



Water Shortage Action Levels

District Operations Committee

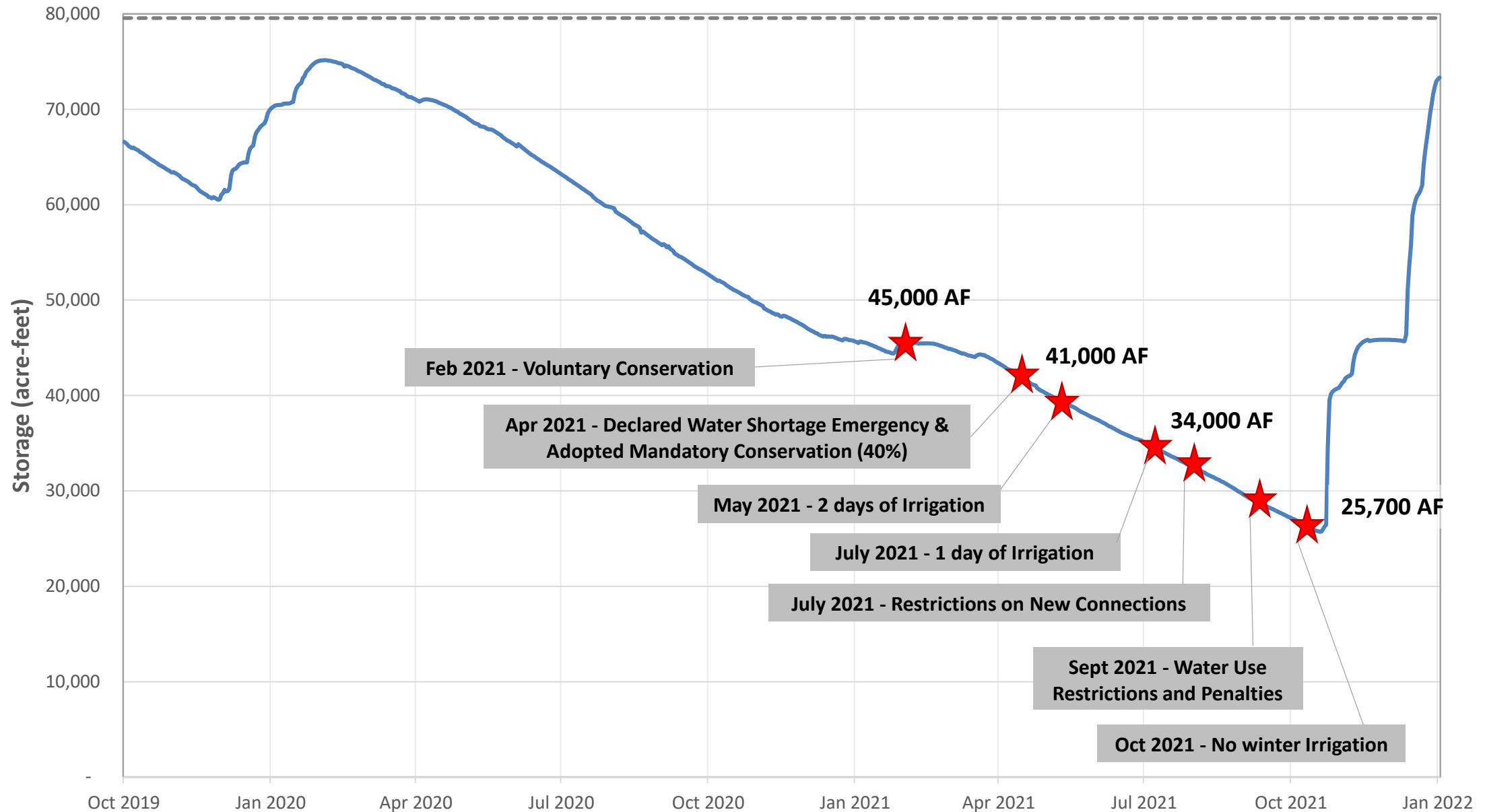
July 15, 2022



Water Shortage Action Levels: Overview

- Review of drought-related actions in 2021
- Historical Water Shortage Action Levels (District Code)
- Initial Review of Revised Water Shortage Action Levels
- Next Steps

