

SCV WATER

UPDATES TO WATER OPERATING PLAN & WATER CONSERVATION RESPONSE ACTIONS



Water Resources & Watershed Committee
Item No. 5
September 14, 2022

OVERVIEW

Drought Status

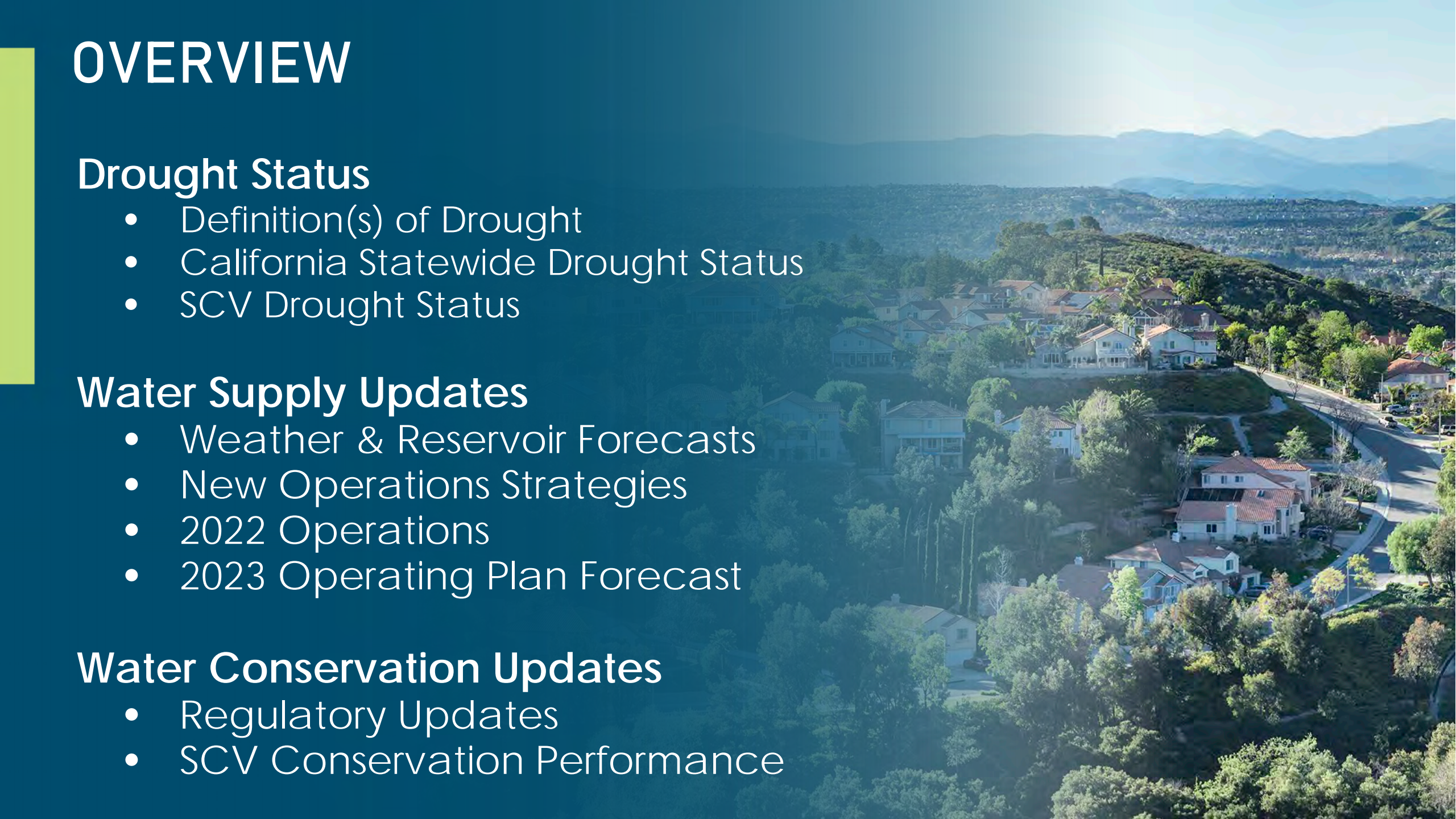
- Definition(s) of Drought
- California Statewide Drought Status
- SCV Drought Status

Water Supply Updates

- Weather & Reservoir Forecasts
- New Operations Strategies
- 2022 Operations
- 2023 Operating Plan Forecast

