

KINGS BASIN WATER AUTHORITY

2016 ANNUAL REPORT

(OCTOBER 2015 – SEPTEMBER 2016)

December 2016

PREPARED BY:



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- 1 - Project List
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1 – INTRODUCTION

The Kings Basin Water Authority (KBWA) adopted an updated Integrated Regional Water Management Plan (IRWMP) in October 2012. The IRWMP established a goal of preparing an annual report (see Section 9.5 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; status of IRWMP objectives and implementation projects; changes in governance, policies and membership of the Kings Basin Water Authority; 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, 2015 to September 30, 2016.

2 – STATUS OF MEASURABLE OBJECTIVES

Following is list of Measureable Objectives (MO) from Chapter 5 of the 2012 IRWMP and progress made in meeting those objectives during the year. Progress for most objectives is documented when projects are completed that were either funded through grants secured by KBWA, or were on the KBWA projects list and 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. The region continues to be actively engaged in the implementation of the Sustainable Groundwater Management Act of 2014 which requires sustainability consistent with this Measurable Objective. Groundwater Sustainability Agencies (GSAs) are in various stages of formation within the Kings Basin Water Authority. Annual groundwater storage change estimations will be developed and reported by these GSAs.

Several projects will help to increase groundwater storage and reduce groundwater overdraft. Consolidated ID completed construction of the 75-acre South and Highland Groundwater Banking Project in 2016. Laguna Irrigation District completed construction of a 52-acre recharge and banking facility called Recharge Basin No. 11 in 2016. Lastly, Fresno ID is partnering with James ID to construct the Southwest Banking Project. The project will recharge flood and stormwaters. The project is undergoing design and environmental documentation with construction anticipated in 2017.

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 project list at any time during the year. Included on the KBWA website is a link to submit a project for inclusion. New projects are considered at each Advisory Committee meeting, and presented to the Board of Directors for inclusion on the project list. A call for new projects was held over the past year. A copy of the current Project List is included as **Attachment 1**.

Measurable Objective No. 3: Identify 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:

- East Orosi CSD's project evaluates and rehabilitates up to two existing municipal wells in a Disadvantaged Community.
- 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.
- Bakman Water Company's project provides drinking water supply and quality benefits to DAC residents through well head treatment of DBCP and installation of residential water meters. Water meter installation is on-going, but Bakman now has to consider different treatment methods due to changes in water quality.

Authority staff is working with other IRWM practitioners, counties and small community leaders to develop a scope of work for the Proposition 1 DAC Involvement Grant Program. The \$3.4 million DAC Involvement Grant is a noncompetitive grant for the entire Tulare Lake Funding Area with the applicant being the County of Tulare. Only one agency may submit an application on behalf of the entire funding area. There is no current deadline for submitting proposals, but it is anticipated that an application will be submitted in early 2017.

A Tulare-Kern Funding Area DAC Involvement committee made up of IRWM representatives, DAC representatives, County representatives, and NGOs has been meeting regularly in Visalia to develop a scope of work. The DAC Involvement Committee is currently obtaining letters of support from various groups in the Tulare Lake Funding Area.

Measurable Objective No. 4: Increase average annual supply and reduce demand
Measurement: Documentation of amount of increase/decrease

Status: In January of 2014, a state of emergency was declared in California in response to the historic drought. A 25% reduction in water use was mandated by the State Water Resources Control Board (SWRCB) for all public water systems. Effective June 1, 2015 the SWRCB imposed targeted mandatory cuts to water use. These mandatory cutbacks were revised in 2016 and vary by agency. The table below shows the conservation standard for suppliers within the IRWMP, the cumulative savings, as well as the August monthly savings.