Timeline of 2021 Drought Actions



Water Shortage Action Levels: Background

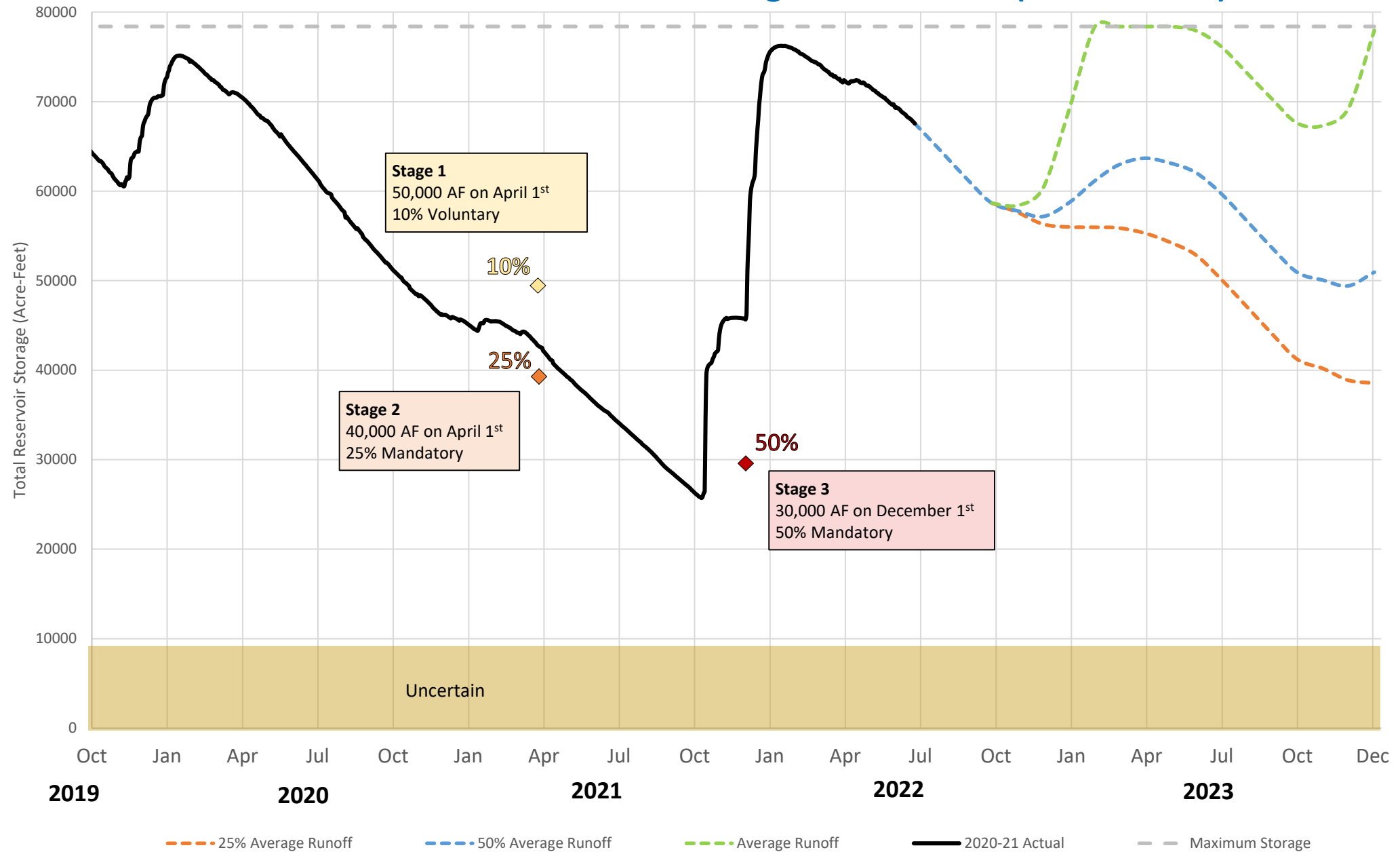
- Specific reservoir levels/thresholds that if reached, prompt actions to preserve water supply
- In severe drought conditions, can serve as a roadmap of action for how to proceed through various levels of shortage
- District established triggers in the 1987-92 drought when the District faced 5 years of on-again off-again mandatory water use restrictions and messaging

Historical Water Shortage Action Levels (District Code)

Stage	Water Supply Condition	Percent Reduction
Alert Stage (Voluntary Conservation)	Total reservoir storage is less than 50,000 AF on April 1	10%
Mandatory Conservation	Total reservoir storage is less than 40,000 AF on April 1	25%
Water Shortage Emergency	Total reservoir storage on December 1 is projected to be in the vicinity of, or less than 30,000 AF	Up to 50%

- Developed in 1991 and later refined in 1999 based on drought hydrology available
- Reservoir storage below trigger levels:
 - 10% : 1991, 2021
 - 25%: N/A
 - 50%: 1991

