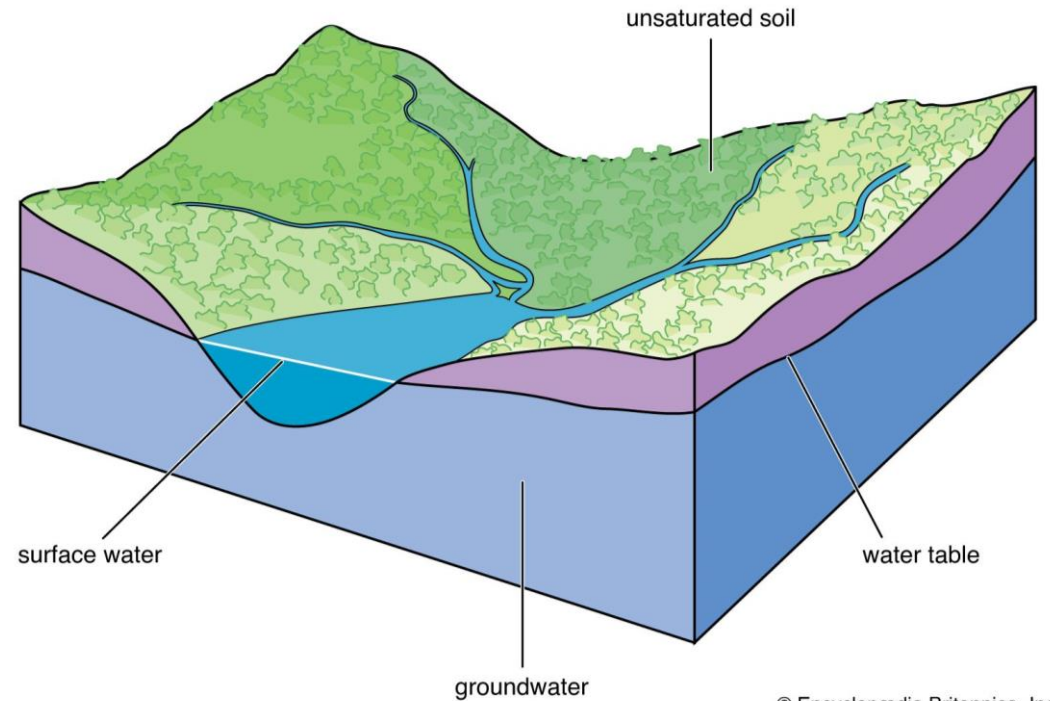
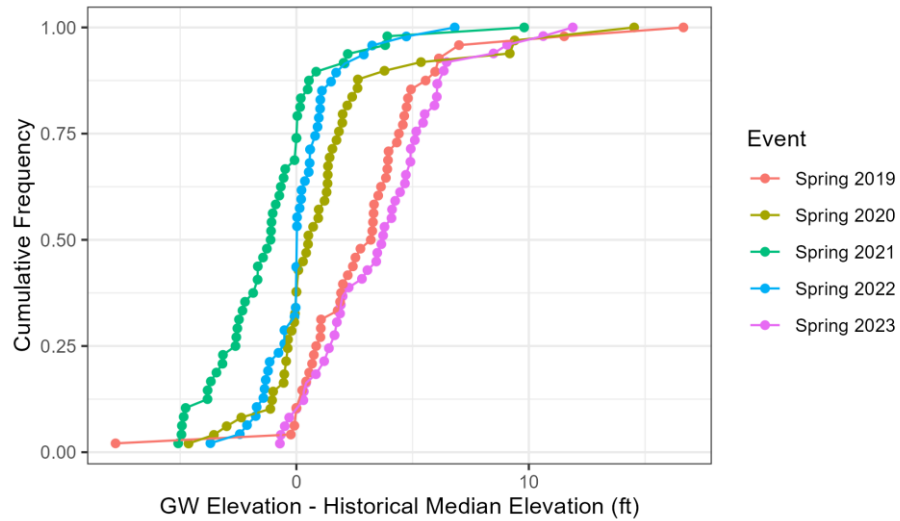


