	S					
36	Consolidated Irrigation District	Recharge Pond Near Kingsburg/Selma Branch Canal Divide	Planning	P	S	S	S	S	P			S	S					S	S					
37	Consolidated Irrigation District	Fowler Switch Capacity Improvement Project	Conceptual	S	P		S		S					P										
38	Consolidated Irrigation District	Fowler Switch / C&K Canal Intertie Project	Planning	S	P		S		S					P										
39	Consolidated Irrigation District	Rechange Pond off Kingsburg Branch Canal	Planning	P	S	S	S	S	P			S	S					S	S					
40	Consolidated Irrigation District	Recharge Pond off Ward Drainage Canal	Conceptual	P	S	S	S	S	P			S	S					S	S					
41	Consolidated Irrigation District	Recharge Pond off Cole Slough Canal	Conceptual	P	S	S	S	S	P			S	S					S	S					
42	Consolidated Irrigation District	Westside Banking Facility	Planning	P	S	S	S	S	P			S	S					S	S					
43	Consolidated Irrigation District	C&K Canal Capacity Improvement Project	Conceptual	S	P		S		S					P										
44	Consolidated Irrigation District	Santa Fe Pond Enlargement	Conceptual	P	S	S	S	S	P			S	S					S	S					
54	County of Fresno	CSA 43 Raisin City Sewer Feasibility Study	Conceptual & Planning			P					P						S							
61	Easton Community Services District	Easton Safe Drinking Water Feasibility Study Project	Conceptual		S	P				S	P					S	S				S			
65	Fresno Irrigation District	FID Measurement and Metering Project	Preliminary Design	P	S				S			S				S					S		P	
68	Fresno Irrigation District	Oleander Basin Banking Project	Planning	P	S				S			S	P		S						S			
71	Fresno Irrigation District	Eastside Streams Improvement Project	Conceptual		P		S	S	S				P											
72	Fresno Irrigation District	Big Dry Creek Recharge Project	Planning	P	S		S	S	P			S		S				S						
76	Fresno State University	Developing a Model GWMP of Integrated, All-in-One Strategy for Conserva	Conceptual	P	S	S							S			P	S				S			
77	Fresno State University	Experiment Using Non-Potable Water as an Alternative to Potable Groundv	Conceptual	S	P	S										P	S							
100	Kings River Conservancy	The Kings Ribbon of Gems - Sanger Kings River Park and River Access	Preliminary Design			S		P									P		S					
106	Kings River Conservation District	Kings River Levee Evaluation	Ready For Construction		S		P			P				S										
107	Kings River Conservation District	Kings River Levee Critical Repairs	Planning		S		P				P			S										
108	Kings River Conservation District	North Fork Channel Recharge Project - Site 16	Conceptual	P	S	S	S	P	P			S	S	S										
116	Kings River Conservation District	McMullin Recharge Project - Site #1	Planning	P	S	S	S	P	P			S	S	S										
117	Kings River Conservation District	Kings River North Fork Flood Protection and Wildlife Enhancement Project	Preliminary Design		S		P				P			S										
120	London Community Services District	London Water Conservation Project	Ready For Construction	P	S	S			P		S	S												S
124	County of Tulare	Yettem-Button Ditch Flood Control Project	Conceptual				P			S	P			S										
125	Sultana Community Services District	Sultana Safe Drinking Water Feasibility Study Project	Planning		S	P				S	P						S							
126	County of Tulare	Juvenile Detention Facility - Cottonwood Creek (JDF Complex)	Ready For Construction	S	S	S	P	S	S	S	S	S	P	S	S	S	S	S	S	S	S	S		S
127	City of Kerman	City of Kerman Median Landscaping Renovation Project	Preliminary Design	P	S				P			S												S
128	City of Kerman	City of Kerman Water Meter Project, Phase 4	Preliminary Design	P	S				P			S				S								S
129	City of Orange Cove	City of Orange Cove Water System Feasibility Study	Planning		P						P							S						
130	City of San Joaquin	Recycled Water Upgrade to Wastewater System	Ready For Construction		P	S					S	S	S			S								
131	City of San Joaquin	City of San Joaquin Water Storage Tank	Preliminary Design	S	P				P	S	S		S			S		S			S			S
132	East Orosi Community Services District	East Orosi Water Conservation and Meter Project	Preliminary Design	P	S	S			P		S	S					S							S
133	Fresno Metropolitan Flood Control Disttrict	Regional Groundwater Recharge and Surface Water Reuse Project	Preliminary Design	P	S	S	S	S	P			S	S	S			S	S			S			
134	Malaga County Water District	Malaga County Water District Water Supply Conservation Project	Ready For Construction	P	S	S			P	S	S	S	S			S					S			S
135	Sultana Community Services District	Sultana Water Conservation and Meter Project	Preliminary Desgin	P	S	S			P		S	S					S							S