Water Conservation Updates

- Regulatory Updates
- SCV Conservation Performance





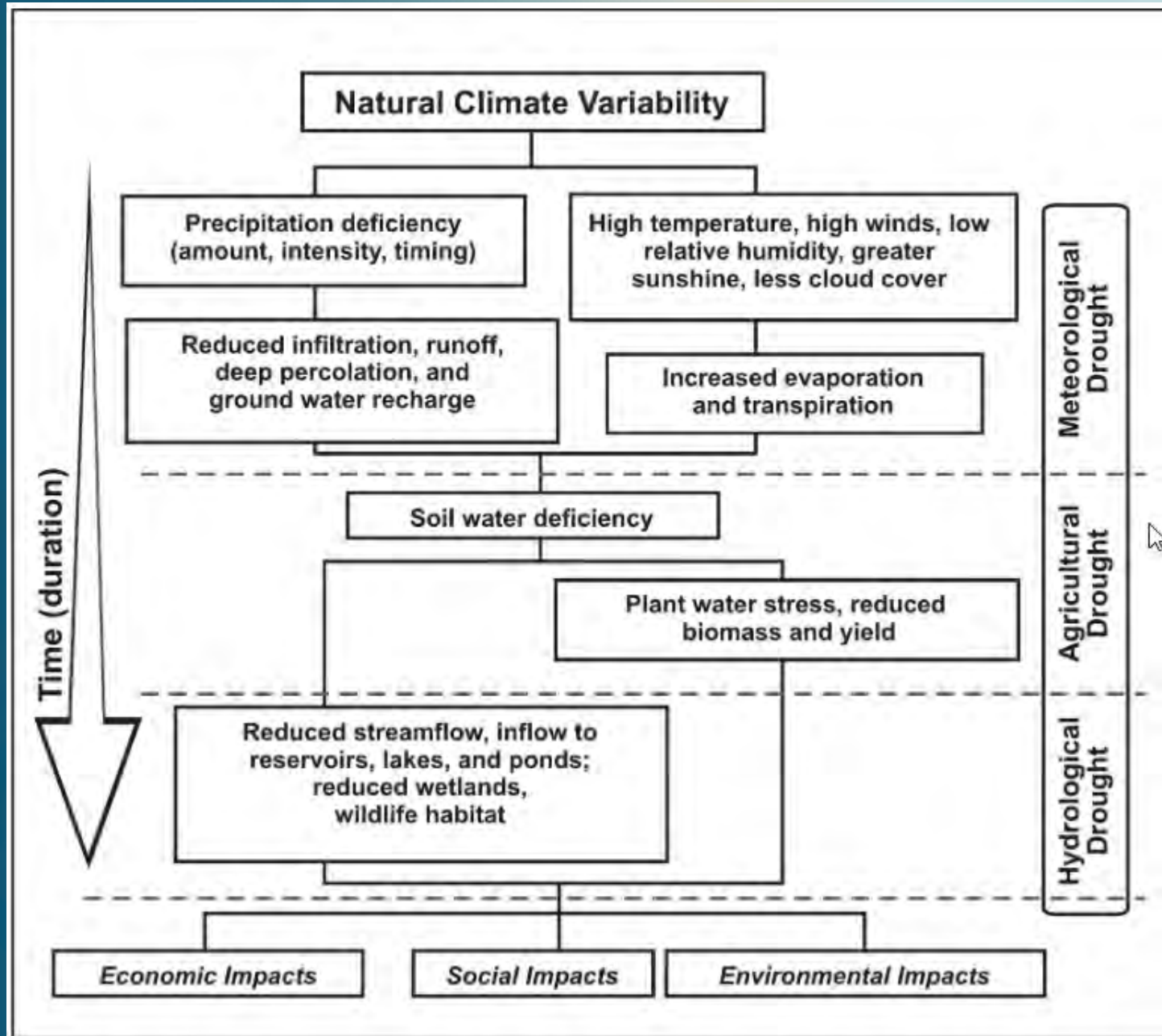
DROUGHT STATUS

DROUGHT DEFINITION(S), STATE & LOCAL
DROUGHT STATISTICS

DEFINITION(S) OF DROUGHT

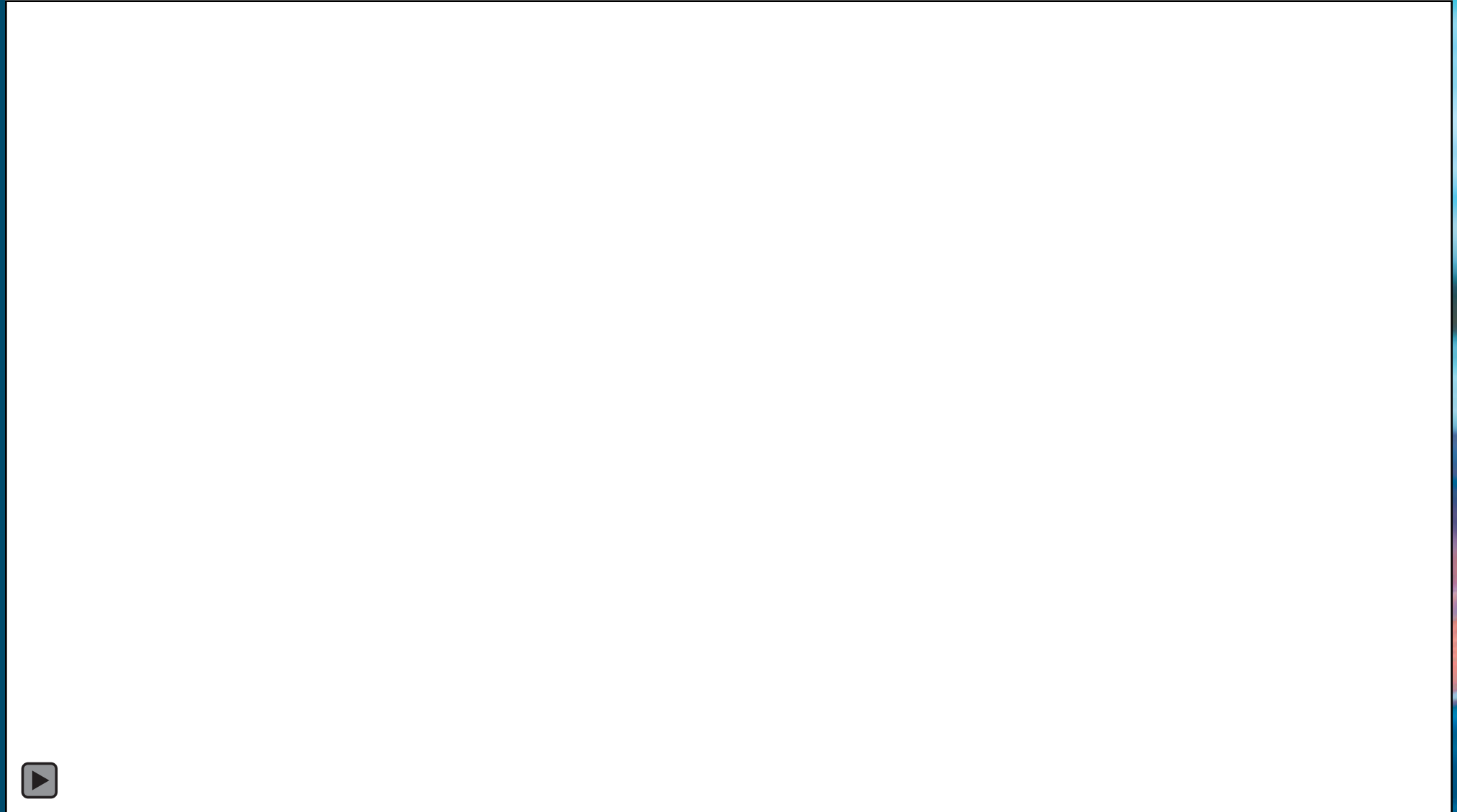
What is Drought?

A drought is defined as “a period of abnormally dry weather sufficiently prolonged for the lack of water to cause service hydrologic imbalance in the affected area.” – Glossary of Meteorology (1959)



Sequence of drought occurrence and impacts for commonly accepted drought types. All droughts originate from a deficiency of precipitation or meteorological drought but other types of drought and impacts cascade from this deficiency. (Source: NDMC)

DEFINITION(S) OF DROUGHT



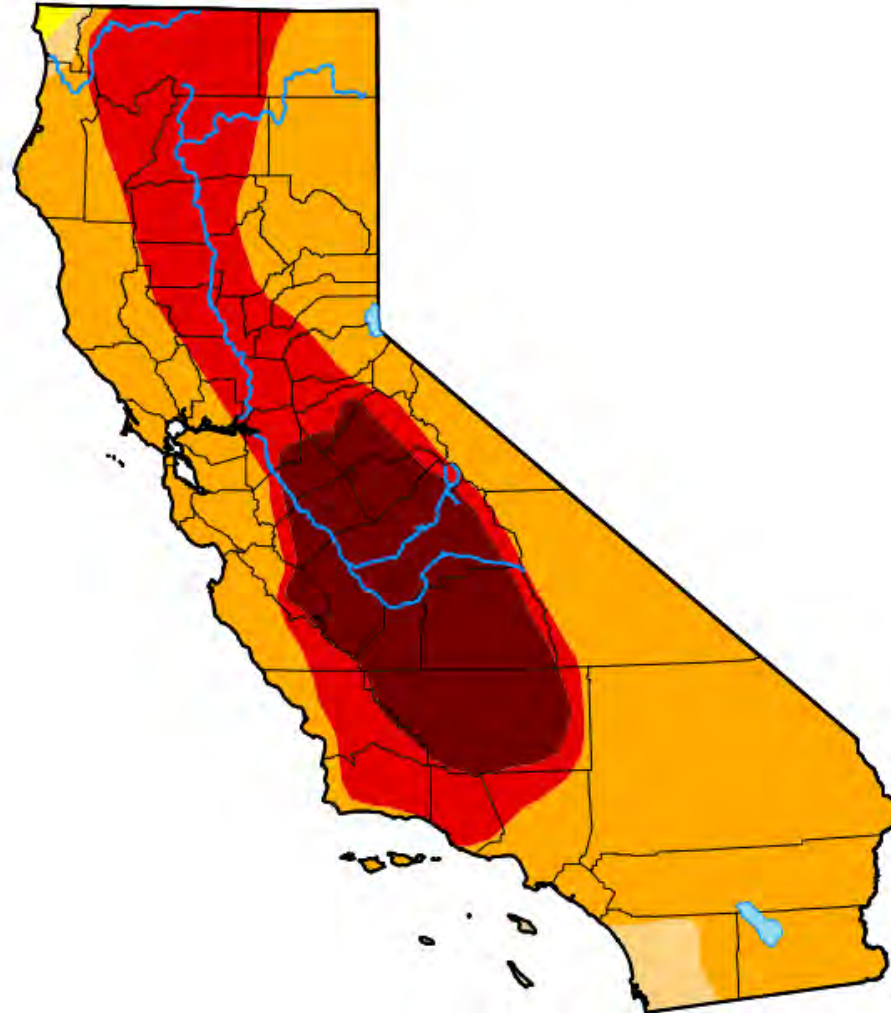