Supplier Name	Cumulative Savings*		Monthly Savings (August 2016)		
	Conservation Standard	Cumulative Percent Saved (as compared to 2013)	Monthly Percent Saved (as compared to Sep-13)	Estimated Monthly R-GPCD	Total Population Served
City of Reedley	0%	19.1%	23.9%	106.7	24,194
California Water Service Company Selma	0%	38.0%	36.7%	153.3	25,194
Pinedale County Water District	14%	28.4%	19.7%	155.5	16,735
City of Fresno	0%	23.4%	18.7%	195	503,077
City of Kerman	0%	19.9%	14.8%	183.7	14,359
City of Clovis	0%	20.1%	16.9%	185.5	111,927
Bakman Water Company	34%	30.7%	35.9%	192.5	16,756
City of Kingsburg	0%	26.7%	24.8%	293.3	11,685
City of Dinuba	0%	30.0%	24.9%	138.5	24,657
City of Sanger	26%	17.3%	17.2%	181.1	25,664
Malaga County Water District	0%	10.7%	0.4%	N/A	1,300
<small>Data obtained November 4, 2016 from http://www.waterboards.ca.gov/water_issues/programs/conservation_portal/conservation_reporting.shtml. Malaga data from pumping records.</small>					
<small>* Cumulative savings based on June 2016 through August 2016, except for Sanger, Bakman and Pinedale, where data is from June 2015 through August 2016</small>					

In addition, several water agencies are installing water meters through IRWMP funding as a way to help reduce water demands. These include the City of San Joaquin, City of Kerman and Bakman Water Company.

Water demands were also addressed through several water conservation programs. The KBWA offered water conservation handouts in both English and Spanish to members and interested parties, as well as “Planners Packet” USB drives that were developed through a California Water Foundation Grant. The USB drive has content regarding water in the Kings Basin, case studies, and policies and legislations on land use and water resources.

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 project list. Several groundwater recharge and banking projects have been completed or are underway, including Consolidated ID’s South & Highland Banking Facility, Laguna ID’s Recharge Basin No. 11, and Fresno ID’s Southwest Banking Project.

Measurable Objective No. 6: Increase regional conveyance capacity

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.

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 ECHO and SDWIS.

Status: All of the permitted water suppliers perform water quality testing, which is available upon request. The region has not initiated a specific region-wide water quality data analysis.

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

Measurement: Documentation of efforts/education

Status: Water purveyors within the KBWA initiated drought condition policies including limiting days of landscape irrigation, public service announcements, and other Best Management Practices. 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. Also as noted under Measurable Objective 13, KBWA developed a Water Conservation Tips Handout that was published in English and Spanish. Most of the handouts have been used by KBWA agencies that represent disadvantaged communities. A General Awareness Packet and KBWA brochure were also developed and distributed at various events, presentations, and meetings with elected officials.

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. As noted in the 2015 annual report, the MCL for hexavalent chromium is of concern within portions of the basin and potable water suppliers are tracking the impacts to existing water supplies. The City of Kerman continues its efforts to identify financially feasible options to remove the contaminant.

The County of Fresno Drummond Jensen project removes an unincorporated neighborhood from septic systems by connecting to the City of Fresno sewer system. This project is nearing completion.

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 IRWMP 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: During this historic drought period, the Irrigation Districts diverted water from storage to convey down the river to maintain the Fisheries Program in accordance with the Fisheries Program Agreement.

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

Measurement: List of opportunities considered and accomplishments

Status: Consolidated ID's South and Highland Basin Project was recently completed and included two island features that will serve as examples of habitat incorporation. Habitat benefit continues to be considered as part of project development associated with grant funding pursuits.

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

Measurement: Public relations and annual reporting

Status: The 2015-16 outreach efforts for the KBWA included websites, communication tool development, and social media. Some of the highlights include:

- **KBWA website: www.kingbasinauthority.org**

Between July 2014 and January 2016 there were 7,638 views on the KBWA website. Popular pages that garnered the most views including the press release by the Kings River Water Association of the 60th anniversary of Pine Flat Dam, information on Prop. 1 public workshops, KBWA's project list and reports, and the list of KBWA directors.

