

# Board of Directors Meeting

February 10, 2025







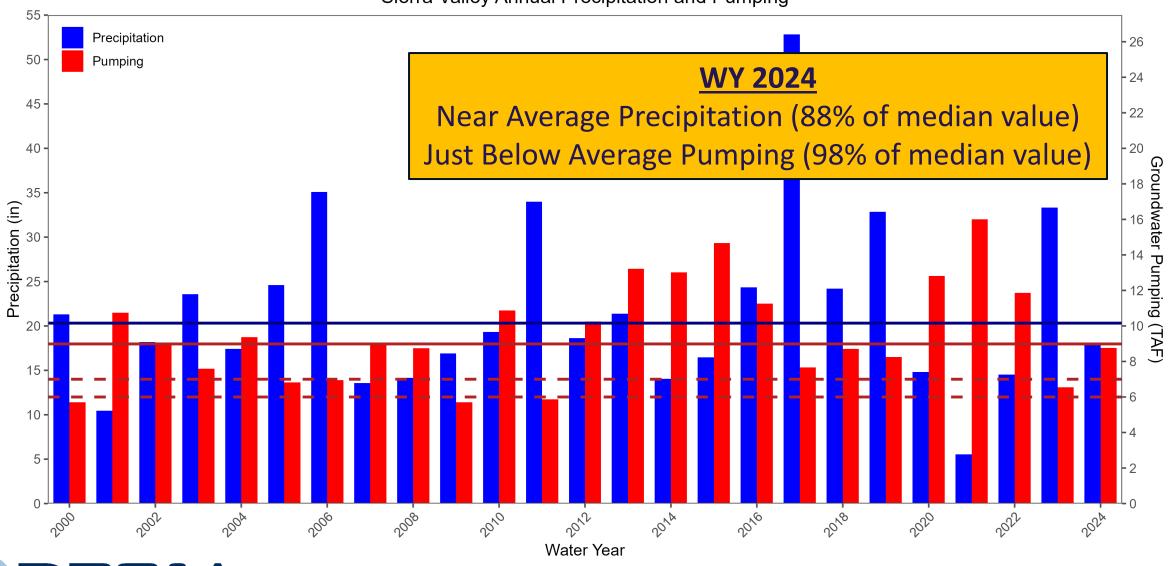
#### **GSP Annual Reports (23 CCR §356.2)**

- Due to DWR April 1 every year
- Summarizes hydrologic conditions and storage changes over the preceding water year
- Describes progress towards plan implementation

Annual Report WY 2024: Oct 1, 2023 - Sep 30, 2024







#### WY 2024 GSP Annual Report Conditions Summary

Median change in upper aquifer water levels (measured): -0.56 ft

Median change in upper aquifer water levels (measured): + 0.65 ft

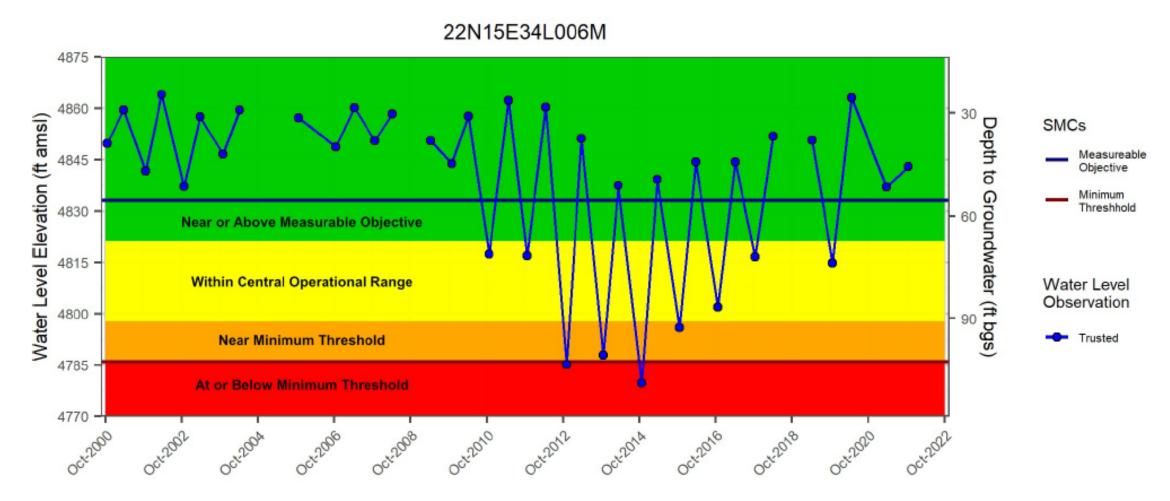
Total groundwater extractions (measured + estimated): **8,766 AF** 

