



Monthly Water Supply Report - January 2021

February 16, 2021



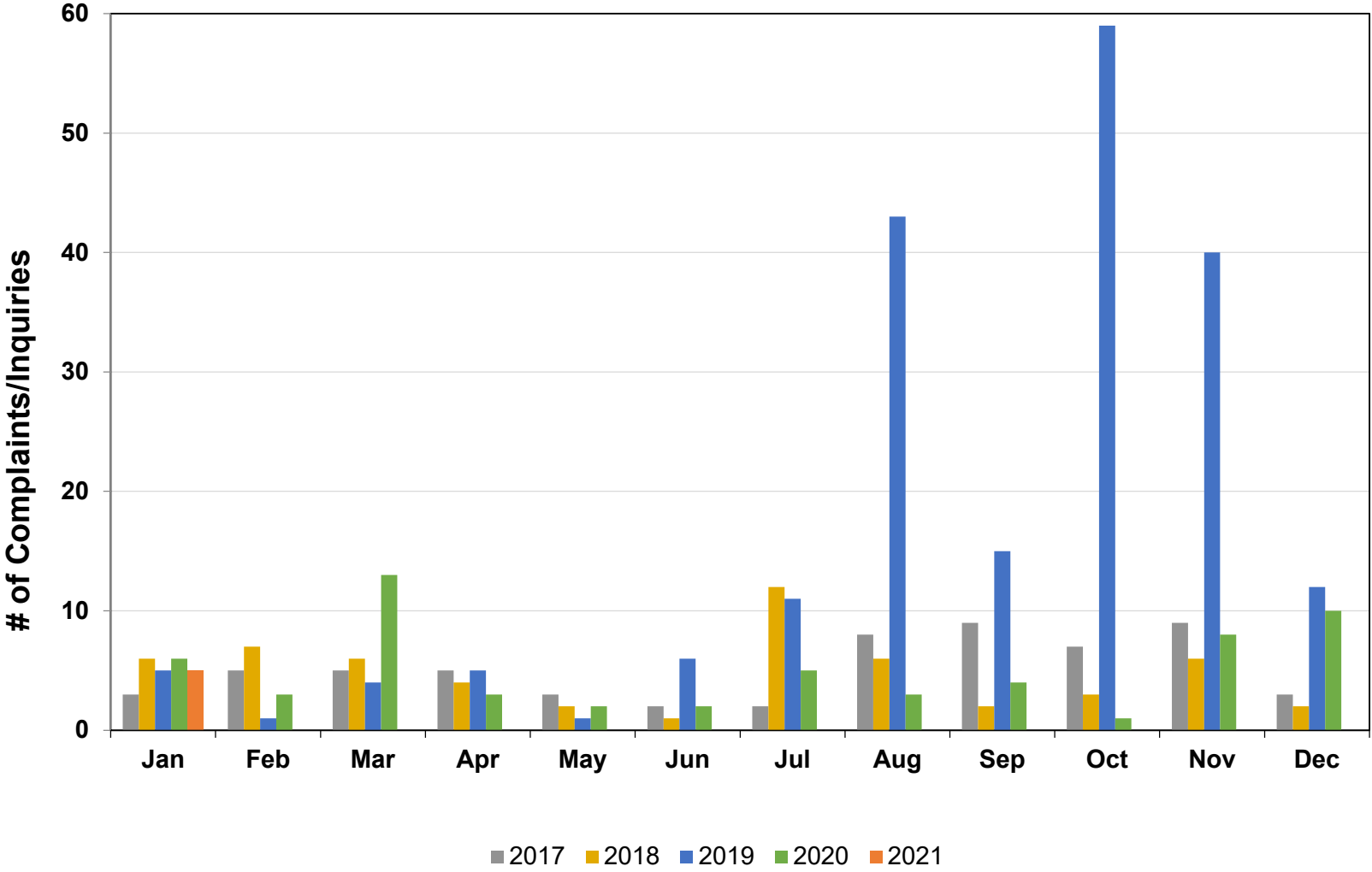
Overview

- Taste and Odor
- January Water Production and Supply
- Storage Level Projection
- Drought Response