State of the Tahoe Valley South Groundwater Basin (WY 2023)



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Mark Seelos
Water Resources Manager
2/1/2024

Outline



1. SGMA Refresher
2. Groundwater Supply and Demand
3. Basin Management Objectives
4. WY 2023 Accomplishments
5. Goals for WY 2024



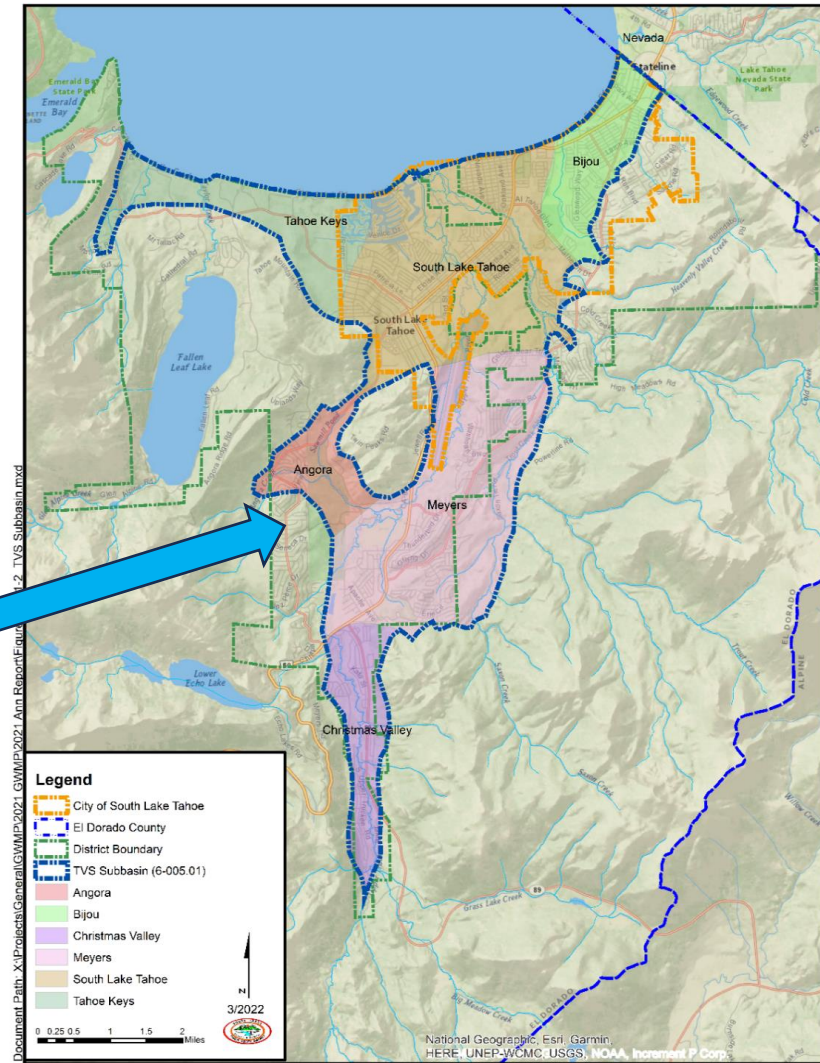
Sustainable Groundwater Management Act (SGMA)