P = Primary
S = Secondary

KINGS BASIN IRWMP PROJECT LIST

Adopted 7-20-2022

Updated 4-4-2024

Project ID	Member/IP Organization	Project Title	Project Status	RG1 Halt, and ultimately reverse, the current overdraft and provide for sustainable management of surface and groundwater	RG2 Increase the water supply reliability, enhance operational flexibility, and reduce system constraints	RG3 Improve and protect water quality	RG4 Provide additional flood protection	RG5 Protect and enhance aquatic ecosystems and wildlife habitat	MO1 Increase amount of groundwater in storage with intent to eliminate the groundwater overdraft in 20 years	MO2 Identify opportunities and Projects	MO3 Identify DAC priority needs and promote/support solutions to DAC water issues	MO4 Increase average annual supply and reduce demand	MO5 Increase dry year supply	MO6 Increase regional conveyance capacity	MO7 Compile baseline water quality data for ground & surface water	MO8 Encourage Best Management Practices, policies & education that protect water quality	MO9 Identify sources of water quality problems & promote/support solutions to improve water quality	MO10 Increase surface storage	MO11 Sustain the Kings River Fisheries Management Program	MO12 Pursue opportunities to incorporate habitat benefits into projects	MO13 Increase public awareness of IRWM Efforts	MO14 Involve local water districts and land use agencies in generating and confirming the current and future water needs to ensure compatibility and consistency with land use and water supply plans	MO15 Comply with SBx7-7	MO16 Pursue opportunities to include project elements that reduce energy consumption, reduce greenhouse gas emissions, use renewable resources or include carbon sequestration strategies
136	Hardwick Water Company	Hardwick Water Distribution System Replacement and Hookup Project	Preliminary Design		P	S				S	P						S							
137	Kings River Conservation District	Coehlo and Gragnani Wetlands Recharge Project	Planning	P	S	S	S	S	P	S		S	S			S		S		S				
138	Alta Irrigation District / City of Reedley	The Reedley Pond Project	Planning	P	S	S	S	S	P		S	S	S	S		S	S		S	S	S	S	S	
139	Fresno Irrigation District	Fancher Creek Storage Project	Conceptual	S	P		S	S	S			S							P						
140	City of Clovis	Clovis North Recharge Facility	Planning	P	S	S	S		P			S	S						S						
141	City of Fresno/Water Division	Kings River Pipeline	Preliminary Desgin	P	S	S			P			S	S												
142	City of Fresno/Water Division	Friant-Kern Canal Pipeline	Preliminary Design		P	S			P																
143	City of Fresno/Water Division	Finished Water Transmission Mains (Phase 2)	Preliminary Design	P	S	S			P			S	S												
144	Terranova Ranch / Kings River Conservation District	McMullin On-Farm Flood Capture Project, Phases 2 and 3	Planning	P	S	S	S		P		S	S	S				S					S	S		
145	James Irrigation District	Distributed Recharge Basin Project	Planning	P	S	S	S	S	P	S		S	S	S								S	S	S	S	
146	James Irrigation District	James Bypass Floodwater Utilization Project	Planning	P	S	S	S	s	P	S		S	S	S								S	S	S	S	
147	James Irrigation District	Lassen Avenue Floodwater Utilization Project	Planning	P	S	S	S	S	P	S		S	S	S								S	S	S	S	
148	James Irrigation District	McMullin Grade Floodwater Utilization Project	Planning	P	S	S	S	S	P	S		S	S	S								S	S	S	S	
149	James Irrigation District	McMullin Master Plan Project	Preliminary Design	P	S	S	S	S	P	S		S	S	S	S	S	S	S				S	S	S	S	
150	Raisin City Water District	Grantland Recharge Project	Planning	P	S	S	S		P		S	S	S		S			S				S				
151	City of Orange Cove	Orange Cove Storm Water Planning Study	Conceptual	S			P			P	S															
152	City of Reedley	Reedley Retention Basin Project	Preliminary Design	P	S		S	S	P				S						S							
153	City of Selma	Rockwell Pond Groundwater Recharge Project	Conceptual	P	S			S	P						S		S									