Source: <https://drought.unl.edu/archive/media/usdm/USDMSOverview.mp4>

CA DROUGHT STATISTICS

U.S. Drought Monitor California

September 6, 2022
(Released Thursday, Sep. 8, 2022)

Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	99.76	97.52	40.18	16.57
Last Week <i>08-30-2022</i>	0.00	100.00	99.76	97.52	40.18	16.57
3 Months Ago <i>06-07-2022</i>	0.00	100.00	99.79	97.48	59.81	11.59
Start of Calendar Year <i>01-04-2022</i>	0.00	100.00	99.30	67.62	16.60	0.84
Start of Water Year <i>09-28-2021</i>	0.00	100.00	100.00	93.93	87.88	45.66
One Year Ago <i>09-07-2021</i>	0.00	100.00	100.00	93.93	87.94	45.66

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

David Simeral
Western Regional Climate Center

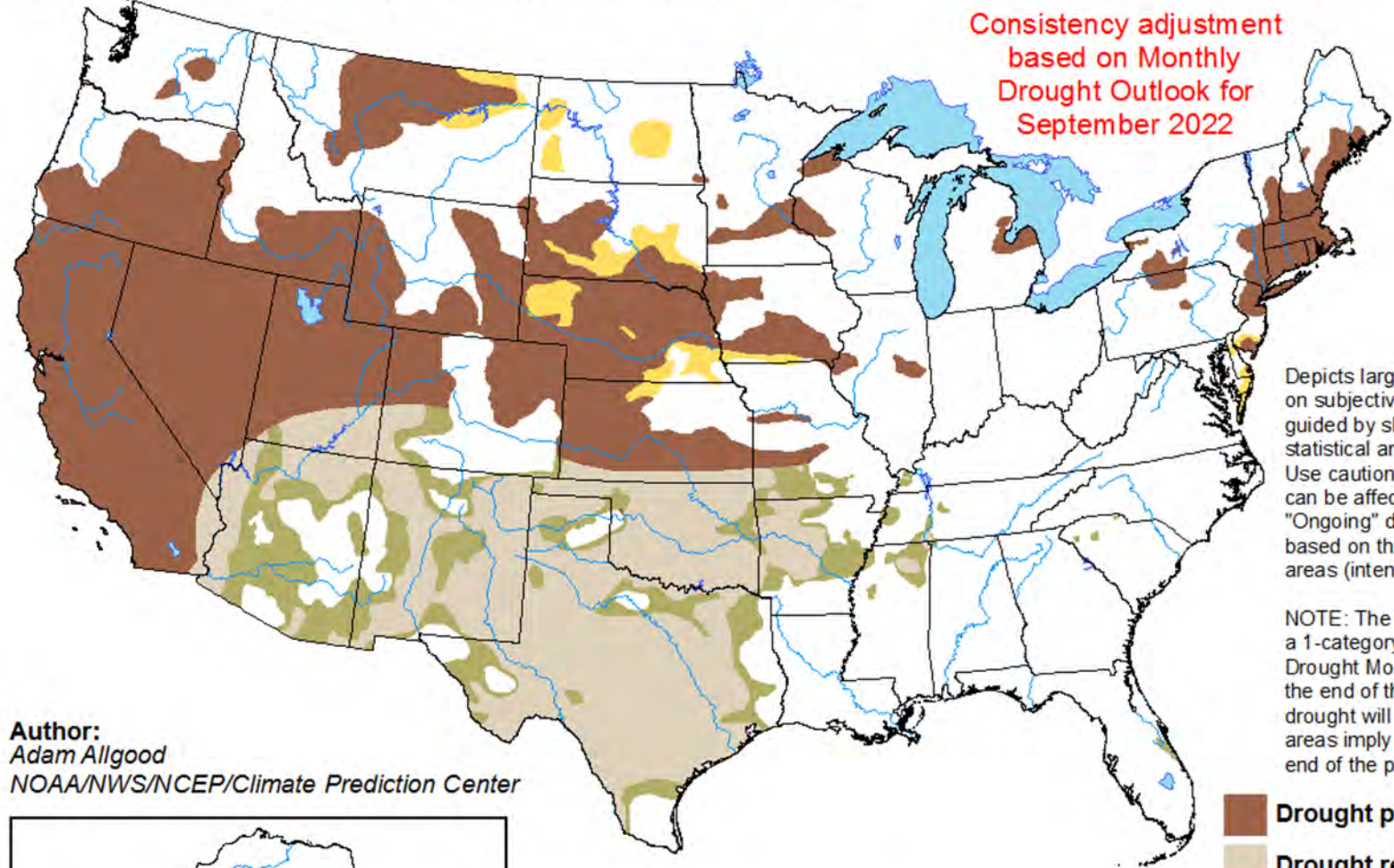


droughtmonitor.unl.edu

DROUGHT OUTLOOK (SEP-NOV)