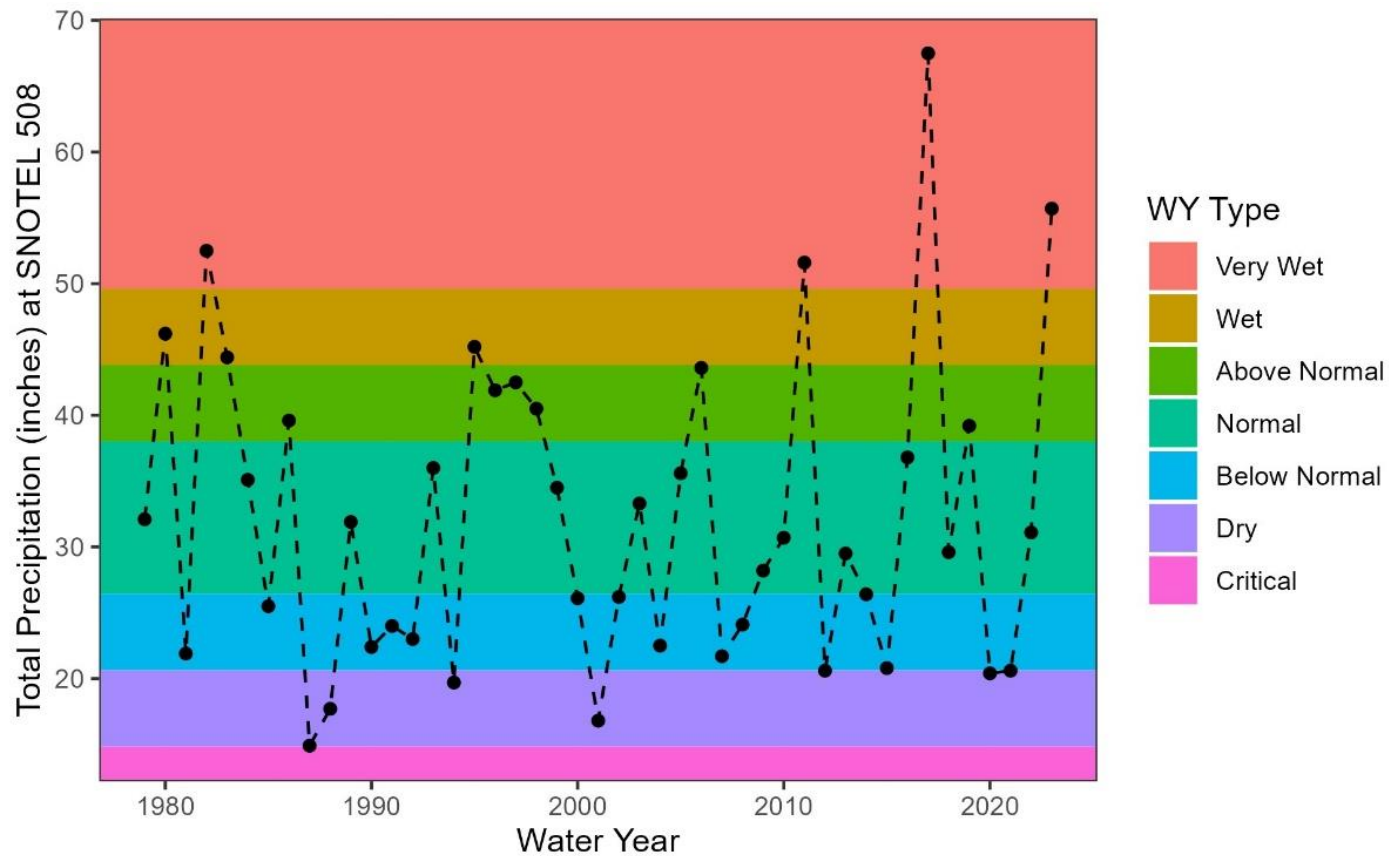
- Goal: achieve groundwater sustainability through local control.
- Basin Management Objectives to avoid “undesirable results.”
- Implementation plan to achieve BMOs