154	Laguna Irrigation District	Mussel Slough Ranch Recharge Project	Conceptual	P	S	S	S	S	P		S	S	S		S	S					S		S		
155	Laguna Irrigation District	Basin 11 Expansion Project	Ready for Construction	P	S	S	S	S	P		S	S	S		S	S					S		S		
156	Laguna Irrigation District	Pires Recharge Project	Planning	P	S	S	S	S	P		S	S	S		S	S					S		S		
157	North Fork Kings GSA	Terra Linda Farms Recharge Project	Ready For Construction	P	S	S	S	S	P		S	S	S		S	S					S		S		
158	Laguna Irrigation District	Beeler Recharge Project	Conceptual	P	S	S	S	S	P		S	S	S		S	S					S		S		
159	Liberty Water District	Fresno County Elkhorn Property Recharge Project	Planning	P	S	S	S		P		S	S	S		S	S					S		S		
160	Mid-Valley Water District	Mid-Valley Water District James Bypass Surface Water Supply and Recharg	Planning	P	S	S	S		P		S	S	S		S						S		S		
161	Raisin City Water District	Raisin City Water District Stinson North Canal Water Supply and Recharge F	Comceptual	P	S	S	S		P		S	S	S	S	S						S		S		
162	County of Tulare	Sultana Area Stormwater Project	Conceptual	S	S		P		S		P														
163	Fresno Irrigation District	Wagner Recharge Basin	Preliminary Design	P	S	S	S	S	P			S	S	S	S			S	S						
164	Fresno Metropolitan Flood Control District	Basin "CE" Pump Station - Regional Groundwater Recharge Project	Preliminary Design	P	S	S	P	S	P			S	S	S			S								
165	Fresno Metropolitan Flood Control District	Basin "CF" Pump Station - Regional Groundwater Recharge Project	Ready For Construction	P	S	S	P	S	P			S	S	S			S								
166	Fresno Metropolitan Flood Control District	Basin "SS" Pump Station - Regional Groundwater Recharge Project	Preliminary Design	P	S	S	P	S	P			S	S	S			S								
167	Laguna Irrigation District	Laton North Recharge Project	Ready for Construction	P	S	S	S	S	P		S	S	S		S	S					S		S		
168	County of Fresno	County of Fresno Domestic Well Destruction and Sampling Program	Ready For Construction		S	P				S	S				S	P	S					S	S		
169	County of Fresno	Central Fresno County Flood Mitigation Project	Conceptual	S	S		P		S		P														
170	City of San Joaquin	Storm Drain Improvements at 9th and 6th Streets	Conceptual				P			S	P												S		
171	City of San Joaquin	Storm Pump Station Rehab & Basin Upgrades	Conceptual	S		S	P		P	S	S					S							S		
172	County of Tulare	Traver Stormwater Project	Conceptual	S	S		P		S		P														
173	James Irrigation District	Main Canal Booster Improvement Project	Planning	P	S	S	S		P	S		S	S	S								S	S	S	S	S
174	James Irrigation District	Lake Avenue Canal Project	Planning	P	S	S	S		P	S		S	S	S								S	S	S	S	S
175	James Irrigation District	Basin 2 Improvement Project	Planning	P	S	S	S		P	S		S	S	S								S	S	S	S	S
176	James Irrigation District	Levee No. 3 Project	Planning		S	S	P			S	S			P									S	S		
177	James Irrigation District	Telemetry and Automation Project	Planning	S	P	S				S		S	S	S	P								S		S	
178	Riverdale Irrigation District	Blythe Avenue recharge Basins	Conceptual	P	S		S		P				S													
179	CSU Fresno	Single Portal GSP Toolbox for Small DACs - Easton and Lanare	Ready For Construction	P	S				S		P														
180	City of Parlier	Flood Control and Groundwater Banking Project	Ready For Construction			S	P		S		P														
181	City of Dinuba	Expansion of Existing Euclid/Saginaw Storm Drain Retention Basin Capacity	Ready For Construction		P		S		P				S						S						S
182	Sultana Community Services District	Sultana Distribution Replacement Project	Conceptual	S	P						P														
183	Bakman Water Company	Source Monitoring and Control with Nitrate Analyzers	Ready For Construction	S	P	S					S	S				S		P							
184	Fresno Irrigation District	American Flower Recharge Project	Planning	P	S	S	S	S	P			S	S	S	S	S			S	S					
185	Fresno Irrigation District	Barstow Chateau Fresno Recharge Project	Planning	P	S	S	S	S	P			S	S	S	S	S			S	S					