- **Kings Groundwater Basin Video**

Since the publication of the KBWA groundwater video in April 2014 there have been 550 views on YouTube.

- **KBWA Twitter Account: @Kings Water**

As of January 2016, KBWA's Twitter account has 385 followers and 917 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 has also established a new Facebook page.

- **Communication Tools**

KBWA provided an Indoor Watering Tips handout to all Members and Interested Parties. As of January 2016, 3,000 of the 5,000 indoor watering tips fliers developed by the KBWA have been distributed.

Under the future Proposition 1 DAC Involvement Grant, the DAC coordinator(s) will develop communication tools to help with educating DACs including materials in Spanish, a resource library website, and a series of videos.

- **Media**

A news article was published in the Fresno Bee regarding the Laguna Irrigation District recharge dedication ceremony held on May 20, 2016.

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 the Sustainable Groundwater Management Act (SGMA). Fresno County conducts a quarterly committee meeting related to SGMA. KBWA stakeholders continue to be actively involved in SGMA and involved in how implementation will impact landuse decisions.

Measurable Objective No. 15: Comply with SBX7-7

Measurement: Review of compliance by stakeholders

Status: Both the Fresno Irrigation District and the Consolidated Irrigation District have 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.

3 – IMPLEMENTATION PROJECTS

3.1 – Regional Studies

The conversion of the Kings Basin Integrated Groundwater and Surface-water Model (IGSM) to the new Integrated Water Flow Model (IWFM) was completed. A Draft Model Calibration Report was also completed. The new model includes more recent years of data than was found in the IGSM. Funding for the model work was through a grant from the California Water Foundation. The model upgrade was completed by Hydrometrics Water Resources, Inc. and the effort facilitated by the Kings IWFM Model Work Group.

3.2 – Project List

KBWA Members and Interested Parties can submit projects for inclusion on the project list at anytime. Projects are then reviewed by the Projects Work Group and considered for approval by the Board. A copy of the 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 project list.

3.3 – Completed or On-going Projects

Completed and ongoing projects during this annual reporting period are listed in **Attachment 2 – Past and Present Grant Contracts** (last updated September 21, 2016), and discussed throughout Section 3 – Status of Measureable Objectives. Since the initiation of IRWM efforts in the region, the cumulative funding amount awarded to the region through IRWM related efforts is \$53,812,810, and the cumulative project cost is more than \$87 million.

3.4 – Grant Funding

Attachment 2 includes a list of currently funded projects.

IRWMP Round 3

A DWR Grant application was submitted in the summer of 2015 as part of DWR’s IRWM Implementation Round 3. After the KBWA project selection process was followed in accordance with the IRWMP requirements, an application for a single project was submitted because of the limited remaining funds available to the Tulare–Kern Funding Area. The application was for Consolidated Irrigation District’s Adams and Academy Basin that was previously submitted under DWR’s Drought Solicitation. The grant application was not selected in the final funding recommendations.

IRWMP Planning

The KBWA hired Provost & Pritchard to prepare a Proposition 1 IRWM Planning Grant application to update the Kings Basin IRWMP to meet new State Standards (AB 1249 and SB 985). The IRWMP will also be updated to make it a functionally equivalent Storm Water Resources Plan for the Kings Basin IRWM region, and will cover all areas

of the KBWA that are not already covered by a Stormwater Resources Plan or other functionally equivalent plan. The application was submitted in 2016 and funding recommendations are expected before the end of 2016.

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 considered adopting Policy No. UKB-008 Small Agency Participation Percentage Policy, which was recommended by the Budget Committee to reduce financial burdens on smaller agencies. Since the JPA was formed, four new agencies have joined. Each agency paid a buy-in amount of \$30,000 in accordance with Section 6.02 of the JPA agreement, and annual dues of \$7,000. Significant effort has been made in an attempt to reduce financial burdens on smaller agencies so that they may participate as Members of the JPA but that the KBWA Board has not yet agreed upon a suitable framework.