January Water Supply & Demand

Taste and Odor - Customer Inquiries

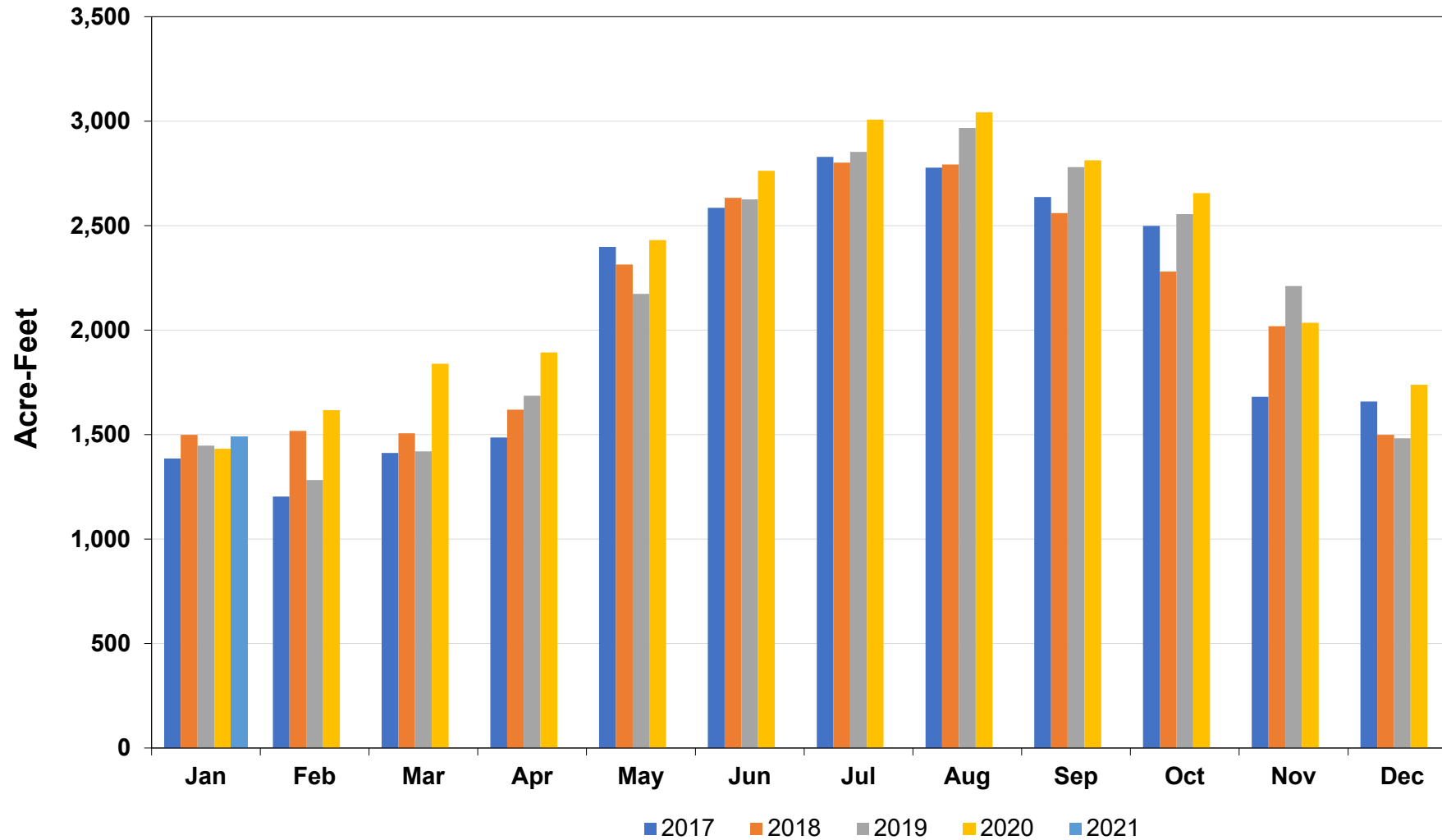


Monthly Water Production

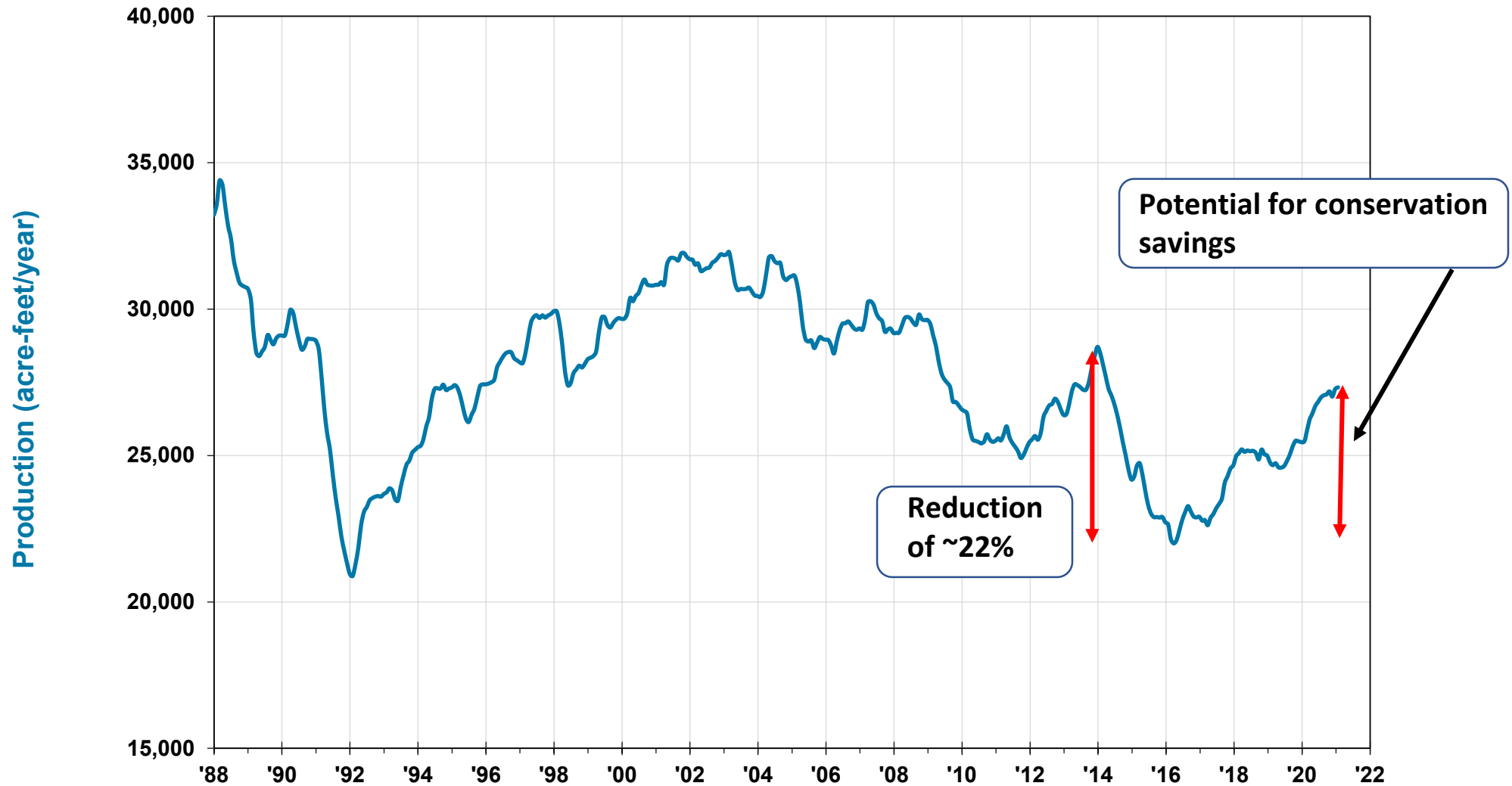
Total Potable Water Production						
Month	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Jul	2,287	2,636	2,830	2,802	2,853	3,008
Aug	2,369	2,630	2,778	2,792	2,968	3,043
Sep	2,239	2,449	2,637	2,561	2,781	2,813
Oct	2,148	1,963	2,499	2,281	2,555	2,655
Nov	1,628	1,455	1,681	2,019	2,212	2,035
Dec	1,429	1,400	1,659	1,499	1,482	1,739
Jan	1,364	1,386	1,499	1,448	1,432	1,490
Total YTD	13,464	13,920	15,583	15,402	16,283	16,784