P = Primary

S = Secondary

KINGS BASIN IRWMP PROJECT LIST

Adopted 7-20-2022

Updated 4-4-2024

Project ID	Member/IP Organization	Project Title	Project Status	Halt, and ultimately reverse, the current overdraft and provide for sustainable management of surface and groundwater	Increase the water supply reliability, enhance operational flexibility, and reduce system constraints	Improve and protect water quality	Provide additional flood protection	Protect and enhance aquatic ecosystems and wildlife habitat	Increase amount of groundwater in storage with intent to eliminate the groundwater overdraft in 20 years	Identify opportunities and Projects	Identify DAC priority needs and promote/support solutions to DAC water issues	Increase average annual supply and reduce demand	Increase dry year supply	Increase regional conveyance capacity	Compile baseline water quality data for ground & surface water	Encourage Best Management Practices, policies & education that protect water quality	Identify sources of water quality problems & promote/support solutions to improve water quality	Increase surface storage	Sustain the Kings River Fisheries Management Program	Pursue opportunities to incorporate habitat benefits into projects	Increase public awareness of IRWM Efforts	Involve local water districts and land use agencies in generating and confirming the current and future water needs to ensure compatibility and consistency with land use and water supply plans	Comply with SBx7-7	Pursue opportunities to include project elements that reduce energy consumption, reduce greenhouse gas emissions, use renewable resources or include carbon sequestration strategies
				RG1	RG2	RG3	RG4	RG5	MO1	MO2	MO3	MO4	MO5	MO6	MO7	MO8	MO9	MO10	MO11	MO12	MO13	MO14	MO15	MO16
186	Fresno Irrigation District	Barstow Jameson Recharge Basin	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
187	Fresno Irrigation District	Barstow Westlawn Recharge Basin	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
188	Fresno Irrigation District	Central Hughes Basin Expansion Project	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
189	Fresno Irrigation District	Chestnut Lincoln Pond Expansion Project	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
190	Fresno Irrigation District	Empire Pond Expansion Project	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
191	Fresno Irrigation District	Lambrecht Pond Expansion Project	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
192	Fresno Irrigation District	Little Pine Flat Expansion Project	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
193	Fresno Irrigation District	Malaga East Pond Expansion Project	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
194	Fresno Irrigation District	Orange Lincoln Pond Expansion Project	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
195	Fresno Irrigation District	Purcell West Pond Expansion Project	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
196	Fresno Irrigation District	Kenneson-Sanchez Basin Project	Ready For Construction	P	S	S	S	S	P			S	S	S	S			S	S					
197	Fresno Irrigation District	Ventura Pond Expansion	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
198	Fresno Irrigation District	Wagner Pond Expansion	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
199	Fresno Irrigation District	Whitesbridge Neilsen Pond Expansion Project	Planning	P	S	S	S	S	P			S	S	S	S			S	S					
200	Laguna Irrigation District	Coelho Farms Recharge Project	Planning	P	S	S	S	S	P		S	S	S		S	S				S		S		

