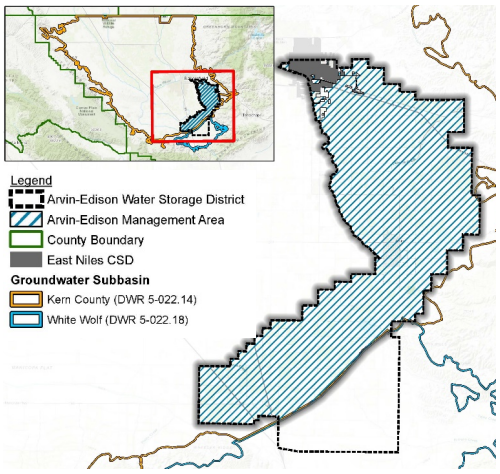
ARVIN-EDISON MA PLAN OVERVIEW

- Prepared by Arvin-Edison Water Storage District (AEWSD) and Arvin Community Services District (ACSD)
- Covers "Arvin-Edison Management Area" and some White Lands; coordinated with WRMWSD regarding overlap
- Developed to meet SGMA regulatory requirements while reflecting local needs and preserving local control over water resources
- Process included active coordination and stakeholder engagement



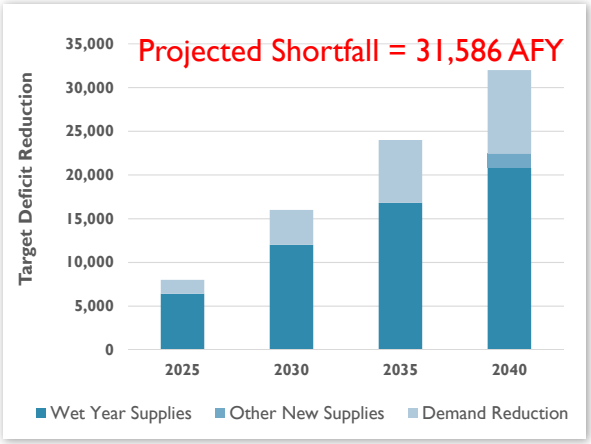
Arvin-Edison Management Area

BASIN AND LOCAL WATER BUDGETS HAVE BEEN COORDINATED AND WILL BE REFINED AFTER 2020

- Basin-wide Checkbook is a coordinated water budget approach for the entire Kern Subbasin that documents GSA-specific contributions to groundwater recharge
  - Total Supply: 227,362 AFY
  - Total Demand: 235,780 AFY
  - Balance/Deficit: -8,418 AFY
- AEWSD used conservative ("worst case") estimate of -31,586 AFY as basis for P/MAs and meeting MOs/MTs
- All water budgets have uncertainty and will be refined as part of GSP implementation

PROJECTS AND MANAGEMENT ACTIONS (P/MAS) DESIGNED FOR "WORST-CASE"

- P/MAs are designed to close future water budget gap (based on "worst case" 2030 climate change scenario):
  - Supply Augmentation
  - Demand Reduction
  - ACSD Water Quality Projects
- Plan B: P/MAs will be accelerated if water level MTs are reached in 20% of Representative Monitoring Sites (RMS).
- Undesirable Result is defined as MTs are exceeded in 40% or more of the RMS.



2040 "Glide Path" for P/MA Implementation

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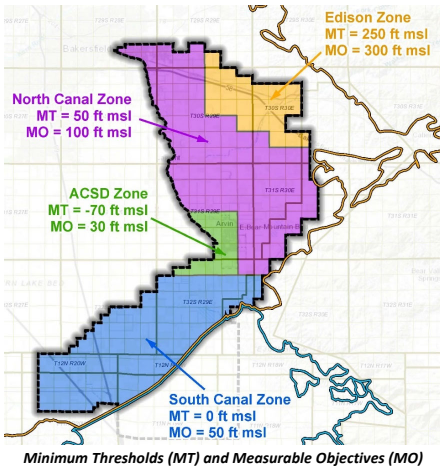
SUSTAINABLE MANAGEMENT CRITERIA