Imported Water Production						
Month	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Jul	364	390	364	374	545	663
Aug	355	378	532	382	543	600
Sep	378	360	543	366	548	505
Oct	380	361	457	371	400	527
Nov	329	341	225	368	202	598
Dec	376	308	193	369	194	734
Jan	362	201	191	200	433	875
Total YTD	2,544	2,338	2,504	2,430	2,865	4,503

Monthly Potable Water Production

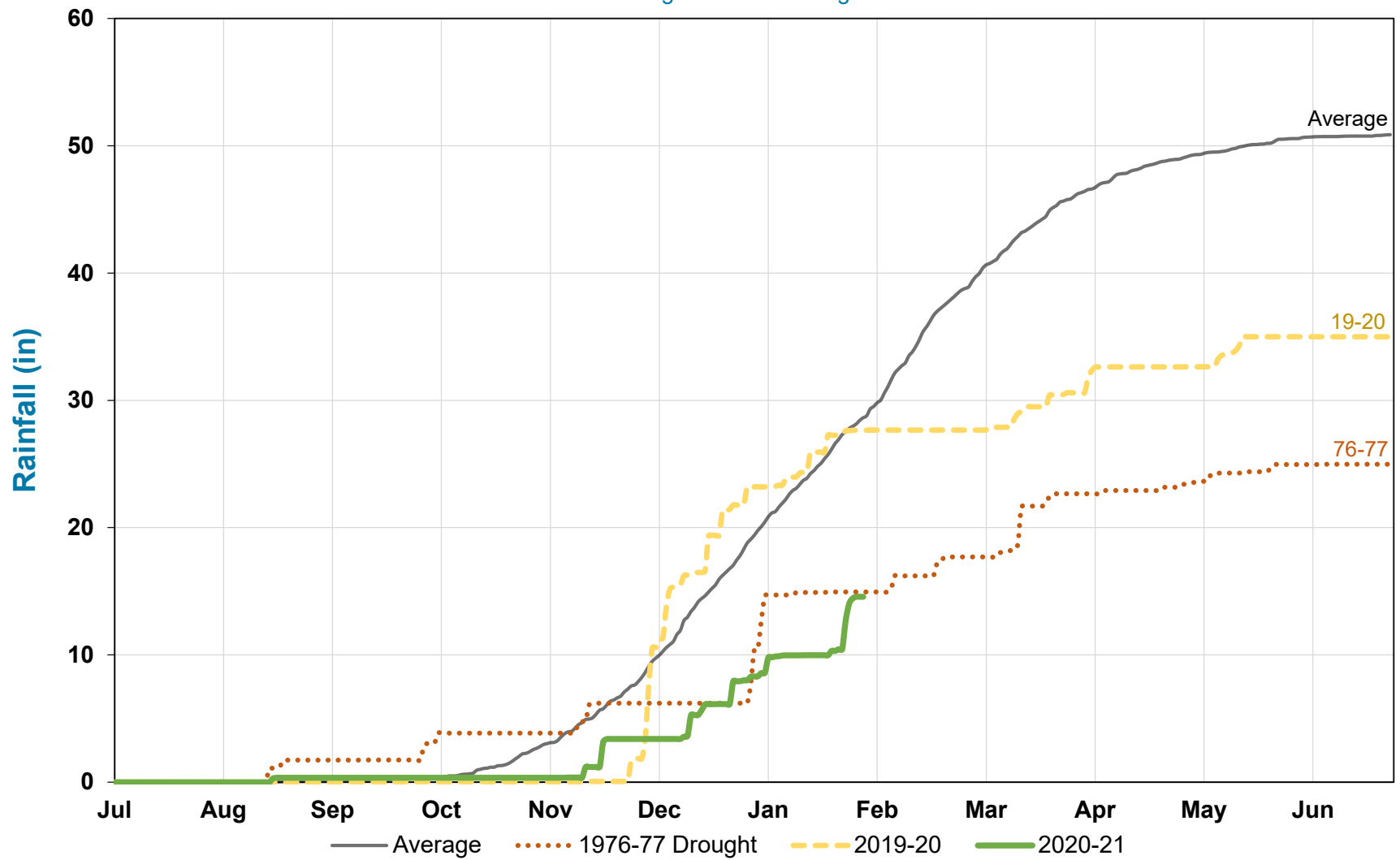


Running 12-month Potable Water Production (AF)



