



“A multicounty agency authorized to plan for and acquire supplemental water supplies, encourage water conservation and use of recycled water on a regional basis.”

[BAWSCA Act, AB2058 (Papan-2002)]

Water Supply Conditions Update & BACWA Workshop on Water Reuse

**As Provided to C/CAG Resource
Management and Climate Protection
Committee**

Tom Francis
Water Resources Manager, BAWSCA
October 18, 2023

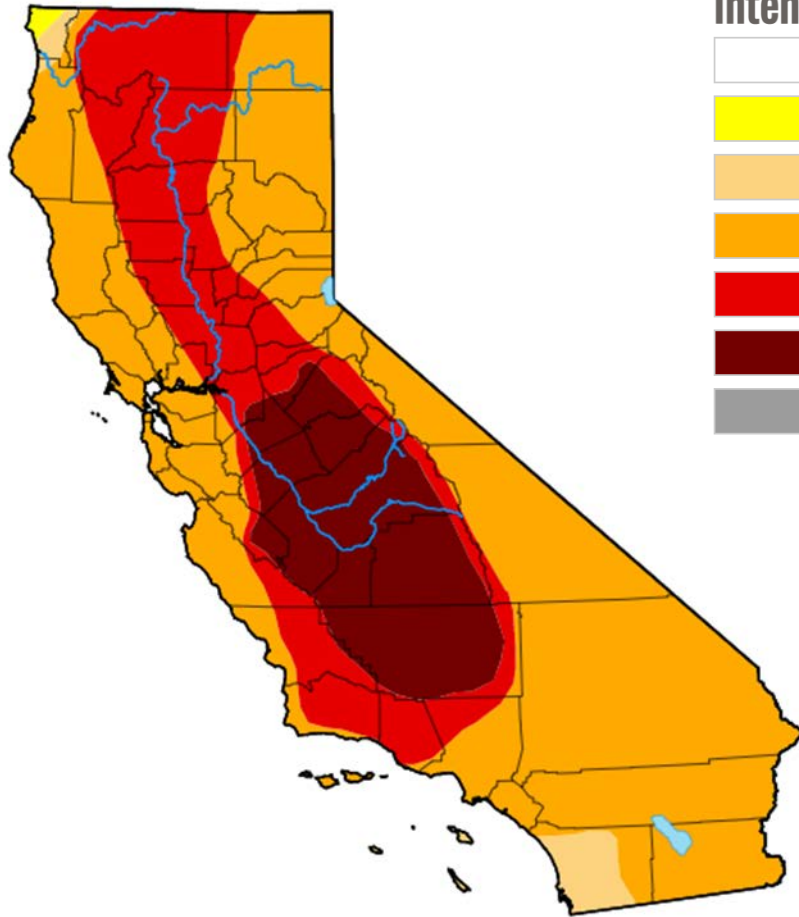
Water Supply Conditions Summary

- Water Year 2023 ended on September 30, 2023
- Highlights:
 - WY 2023 was the second wettest on record in terms of precipitation measured at Hetch Hetchy
 - Thirty-one atmospheric rivers from mid-December 2022 to the end of March 2023 established a near-historic snowpack in the Sierra Nevada.
 - Hetch Hetchy reservoir had the second highest inflow on record at 1,532,116 acre-feet and Cherry-Eleanor combined inflows had the third highest inflow on record at 907,583 acre-feet.
 - Third largest cumulative Water Available to the City (WAC) volume on record at 2,774,104 acre-feet

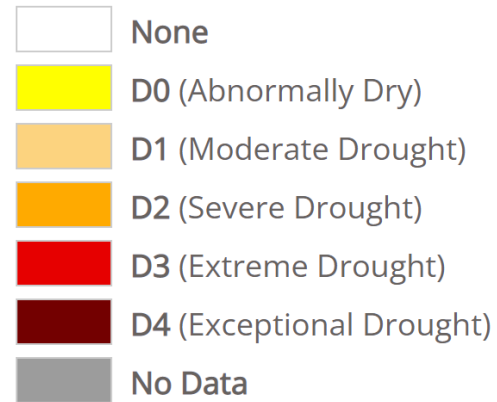
For reference, an acre foot of water equals about 326,000 gallons, or enough water to cover an acre of land 1-foot deep