4.2 – Changes in Government Regulations

The implementation of the Sustainable Groundwater Management Act 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

The Raisin City Water District was approved as a Member of the KBWA. The KBWA boundary was modified to include Armona CSD, which was also added as an Interested Party. Pinedale County Water District was approved as an Interested Party.

At the request of the Advisory Committee and Board of Directors, the KBWA discussed Interested Party attendance. Currently the KBWA does not have a policy on the minimum level of participation. Meeting attendance was documented for all Interested Parties for the past three years. The evaluation only considered attendance in Authority meetings and did not account for other forms of participation, such as involvement in work groups and voluntary financial contributions. Some of the entities that did not attend any meetings in the last three years have participated in other Authority activities such as sitting on the Project Selection Panel. In the last three years nine Interested Parties have not attended any Advisory Committee or Board meetings. Staff prepared a letter to those nine entities asking for a status update. As a result, the Fresno County Farm Bureau and Orange Cove ID asked to be removed as Interested Parties, four entities affirmed they would like to remain Interested Parties, and no response was received from three entities. The KBWA decided to not at this time, a policy of removing Interested Parties for non participation.

4.4 – Coordination with Other IRWMPs

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

- Participation in IRWMP 'Roundtable of Regions' meetings, a statewide effort to bring all IRWMPs together to discuss important issues.
- 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

There are no proposed IRWMP Amendments as of the time of this report.

6 – SUSTAINABLE GROUNDWATER MANAGEMENT ACT

The Sustainable Groundwater Management Act (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 Groundwater Sustainability Agencies (GSAs). The GSAs will be public agencies independent of the KBWA.

Deadlines for SGMA include modifications to groundwater basin boundaries (2017), formation of GSAs (2017), development of Groundwater Sustainability Plans (2020), and sustainable groundwater management (2040).

The Groundwater Sustainability Agencies that are expected to be formed in the KBWA boundary include:

- Consolidated Irrigation District GSA
- McMullin GSA
- James GSA
- North Kings GSA
- Kings River East GSA
- Mid-Kings River GSA
- North Fork Kings GSA
- South Fork Kings GSA
- Greater Kaweah GSA

These GSAs are in various stages of being formed as of September 2016. The kingsgroundwater.info website features new interactive maps that allow viewers to see basin boundary modifications and where GSAs are forming.



KINGS BASIN IRWMP PROJECT LIST

Updated 12-16-2016

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	Comply with SBx-7
				RG1	RG2	RG3	RG4	RG5	MO1	MO2	MO3	MO4	MO5	MO6	MO7	MO8	MO9	MO10	MO11	MO12	MO13	MO14	MO15
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
2	Bakman Water Company	SCADA system for wells improved groundwater management, operations, supply reliability & conservation	Planning	S	P	S			S		P	S	S				S						S
3	Biola Community Services District	Biola CSD Drinking Water Improvement Project	Preliminary Design	S	P	S					P	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		
140	City of Clovis	Clovis North Recharge Facility	Planning	P	S	S	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		S	
11	City of Fresno/Water Division	Nielsen Recharge Facility	Preliminary Design	P	S	S	S		P		S	S	S					S					
12	City of Fresno/Water Division	Three Reclamation Water Wells at the Fresno/Clovis Regional Wastewater Reclamation Facility	Preliminary Design	P	S	S			P		S	S	S										
15	City of Fresno/Water Division	Tertiary Treatment at Fresno/Clovis Regional Reclamation Facility	Ready For Construction	P	S	S			P		S	S	S										
16	City of Fresno/Water Division	Northwest Fresno Regional Recharge Facility	Preliminary Design	P	S	S	S		P		S	S	S					S					
17	City of Fresno/Water Division	Southeast Fresno Stormwater Detention, Greenbelt and Environmental Habitat Restoration Area	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										
19	City of Fresno/Water Division	Southeast Surface Water Treatment Facility	Preliminary Design	P	S	S			P		S	S	S	S		S							
20	City of Fresno/Water Division	Southeast Fresno Regional Recharge Facility	Planning	P	S	S	S		P		S	S	S					S					
21	City of Fresno/Water Division	Southwest Fresno Regional Recharge Facility	Planning	P	S	S	S		P		S	S	S					S					
22	City of Fresno/Water Division	Northeast Fresno Recycled Water Transmission Pipeline and Reclamation Facility Supply Pipeline	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	
141	City of Fresno/Water Division	Kings River Pipeline	Preliminary Design	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										
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
129	City of Orange Cove	City of Orange Cove Water System Feasibility Study	Planning		P						P							S					
27	City of Parlier	Parlier Water Storage Project	Planning & Preliminary Design	S	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
32	City of Selma	Storm Drain Upgrade	Ready For Construction					P						P									
33	City of Selma	Storm Drain Storage/Recharge Project	Planning				P							P									
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	Adams and Academy Basin	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	Recharge 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					
123	County of Tulare	Seville Sontag Ditch Flood Control Project	Ready For Construction				P			S	P			S									
124	County of Tulare	Yettem-Button Ditch Flood Control Project	Planning				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

