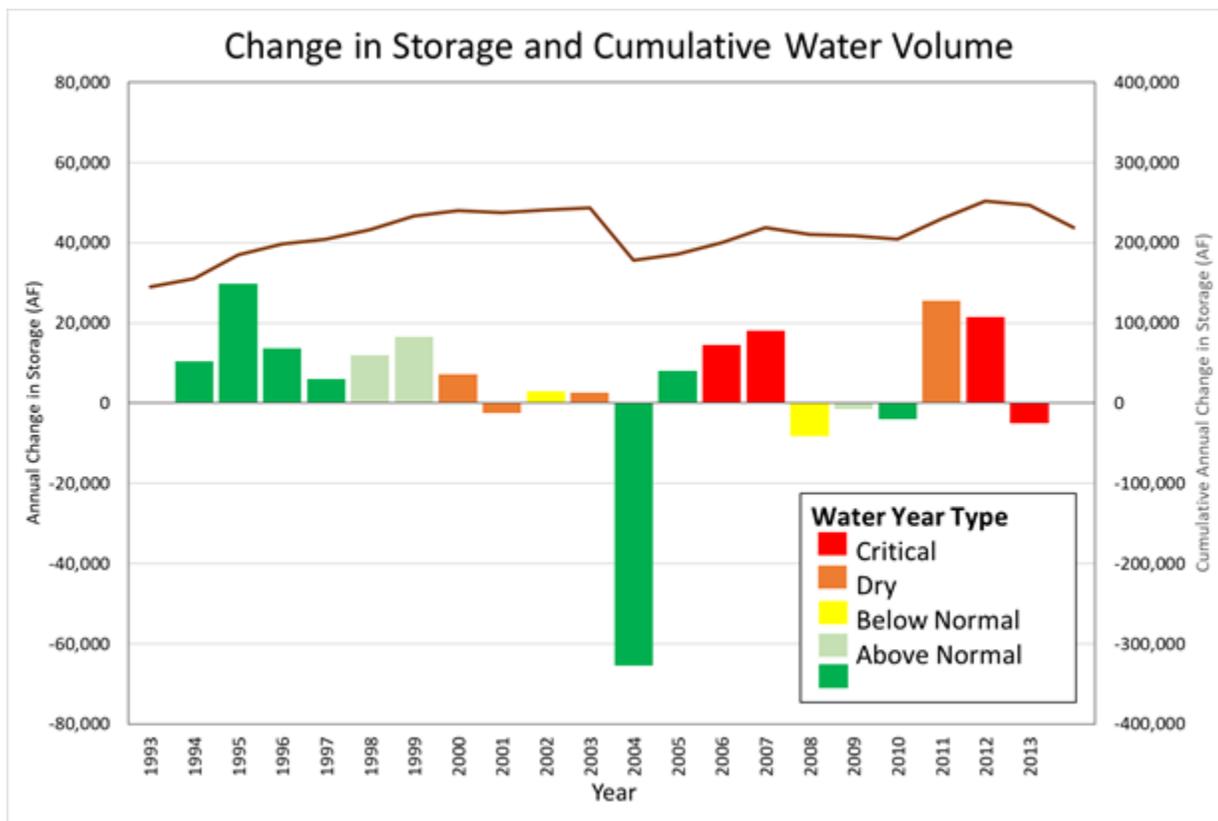




**West Kern Water District Groundwater Sustainability Agency (WKGSA)
 Management Area Groundwater Sustainability Plan Summary
 Kern Groundwater Authority Board Meeting
 August 28, 2019**

Sustainability Goal

WKWD has been banking water in the Kern-subbasin since the early 1960s. The WKGSA operates sustainably by balancing recovery with recharge. In most years, WKWD’s supply exceeds demands, on average, by 4,000 AF or more. This surplus is banked in WKWD’s North and South Management Areas. WKWD also has arrangements with BVWSD and KWB to recharge water in WKWD’s Project vicinity. Currently, WKWD has nearly 260,000 AF banked in the basin, or enough to meet its current demands for over 10 years (see figure below). WKGSA will continue to operate sustainably in the future, however, there is potential for localized overdraft in the WKGSA at the Buena Vista Aquatic Lakes. WKWD has engaged the County to discuss potential mitigation measures for that management area.



Note: WKWD transferred 100,000 AF to Rosedale Rio Bravo WSD in 2004

Management/Projects/Action Plans

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

- Projects include those with immediate benefits such as installing automatic meter reading (AMR) devices to those with longer-term benefits such as participation in the Delta Conveyance Facility.
- Management Action included continuing to balance pumping with recharge, continued basin-wide coordination and implement certain demand reduction measures, as necessary (Plan B). WKWD will continue to seek conservation opportunities in the future.
- 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), water budget

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

MT were calculated by finding the maximum and minimum historical values for each well; 20 percent of the difference between these elevations was calculated, and then subtracted from the minimum historical value to obtain the numerical MT value. The MT are protective against undesirable results in the WKGSA area because they are based on conditions that have previously been experienced.

MO were calculated by looking at maximum and minimum elevations in our wells during the most recent drought period, in our case 2013 to 2016. That change represents usage/storage during that time period. By looking at the time period between the maximum and minimum elevation, a 3 year drought usage/storage ratio can be calculated. That value is then added to the Minimum Threshold value to establish a Measureable Objective at each monitoring location.

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

WKGSA uses a simple check book water budget approach of ins and outs to track supplies and demands, all WKGSA deliveries are metered and have been since the 1960s making reconciliation fairly straight forward.

WKGSA uses groundwater levels as a proxy for SGMA related monitoring of water quality, stream depletions, and groundwater storage, and coordinates with other GSAs in the subbasin to monitor for subsidence.

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.

About WKWD

WKWD was formed in 1959 and includes the incorporated cities of Taft and Maricopa, together with the Westside communities of Taft Heights, South Taft, Ford City, Tupman, Dustin Acres, Valley Acres, Derby Acres, Fellows and McKittrick. The district's service area covers approximately 300 sq/miles.