Minimum Thresholds (MT) and Measurable Objectives (MO) for Chronic Lowering of Groundwater Levels

- The MOs/MTs are defined to allow for a gradual balancing of the budget through supply augmentation and demand reduction
- All SMCs have been closely coordinated with Basin GSAs and stakeholders
- Well Mitigation Policy will be applied during implementation period

Sustainability Indicator	Site Type	Site Count	SMC Consideration
Chronic Lowering of Groundwater Levels	Well	16	Historical lows, recent 10-year groundwater level trends, temporal variability, and well construction
Reduction of Groundwater Storage	Well	16	Groundwater levels will be used as a proxy
Degraded Water Quality	Well	8	California MCL (MT for Arsenic is set at MCL of 10 ug/L)
Land Subsidence	Stationary GPS	5	Rate of subsidence observed from 2014-2018

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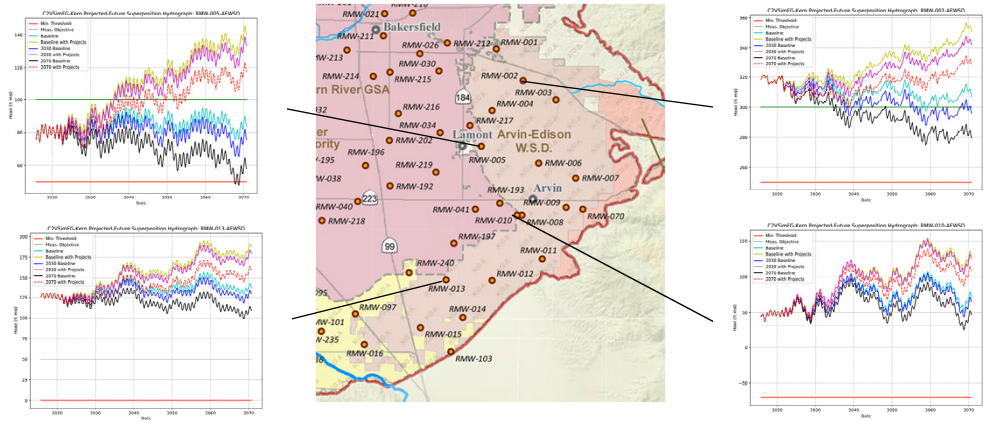
PROJECTED WATER LEVELS INDICATE NO SMC EXCEEDANCES

- Preliminary future model results including P/MAs suggest that Management Area will not have Undesirable Results at current monitoring well locations



Source: TODD, email via KGA, 12/1/2019

AEWSD/ACSD CONDUCTED EXTENSIVE STAKEHOLDER OUTREACH

- Broad distribution of letters, surveys, email updates, and flyers
- Direct outreach to PWS, Indian tribes, DACs, White Land owners, Well owners
- Coordination with local community groups (e.g., SHE), GSAs, and KGA members
- Spanish translation offered at workshops

Public / Stakeholder Meeting Type	Number of Meetings
KGA GSA Board Meetings	29
KGA GSA SGMA Stakeholder Workshops, Meetings, and Open Houses	29
AEWSD Board Meetings	39
Stakeholder Workshops	6
AEWSD Misc. SGMA Meeting	104
KGA Miscellaneous Meeting	69
ACSD Board and other meetings	17
Total Meetings to Date	**293**

AEWSD RECEIVED MINIMAL COMMENTS DURING 90-DAY COMMENT PERIOD

Comments Received

1. Leadership Counsel for Justice & Accountability (LCJA) on 8 October 2019
2. Multiple Landowners on 27 November and 6 December 2019

* Comments received by KGA were reviewed for local applicability.

Additional Revisions:

- Added additional discussion of water budget methodologies, including Checkbook, and incorporated the updated model results.

AEWSD / ACWSD Response to Comments

- Direct letter or email response (LCJA and landowners that write directly to AEWSD)
- In-line Comment Log in MA Plan
- Detailed comments response in MA Plan Appendix
- Limited in-line changes to MA Plan ; record included in Appendix
- Attached letter(s) of support from other DAC, landowners, and community groups

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