California Drought Monitor (Sept. 1, 2022 & Sept. 28, 2023)

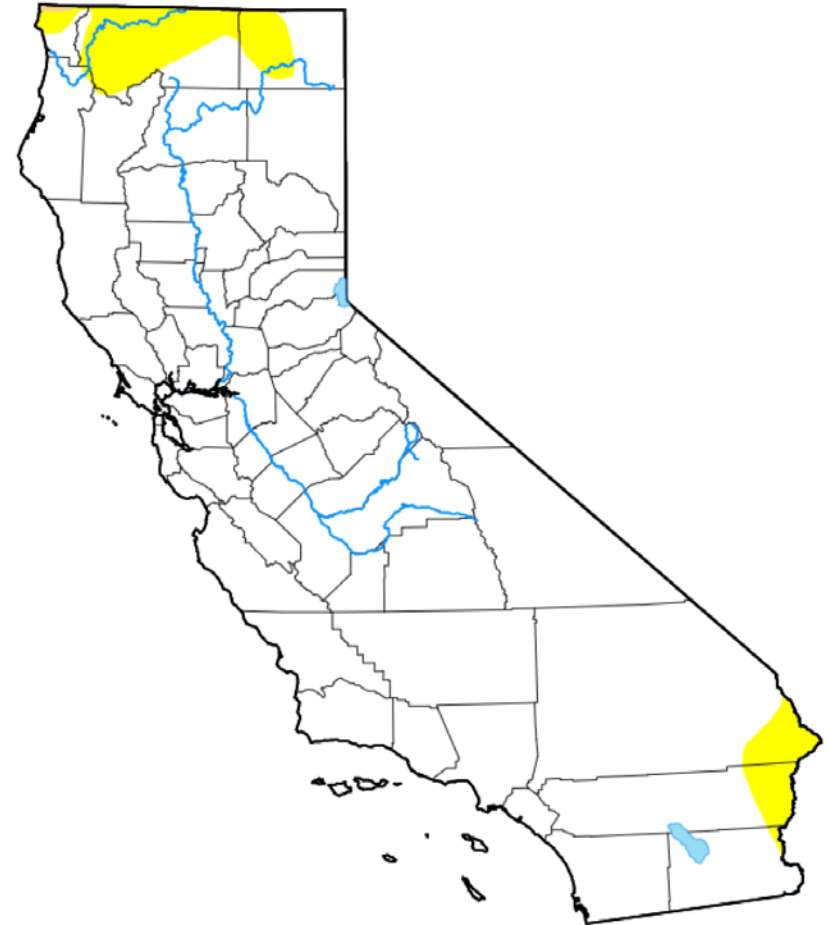
September 1, 2022



Intensity



