# KDWCD Water Report

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#### **KDWCD Vision Statement**

Kaweah Delta Water Conservation District's vision is to protect, conserve and maintain the Kaweah Basin's water resources through actively puruing a comprehensive understanding of the region's water resources and through the management of those resources to their fullest potential. The District strives to achieve its vision by engaging in the following core direc-

Conserving and enhancing available water resources, both local and region

Investigating and evaluating the

- Preventing the interference with/or diminutions of natural flow, and

**Inside this Issue** 

Why a Healthy Bay Delta Matters

Water Management Committee Sup ports Groundwater Sustainability



#### Sustainable Groundwater Management Act

If landmark legislation achieves its goals, overall trend of declining groundwater levels in the California will have sustainable groundwater basins...in basin, in above-normal water years, the basin has about 20 years.

ble Groundwater Management Act of 2014. The sweeping legislation -- actually three bills in one -- commit ble resources, the Kaweah basin should be able to the state to locally controlled, sustainable groundwater achieve sustainability. management. Commonly referred to as SGMA (pronounced sig-ma), the law also provides tools, authorities and deadlines for local agencies to achieve The first step will be the formation of a Groundwater sustainability goals during a 20-year implementation Sustainability Agency, or GSA, within two years. Beperiod.

each basin or sub-basin. Generally, "sustainability" means bringing the basin or sub-basin into balance by eliminating overdraft. While broad parameters for that other goal are included in the legislation, it will be defined more precisely by local agencies based on their unique the entire basin. circumstances.

For local agencies, like the Kaweah Delta clude measurable Water Conservation District, the law's requirements are significant and will take several years to accomplish.

The law allows each groundwater basin or sub-basin separate regulation. [A sub-basin is a geologically distinct supply of groundwater.] The Kaweah Subbasin has been designated as a high priority basin. This ranking is developed from criteria including the extent to which the population and irrigated agriculture depend on groundwater. About 125 basins are considered "high" or "medium" priority and account for 90 percent including information on groundwater levels, groundwaof the state's annual groundwater use.

or sub-basins, such as Kaweah Delta Water Conserva- jected data on water demands and supplies, as well as tion District, will be given both the mandate and an monitoring and management provisions. array of tools to regulate groundwater in their areas. These tools include limiting groundwater extractions, as the basin to form GSA's. Early on the City of Visalia, well as imposing fees related to groundwater use.

will be challenging. The district has tracked groundwater activity since before the 1950s. While there is an

demonstrated its ability to recover. That's not to say By now, everyone has heard of the Sustaina- that achieving sustainability will come easily - it won't but with local management and by tapping into availa-

SGMA provides a process and timeline for local agencies to achieve the goals of the legislation. cause Kaweah is a high-priority basin, its GSA must SGMA's goal is to achieve "sustainability" for adopt a groundwater sustainability plan, or GSP, within five to seven years.

The District will work collaboratively with

affected agencies to cover The plan will inobjectives and period milestones the to achieve sustainability goal within the 20-year timeframe. GSPs also must include physical descriptions of the basin,



ter quality, subsidence and groundwater-surface water Local agencies overlying groundwater basins interaction. GSPs also will include historical and pro-

To date several efforts have been initiated in City of Tulare, and Tulare Irrigation District formed the For Kaweah, the task to achieve sustainability Mid-Kaweah Groundwater Subbasin Joint Powers Authority,

# Water Management Efforts

# Why a Healthy Bay Delta Matters to East Side Water Users

Despite California's four years of historic drought conditions, Valley water managers watched proposed federal drought legislation go down in flames. All eyes were on the legislation, which would have provided more reliable

water supplies from the Bay Delta for west side farmers, and afforded Delta, those contractors can return to the San Joaquin River. some needed relief for water users in the Friant service area. So, how exactly does more water in the Bay Delta equate to more water for and the SWP and they are priority rights. In other words, when the CVP Friant since the water for east- and west-side farmers comes from dis- has restricted water deliveries to its users, Exchange Contractors can tinct and separate water systems?

The answer simply is this: Future Friant Division water sup-

obligations to deliver water to the San Joaquin River Exchange Contractors from the Delta.

T h e Exchange Contractors, located in the Central San Joaquin Valley, have water rights on the San loaquin River but



San Francisco Bay Delta

"exchanged" them for a substitute supply. That supply is water in the lawsuit concerning the San Joaquin River. CVP system that originates behind Shasta Dam. That water must flow through the Delta and can be delivered to the Exchange Contractors optimal operations of the CVP and SWP is coming. How that will affect through the San Luis Canal.

#### Water Management Committee Supports Groundwater Sustainability Efforts

local water agencies begin to wrestle and comply with the various components of the Sustainable Groundwater Management Act, or SGMA. improvements to Packwood Creek for groundwater recharge purposes. Signed into law just more than a year ago, the act will most definitely change the manner in which groundwater is managed in California.