U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

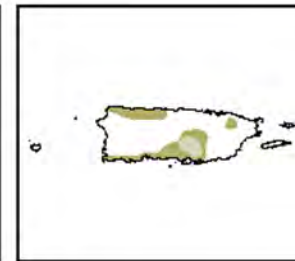
Valid for September 1 - November 30, 2022
Released August 31, 2022







Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
Adam Allgood
NOAA/NWS/NCEP/Climate Prediction Center



-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



<http://go.usa.gov/3eZ73>

LOCAL WEATHER STATISTICS – AUGUST 2022

LOCAL ET & PRECIPITATION

*CIMIS 204



Evapotranspiration (2022 v. 2020)

- Current Month → - 0.02%
- Year to Date → +11.0%



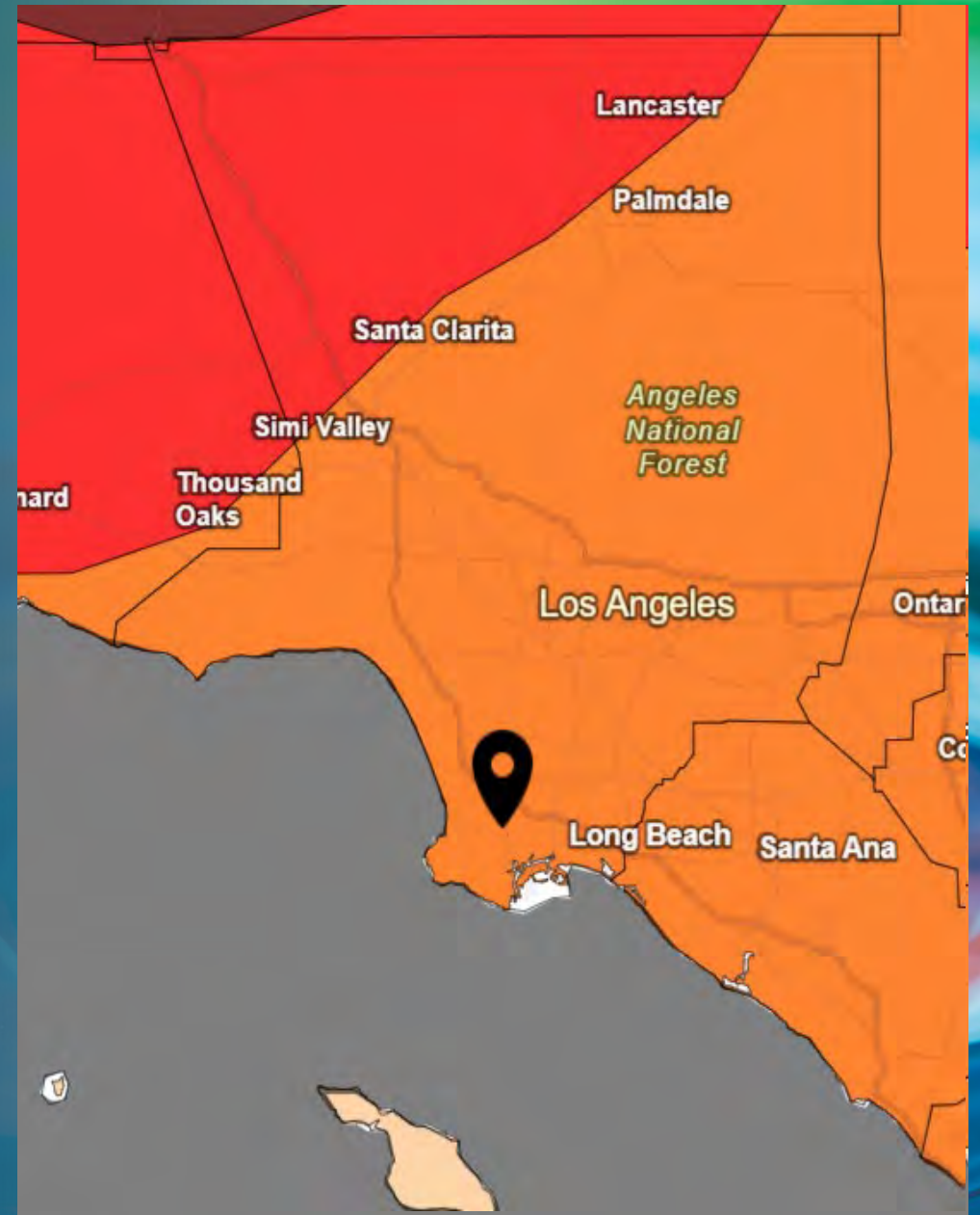
Precipitation (2022 v. 2020)

- Current Month → 0.00"
- Calendar Year to Date → -77.8%
- Water Year to Date → -12 %



Temperatures (Avg. Max Air Temp)

- 2022 → 97.3
- 2020 → 96.8



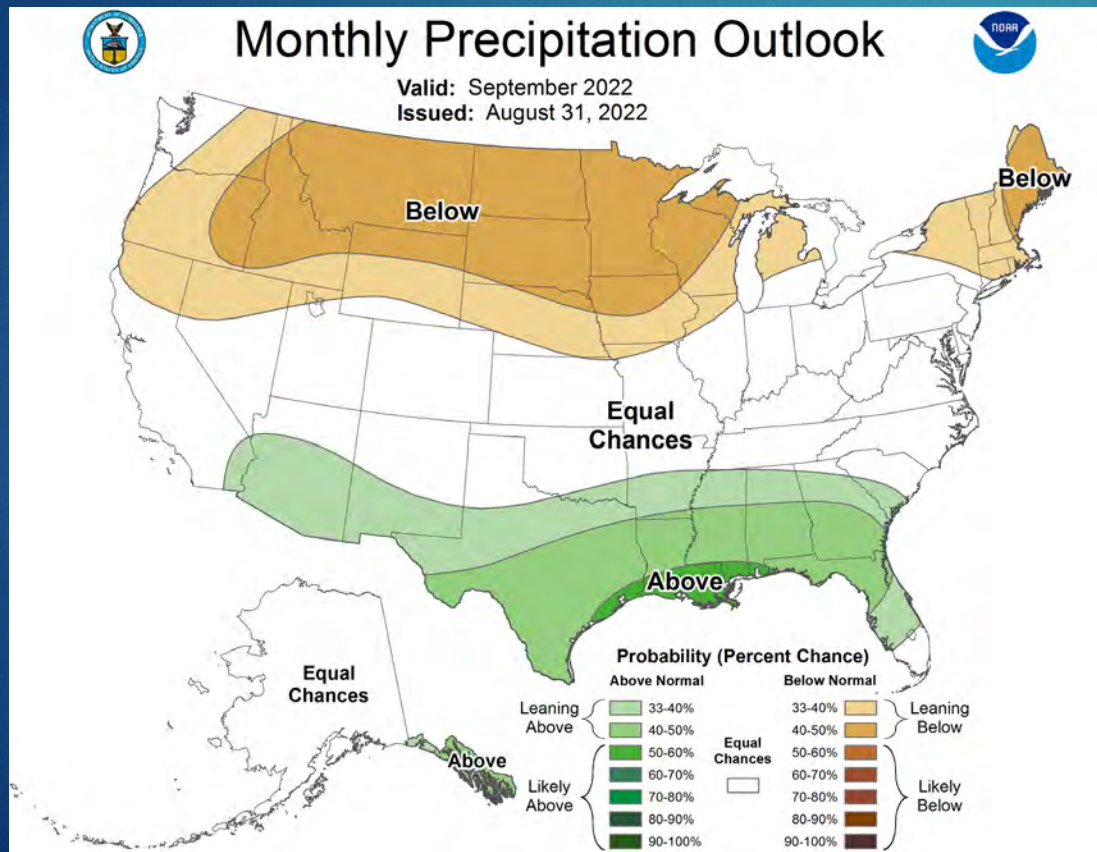
Source: [Drought.gov/states/California/county/los%20angeles](https://drought.gov/states/California/county/los%20angeles)