P = Primary
S = Secondary



KINGS BASIN IRWMP PROJECT LIST

Updated 12-16-2016

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					MO1	MO2	MO3	MO4	MO5	MO6	MO7	MO8	MO9	MO10	MO11	MO12	MO13	MO14	MO15
				RG1	RG2	RG3	RG4	RG5															
132	East Oroshi CSD	East Oroshi Water Conservation and Meter Project	Preliminary Design	P	S	S				S	S					S						S	
61	Easton CSD	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	
67	Fresno Irrigation District	Jameson Pond	Preliminary Design	P	S			S			S	P		S									
68	Fresno Irrigation District	Oleander Basin Banking Project	Planning	P	S			S			S	P		S									
71	Fresno Irrigation District	Eastside Streams Improvement Project	Conceptual		P		S	S				P											
72	Fresno Irrigation District	Big Dry Creek Recharge Project	Planning	P	S		S	S	P		S		S				S						
139	Fresno Irrigation District	Fancher Creek Storage Project	Conceptual	S	P		S	S	S		S						P						
73	Fresno Metropolitan Flood Control District	Dry Creek Improvement Project	Grant awarded, project under construction	S		S	P	S	S		S	S	S			S	P		S				
133	Fresno Metropolitan Flood Control District	Regional Groundwater Recharge and Surface Water Reuse Project	Preliminary Design	P	S	S	S	S	P		S	S	S			S	S		S				
76	Fresno State University	Developing a Model GWMP of Integrated, All-in-One Strategy for Conservation, Groundwater, and Wastewater Management	Conceptual	P	S	S						S			P	S				S			
77	Fresno State University	Experiment Using Non-Potable Water as an Alternative to Potable Groundwater or Surface Water in Cooling Towers and then Re-cycling that Water for Crop Production	Conceptual	S	P	S									P	S							
136	Hardwick Water Company	Hardwick Water Distribution System Replacement and Hookup Project	Preliminary Design		P	S			S	P						S							
80	Kings River Conservancy	The Kings Ribbon of Gems - North Riverside Park	Ready For Construction			S		P															
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										
137	Kings River Conservation District	Coehlo and Gragnani Wetlands Recharge Project	Planning	P	S	S	S	S	P	S	S	S			S		S		S				
120	London Community Services District	London Water Conservation Project	Ready For Construction	P	S	S			P	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	
125	Sultana Community Services District	Sultana Safe Drinking Water Feasibility Study Project	Planning		S	P				P						S							
135	Sultana Community Services District	Sultana Water Conservation and Meter Project	Preliminary Design	P	S	S			P	S	S					S						S	
144	Terranova Ranch, Tetra Tech	On-Farm Flood Capture Expansion Project	Preliminary Design, Ready for Construction	S	P	S	S		P		S	S	S	S	S							S	