One entity already pursuing different groundwater management strategies is the Visalia Water Management Committee. Formed in 2001, the Water Management Committee is an agreement between the City of Visalia and the Kaweah Delta Water Conservation District. Representatives from both agencies work together to maintain existing water rights and to acquire additional water supplies to benefit City of Visalia residents. Due to close relationship in location and water inter- Terms to Know: ests, Tulare Irrigation District and California Water Service Company also partake in the Committees planning efforts. Additionally, any activenhancement of groundwater levels in and around the City.

As part of its 2016 Annual Plan, the Committee will continue to investigate and pursue groundwater recharge improvement projects, including studies for delivery system improvements and optimization. groundwater overdraft is eliminated.



ter stored behind Friant Dam to irrigate farmland on the east side of the San Joaquin Valley. But the Exchange Contract is an exchange, and if the USBR is unable to deliver Exchange Contract water supplies through the

The Exchange Contractors' water rights predate both the CVP never receive less than 75 percent of their historic river supply.

When Congress passed the Central Valley Project Improveplies depend on the U.S. Bureau of Reclamation (USBR) meeting its ment Act of 1992, it set up certain water obligations for wildlife refuges.

> That combined with subsequent biological and court opinions, and salinity standards have created a Delta norm that severely impacts the USBR's ability to serve the Exchange Contractors from the Delta. Consequently, the Friant Division's water supply certainty is lost and for the first time in history, Friant Division contractors received zero water allocations from the CVP in water years 2014 and 2015.

> The federal drought bill would have provided direction and authority to improve managing water supplies by both the CVP and State Water Project, making Delta water supplies more reliable. Actions also would have been authorized to achieve both the restoration and water management goals of the San Joaquin River Restoration Program agreed upon at the end of a decades-old

Since the proposed legislation died, another year without water deliveries for Friant water, as well as operations in the Delta, still Because of this exchange agreement, the USBR can use wa- are unknown. Hopefully, Mother Nature can lend a big hand.

Groundwater sustainability are the buzz words for 2016 as One project, the Packwood Creek Water Conservation Project, already has already been funded for the design and construction of in-channel

> Other ways the Committee works to help with local groundwater conditions is the acquisition of water from other surface water suppliers, and the development of groundwater recharge basins.

> Kaweah Delta Water Conservation District continues to support the City's efforts to stabilize the groundwater basin. The District's Board of Directors recently adopted the Committee's 2016 Annual Plan and looks forward to working with the City in the new year.

Groundwater overdraft - a decline in groundwater level that occurs ities pursued by the Committee must result in the maintenance and when groundwater use exceeds the amount of recharge into an aquifer. Recharge - the process by which groundwater aquifers are replenished; for example, pending basins.

Sustainability - a state of balance that is achieved in an aquifer when

# Water Conservation Awareness

#### Federal Drought Bills Keep Important Friant Issues at Center

As California weathers its fourth year of historic drought, local water interests' eyes are on federal drought legislation in Wash- ment Act of 1992, it set up certain water obligations for wildlife refuginaton, D.C.

sion, H.R. 2898, the Senate now is discussing some central issues before its version, S. 1894, reaches the Senate floor.

Since Kaweah Delta Water Conservation District (KDWCD) receives a portion of its surface water supply from the Friant Division of the Central Valley Project (CVP), the federal legislation could provide some needed relief for its water users and others in the Friant service area. How? By providing more reliable water supplies from the Delta.

Future Friant Division water supplies depend on the U.S. Bureau of Reclamation (USBR) meeting its obligations to deliver water tractors received zero water allocations from the CVP in water years to the San Joaquin River Exchange Contractors from the Delta.

The Exchange Contractors, located in the Central San Joaquin Valley, have water rights on the San Joaquin River but management, the final drought bill must provide appropriate direction "exchanged" them for a substitute supply. With this agreement, the and authority to improve managing water supplies by both the CVP USBR could use water stored behind Friant Dam to irrigate farmland on the east side of the San Joaquin Valley. If the USBR is unable to Actions also must be authorized to achieve both the restoration and deliver Exchange Contract water supplies through the Delta, those water management goals of the San Joaquin River Restoration Procontractors can return to the San Joaquin River.

"The drought has had an impact on the water supplies, cer- San Joaquin River. tainly," said Mark Larsen, the General Manager for KDWCD. "But just been operated optimally."

### SGMA cont' from pg. 1

a GSA to cover their collective boundaries in the southwestern corner of the Kaweah basin. Their effort has been officially recognized by the State as a GSA and the group is moving forward in organizing and working towards developing their GSP for their region.

