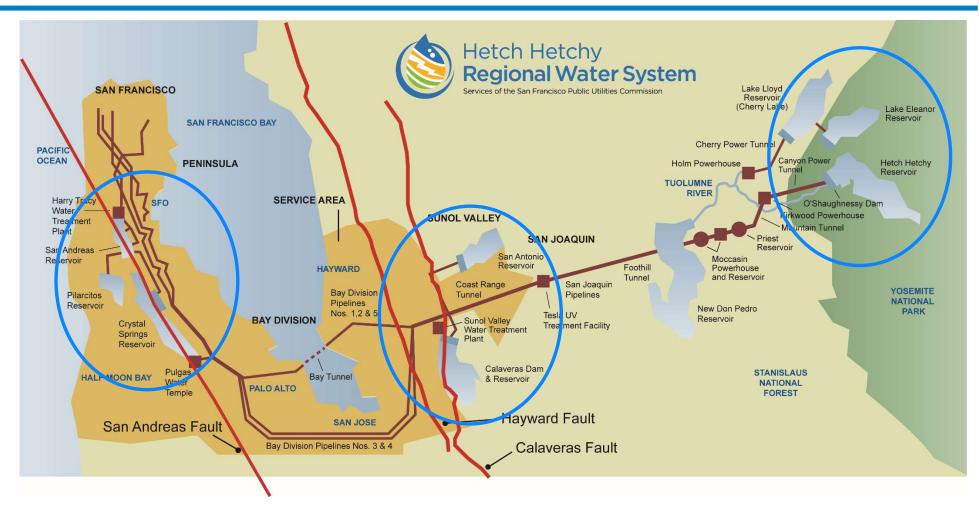


San Francisco's Water Supply, 2023 and Beyond

Steven R. Ritchie
Assistant General Manager, Water
February 17, 2023



System Schematic with Faultlines





The Tuolumne River

- Provides 85% of our water supply
- Our ability to utilize federal lands was authorized by the 1913 Raker Act while binding us to the Modesto and Turlock Irrigation Districts
- The Act memorialized the Districts senior water entitlements, giving them access to water in even the driest years
- Our entitlements are meaningful only in normal and wet years, making our system storage-dependent
- Per an agreement in 1966, we have the Water Bank storage account in Don Pedro Reservoir of 570,000 acre-feet which provides our dry year cushion



Hetch Hetchy Reservoir - 2023



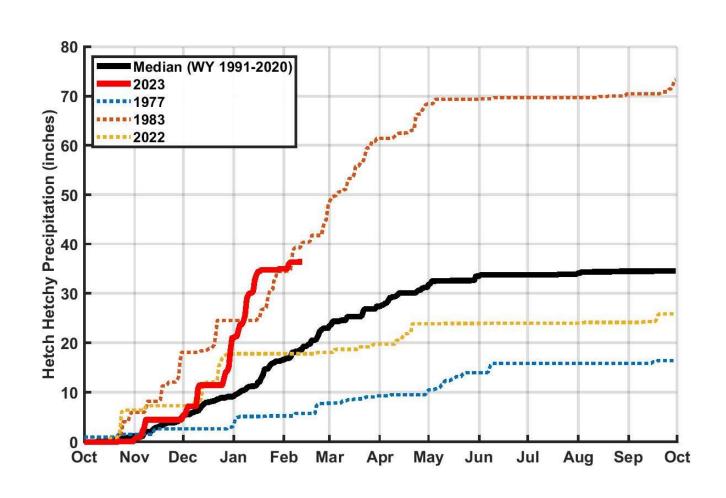


February 13, 2023 Reservoir Storage

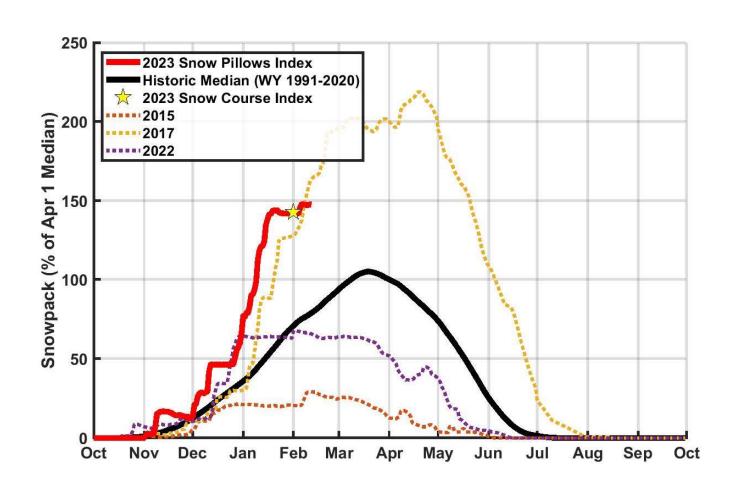
					Normal
				Percent of	Percent of
	Current	Maximum	Available	Maximum	Maximum
Reservoir	Storage ^{1,2,3}	Storage ⁴	Capacity	Storage	Storage ⁵
	(AF)	(AF)	(AF)		
<u>Tuolumne System</u>					
Hetch Hetchy	300,000	360,360	60,360	83.3%	67.6%
Cherry	217,800	273,345	55,545	79.7%	-
Eleanor	19,950	27,100	7,150	73.6%	-
Water Bank	570,000	570,000	0	100.0%	99.0%
Total Tuolumne Storage	1,107,750	1,230,805	123,055	90.0%	-
<u>Local System</u>					
Calaveras	91,613	96,670	5,057	94.8%	-
San Antonio	52,769	53,266	497	99.1%	-
Crystal Springs	57,015	68,953	11,938	82.7%	-
San Andreas	15,757	19,027	3,270	82.8%	-
Pilarcitos	2,601	3,030	429	85.8%	-
Total Local Storage	219,755	240,946	21,191	91.2%	-