Cumulative Precipitation

Lake Lagunitas Rain Gauge

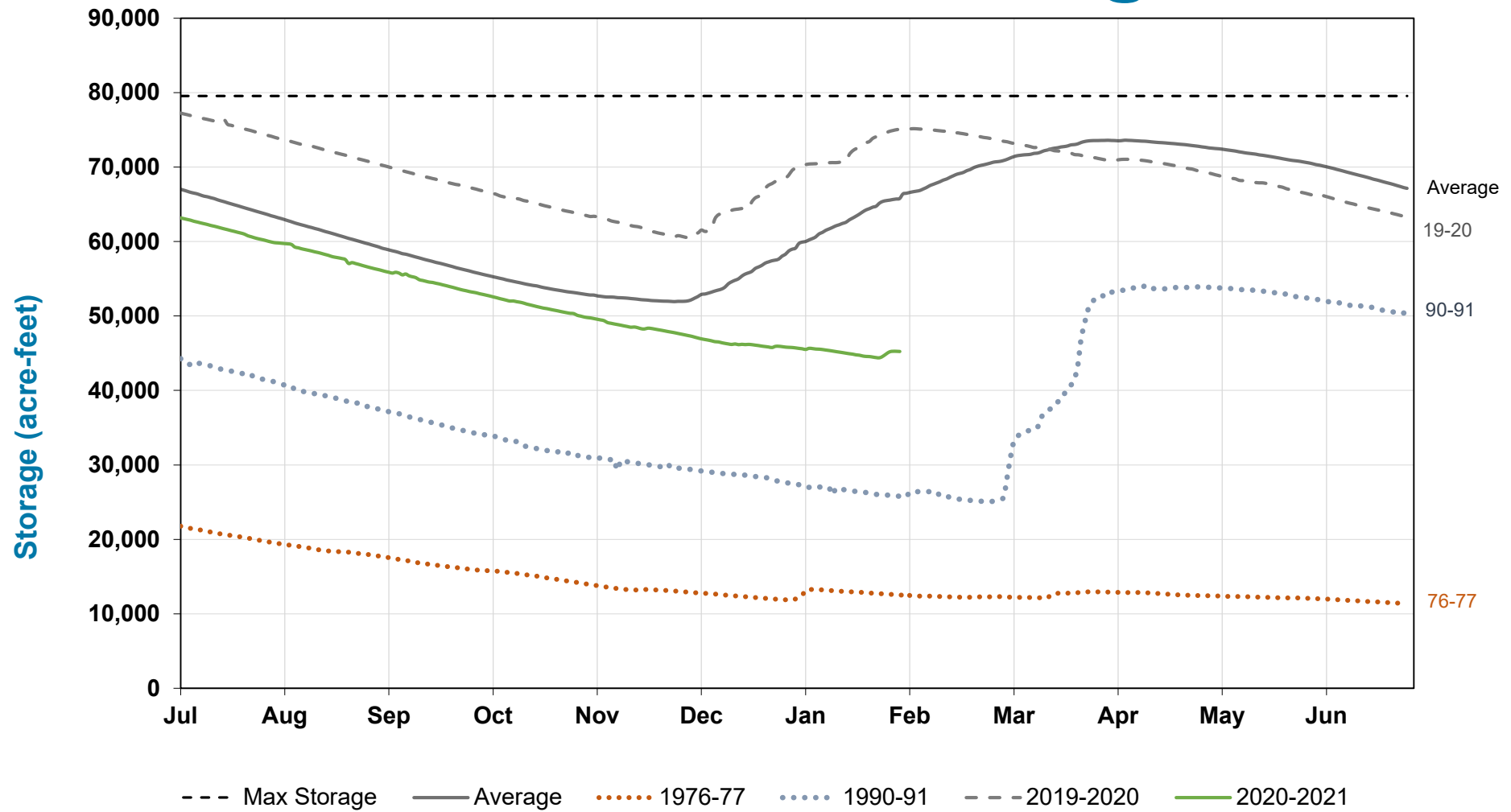


MMWD Reservoir Storage

As of January 31, 2021

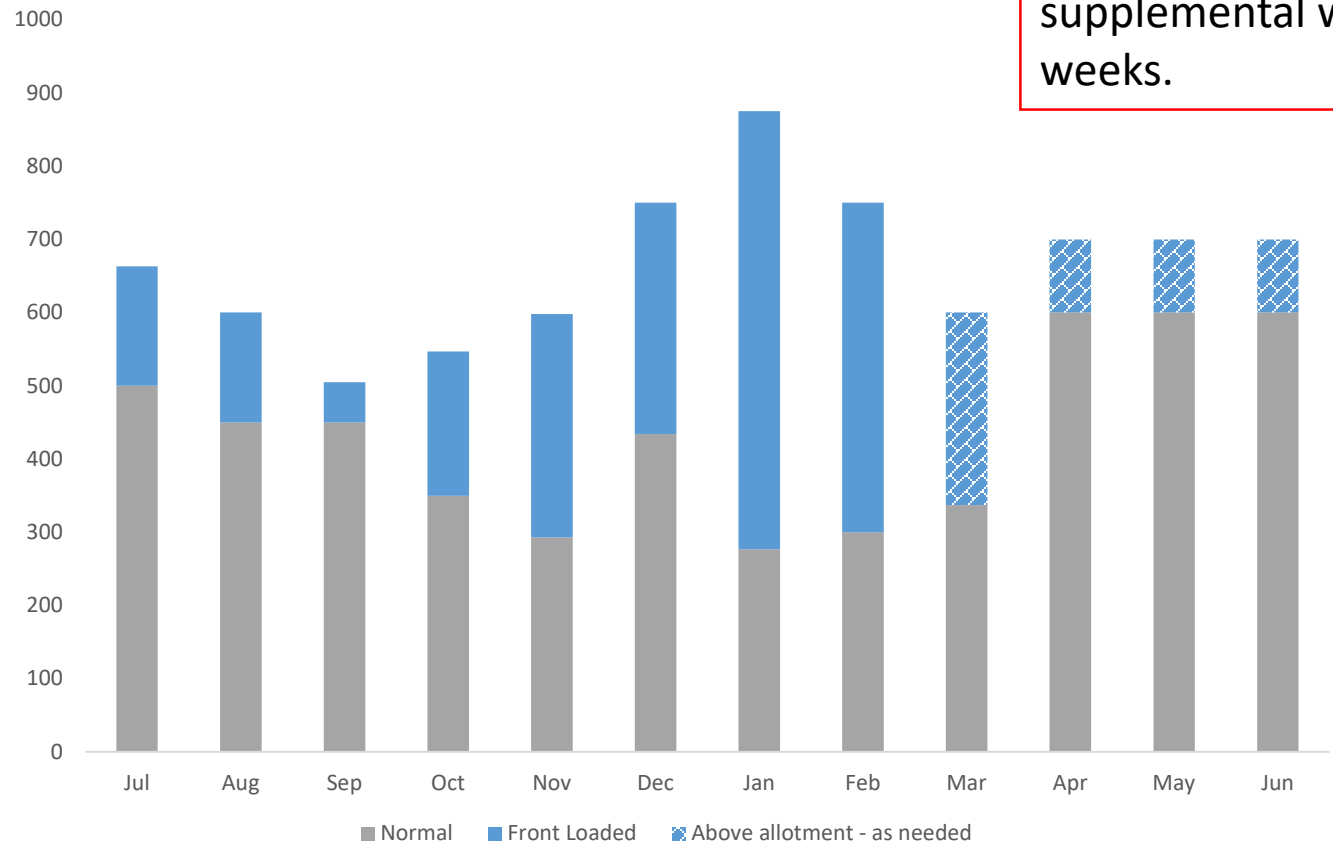
Reservoir	Total Capacity (AF)	Water Level From Spillway (feet down)	Storage (AF)	Percent of Total Capacity
Alpine	8891	21	5,204	58.5%
Bon Tempe	4,017	1.6	3,818	95.%
Kent	32,895	28.7	20,284	61.6%
Nicasio	22,430	18.5	9,800	43.7%
Lagunitas	350	0.5	350	100%
Phoenix	411	3.1	411	100%
Soulajule	10,572	17	5,369	50.8%
Total	79,566	N/A	45,236	56.8%
Historical Average Storage This Date			66,007	N/A
Historical Percent of Total Storage This Date			82.9	N/A
Percent of Average Storage This Date			68.5%	N/A