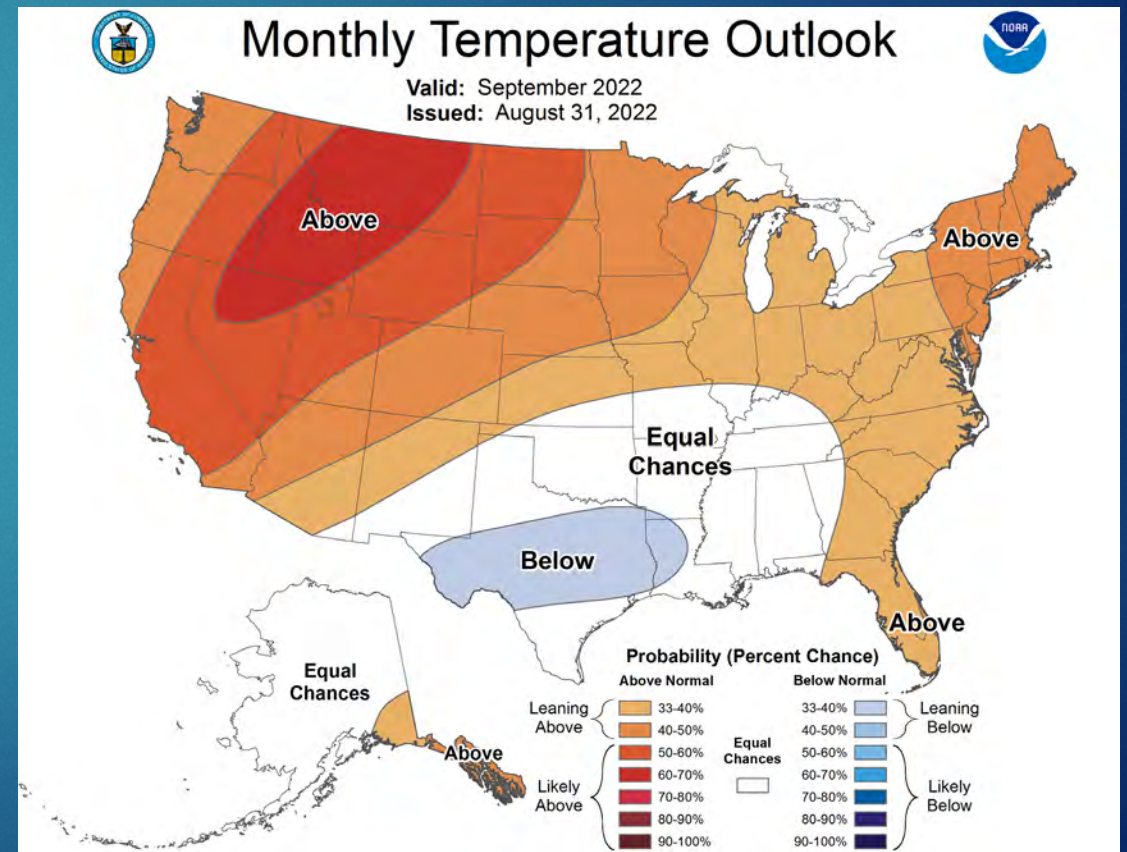
WATER SUPPLY UPDATES

One Month Outlook - September

Precipitation



Temperature

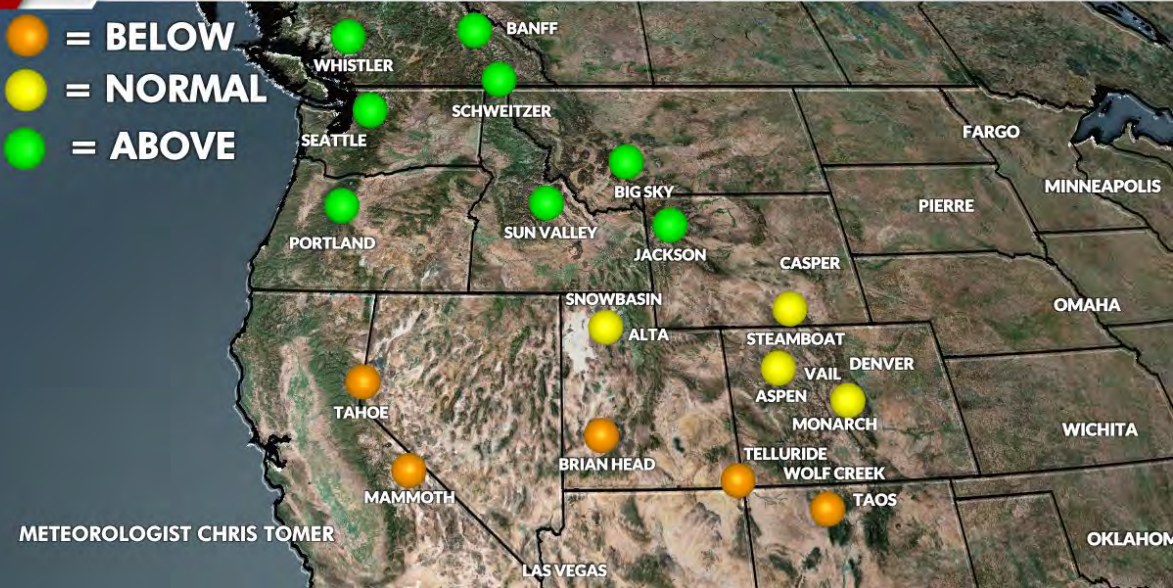


Triple-dip La Nina

PINPOINT WEATHER

2022-2023 WINTER FORECAST

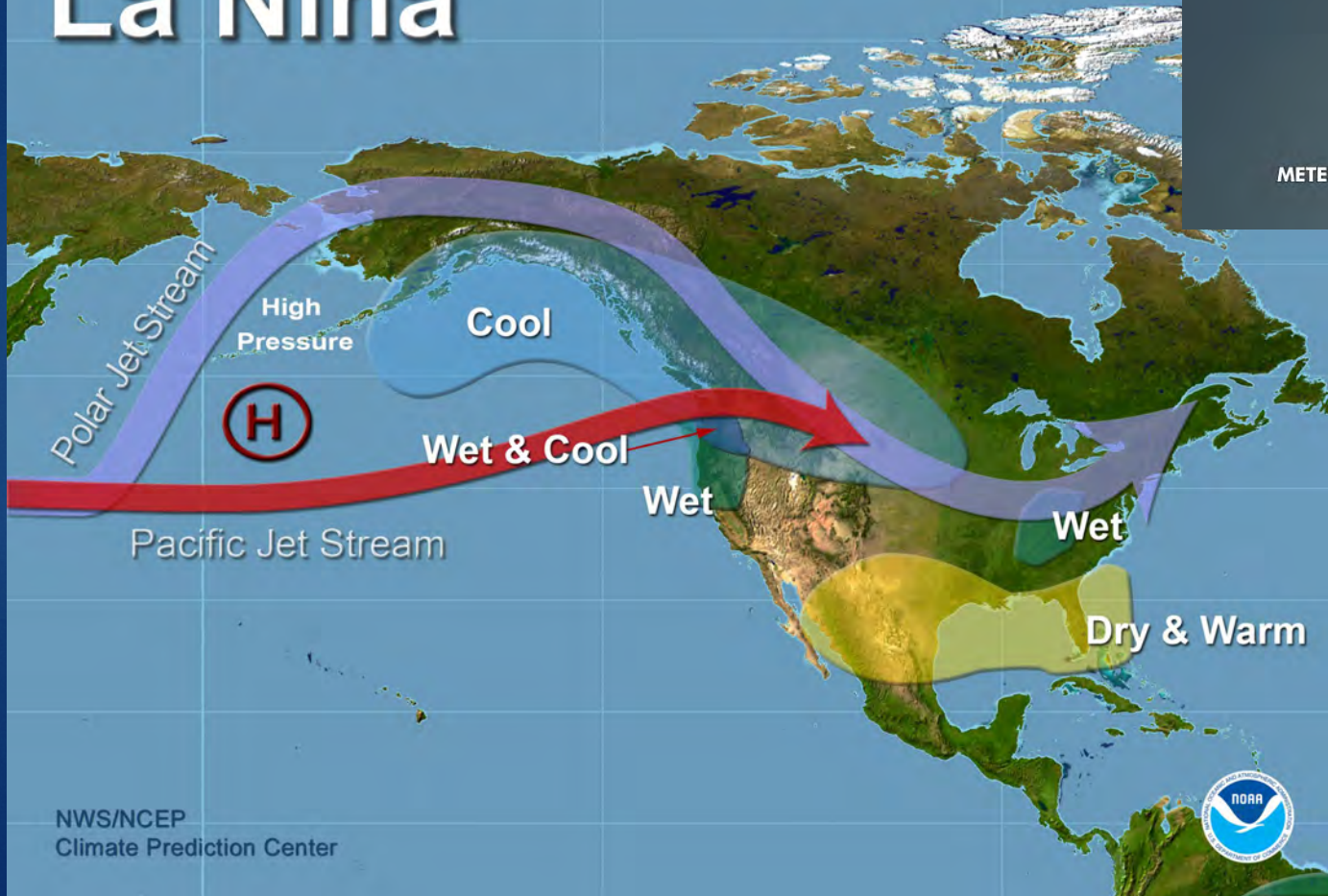
- = BELOW
- = NORMAL
- = ABOVE



METEOROLOGIST CHRIS TOMER

Typical Wintertime Pattern

La Niña



NWS/NCEP
Climate Prediction Center

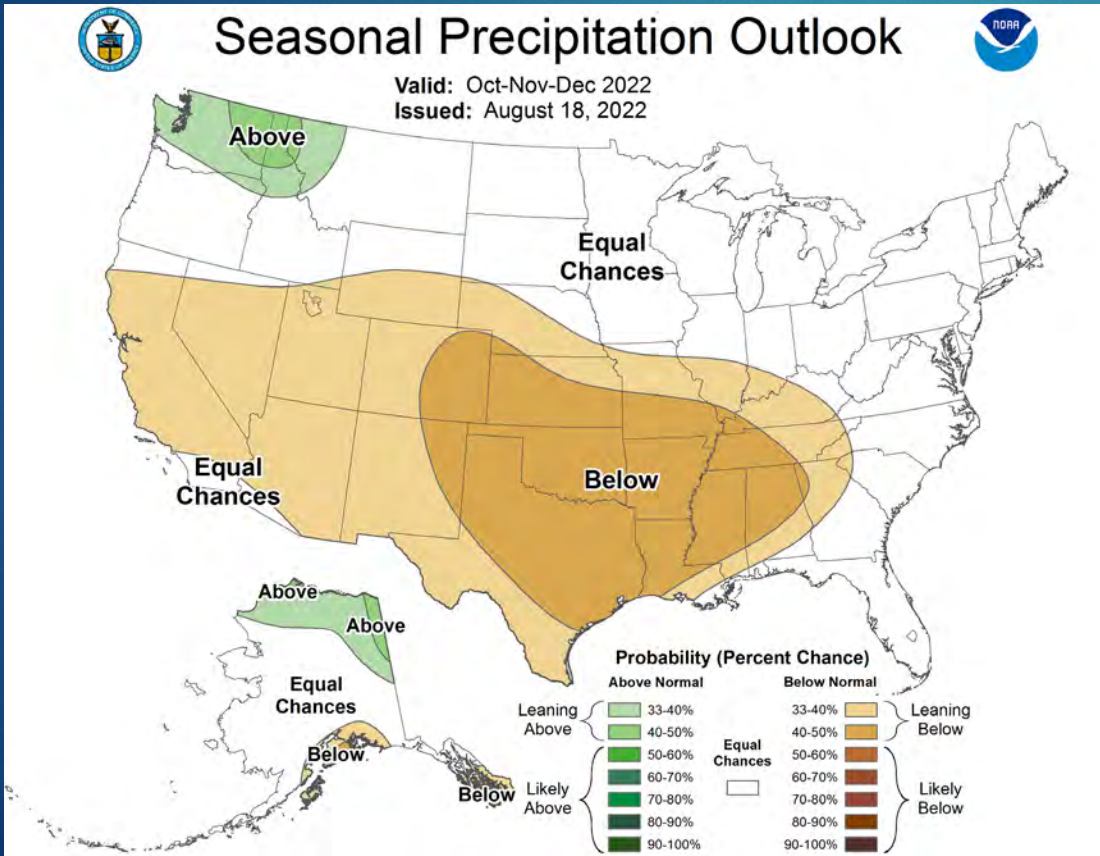
3 Consecutive La Niña Winters

- Very Rare
- Occurs every 20-22 years
- Increased chance of warmer and drier than normal conditions in the Southwest, especially the southern half
- Model predictions call for another dry water year influenced by dominant eastern Pacific high-pressure system

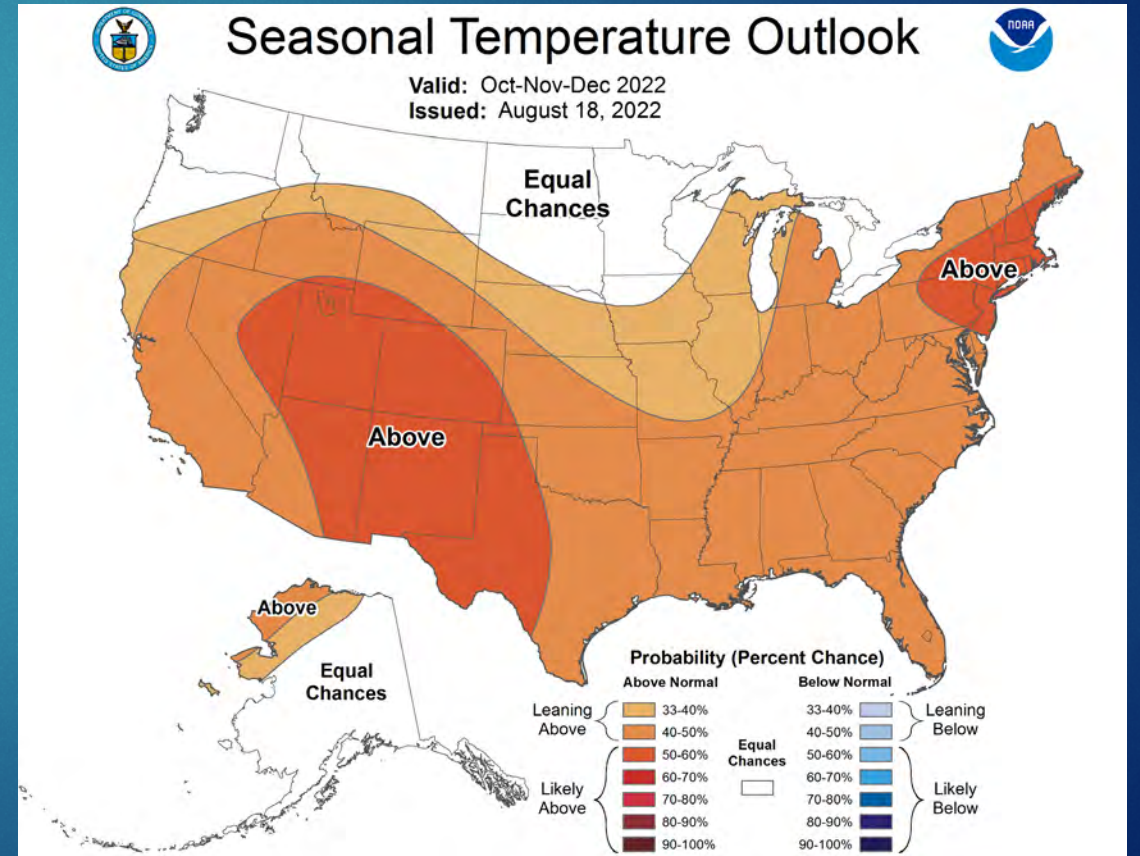
Three Month Outlook (Oct-Nov-Dec)