September 28, 2023

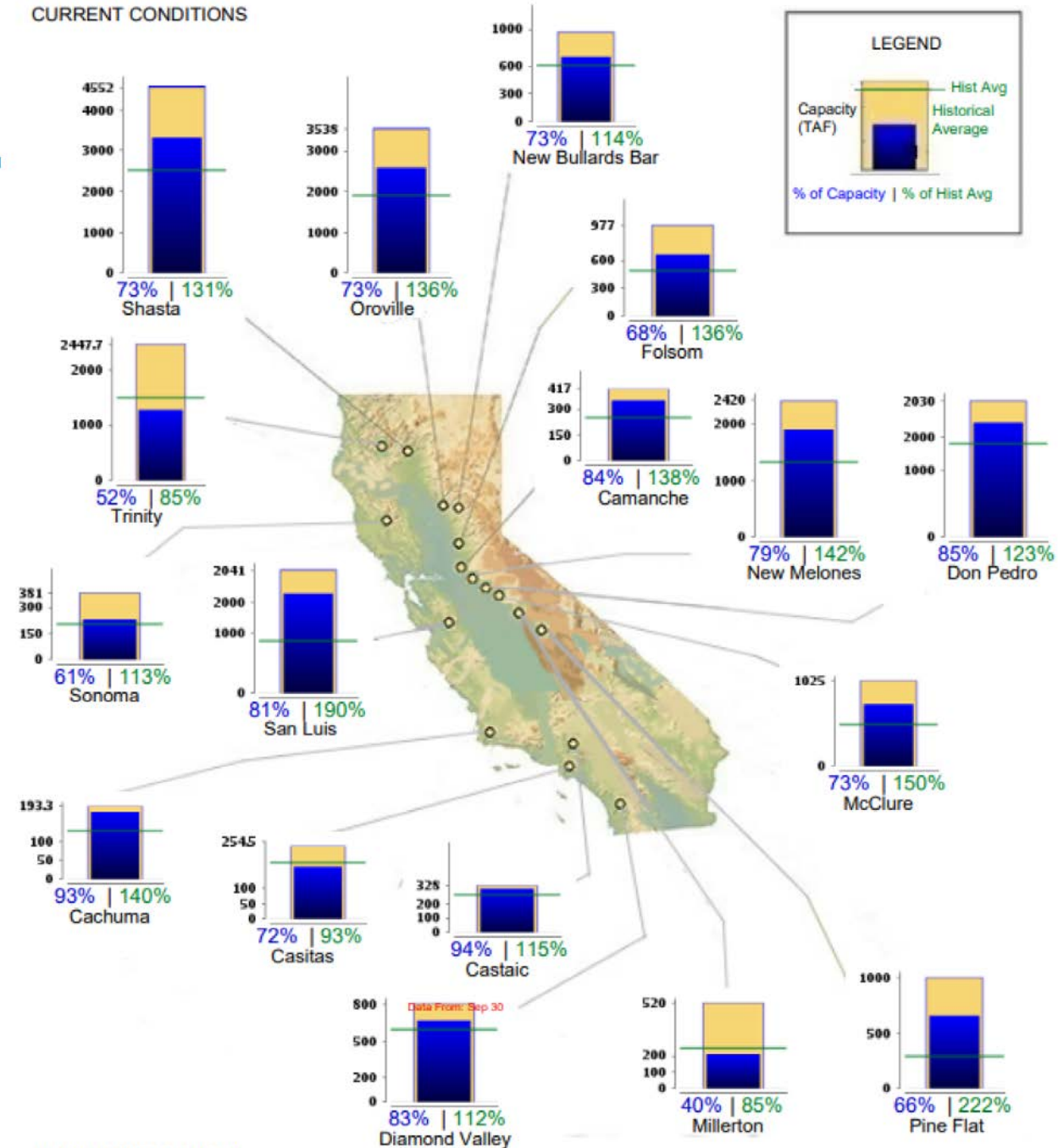


Cal Reservoir Conditions

California's Other Reservoirs
(Storage as of October 1, 2023)