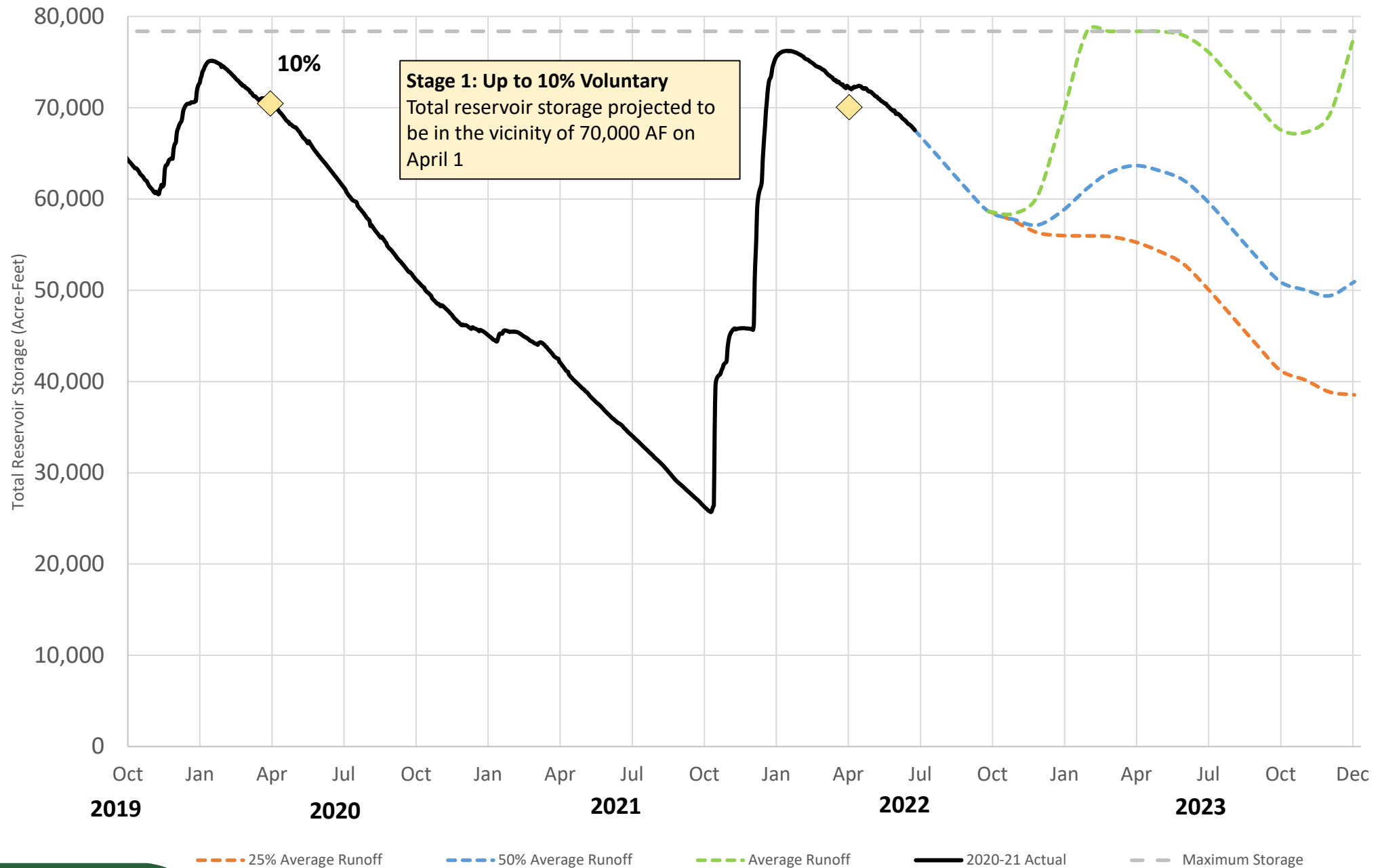
MMWD Historical Water Shortage Action Levels (District Code)