Total Reservoir Storage



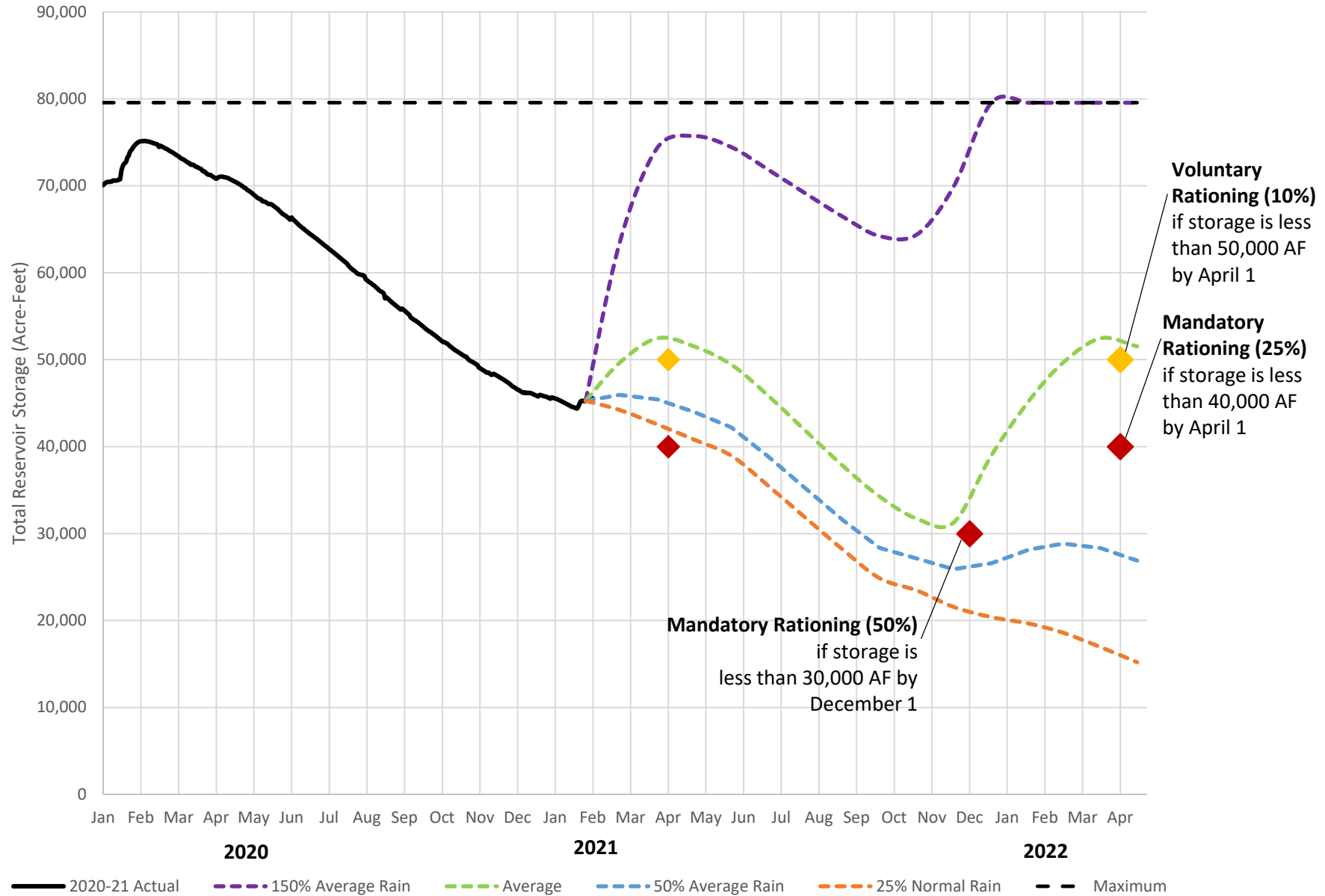
Planned FY 21 Water Purchases

NMWD May Fill Stafford further reducing our access to supplemental water for ~6 weeks.