CALIFORNIA MAJOR WATER SUPPLY RESERVOIRS CURRENT CONDITIONS

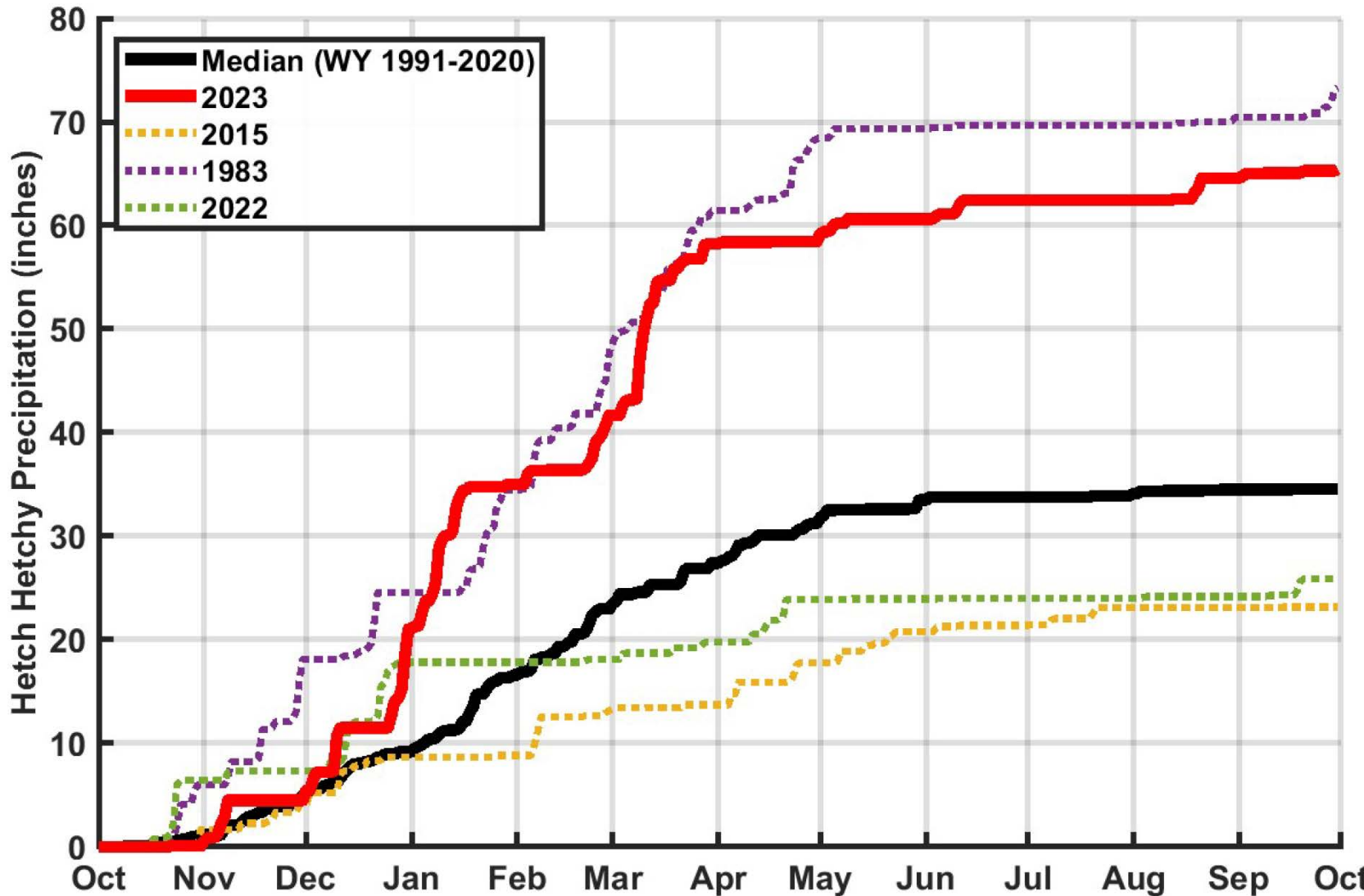
Midnight - October 1, 2023



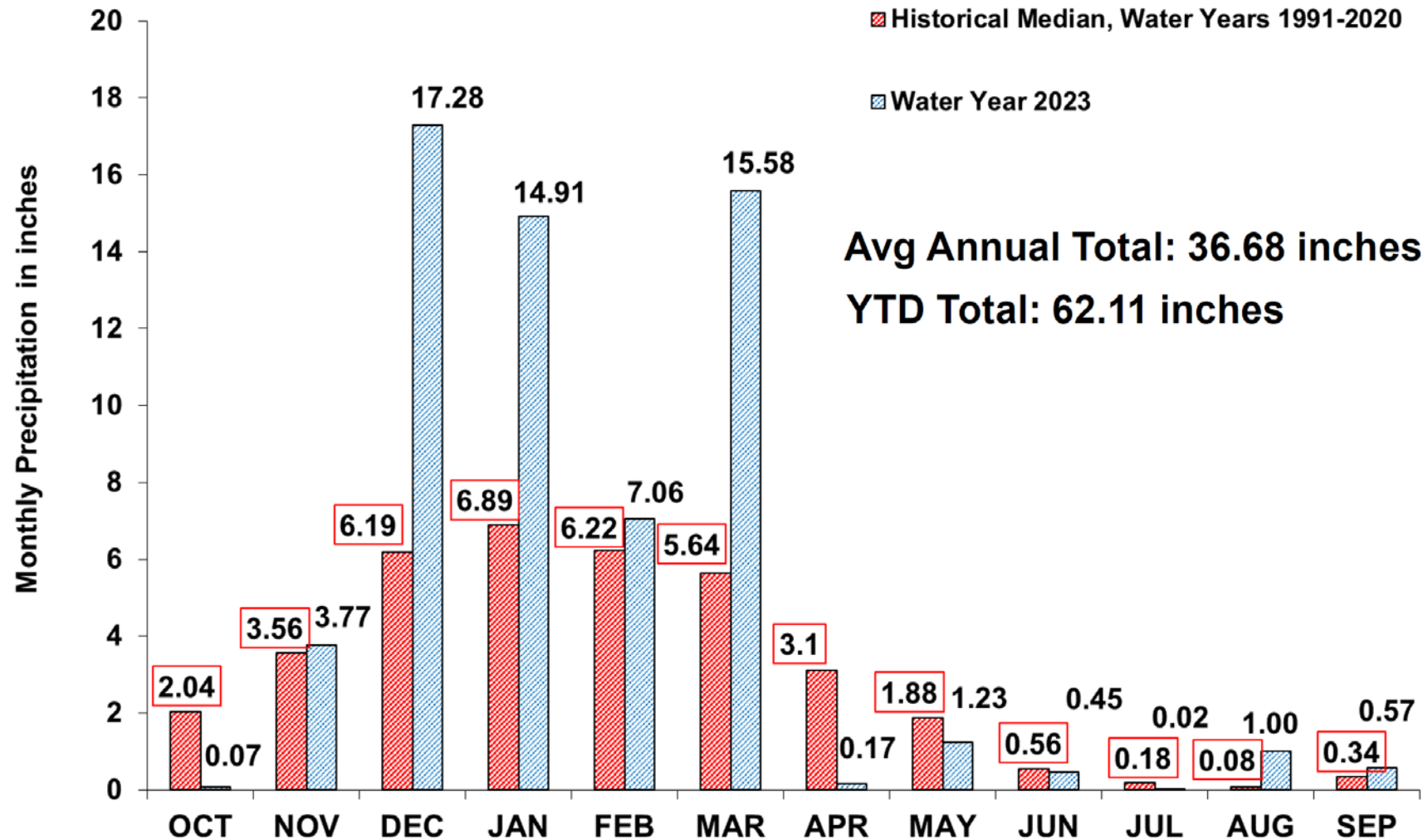
SF Regional Water System Storage as of October 1, 2023

Reservoir	Current Storage ^{1,2,3} (AF)	Maximum Storage ⁴ (AF)	Available Capacity (AF)	Percent of Maximum Storage	Normal Percent of Maximum Storage ⁵
<u>Tuolumne System</u>					
Hetch Hetchy	340,700	360,360	19,660	94.5%	79.0%
Cherry	247,700	273,345	25,645	90.6%	-
Eleanor	22,540	27,100	4,560	83.2%	-
Water Bank	570,000	570,000	0	100.0%	99.7%
Total Tuolumne Storage	1,180,940	1,230,805	49,865	95.9%	-
<u>Local System</u>					
Calaveras	89,400	96,670	7,270	92.5%	-
San Antonio	50,848	53,266	2,418	95.5%	-
Crystal Springs	50,445	68,953	18,508	73.2%	-
San Andreas	14,720	18,675	3,955	78.8%	-
Pilarcitos	2,701	3,125	424	86.4%	-
Total Local Storage	208,114	240,689	32,575	86.5%	-
Total System Storage	1,389,054	1,471,494	82,440	94.4%	79.8%
Total without water bank	819,054	901,494	82,440	90.9%	-