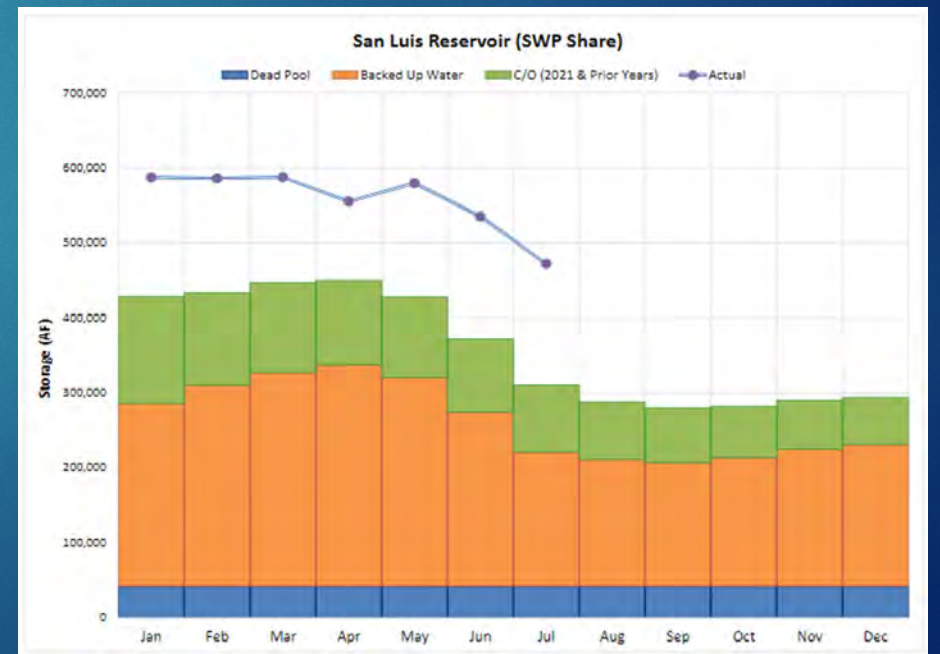
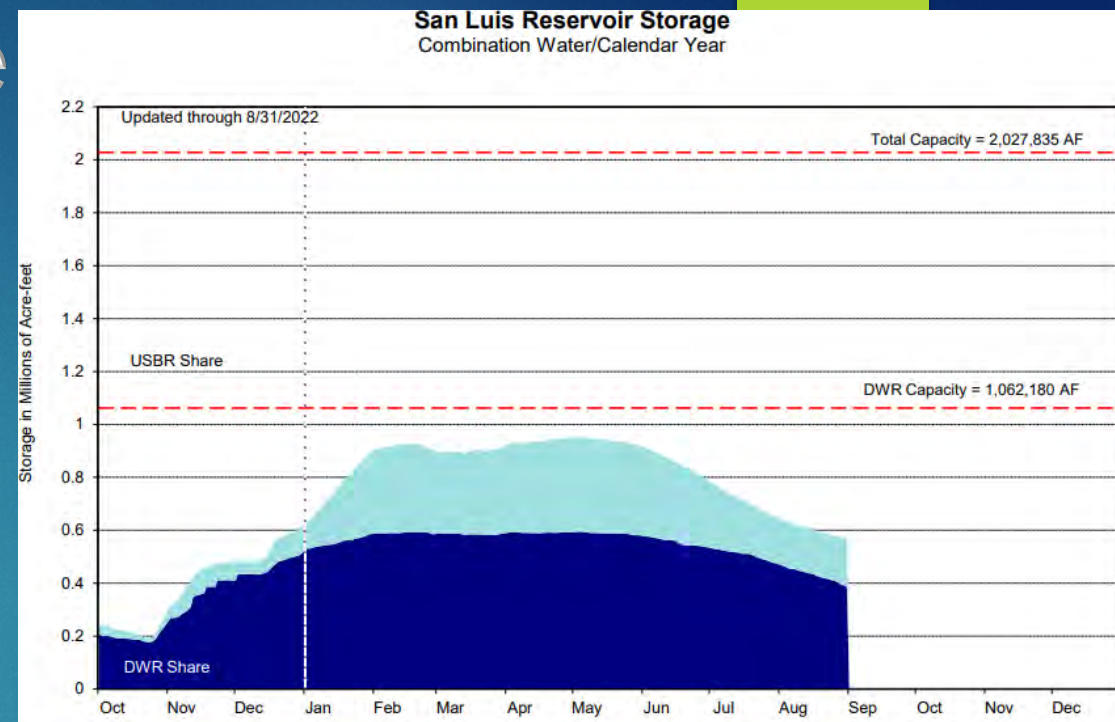
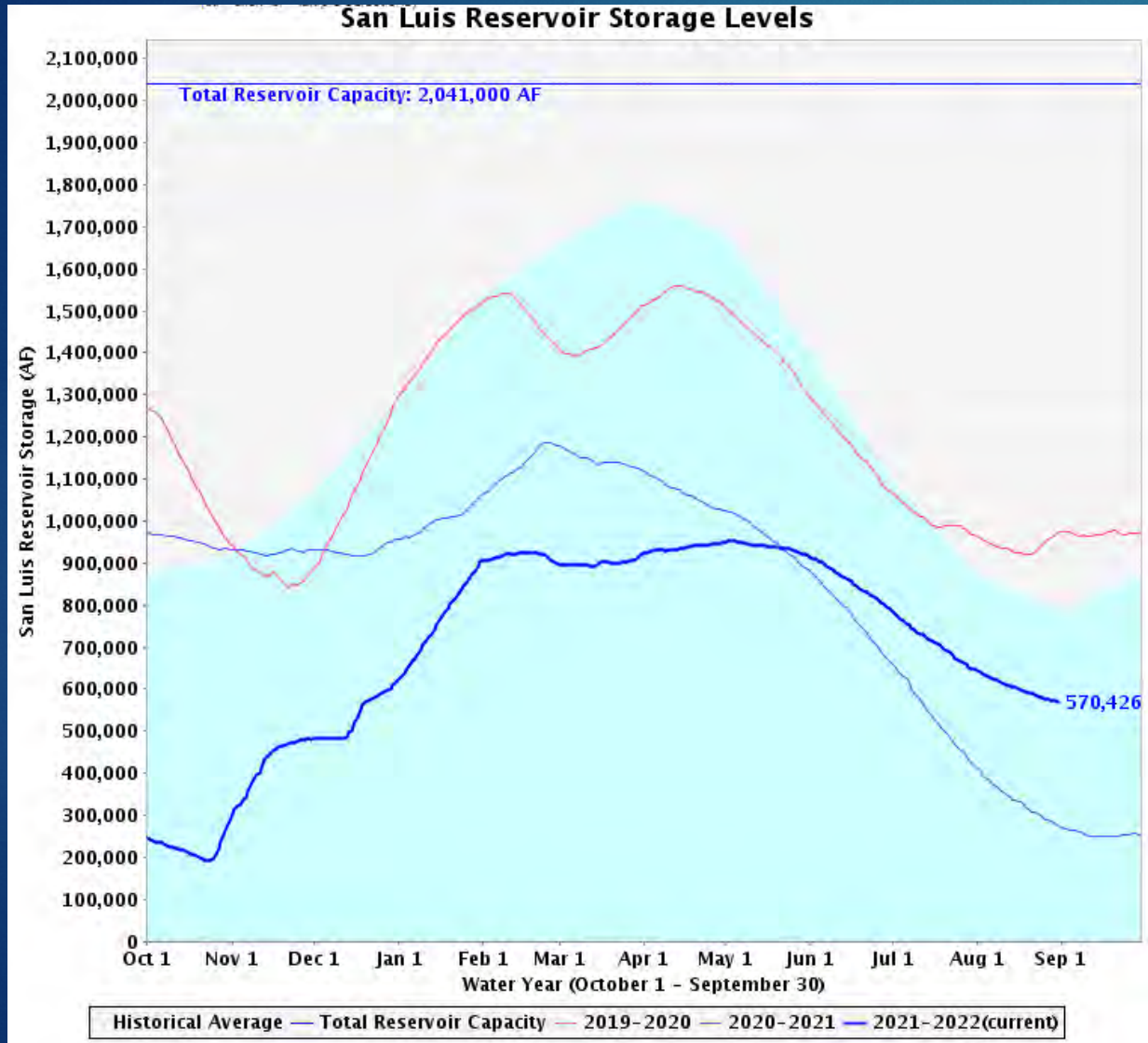
Precipitation



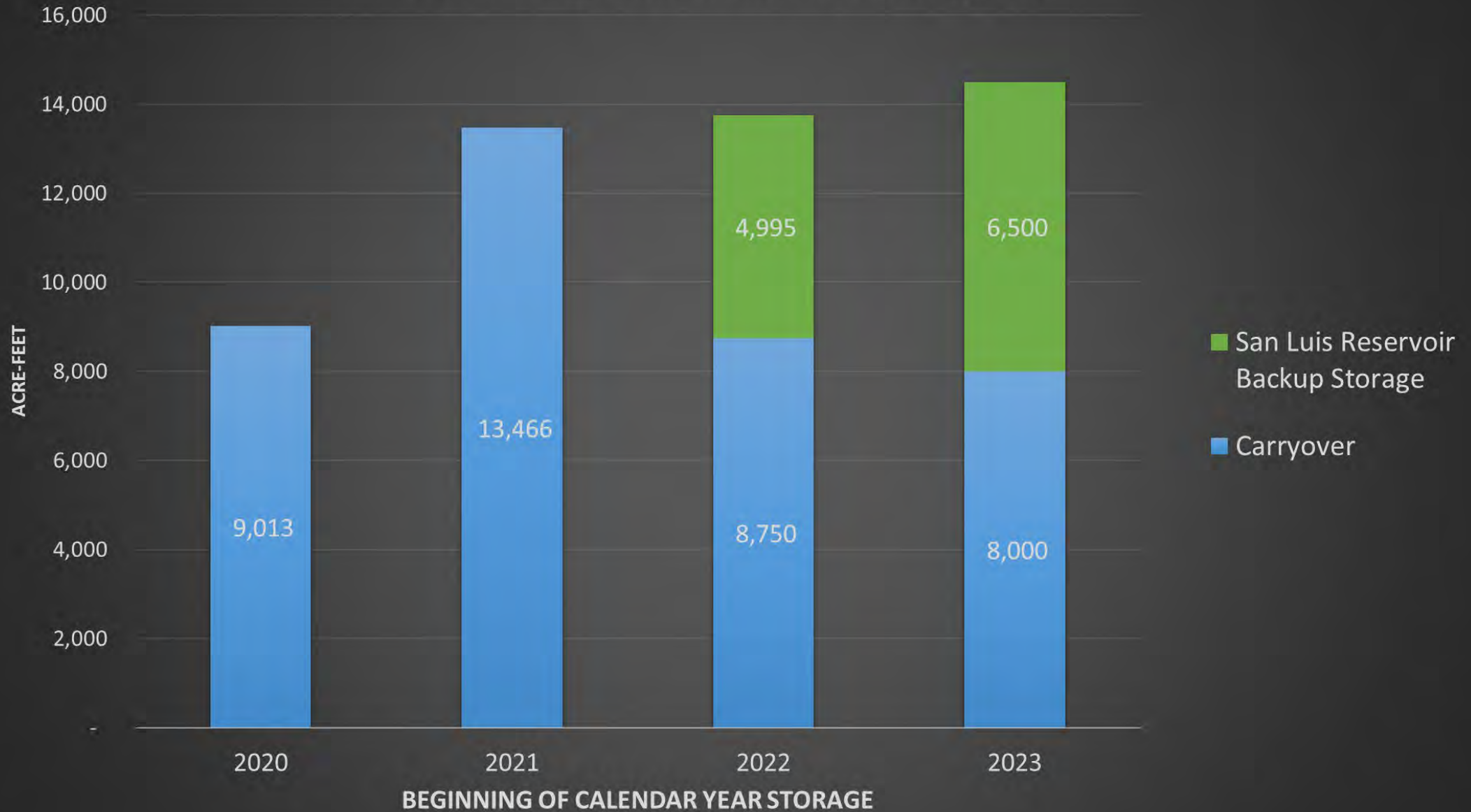
Temperature



San Luis Reservoir Storage



New Operations Strategies



2022-2024 Operating Plan (August 2022) Assumes Stage 2 - 2023 through 2024	2022 5% SWP Allocation	2023 5% SWP Allocation	2024 5% SWP Allocation
Demand (assumed 2% increase per year)	71,100	72,500	74,000
Groundwater	22,800	24,500	30,000
Alluvium	13,700	14,000	16,000
Saugus	9,100	10,500	14,000
Recycled Water	450	700	1,000
Imported Demand	47,850	47,300	43,000
Imported Supplies			
SWP Table A	4,760	4,760	4,760
BVRRB	11,000	11,000	11,000
Total Available Imported Supplies	15,760	15,760	13,760
<i>Excess Imported Supplies (neg = shortfall)</i>	<i>(32,090)</i>	<i>(31,540)</i>	<i>(29,240)</i>
Dry Year Water Supplies			
SWP Carryover Delivered (not always guaranteed)	13,500	17,750	18,085
Rosedale Banking	20,000	15,000	10,000
Semitropic Enhanced Recovery Unit (Banking)	5,000	5,000	5,000
Yuba Accord	675	1,000	1,000
Flexible Storage (up to 6,060 AF)			
Stage 2 Conservation Demand Reduction (15% of demands)	10,665	10,875	11,100
Total Imported & Dry Year Supplies	54,935	54,510	47,845
SWP Carryover into next year (neg = shortage)	17,750	18,085	15,945