Total System Storage	1,327,505	1,471,751	144,246	90.2%	80.3%
Total without water bank	757,505	901,751	144,246	84.0%	-

Hetch Hetchy Precipitation

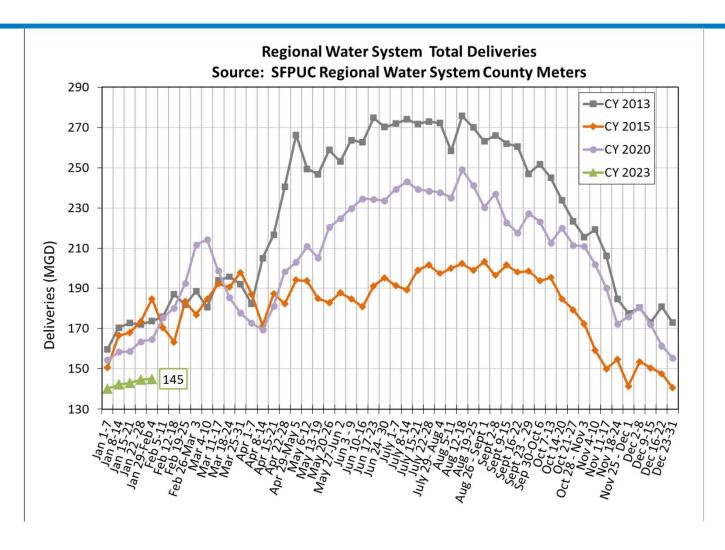


Upcountry Snowpack





Total Deliveries





But What About the Future?

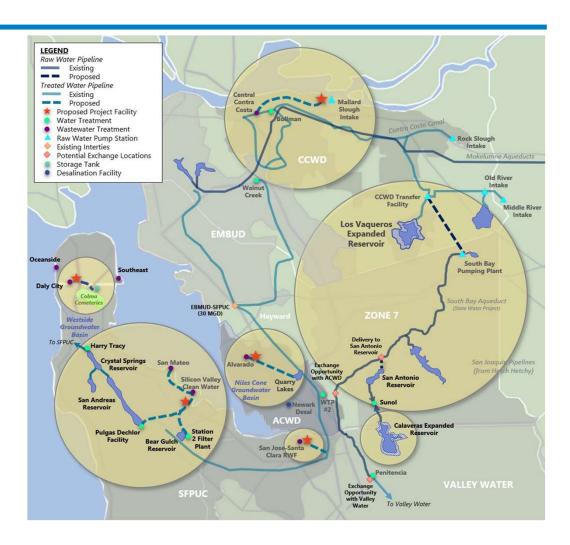
- We will continue to rely on our existing supplies to the extent we can
- However, we clearly need to diversify our portfolio due to regulatory challenges, climate change, and simply smart management
- This leads us to Alternative Water Supplies



Alternative Water Supplies

Maximizing opportunities for dry year availability

- Leveraging existing infrastructure to the extent possible
- Forging new partnerships with water and wastewater utilities

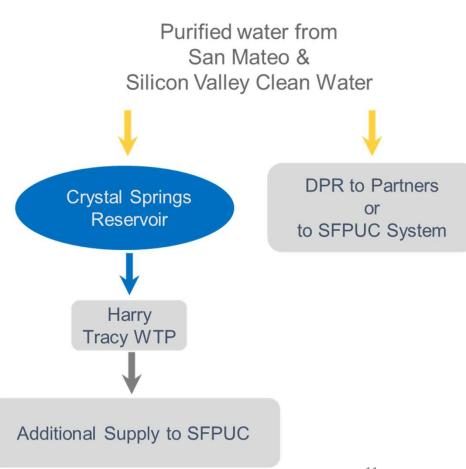




SF-Peninsula Purified Water

Planning Assumptions:

- 6-12 mgd of purified water; wastewater supplies from SVCW and San Mateo
- Project is technically feasible
- Estimated delivery: 2038





South Bay Purified Water

Planning Assumptions:

 3.5 mgd of purified water available in dry years only from a 10 mgd project with the Cities of San Jose and Santa Clara

Key Planning Considerations:

- Where and when deliveries enter RWS
- If there is more dry year supply available
- If expanding Valley Water partnership can provide additional benefits (LVE, plant utilization/cost)

Purified water from South Bay Purified Water near Regional Wastewater Facility







PureWaterSF



LЗ