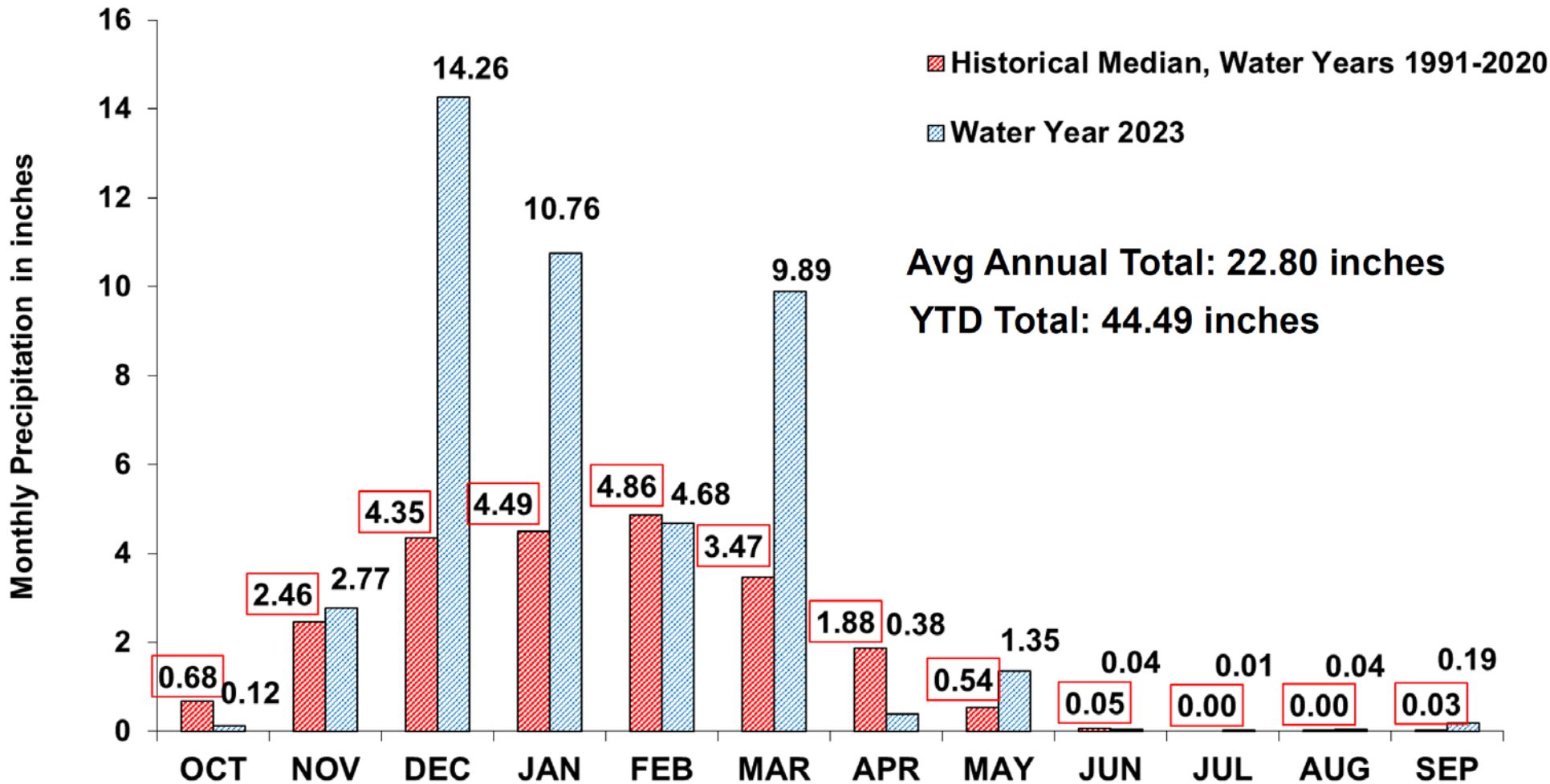
Hetch Hetchy Precipitation – Thru September 30, 2023