P = Primary
S = Secondary

Staff Reports: Status of Planning and Implementation Contracts
September 21, 2016 Kings Basin Water Authority Advisory Committee Meeting

Program & Agency	Project Title	Project Proponents	Project Description	Grant / Project Cost	Status
<p align="center">Prop 84 Round 1 IRWM Implementation Grant Program (CDWR)</p>	<p align="center">UKBIRWMA – Groundwater Overdraft Reduction and Disadvantaged Community Water Supply Reliability Projects</p>	<p align="center">UKBIRWMA Bakman WC w/ FID Consolidated ID County of Fresno City of Clovis City of Fresno East Orosi CSD w/ AID</p>	<p>Consolidated ID's project develops a 75-acre groundwater banking facility. County of Fresno Drummond Jensen project removes an unincorporated neighborhood from septic by connecting to City of Fresno. City of Clovis' project entails expansion of its surface water treatment facility to reduce groundwater pumping. City of Fresno's project would install an additional 10k residential water meters. And East Orosi CSD's project evaluates and rehabilitates up to two existing muni wells in a DAC.</p>	<p align="center">Grant: \$8,496,000 Project Cost: \$15,316,390</p> <p align="center">Contract executed with CDWR, July 2012</p>	<p>City of Fresno and City of Clovis project's complete; Consolidated ID working on Final Project Completion Report; County of Fresno working to submit LCP to DIR. Invoicing is current thru Invoice 18 covering the period 4/1/16 - 6/30/16.</p>
<p align="center">Prop 84 Round 2 IRWM Implementation Grant Program (CDWR)</p>	<p align="center">KBWA IRWM Implementation Grant Projects</p>	<p align="center">UKBIRWMA City of San Joaquin Fresno ID Bakman Water Co. Laguna ID City of Kerman</p>	<p>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.</p>	<p align="center">Grant: \$8,734,000 Project Cost: \$10,437,645</p> <p align="center">Contract executed with CDWR, July 2014</p>	<p>Construction of LID Recharge Basin No. 11 complete; Bakman Water Company continuing installation of water meters, but now has to consider different treatment method for Well 8 due to change in water quality. City of Kerman is finalizing their meter procurement and meter installation bid packages. City of San Joaquin is continuing rehabilitation of Well 4 and installation of water meters. Invoicing is current thru Invoice 8 covering the period 4/1/16 – 6/30/16.</p>

<p>Prop 1E Round 1 Flood Corridor Grant Program (CDWR)</p>	<p>McMullin On-Farm Flood Capture and Recharge Project</p>	<p>KRCD Terranova Ranch McMullin Recharge Group Raisin City WD James ID (project is included in the Upper Kings Basin IRWMP project list)</p>	<p>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.</p>	<p>Grant: \$5,000,000 Project Cost: \$5,000,000 Contract executed with CDWR, February 2013</p>	<p>KRCD continues to work with James ID and RD 1606 on the project agreements. KRCD obtained the Appraisal Report for Terranova Ranch. Invoicing is current thru Invoice 13 covering the period 4/1/16 – 6/30/16.</p>
<p>Prop 84 Local Levee Grant Program (CDWR)</p>	<p>Kings River Levee Evaluation Project</p>	<p>KRCD (project is included in the Kings Basin IRWMP project list)</p>	<p>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.</p>	<p>Grant: \$2,000,000 Project Cost: \$2,292,922 Contact executed with CDWR, February 2013</p>	<p>KRCD's consultant submitted responses to USACE's comments on the Kings River Subsurface Exploration Plan. KRCD was granted an 18-month grant extension with an end date of May 1, 2018.</p>