The Kaweah basin through the County of Tulare received

some State Water Resources Control Board funds providing for a facilitator to work with the Kaweah basin to initiate discussions towards the formation of GSA's to cover the



entire Kaweah basin. From that effort three GSA's have been seriously considered by the local agencies. At the north eastern end of the basin several public agencies around the Ivanhoe area and a few private water interests are reviewing options to form. Additionally at the south eastern end of the Kaweah basin there has been a lot of agencies in the Lindsey area working on formation of a GSA.

Kaweah Delta Water Conservation District has partnered with the County of Tulare, Kings County Water District, Lakeside Irrigation Water District, and California Water Service Company to work towards forming a GSA for the balance of the Kaweah basin uncovered  $\Rightarrow$ by the Mid-Kaweah and the northern interests. These five agencies have opened their doors to any other agencies in the Kaweah basin to  $\;\;\Rightarrow\;\;$ join their efforts and so far three different agencies have requested to

When Congress passed the Central Valley Project Improvees. That combined with subsequent biological and court opinions, and With the House of Representatives already passing its ver- salinity standards have created a Delta norm that severely impacts the



USBR's ability to serve the Exchange Contractors from the Delta. Consequently, the Friant Division's water supply certainty is lost and for the first time in history, Friant Division con-

2014 and 2015.

To address some of these challenges in California water and State Water Project, making Delta water supplies more reliable. gram agreed upon at the end of a decades-old lawsuit concerning the

"We'll see what happens," said Larsen. "Time is short for as important is how the water systems have, or in this case, have not passing the legislation, but one that addresses these issues would be a definite plus."

> join the effort. Once plans are in place, the GSA has 20 years to fully implement its plan and achieve the sustainability goal. If for some reason the GSA is unable to fulfill the law, the State Water Resources Control Board may intervene.

#### **New Tools for Agencies:**

Local agencies will have new tools to manage groundwater sustainability because of SGMA.

Some of these tools may include:

- Requiring registration of groundwater wells and measurement of extractions
  - Requiring annual extraction reports
  - Imposing limits on extractions from individual groundwater wells
- Assessing fees to implement local groundwater management plans
- Requesting a revision of basin boundaries, including establishing new sub-basins.

# Timeline for Sustainability:

- June 30, 2017 Local groundwater sustainability agencies (GSA's) must be formed.
- January 31, 2020 Groundwater sustainability plans (GSP's) must be adopted for critically overdrafted basins.
- By 2040 All high- and medium-priority groundwater basins must achieve sustainability.



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VISIT OUR WEBSITE AT WWW.KDWCD.COM FOR MORE INFORMATION!

Kaweah Delta Water Conservation District hopes that you have found the information in this issue of the KDWCD Water Report helpful. It is our goal to provide water resource information that is relevant and useful to those who live, work and farm in the District. As our District strives to protect and enhance the groundwater resources of the Kaweah River Basin, we also would like the landowners, water users and the general public to be informed and knowledgeable about our water resources, so that together we can make the best use of our water now and into the future.

# Water/Weather Related Web Links

California Irrigation Management Information System (CIMIS) - www.cimis.water.ca.govFriant Water Authority (FWA) - www.friantwater.orgNational Oceanic Atmospheric Administration (NOAA) - www.noaa.govUnited States Bureau of Reclamation (USBR) - www.usbr.govUnited States Army Corps of Engineers (USACE) - www.usace.army.milAssociation of California Water Agencies (ACWA) - www.acwa.comCalifornia Department of Water Resources (DWR) - www.water.ca.govWater Education Foundation (WEF) - www.watereducation.orgRegional Water Quality Control Board (RWQCB) - www.waterboards.ca.govWater Education Foundation—Aquapedia—www.aquapedia.com

## Agricultural Water Management Resources

**CA Agricultural Technology Institute** - A non-profit, educational institution dedicated to improving California agriculture **Irrigation and Training Research Center** - An irrigation teaching program through outside activities specializing in training, research, and technical support

National Weather Service - Provides forecasts and warnings for the central U.S.

CA Water Institute - Offers seminars and classes dealing with Regional Water Issues, Irrigation Technology, and Research

**UC Ag Extension** - Includes farm, nutrition, family and consumer science advisors based in more than 50 county offices, reaching millions of farmers, businesses and residents every year

**Center for Irrigation Technology (CIT)** - As an independent research and testing facility, CIT assists designers, manufacturers and users of irrigation equipment to make the technological advances required for our growing and ever changing world. Provides pump efficiency testing **USDA Farm Service Agency** - Provides contact information as well as a listing of the programs and offices that make up the Farm Service Agency

**USDA/ARS Water Management Research Laboratory -** The development of water and weed management technologies and practices for irrigated agriculture in water deficit areas that use water efficiently, improve agricultural productivity, sustainability and reduce negative environmental impacts

Farm Advisors Office, Agricultural Commissioners' Offices, Tulare and Kings Counties