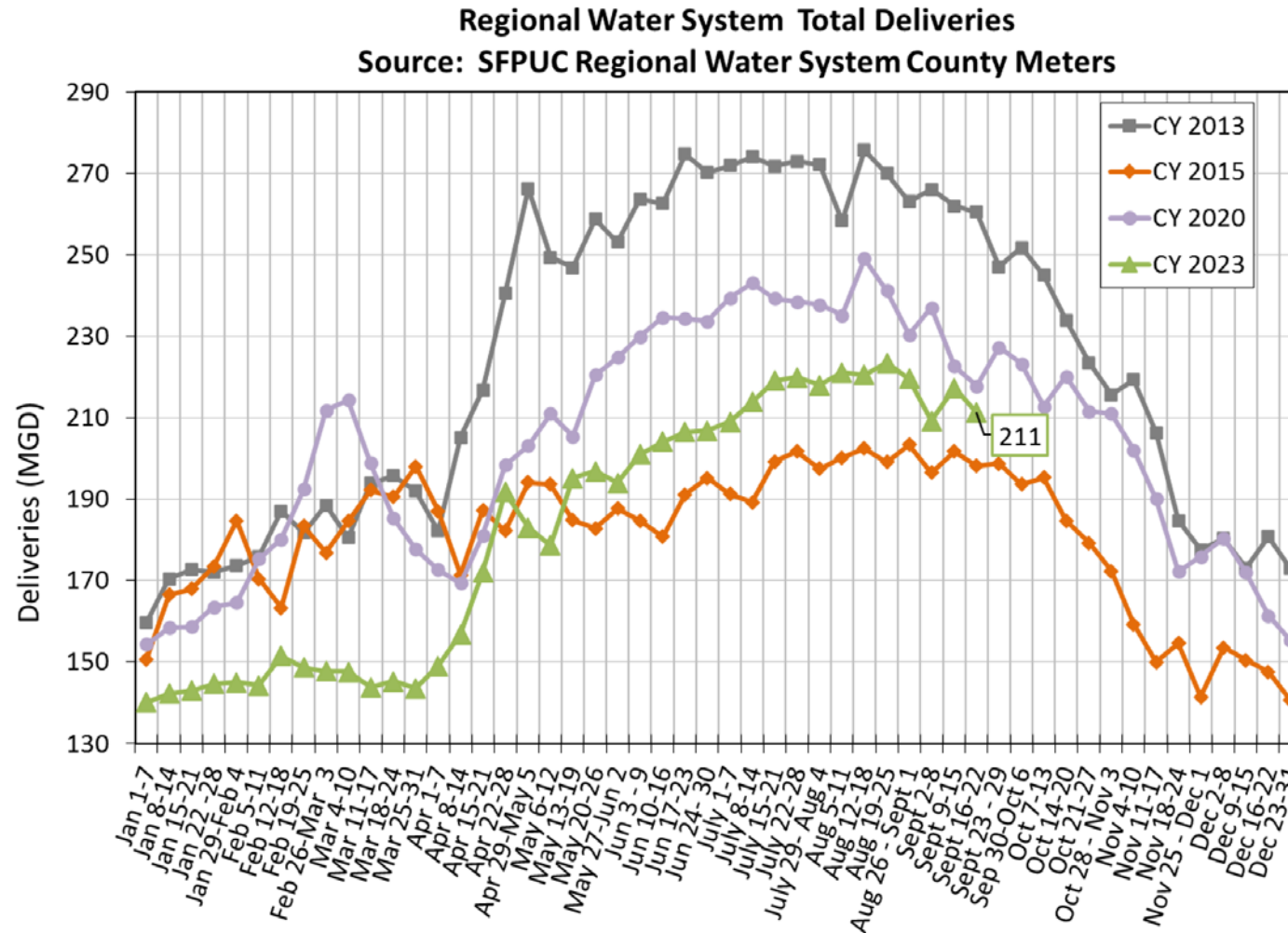
Upcountry Precipitation – Thru September 30, 2023



Bay Area Precipitation – September 30, 2023



Water Deliveries (from the SF RWS)



The Bay Area Clean Water Agencies (BACWA) Hold Workshop on Advancing Water Reuse

- The workshop took place on September 20, 2023
- 86 people attended (by invitation only) – all BACWA member agencies were invited
- Attendees included representatives from water agencies, wastewater agencies, environmental NGOs, and staff from the SF Regional Water Quality Control Board
 - From San Mateo County, agencies that participated included BAWSCA, California Water Service, Coastside County Water District, North Coast County Water District, Redwood City, West Bay Sanitary District
- The workshop consisted of formal presentations by select agencies, interspersed by break-out sessions with subgroups of attendees