P = Primary
S = Secondary

Attachment 2 – Past and Present Grant Contracts

Kings Basin Water Authority – Past & Present Grant Contracts

Updated April 4, 2024

Program & Agency	Project Title	Project Proponents	Project Description	Grant Award/Request	Status
Prop 13 Groundwater Storage Construction Grant Program (CDWR)	Alta Irrigation District Coordinated Groundwater Storage Project	KRCD Alta ID City of Dinuba	Dinuba project is a twenty-eight acre, three-cell stormwater retention and recharge basin located within the City of Dinuba. Alta ID's Traver Pond project is the enlargement of an existing five-acre recharge basin to a size of sixteen-acres.	Grant: $2,737,753 Project Cost: $2,974,651 Contract executed with CDWR, June 2006	Completed in 2011
Prop 13 Groundwater Storage Construction Grant Program (CDWR)	Fresno Irrigation District Waldron Pond Banking Facility Expansion	FID	The Waldron Pond Banking Facility is a groundwater recharge and recovery project that provides water to urban suppliers, agriculture suppliers, and facilitates the environmental benefits of improving the Kings River fishery. The project constructed eight recovery wells, five monitoring wells, and thirteen new recharge basins expanding the existing facility to 270 aggregate acres of recharge area.	Grant: $4,615,072 Project Cost: $10,500,000	Completed in 2008
Prop 50 IRWM Planning Grant Program (CDWR)	Upper Kings Basin Water Forum Integrated Regional Water Management Plan	KRCD/Water Forum	Initial development of the Upper Kings Basin IRWMP.	Grant: $500,000 Project Cost: $1,000,000	Completed July 2007
Prop 50 IRWM – Discretionary Funds – Integrated Regional Groundwater Model Demonstration (CDWR)	Kings Basin Integrated Groundwater Surface-water Model (Kings IGSM)	KRCD/Water Forum	The Kings Integrated Groundwater and Surface Water Model (IGSM) was developed to support the planning analysis required for the Upper Kings Basin IRWMP project. It provides an analytical tool for the region that can represent the groundwater and surface water flow systems and their interactions; and can provide quantitative information on a comparative basis to help evaluate alternative conjunctive water management strategies.	Grant: $500,000 Project Cost: $1,000,000	Completed model development Spring 2007; calibration report published November 2007