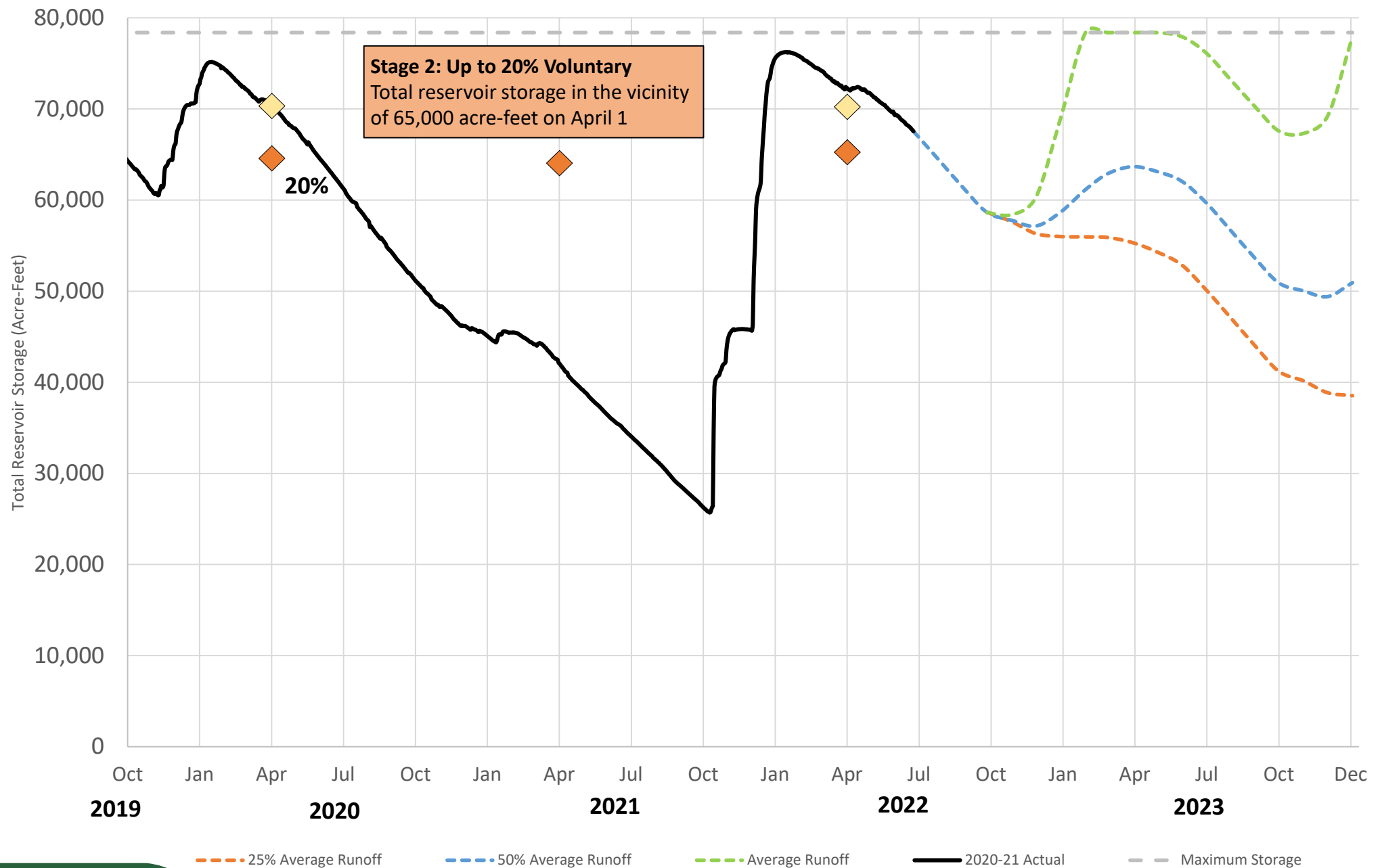


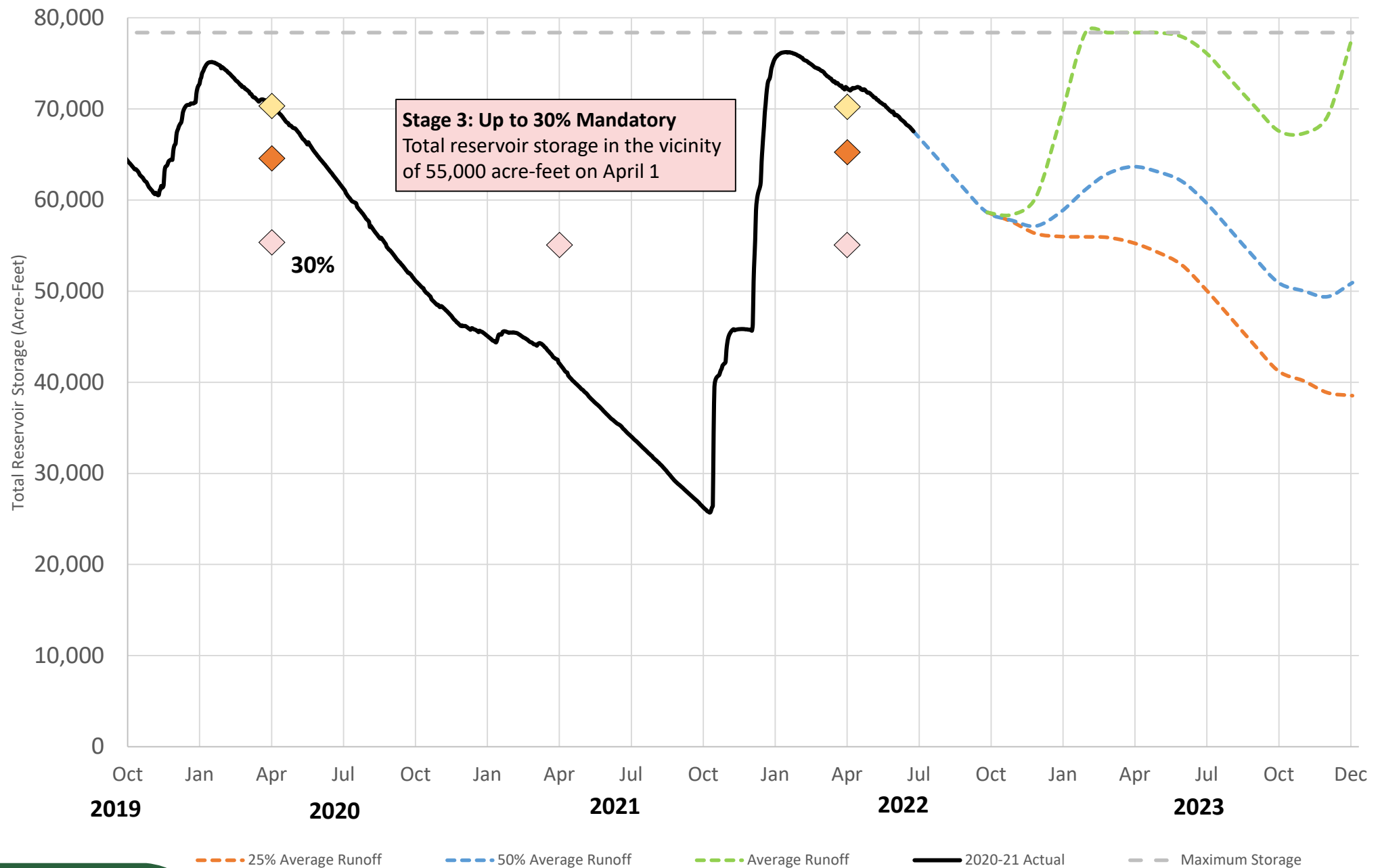
Initial Review of Revised Water Shortage Action Levels