Change in Storage (estimated from SVHSM):



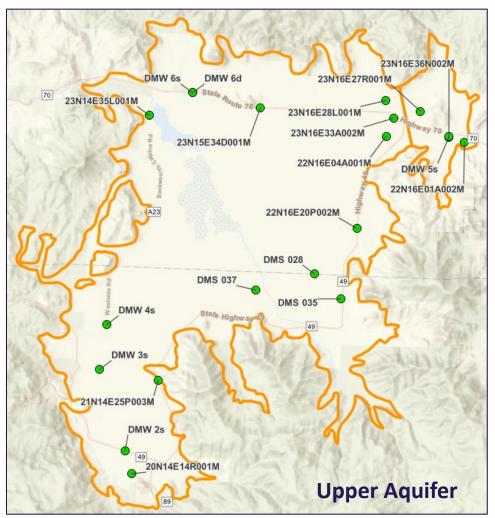


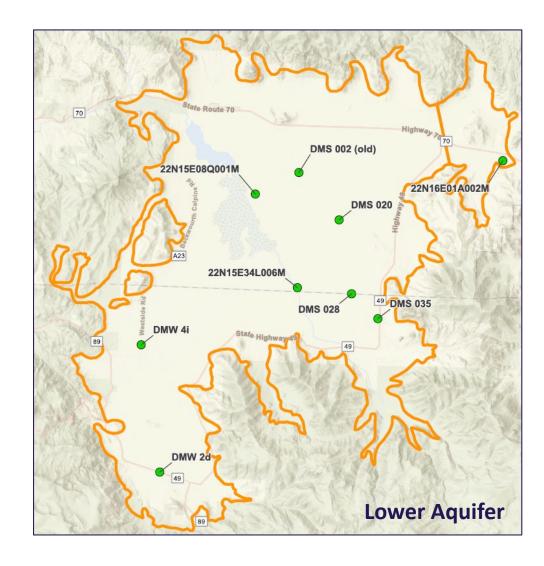
### Sustainable Management Criteria (SMC) Status Example