Prop 84 River Parkways and Urban Streams Restoration Grant Programs (CA Resources Agency	Kings Ribbon of Gems – North Riverside Park	Kings River Conservancy KRCD/Water Forum	Implementation of a project identified in the "Kings Ribbon of Gems" plan. 38-acre river parkway located below Pine Flat Dam on the north bank of the Kings River upstream of Choinumni Park. Two components: 1) 1.5-mile river access trail with 0.5-mile ADA compliant section plus picnic areas, 2) ADA restroom, with adjacent ADA parking area.	Grant: $284,674 Project Cost: 298,374 Contract executed with Resources Agency Summer 2011	Project is complete. Ribbon cutting ceremony occurred in Spring 2013
Prop 50 Round 2 IRWM Implementation Grant Program (SWRCB)	Upper Kings Basin Water Forum Project	KRCD/Water Forum Alta ID City of Fresno Fresno ID	Alta ID Traver Pond Project provides dry year supply and is a component of a surface water exchange agreement w/ Cutler & Orosi PUDs. City of Fresno project installed 10k of planned 110k residential water meter. Fresno ID Jameson Pond Expansion added sixty additional acres to an existing forty-acre recharge facility.	Grant: $6,064,375 Project Cost: $18,112,895 Contract executed with SWRCB, December 2008	Completed September 2013
Prop 50 Supplemental – AKA Mini 50 – Grant Program (CDWR)	The Fresno Irrigation District Jameson Pond Expansion Project Phase II The City of Fresno Residential Water Meter Project Phase II	UKBIRWMA City of Fresno Fresno ID	Fresno ID's Jameson Pond Phase II Expansion enhances water supply capacity by constructing an additional recovery well. The City of Fresno Phase II meter project installed an additional 5k meters (of planned 110k) complete with AMR devices and software.	Grant: $2,099,868 Project Cost: $4,661,500 Contract executed with CDWR, September 2011	Completed December 2015
Prop 84 IRWM Disadvantaged Communities Pilot Program (CDWR)	UKBIRWMA – Disadvantaged Communities (DAC) Outreach & Planning Pilot	UKBIRWMA	Project seeks to map DACs and their water needs; develop mechanisms to effectively engage and integrate DACs into the IRWM planning process; develop conceptual project descriptions and cost estimates to include in the IRWMP project list; and identify/facilitate partnerships between member agencies and DACs.	Grant: $500,000 Project Cost: $500,000 Contract executed with CDWR, January 2012	Completed June 2014

Prop 84 Round 1 IRWM Planning Grant Program (CDWR	UKBIRWMA – Integrated Regional Water Management Plan Update	UKBIRWMA	The objective of the project is to update the 2007 Upper Kings Basin IRWMP to: 1) Satisfy new State guidelines for IRWMPs; 2) More thoroughly address Statewide Priorities and Program Preferences; 3) Update the plan to include recent information; 4) Address inadequacies in the existing IRWMP; 5) Expand the focus on Disadvantaged Communities; 6) Document successes and lessons learned since the original plan was drafted; 7) Document governance and policy improvements since the original plan was drafted; 8) Engage more stakeholders; and 9) Improve the overall regional planning process.	Grant: $236,890 Project Cost: $336,850 Contract executed with CDWR, September 2011	Completed April 2014
Prop 1E Round 1 IRWM Stormwater Flood Management Grant Program (CDWR)	Fancher Creek Flood Control Improvement Project	City of Fresno w/ Fresno Metropolitan FCD (project is included in the Kings Basin IRWMP project list)	The Fancher Creek Detention Basin removes 682 acres from the 100-year floodplain, redirects runoff that may contain pollutants into stormwater management basins, and result in approximately 740-acre feet of additional surface water recharge per year. Once complete, the basin will have sufficient capacity to provide the 100-year control of the Fancher Creek flows.	Grant: $2,231,086 Project Cost: $4,613,734 Contract executed with CDWR, Sept. 5, 2012	Completed June 2020
Prop 84 Round 1 IRWM Implementation Grant Program (CDWR)	UKBIRWMA – Groundwater Overdraft Reduction and Disadvantaged Community Water Supply Reliability Projects	UKBIRWMA Bakman WC w/ FID Consolidated ID County of Fresno City of Clovis City of Fresno East Orosi CSD w/ AID	Bakman WC's project entails installation of 2,453 residential water meters (This project was not awarded). Consolidated ID developed a 75-acre groundwater banking facility. County of Fresno Drummond Jensen project prepared a study to remove an unincorporated neighborhood from septic by connecting to City of Fresno. City of Clovis expanded its surface water treatment facility to reduce groundwater pumping. City of Fresno installed an additional 10k residential water meter. And East Orosi CSD's	Grant: $8,496,000 Project Cost: $15,404,340 Contract executed with CDWR, July 2012	Completed June 2018

