



**West Kern Water District Groundwater Sustainability Agency (WKGSA)
 Management Area Groundwater Sustainability Plan Summary
 Kern Groundwater Authority Board Meeting
 December 18, 2019**

Water Budget

The Subbasin’s dynamic conjunctive use programs, water banking operations, and water transfers/exchanges made it necessary to coordinate a GSA level water accounting methodology (Checkbook) using Subbasin specific values for supply, demand and net results. WKGSA’s Water Budget over the 1995-2015 hydrologic period is provided below.

WEST KERN GSP		
Total Water Demand	Total Water Supply	Net Water Budget
36,077	33,656	(2,421)
Includes in-district and approximately 8,000AF annually pumped at BVARA		
KGA		
1,929,838	1,673,557	(256,281)

Note: values in acre-ft

Management/Projects/Action Plans

WKGSA has identified Projects, Management Actions and Adaptive Management Strategies with immediate and long-term benefits towards maintaining sustainability, many are already underway.

- Projects with immediate benefits include installing automatic meter reading (AMR) devices, to those with longer-term benefits such as participation in the Delta Conveyance Facility.
- Management Action include continuing to balance pumping with recharge; continued basin-wide coordination; continue to explore conservation opportunities and implementation of certain demand reduction measures, as necessary (Plan B). Finally, WKWD will e WKGSA at, engaged the County of Kern to discuss potential water supply and/or other mitigation measures to address pumping at the Buena Vista Aquatic Recreation Area (BVARA).
- Adaptive Management Strategies include potential development of a Taft Recycled Water Program, balancing recharge and recovery between WKWD's two well fields and implementing permanent demand reduction measures.

Management, minimum thresholds (MT), measurable objectives (MO)

WKGSA defined four management areas to allow areas with similar conditions to be grouped together so that MO, MT, values could be calculated.

MT and MO were calculated by determining the maximum and minimum historical water levels over the 1995-2015 hydrology period and maximum and minimum elevations in our wells during the most recent drought period (2013-2016). The MT and MO are protective against undesirable results in the WKGSA area and because they are based on conditions that have previously been experienced, provide additional validity to the accuracy of numbers in WKGSA's water budget.

WKGSA coordinated with surrounding GSA/GSPs to compare and discuss any issues concerning adjacent MT and MO. No fatal flaws were identified.

Stakeholder outreach

WKGSA stakeholder outreach to date has included; holding public workshops with-in WKGSA; County-wide outreach efforts in coordination with KGA; and providing monthly updates to the WKWD board during regular board meetings. These efforts will continue in the future.

Public Comment

WKGSA received focused comments from oil and gas related to the basin setting and from the environmental justice organizations requesting that WKGSA provide clarification and additional analysis relative to Interconnected Surface Waters and Groundwater Dependent Ecosystems within the WKGSA boundary. WKGSA incorporated those comments, as necessary, into the final MAP.