Tahoe Valley South Subbasin

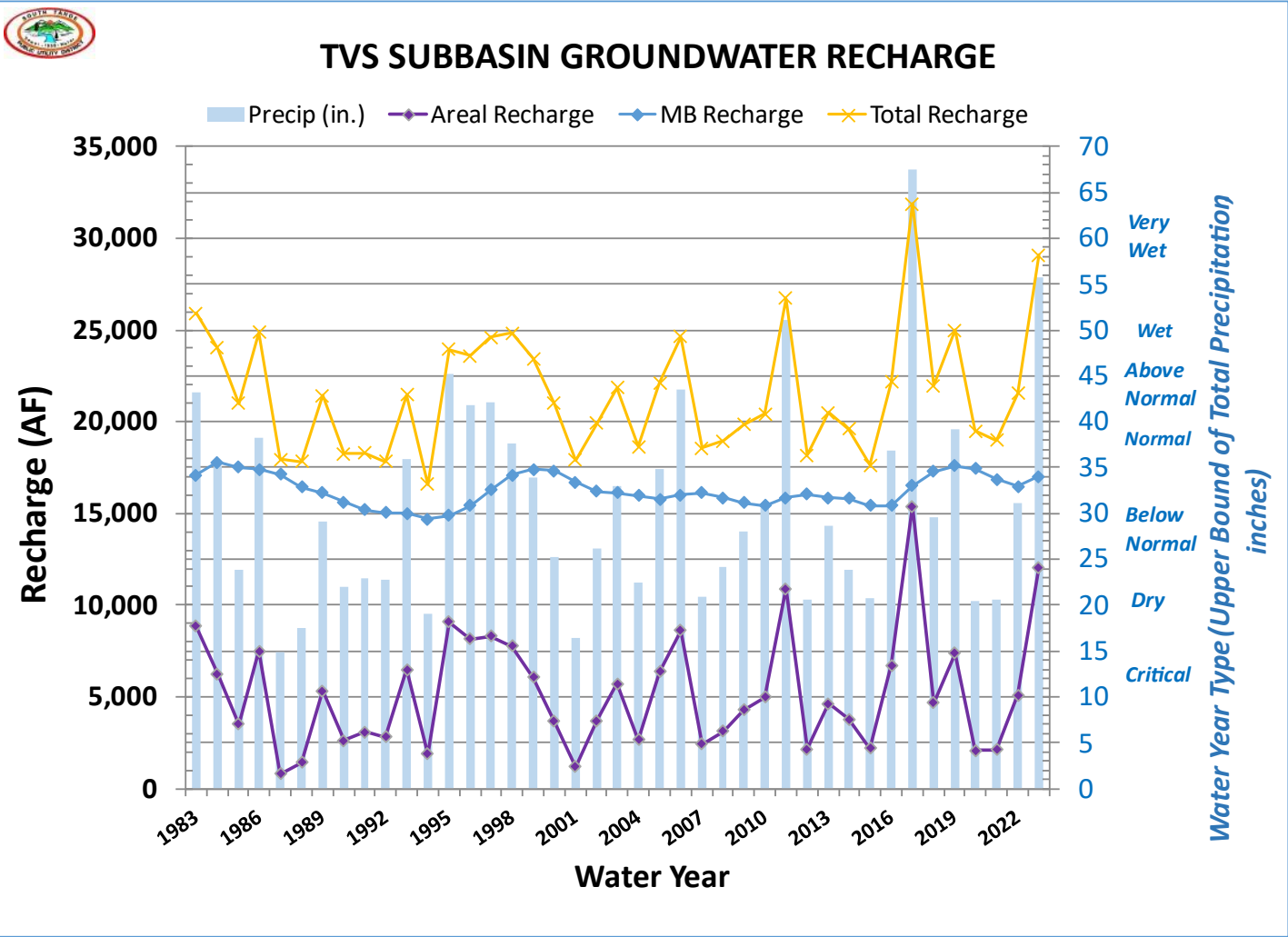


Precipitation: WY 2023



- Hagens Meadow SNOTEL used for WY Classification
- 55.7” in WY 2023