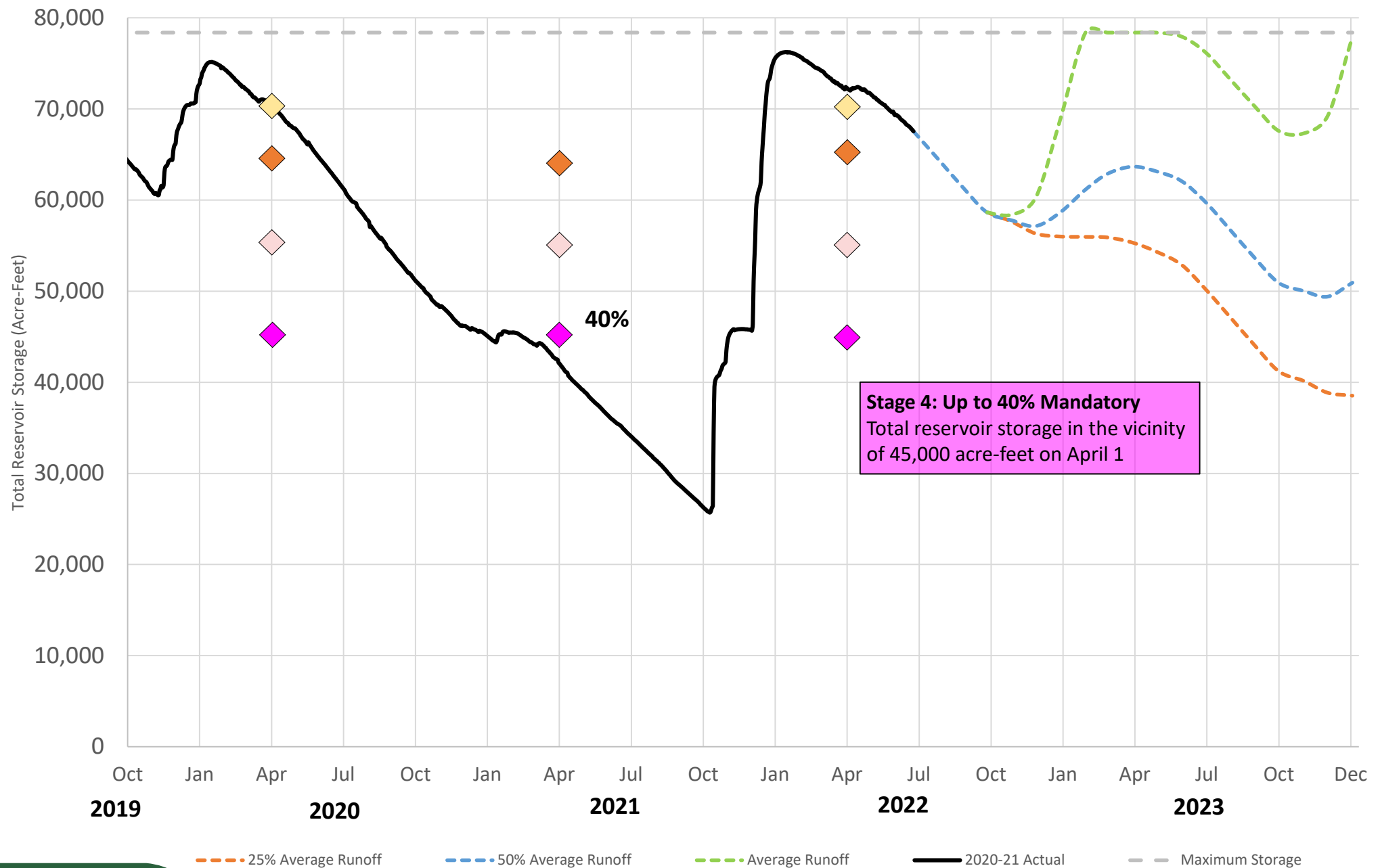
Proposed Water Shortage Action Levels

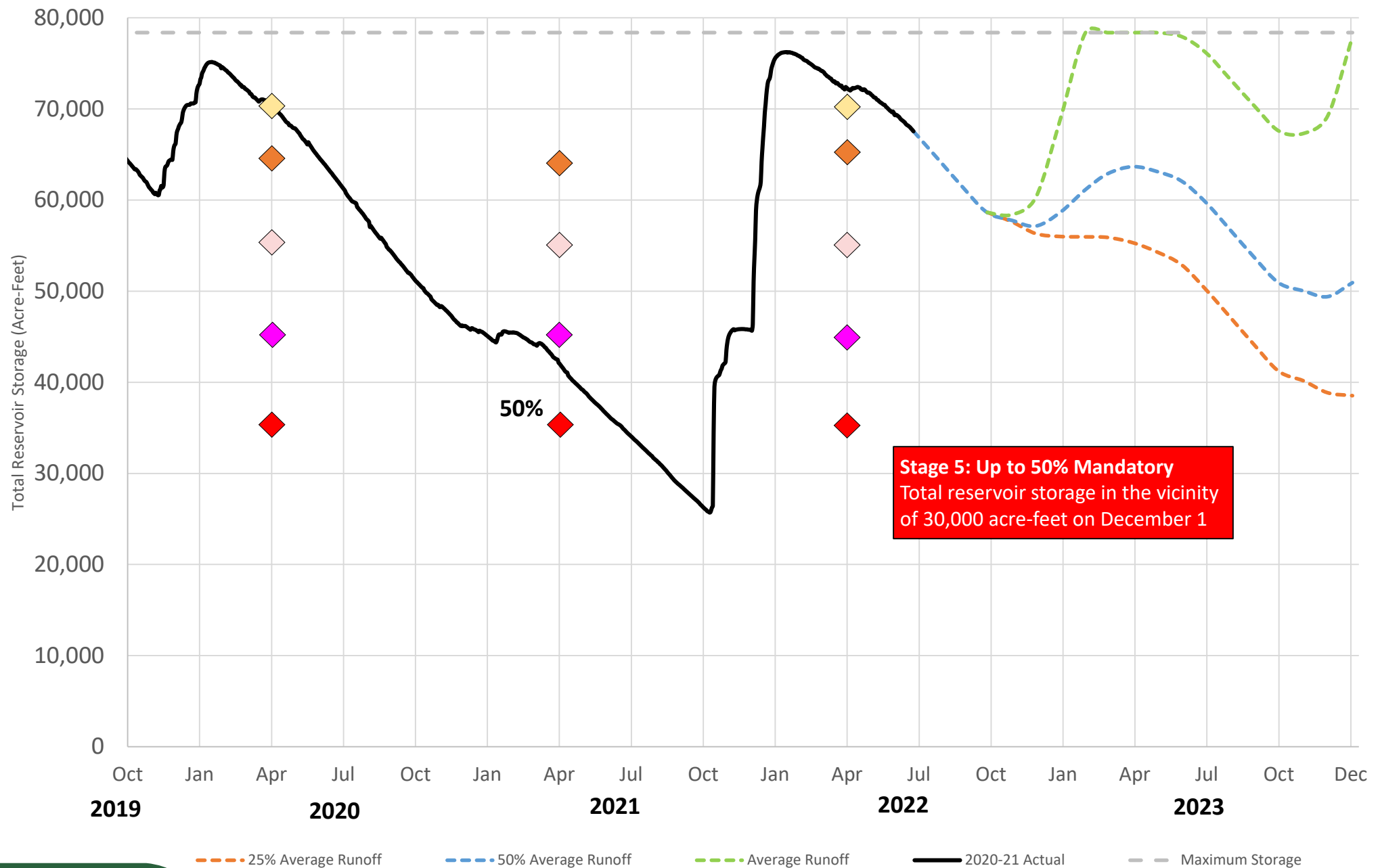
Stage	Shortage Range %	Water Shortage Action Level <u>Total Reservoir Storage on April 1st</u>	Shortage Response Actions
Projected to be in the vicinity of:			
1	Up to 10% Voluntary	70,000 AF	Normal year conservation program + maximize supplemental supply + increased public outreach
2	Up to 20% Voluntary	65,000 AF	All previous response actions + maximize supplemental supply + increased public outreach
3	Up to 30% Mandatory	55,000 AF	All previous response actions + Additional landscape irrigation restrictions + consider drought rate implementation
4	Up to 40% Mandatory	45,000 AF	All previous response actions + Further landscape irrigation restrictions
5	Up to 50% Mandatory	35,000 AF	All previous response actions + Consider restrictions on new service applications
6	> 50 % Mandatory	25,000 AF	Catastrophic interruption of water supply Water allotments into effect