			rehabilitated two existing municipal wells in a DAC to extract from a higher quality zone of the aquifer.		
Prop 84 Local Levee Grant Program (CDWR)	Kings River Levee Evaluation Project	KRCD (project is included in the Kings Basin IRWMP project list)	The objective of this project is to reduce flood risk on the Kings River by evaluating flood project levees, identifying deficiencies, and recommending appropriate management actions.	Grant: $2,000,000 Project Cost: $2,292,922 Contact executed with CDWR, February 2013	Completion December 2020
Prop 1E Round 1 Flood Corridor Grant Program (CDWR)	McMullin On-Farm Flood Capture and Recharge Project	KRCD Terranova Ranch McMullin Recharge Group Raisin City WD James ID (project is included in the Kings Basin IRWMP project list)	Project is Phase 1 in a multi-phase project to capture North Fork Kings flood flows for on-farm recharge activities (direct/in-lieu recharge, irrigation). Objectives will be achieved through flood easements on 250 acres; upgrade to turnout along Kings River, McMullin Grade Crossing, Terranova Canal, and implementation of Flood Flow Capture on 1250 acres. Project will divert flood flows up to 500 CFS.	Grant: $5,039,950 Project Cost: $14,551,689.13 Contract executed with CDWR, February 2013	Completed 6/30/2023
California Water Foundation	Kings Basin Remote Groundwater Monitoring Project	KRCD	Installation of satellite-based remote groundwater monitoring equipment on nine existing wells located on or near Manning Avenue between James ID and Alta ID.	Grant $44,763 Project Cost ~$55,000 Contract executed with CWF, Summer 2012	Completed May 2013
California Water Foundation	Implementation of Interlinked Groundwater Management Strategies in the Kings Basin	KRCD	Installation of constructed monitoring wells within Management Areas A & B, update of the Kings IGSM and model run of IRWMP projects, and land use outreach.	Grant $1,000,000 Project Cost ~$1,080,000 Contract executed with CWF, February 2013	Completed April 2016

Prop 1E Round 2 IRWM Stormwater Flood Management Grant Program (CDWR)	Dry Creek Flood Control Improvement Project	Fresno Metropolitan FCD (project is included in the Kings Basin IRWMP project list)	The project consists of modifications to FMFCD's flood control facilities in the Big Dry Creek and Pup Creek watersheds. The project's primary goal is to provide better flood protection for the Cities of Fresno and Clovis, and surrounding areas. The project includes improving the structural integrity of the Big Dry Creek Dam, and channel improvements to allow more effective and flexible routing of flood waters at three points downstream of the Dam along the Dry Creek system. In addition, the project includes construction of one floodwater detention basin and expansion of an existing flood water detention basin to increase stormwater storage capacity, increase groundwater recharge, and improve groundwater quality.	Grant: $6,891,010 Project Cost: $13,782,020 Contract executed May 12, 2014	Completed September 2021
Prop 84 Round 2 IRWM Implementation Grant Program (CDWR)	KBWA IRWM Implementation Grant Projects	UKBIRWMA City of San Joaquin Fresno ID Bakman Water Co. Laguna ID City of Kerman	The City of San Joaquin's project provides drinking water supply and quality benefits to DAC residents through well rehabilitation and installation of residential water meters*. Fresno ID's project partners with James ID to utilize flood water for banking and recharge in the lower Kings Basin. Bakman's project provides drinking water supply and quality benefits to DAC residents through well head treatment of DBCP and installation of residential water meters*. Laguna's project involves construction of a 52-acre recharge and banking facility between Laton and Riverdale. City of Kerman's project installs 665 residential water meters of the City's planned program to meter all residential users.	Grant: $8,734,000 Project Cost: $11,105,913 Contract executed July 2014	Grant completion date: 6/30/2018