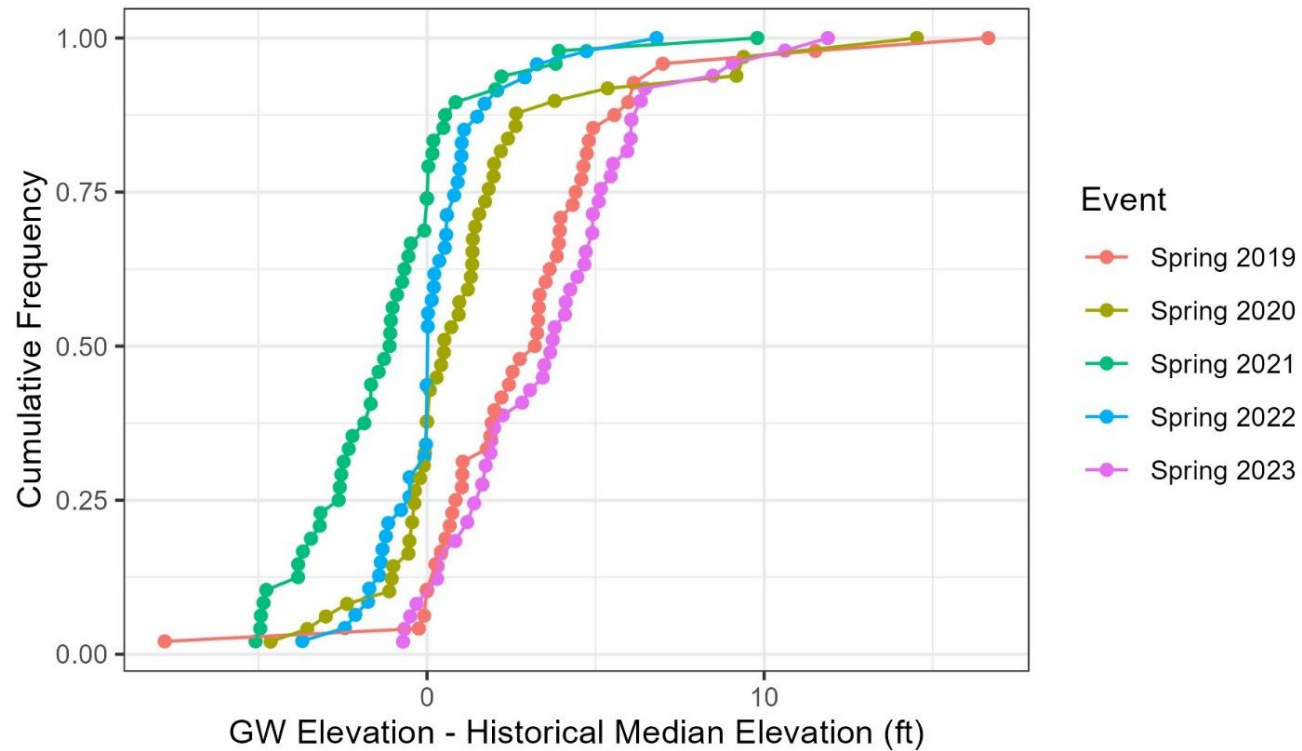
Groundwater Recharge



Model Estimate:

- 29,069 acre-feet (AF) of Groundwater Recharge in WY 2023
- Average production ~7,500 AF (all water systems)