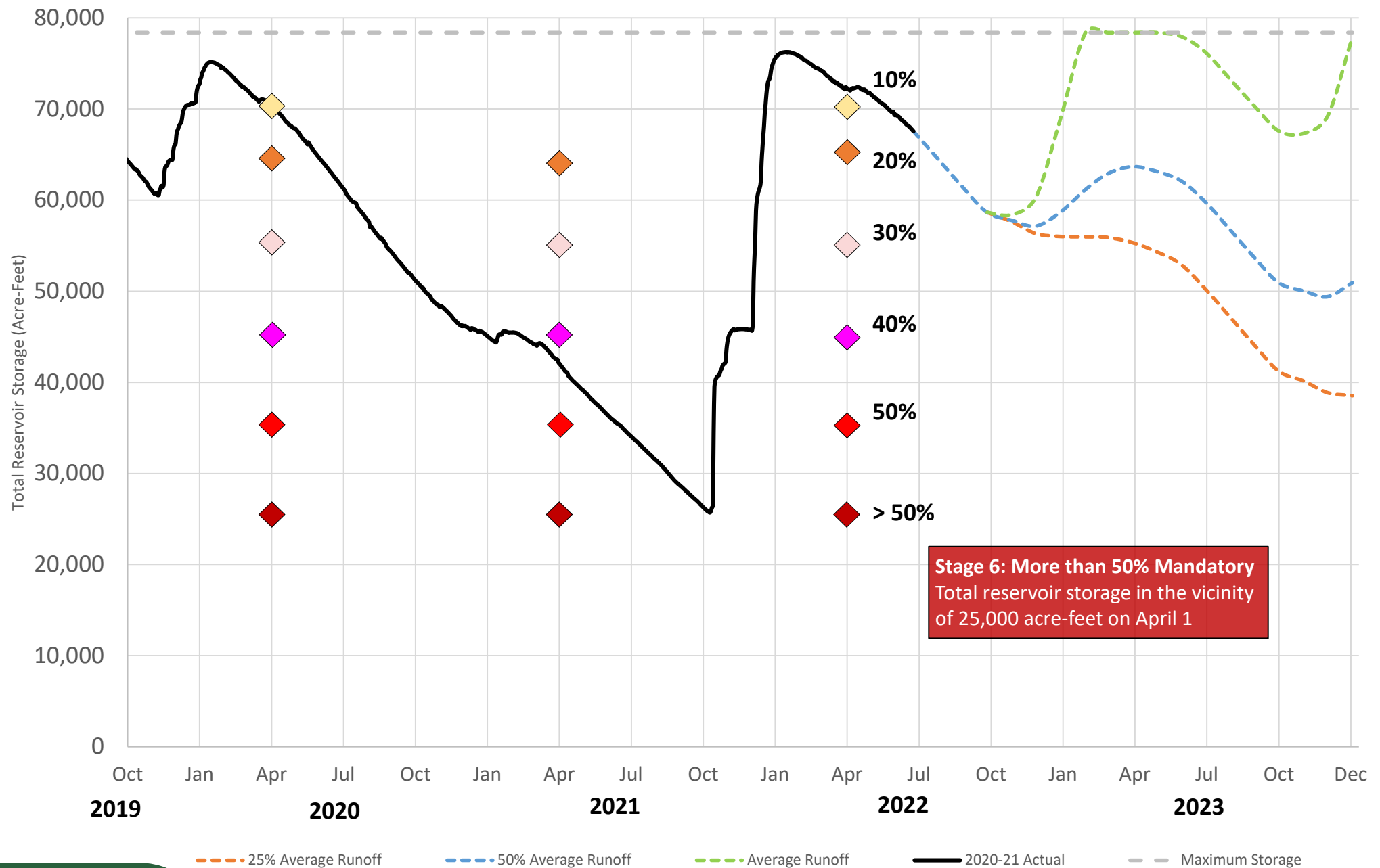


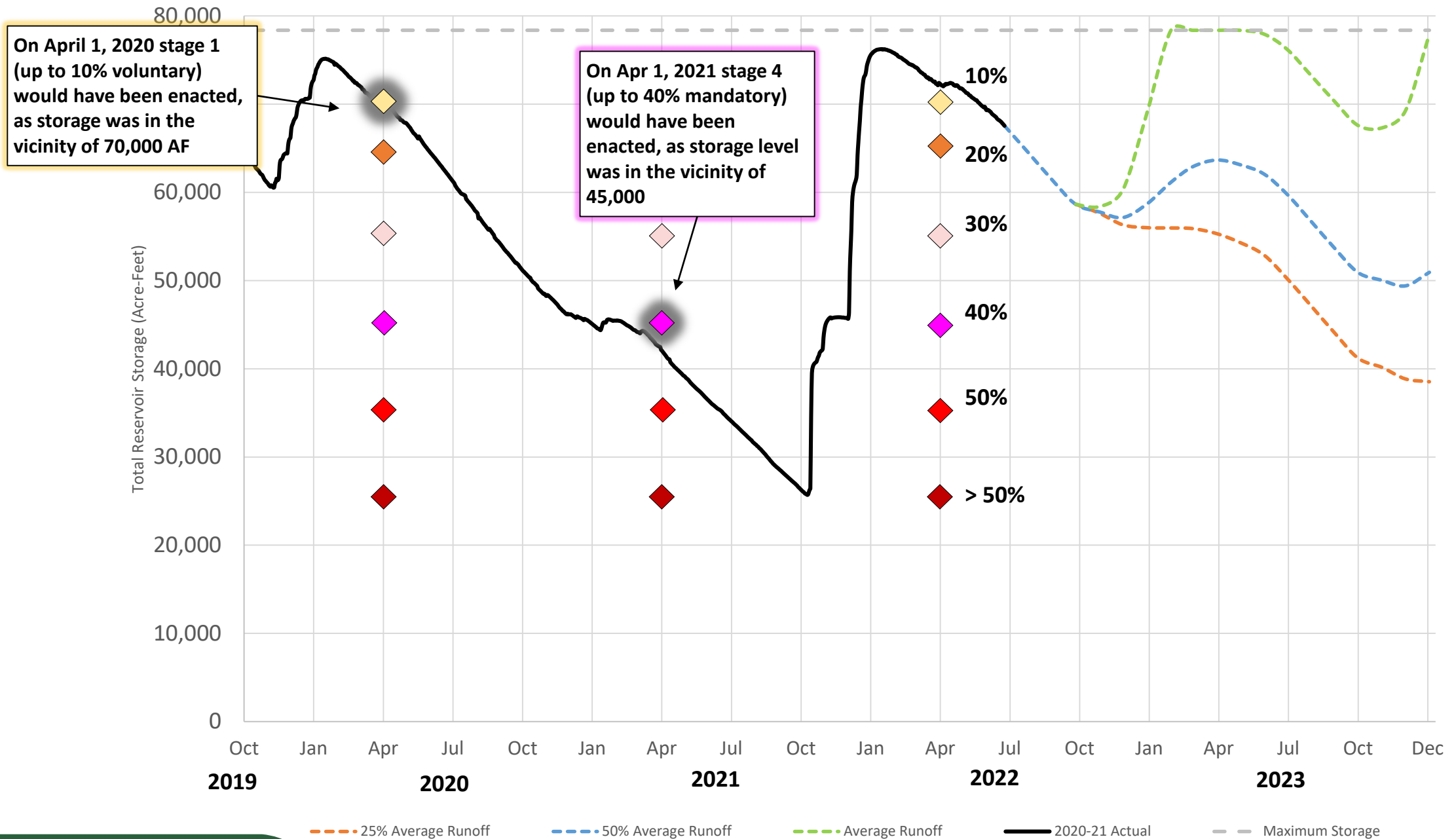












Summary and Next Steps

- April 1st key decision date for water supply actions prior to peak summer water usage
- Use predictive water supply indicators and updated climate trends – such as NOAA analysis on El Nino/La Nina – to forecast local water supply
- Refine based on Board input and return at future meeting with additional details on water shortage response actions