Storage Projections

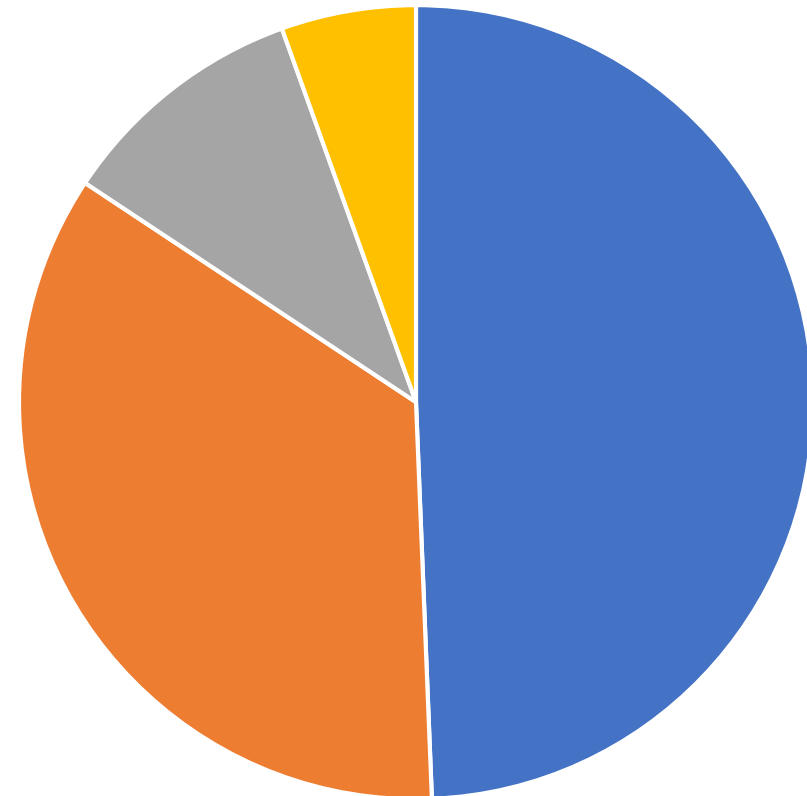
Projected Reservoir Storage



Annual System Demand

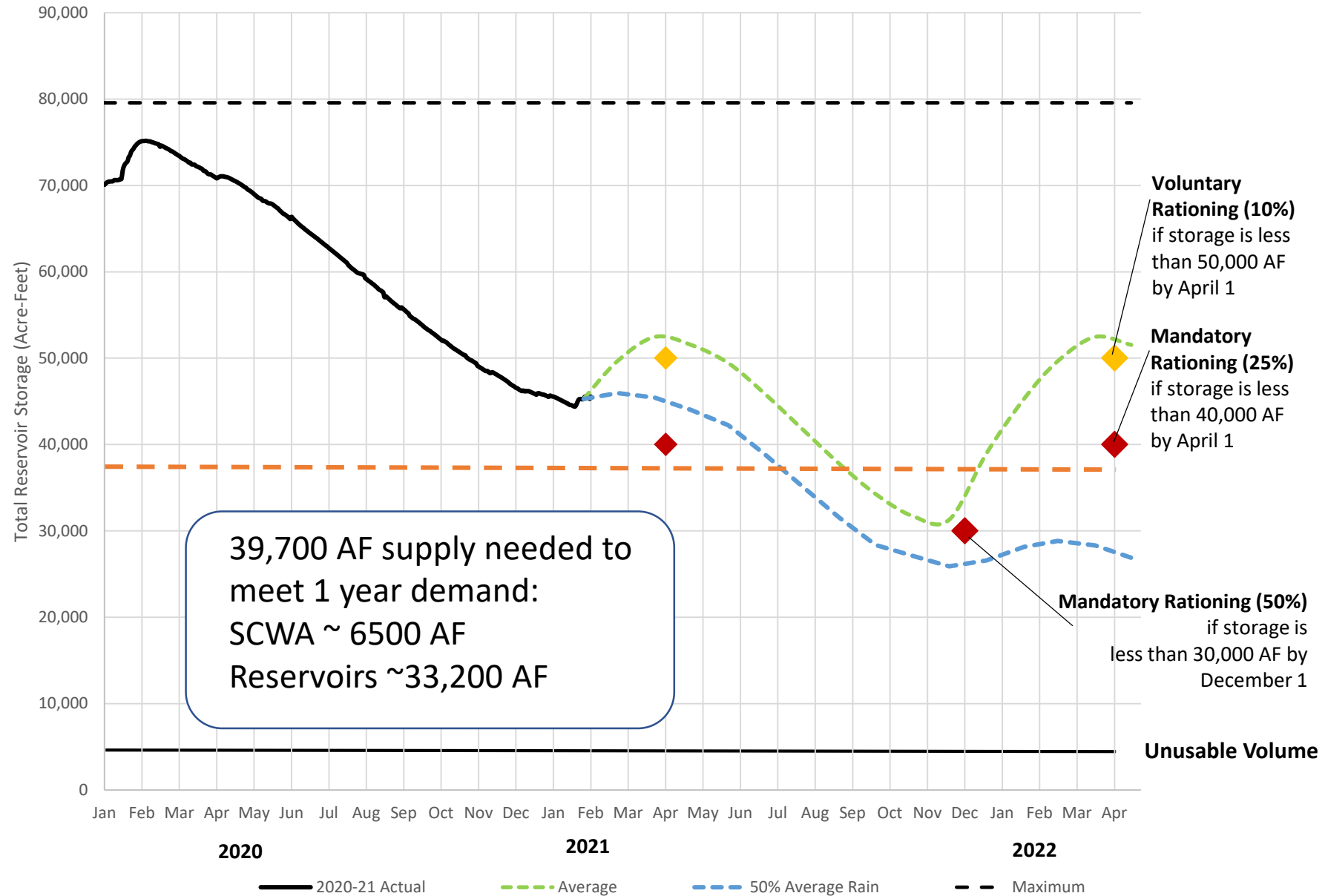
- Potable uses ~ 19,350 AF
- Environmental ~ 13,700 AF
- Evaporation ~ 4,500 AF
- System Losses ~ 2,150 AF

• Total Demand ~39,700 AF



■ Potable ■ Environmental ■ Evaporative ■ System Loss

Projected Reservoir Storage



Historic Conditions

	2021	2020	2013	1990	Average
April 1 Storage [AF]	45,439*	70,988	74,282	48,748	73,500
Dec 1 Storage [AF]	25,904*	47,161	48,353	29,321	52,549
Annual ¹ Rainfall [in]	--	20.5	10.7	26.2	52
Annual ¹ Runoff [AF]	--	14,360	21,300	19,200	86,700

* = Projected, normal conservation

1 = Calendar Year

- 2nd Lowest rainfall in past 90 years
- Runoff lower than past 2 droughts
- Projected level of storage lower than drought of 1990

Drought Response

Increase / Optimize Supply

- Utilize seldom tapped reservoirs:
 - Phoenix Lake - in progress, 38 AF
 - Soulajule – Generator rental approved by Board February 2
- Optimize Supplemental Water
 - 85% of normal annual allotment already taken
- Rehabilitation of Kastania PS -
- Startup of Recycled Water operations ~ April 2021
- Develop access to unusable water in reservoirs
- Exploring change to environmental releases
- Reviewing other emergency projects