Groundwater Elevations



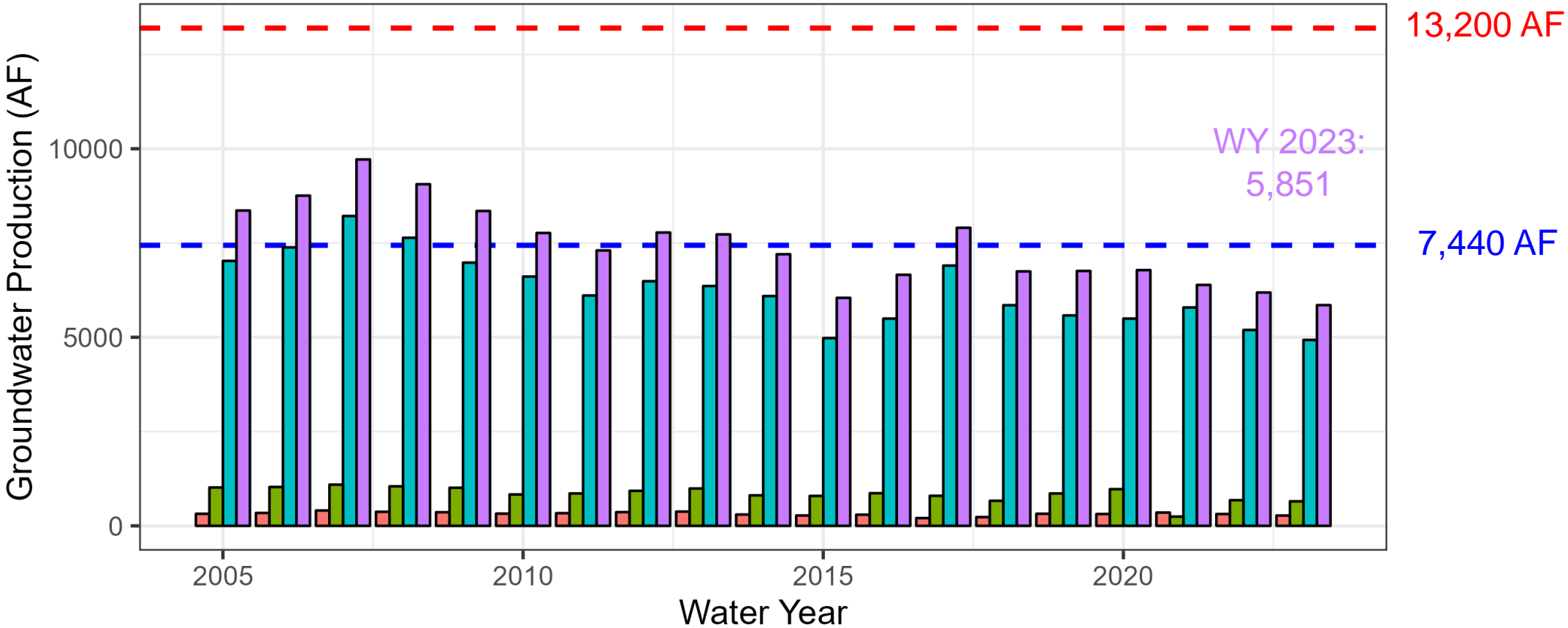
- 2x annual groundwater level monitoring (October and May)
- 90% of monitoring wells were above their historical median groundwater elevation.
- Average increase of 1.6 feet in the last 5 years.
- 98% of wells are remaining constant or increasing.