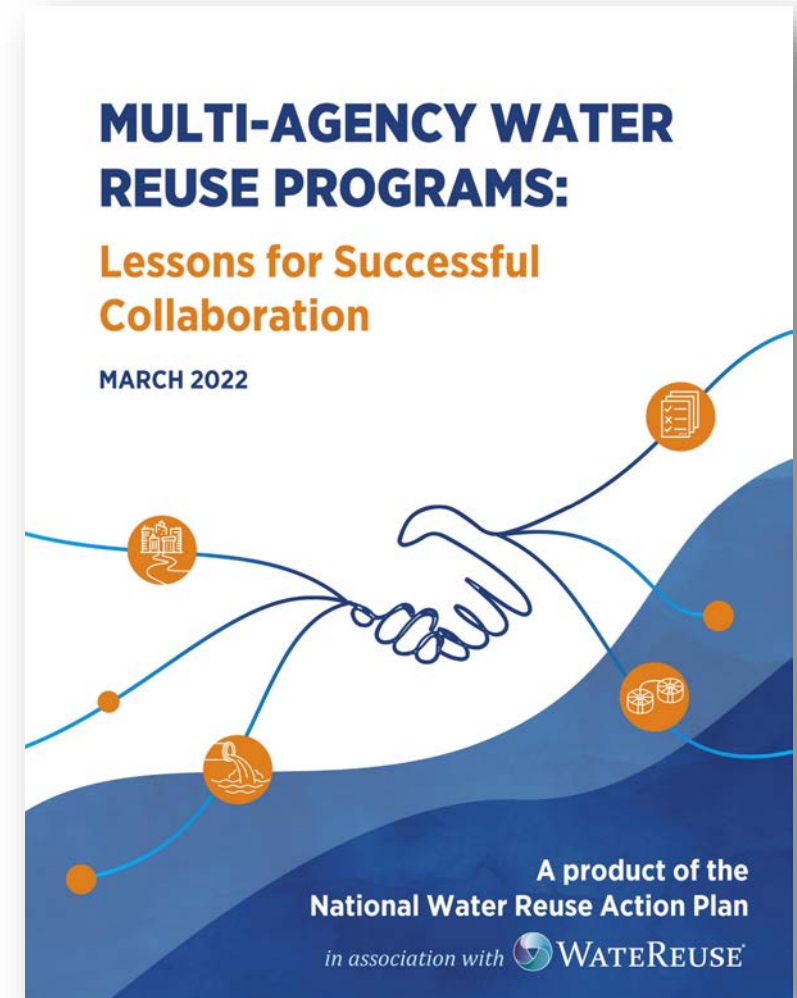
B A C W A
B A Y A R E A
C L E A N W A T E R
A G E N C I E S

Workshop Discussion (1 of 2)

- Four desired outcomes of the workshop were discussed at the opening
 - Identify similarities and differences in issues and drivers
 - Recognize opportunities for partnerships to address current and future reuse challenges
 - Evaluate the right scale(s) (regional/subregional/local) to address these challenges
 - Improve capacity for and commitment to collaboration among Bay area agencies and utilities
- Drivers and opportunities for expanding water reuse were presented
 - Wastewater agency perspective (BACWA presentation)
 - Water agency perspective (SFPUC and Valley Water presentation)
 - Regulator perspective (SF RWQCB Presentation)

Workshop Discussion (2 of 2)

- Overview of findings and “lessons learned” as detailed in an EPA / WateReuse study completed in 2022 on overcoming obstacles to collaboration on water reuse. Obstacles identified included:
 - Governance
 - Regulations
 - Economics
 - Management
 - Leadership
- Following each break-out session, report-outs took place
- A document is in development by BACWA to summarize the workshop discussion



Questions and Comments



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Remnant Snowfields, Upper-most Tuolumne Watershed, October 1, 2023 Photo Credit, SFPUC