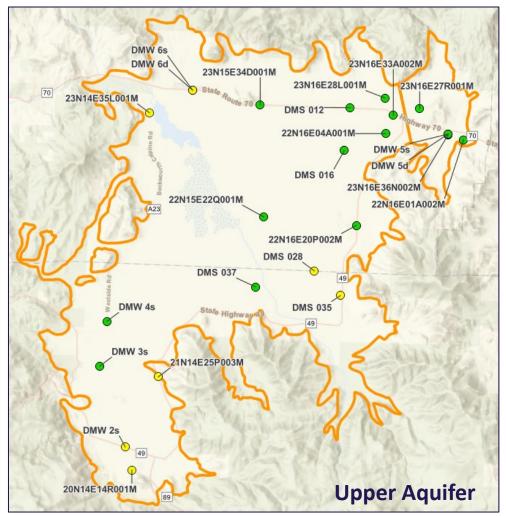
# **Spring 2024 SMC Status**

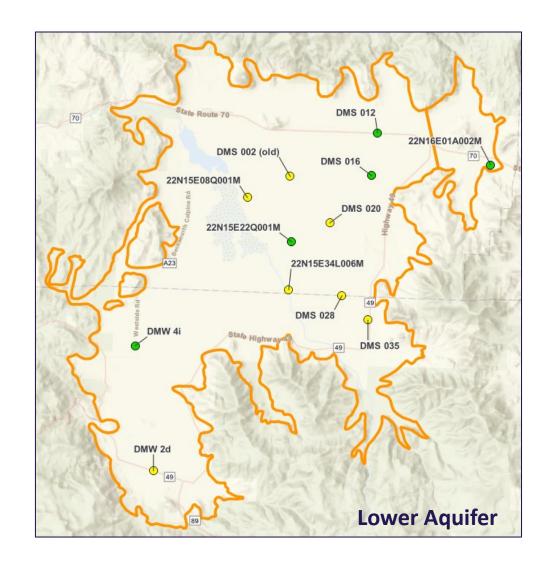






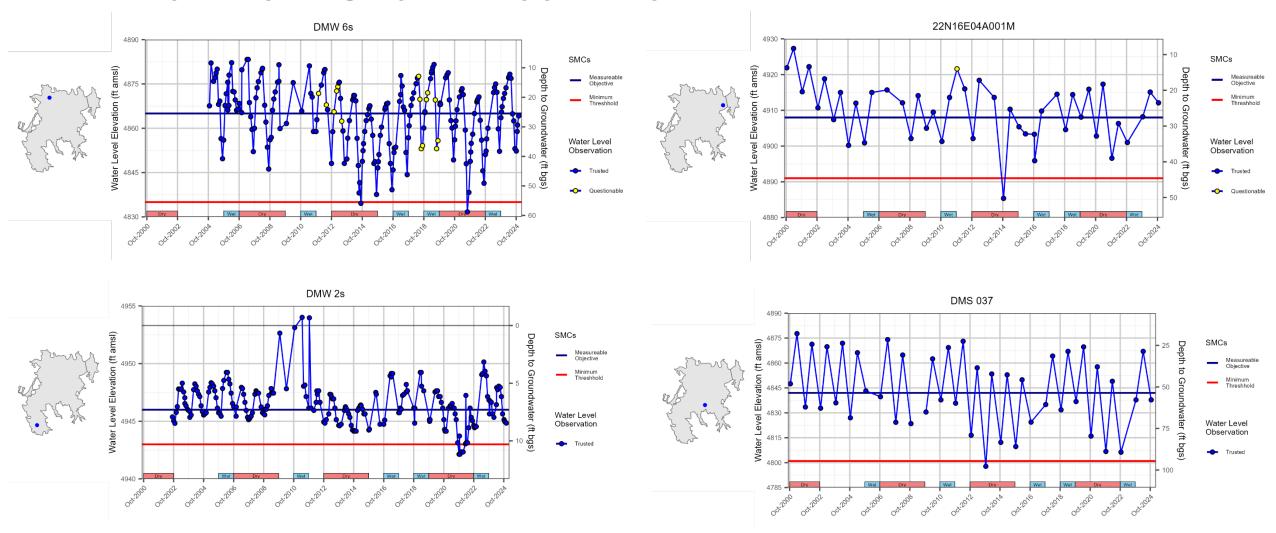
#### Fall 2024 SMC Status





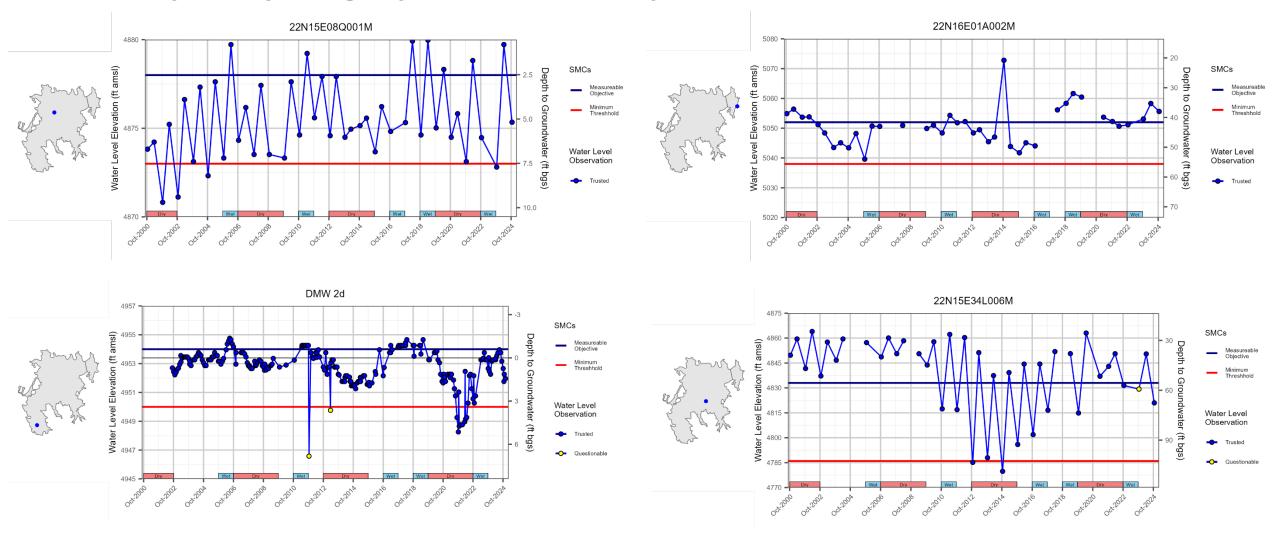


# **Example Hydrographs - Upper Aquifer**





# **Example Hydrographs - Lower Aquifer**





#### Table 1. Groundwater extractions.

Sector	Method	GW Extraction Volume (AF)	Accuracy	Range (AF)