Groundwater Extraction

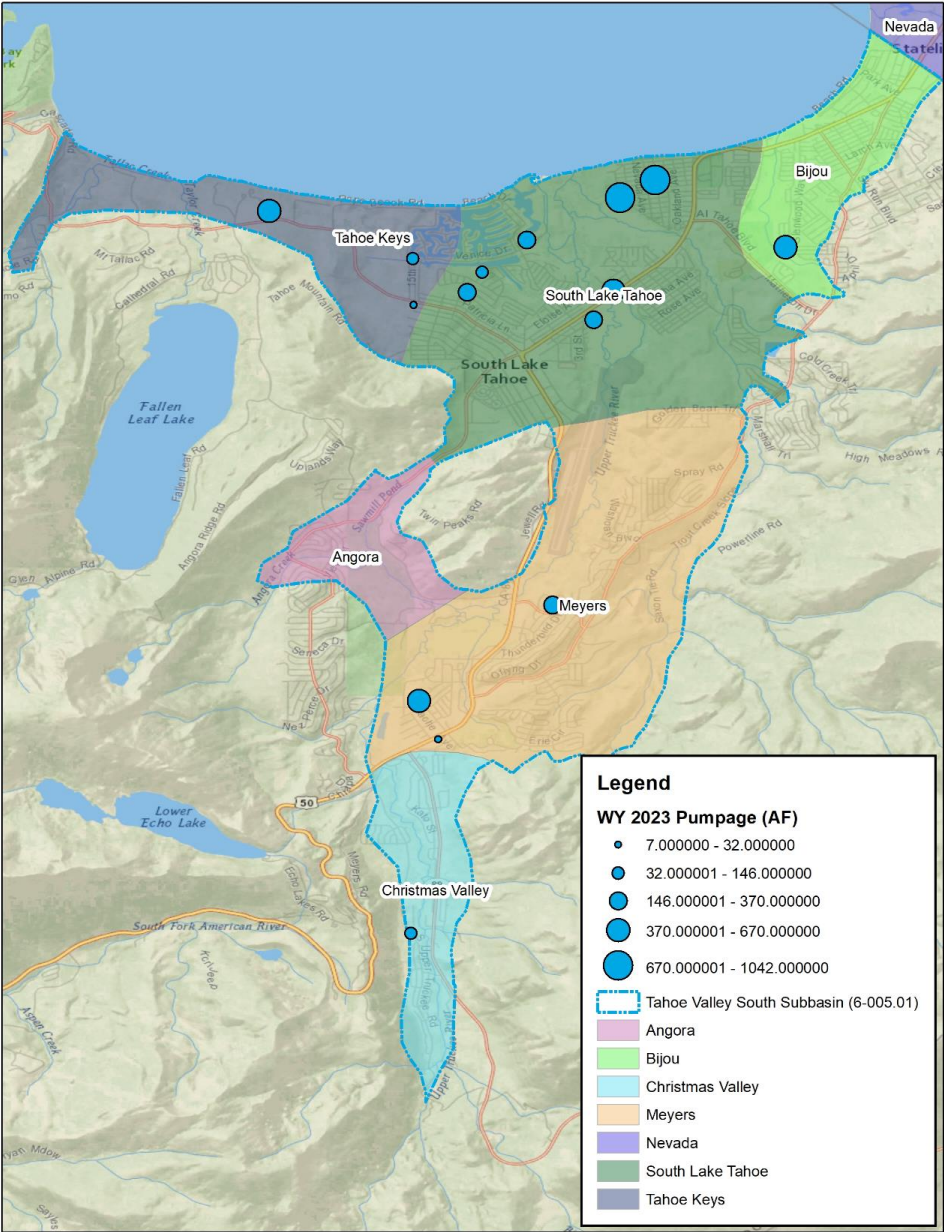


--- CWS Average --- Sustainable Yield

Purveyor LBWC TKWC STPUD CWS Wells



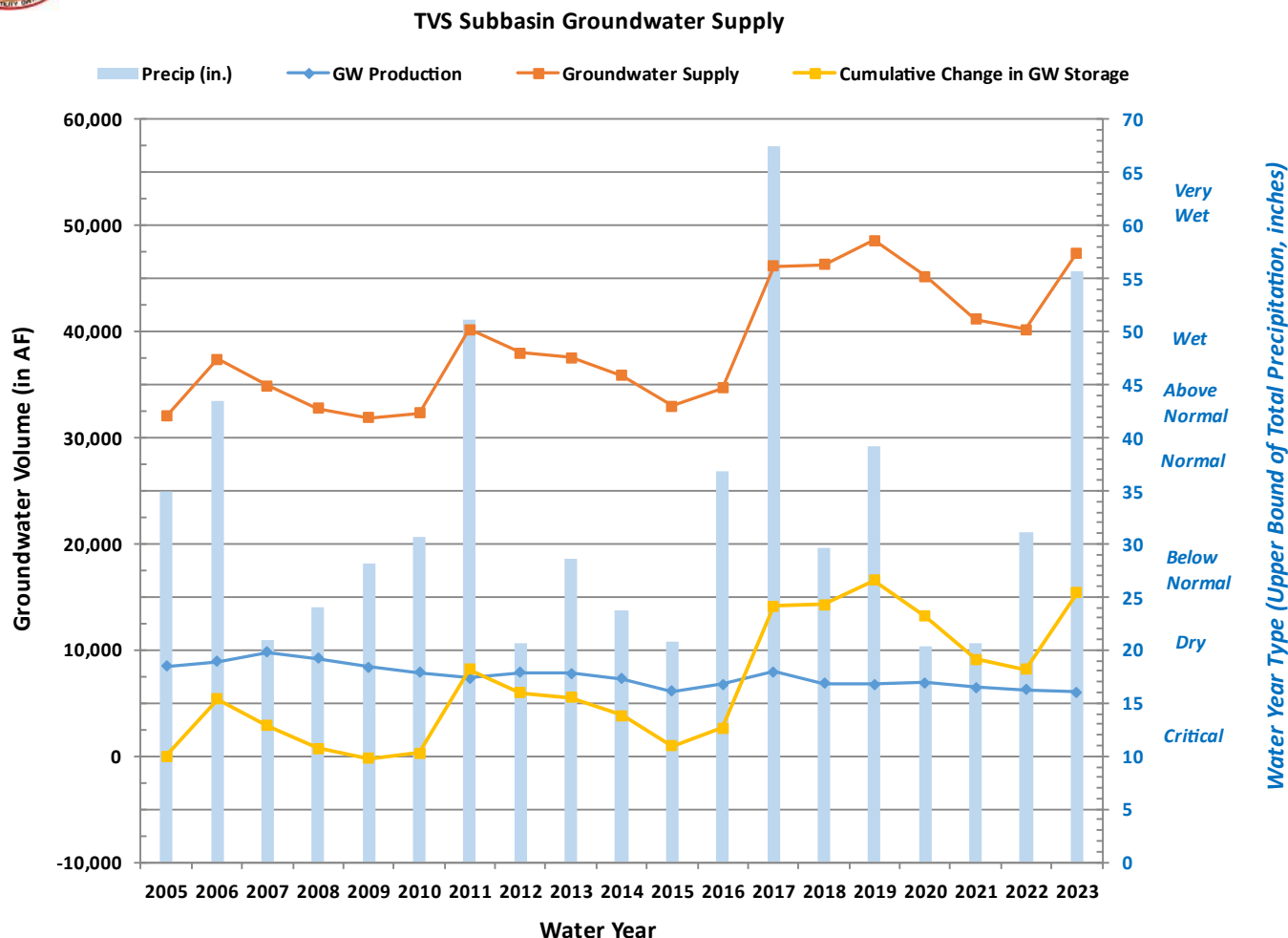
Extraction vs. Consumption



Use Type	Volume, AF
Single Family	2,225
Multi-Family	728
Commercial	1,460
Mutual Aid	0.01
Losses	516
Total	4,928

District Losses: ~10%

Groundwater Supply for WY 2024



Groundwater Supply is water in storage minus storage threshold.

Model Estimate:

- 47,407 AF of available storage.
- Average production ~7,500 AFY

Basin Management Objectives



BMO	Description	Status
1	Maintain a sustainable long-term groundwater supply.	Met Thresholds
2	Maintain and protect groundwater quality.	Met Thresholds
3	Strengthen collaborative relationships [...]	In Progress
4	Integrate groundwater quality protection into local land use planning activities.	In Progress
5	Assess the interaction of water supply activities with environmental conditions.	Met Thresholds
6	Convene an ongoing Stakeholder's Advisory Group (SAG) [...]	Achieved
7	Conduct technical studies [...]	In Progress
8	Identify and obtain funding [...]	In Progress

WY 2023 Accomplishments

1. Met DWR reporting requirements (WY 2022 Annual Report)
2. Hired new plan manager
3. Stakeholder Advisory Group Meeting (June 2023)
4. Executed contracts for multiple groundwater management projects.

Management Goals: WY 2024



Interagency Coordination and Public Outreach

- Monitor New Regulations
- Develop N-7-22 Policy
- Implement Public Database

Technical Work

- Finalize GDE Monitoring Plan
- Preliminary work for Model Update
- Planning of Additional Monitoring Wells

Monitoring and Reporting

- Submit WY 23 Annual Report to DWR
- Complete 2x-annual well monitoring
- BMO Data Collection and Evaluation
- Pilot GDE Monitoring Plan

Funding

- Propose cost share projects to EDCWA.
- Identify additional funding sources.

Questions?