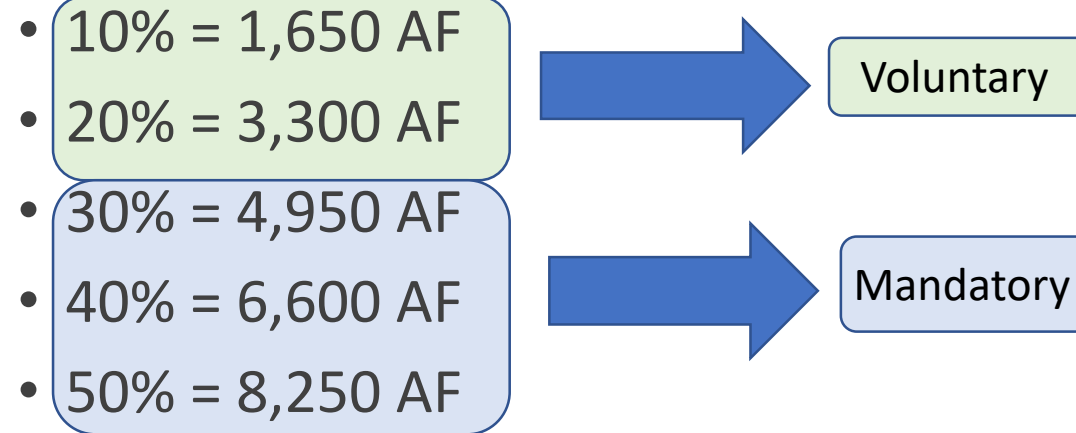
Alpine Lake Pump discharge

Increase Conservation and Public Awareness

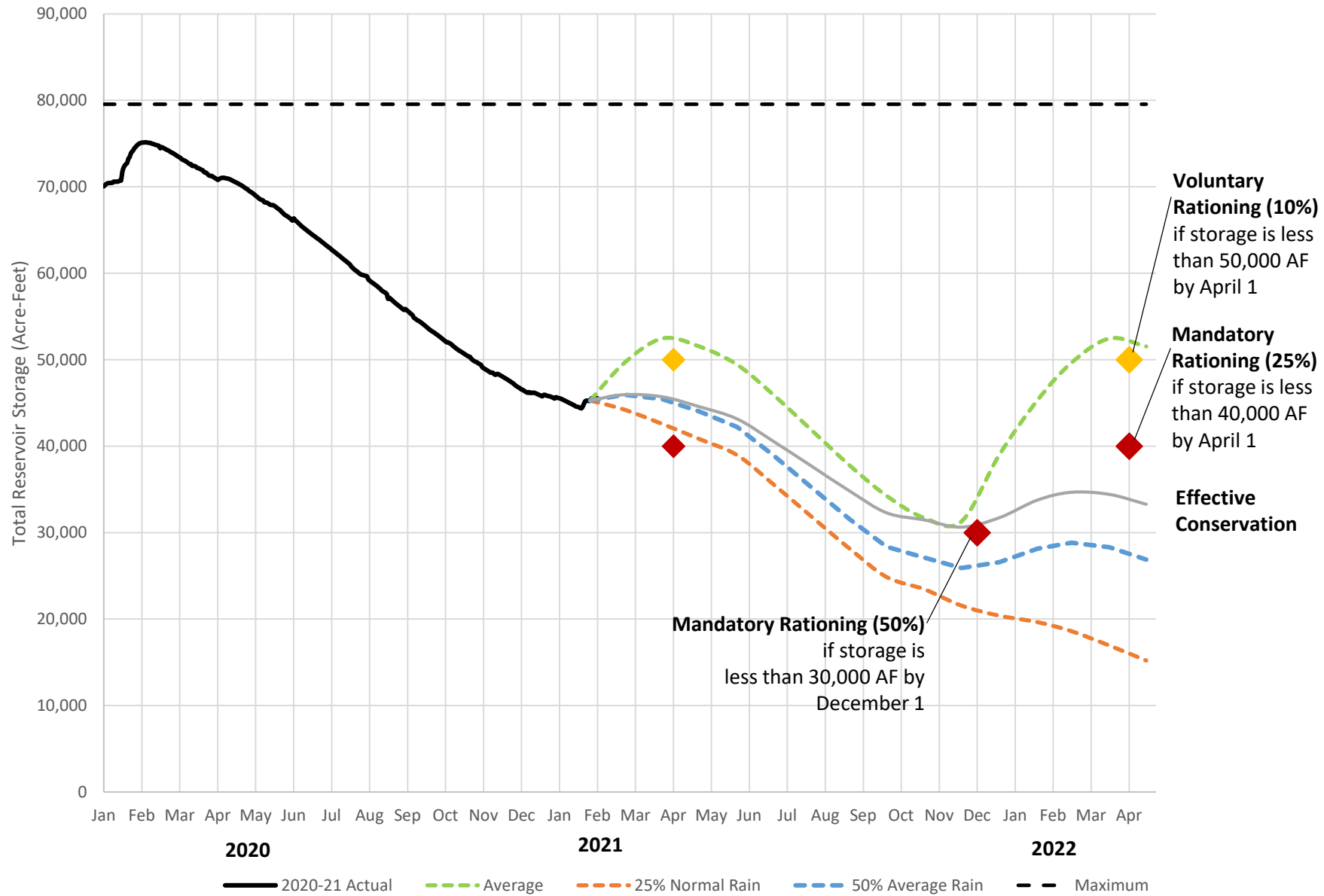
- Water Shortage Contingency Plan activated by storage levels:
 - April 1 - Voluntary measures (10%) – 50,000 AF
 - April 1 - Mandatory measures (25%) – 40,000 AF
 - Dec 1 – Mandatory measures (50%) – 30,000 AF
- Historically levels have not really been tested
- Storage projection data suggest support for earlier action

Conservation Savings (25%) Apr-December

- Summer Potable ~16,500 AF
- Conservation savings by Level:



Effect of Conservation (25%) on Storage Levels



SUMMARY

- Rainfall and Runoff historically low
- Storage levels are significantly lower than average, projections lower than drought of 1990s
- Storage levels 25,000 to 30,000 AF Dec 1
- Efforts to optimize water supply are underway
- Effect of conservation on water supply is critical yet has limits in the short term
- Historic conditions warrant an early and effective start to our drought response