Agriculture	Totalizer	7,813	± 5 %	7,422 - 8,204
Municipal and Industrial	Domestic	379	± 20 %	303 - 455
Municipal and Industrial	Totalizer	574	± 5 %	546 - 603
Total	-	8,766	-	8,271 - 9,262

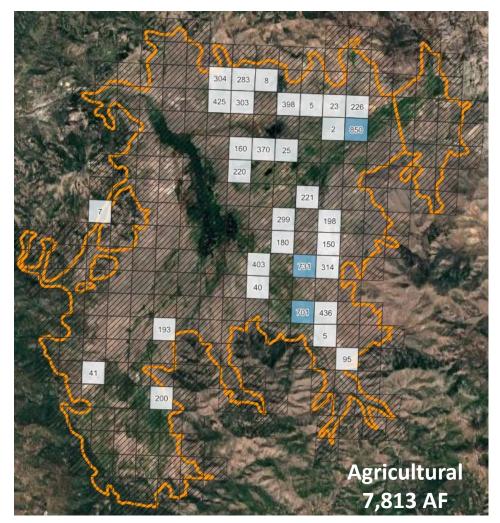
WY 2024 Pumping Volume: 8,766 AF

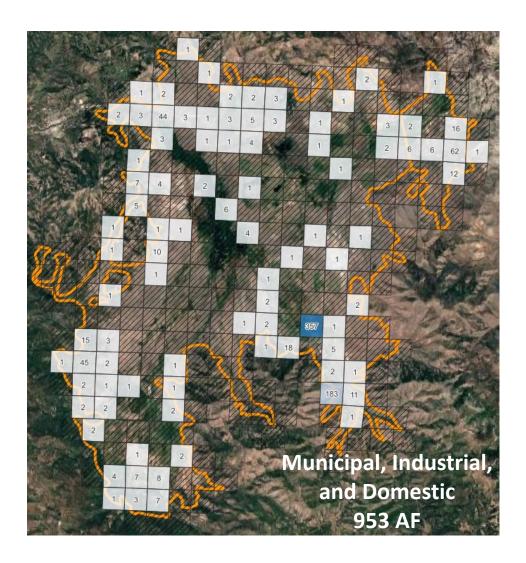
WY 2023 Pumping Volume: 6,557 AF

Historical Range: 5,700 - 16,000 AF



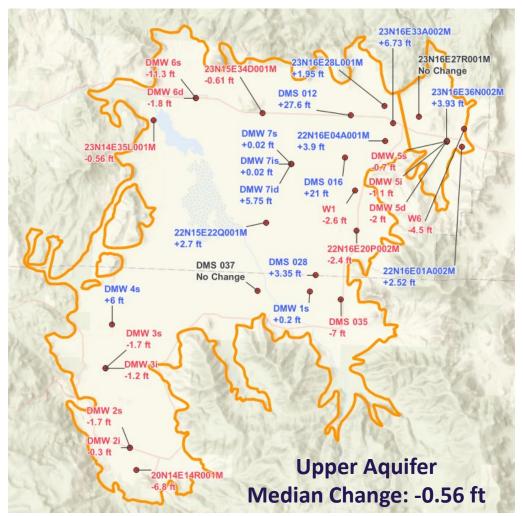
#### **WY 2024 Groundwater Extractions**