REGULATORY UPDATES & WATER SHORTAGE CONTINGENCY PLAN

STATE & SCV WATER

REGULATORY UPDATES



1. GOVERNOR/SWRCB EMERGENCY DECLARATIONS

- April 21, 2021 (2 Counties)
- May 10, 2021 (Extended to 41 Counties)
- July 9, 2021 (Extended to 50 Counties & 15% Voluntary Conservation v. 2020)
- September 21-22 (State Water Resources Control Board Monthly Reporting)
- October 19, 2021 (Drought Emergency Extended to Include All Counties)
- January 4, 2022 (SWCRB Adopts Emergency Regulations)
- **May 24, 2022 (Effective June 16, 2022 - SWRCP Adopts Emergency Reg 2022-0018, Requires Stage 2 Measures & Bans Non-functional Turf for CII, HOA, and Common Interest Developments)**

2. SCV WATER – WATER SHORTAGE CONTINGENCY PLAN/WATER CONSERVATION AND WATER SUPPLY SHORTAGE ORDINANCE

- **4/26/2022 (SCV Water Enacts Stage 2 WSCP & Ordinance)**
- 11/16/2021 (SCV Water Enacts Stage 1 WSCP and Ordinance)
- Conservation Program Uptake Increasing
- Drought Communication & Engagement Enhancements



SCV WATER – WSCP & ORDINANCE

WSCP Level 2 Strategy
Moderate Shortage



**DROUGHT
READY SCV**

WSCP STAGE 2- DROUGHT PROGRAMS

Conservation Programs:

- Lawn Replacement Rebates
- Drought Ready Check-Ups
- Smart Controller Rebates
- HELP Rebates (HE Irrigation Improvements)
- Drip Conversion Rebates
- Irrigation Check-Ups
- Online Workshops
- Education Classes



WSCP STAGE 1 – WATER WASTE RESTRICTIONS

Restrictions:

- Allowing Runoff
- Washing cars without hose nozzle
- Using water to wash down sidewalks, driveways, and hardscapes
- Irrigating during and within 48 hours of measurable rain (.25 inch)
- Using fountains without recirculating pump
- Watering turf on public medians



WSCP STAGE 2 – WATERING LIMITS

Restrictions:

- **Water Waste Restrictions (As noted in Stage 1)**
- **Limits on Watering Days to 3 Day per Week Watering**
 - Odd Addresses (M,W,F)
 - Even Addresses (T,Th,Sun)
 - No Watering on Saturdays
- **Limits on Watering Station Run Times (Duration)**
 - Two 5-minute cycles (10 minutes max)
- **Watering Times (Time of Day)**
 - Nov-Apr → 6 PM to 10 AM
 - May-Oct → 8 PM to 9 AM



SWRCB EMERGENCY REGULATIONS – NON-FUNCTIONAL TURF BAN



SWRCB 2022-0018 Bans the Watering of Non-functional turf with potable water;



- **Customer Impact:** Commercial, Industrial, and Institutional customers including Homeowners Associations and Common Interest Developments
- **Non-Functional Turf Definition:** mowed grass that is ornamental and not otherwise used for human recreation purposes. NFT does not include school fields, sports fields, and areas regularly used for civic or community events
- **Exemption:** Areas needed to water Trees, Perennials, and Native/Drought tolerant grasses (.3 Kc or demonstrated use less than 40% of local Evapotranspiration)



SWRCB EMERGENCY REGULATIONS – NON-FUNCTIONAL TURF BAN (CONTINUED)



SWRCB 2022-0018 Bans the Watering of Non-functional turf with potable water;



- **Enforcement:** Enables agencies with enforcement authority (SCV Water, City, LA County) including the State Water Board to enforce the NFT ban:
 - SCV Water evaluating current enforcement role;
 - Agency prioritizing education, engagement, and programmatic support
- **Duration:** Effective June 16, 2022, for 1 year period (may be extended)
- **SCV Water Recommendation:** Customers should turn off irrigation to NFT areas immediately and prepare landscape modifications in Spring/Fall when weather is cooler. Prioritize Trees, Perennials, and consider SCV Water’s Drip Irrigation & Lawn Replacement Program





SCV WATER DEMAND PERFORMANCE

NORMAL CONSERVATION & DROUGHT RESPONSE
TARGETS

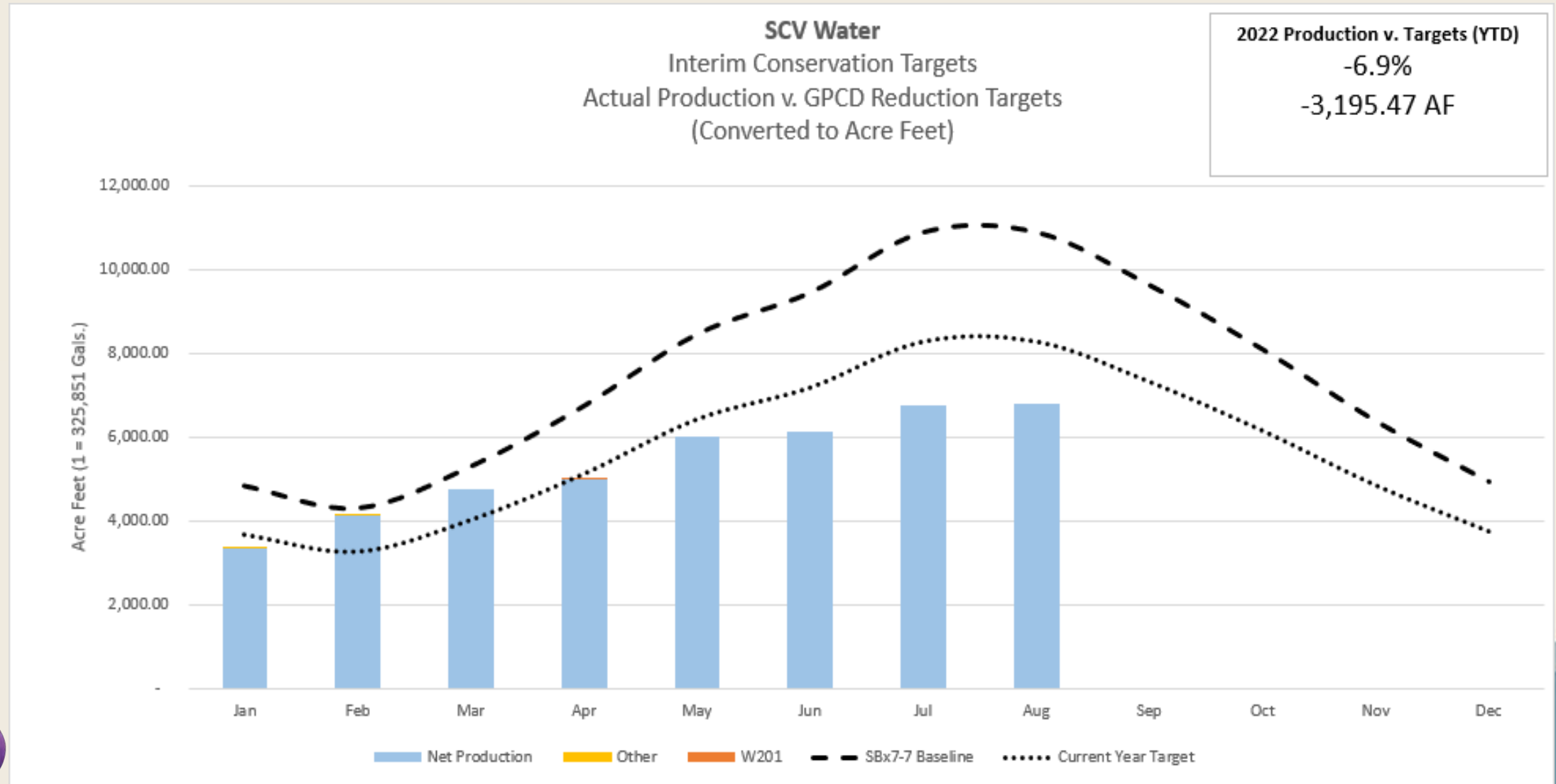
SCV WATER DEMAND PERFORMANCE

DEMAND/CONSUMPTION PERFORMANCE

1. Normal Conservation Target Performance
(24% GPCD Reduction by 2022)
2. Drought Conservation Target (15% v. 2020)
3. Statewide and Regional Drought Performance
(SWRCB Monthly Reports)