Prop 1 IRWM Planning Grant Program (CDWR)	2016 KBWA IRWM Plan Update	KBWA	Update of the Kings Basin IRWM Plan to meet 2016 IRWM Plan Standards. Update will include the development of a Stormwater Resources Plan.	Grant: $202,817 (only used $201,402.26) Project Cost: $257,162.40 Contract executed June 2017	Completed December 31, 2018
Prop 1 DAC Involvement Grant Program (CDWR)	Tulare-Kern Funding Area DACI Program	KBWA Southern Sierra IRWM Kaweah River Basin IRWM Poso-Creek IRWM Kern County IRWM Westside-San Joaquin IRWM Tule River Basin IRWM County of Tulare is applicant on behalf of IRWMS	The purpose of this grant is to engage DAC/SDACS/EDA in the IRWM planning process. Project activities include: Needs Assessment web portal, DAC Engagement and Education Program, and DAC project development.	Grant: $3,400,000 to the Tulare-Kern FA (of which $392,000 directly allocated to KBWA for DAC projects) Project Cost: $392,000 Contract executed February 13, 2018	Administered by County of Tulare on behalf of the Tulare-Kern Funding Area. KBWA DAC planning projects awarded/completed: • East Orosi CSD: $159,144, in progress • Malaga CWD: $90,856, completed May 2021 • Sultana CSD: $142,000, completed October 2021
Prop 1 IRWM Implementation Grant, Round 1 (CDWR)	KBWA IRWM Implementation Grant Projects	Fresno ID Consolidated ID Laguna ID Fresno Metropolitan Flood Control District (Only FMFCD Project Funded)	Six projects were submitted for this grant solicitation, but only the Fresno Metropolitan Flood Control District (FMFCD) Basin "CF" Stormwater Recharge and Flood Protection Project was awarded funding. FMFCD's project will construct basin improvements to FMFCD's existing Basin "CF". The basin improvements include a basin pump station, telemetry system, internal basin pipeline, basin relief pipeline, canal intertie structure and appurtenant facilities. The basin's primary purpose is to capture stormwater and prevent localized flooding. This project will provide a direct benefit to the disadvantaged community of Malaga.	Grant: $1,113,033 Project Cost: $1,113,033 Contract executed January 26, 2021	Project construction in progress.

Prop 1 Round 2 Storm Water Grant Program (SWRCB)	McMullin On-Farm Flood Capture Project, Phase 2	McMullin Area Groundwater Sustainability Agency	Building upon Phase 1, this Phase 2 project will bring surface water supplies into a "groundwater only" area to dedicated recharge basins, on-farm in-field recharge or in-lieu recharge, which will greatly increase the water supply reliability for the area.	Grant $10,000,00 Contract execution in progress	Grant contracting in progress.
Prop 1 IRWM Implementation Grant, Round 2 (CDWR)	KBWA IRWM Implementation Grant Projects	Bakman Water Company Fresno ID City of Parlier	The Bakman Water Company project will install inline nitrate analyzers on six wells within that will provide real time values for nitrate levels in the groundwater and will allow Bakman Water to operate sources that seasonally fluctuate with Nitrate Levels and prevent any Nitrate MCL exceeding water from reaching customers. Fresno ID's recharge basin project will capture, store and recharge surface water with an average annual recharge of 960 acre-feet/year based on local hydrology and basin infiltration rates. The City of Parlier's project will retrofit three existing stormwater retention basins into groundwater recharge basins. This project is estimated to contribute approximately 440 acre-feet/yr towards groundwater recharge.	Grant: $6,243,505 Project Cost: $8,653,644 Contract executed May 18, 2023	• Bakman WC project start is delayed. The project includes multiple well locations that will be constructing new treatment facilities. The nitrate analyzers cannot be installed until construction starts on the new treatment facilities. • Fresno ID project construction is in progress. • City of Parlier project is in design phase.

Cumulative Grant Award: $69,926,796
Cumulative Local Match: $52,758,932.53
Cumulative Project Costs: $122,685,728.53