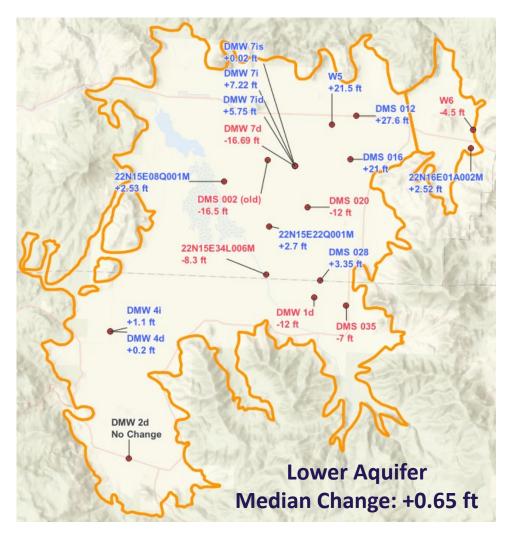






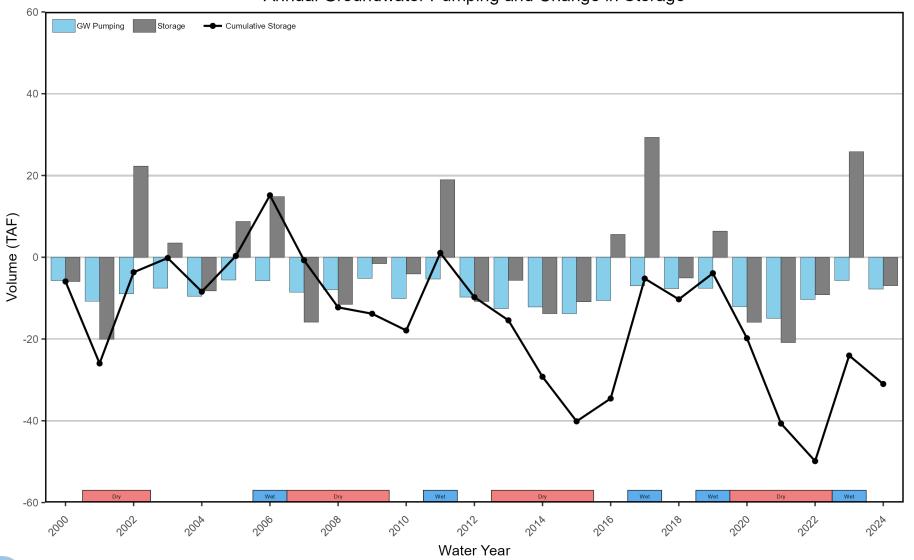
#### Fall 2023 to Fall 2024 Change in Water Levels







#### Annual Groundwater Pumping and Change in Storage



WY 2024 Estimated Change in Storage: -7,054 AF

Storage Relative to Oct 1, 2000: -30,998 AF



#### **PMA Project Status**

- Well Inventory
  - State well completion database reviewed to build on GSP well inventory
  - Currently further evaluating location, well status and geologic conditions
- Irrigation Efficiency
  - Assessments completed at 7 farms/ranches; 4 more scheduled for Feb 2025
  - 2 additional ranches identified for LESA/LEPA conversion demonstration projects
- Groundwater Recharge
  - Initial recharge pilot conducted on Smithneck Creek in Spring 2024
  - Winter 2025 pilot projects Staverville Creek and Little Last Chance Creek



## PMA Project Status (con't)

- Monitoring Network and Data Gaps
  - Stream gages and well data loggers added near Smithneck, Little Last
    Chance and Staverville Creeks
  - Test pits used to evaluate soil permeability
  - Subsidence measurements continued
- GSP Updates
  - Recent data and National Hydrologic Model values used to update and calibrate upper watershed rainfall-runoff (PRMS) model.
  - Additional model improvements and calibration planned for summer 2025