INTERIM CONSERVATION TARGET – PERFORMANCE

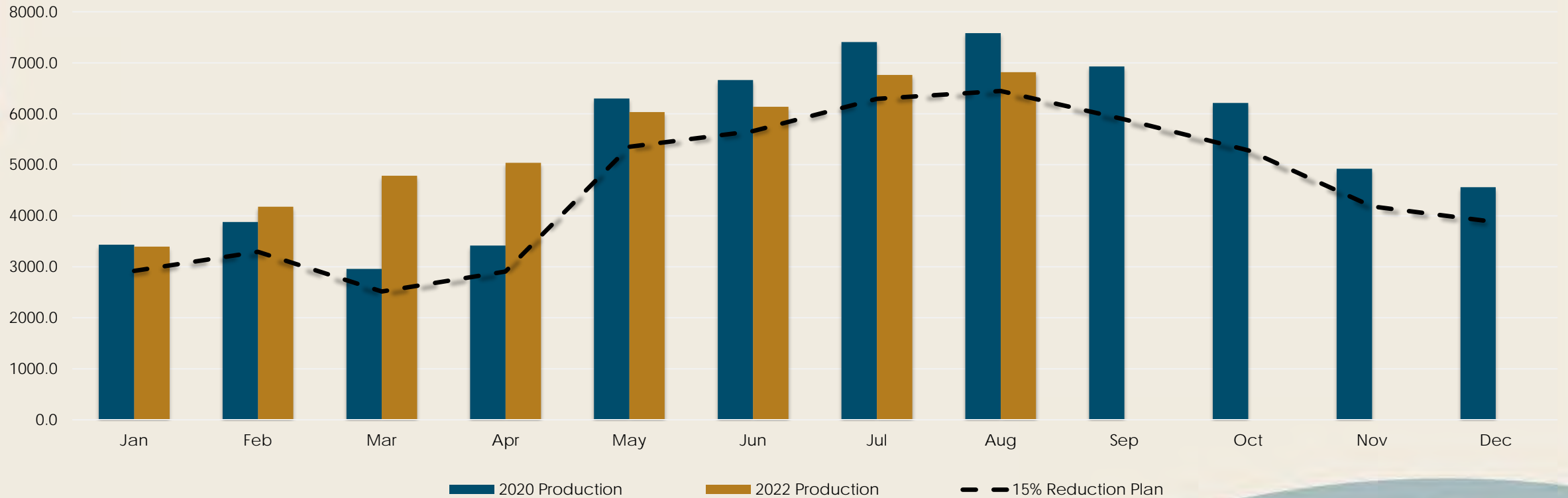
INTERIM WATER CONSERVATION TARGET (24% GPCD REDUCTION BY 2022)



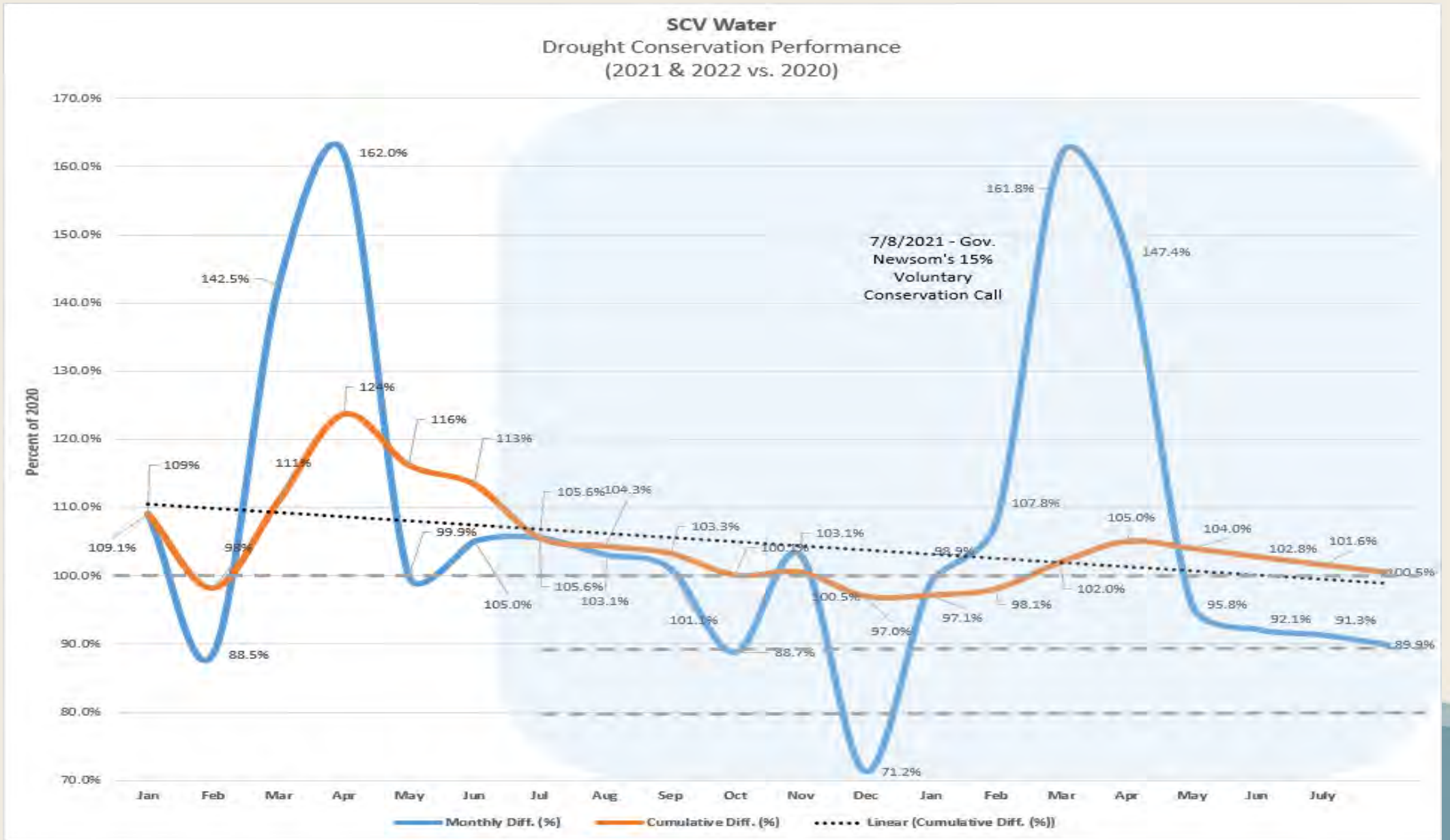
DROUGHT CONSERVATION TARGET

VOLUNTARY DROUGHT CONSERVATION TARGET (15% V. 2020)

SCV Water
Monthly Production vs. 15% Reduction Plan (Ac-ft)



DROUGHT CONSERVATION TARGET



DROUGHT CONSERVATION TARGET

SCV Water (Monthly Progress)

Progress Towards 15% Savings

Region Type: Hydrologic Region | Select months: (Multiple values)

Region	May 2022	Jun 2022	Jul 2022	Cumulative
Central Coast	-2.0%	-5.4%	-6.8%	-2.5%
Colorado River	-2.5%	-6.4%	-5.6%	0.9%
North Coast	-3.7%	-10.9%	-28.5%	-14.7%
North Lahontan	-18.6%	-14.0%	-7.9%	-9.1%
Sacramento River	-3.3%	-10.0%	-12.4%	-6.1%
San Francisco Bay	-8.0%	-12.6%	-17.3%	-9.7%
San Joaquin River	-4.2%	-5.6%	-8.9%	-3.2%
South Coast	-2.1%	-5.9%	-8.6%	-1.3%
South Lahontan	-11.2%	-10.2%	-16.1%	-3.7%
Tulare Lake	-1.3%	-5.0%	-7.1%	-1.9%
Statewide	-3.5%	-7.4%	-10.4%	-3.4%

Month	Diff. (%)	Cum. (%)
Jul.	+5.6%	+5.6%
Aug.	+3.1%	+4.1%
Sep.	+1.1%	+3.3%
Oct.	-11.3%	+0.1%
Nov.	+3.1%	+0.5%
Dec.	-29.0%	-3.0%
Jan.	-1.1%	-2.9%
Feb.	+7.8%	-1.9%
Mar.	+61.8%	+2.0%
Apr.	+47.4%	+5.0%
May	-4.2%	+4.0%
Jun.	-7.9%	+2.8%
Jul.	-8.7%	+1.6%
Aug.	-10.1%	+0.5%

Source: State Water Resources Control Board (8/8/2022)





ACTIONS & NEXT STEPS

ON THE RADAR

ACTIONS & NEXT STEPS

- SEPTEMBER – NON-FUNCTIONAL TURF BAN OUTREACH
- SEPTEMBER – DROUGHT READY VIDEOS
- SEPTEMBER/OCTOBER – SCV COMMUNITY CONSERVATION IN ACTION
- FALL – LAWN REPLACEMENT PROGRAM PRIORITIES
- CONTINUED PERFORMANCE MONITORING & ADAPTIVE MANAGEMENT



DROUGHT REVIEW - SUMMARY

- DROUGHT CONDITIONS PERSIST
- THIRD YEAR LA NINA FORECASTED
- STATEWIDE DROUGHT EMERGENCY IN EFFECT
- STATE WATER RESOURCES BOARD EMERGENCY REGULATIONS IN EFFECT
- STATE WATER PROJECT WATER ALLOCATION @ 5% (2ND CONSECUTIVE YEAR)
- CONTINUED USE OF CRITICAL DRY YEAR SUPPLIES
- SCV WATER STAGE 2 WATER SHORTAGE CONTINGENCY PLAN & ORDINANCE IN EFFECT
- WITHOUT CONSERVATION, STORAGE & BANKING RECOVERY PROLONGED
- CURRENT CONSERVATION PERFORMANCE BELOW TARGET, BUT TRENDING DOWN





Q&A

SCV WATER UPDATES TO WATER OPERATING PLAN &
WATER CONSERVATION RESPONSE ACTIONS