



# Status of Water Supplies

Water Resources and Watershed Committee  
January 12, 2022  
Item 5.1

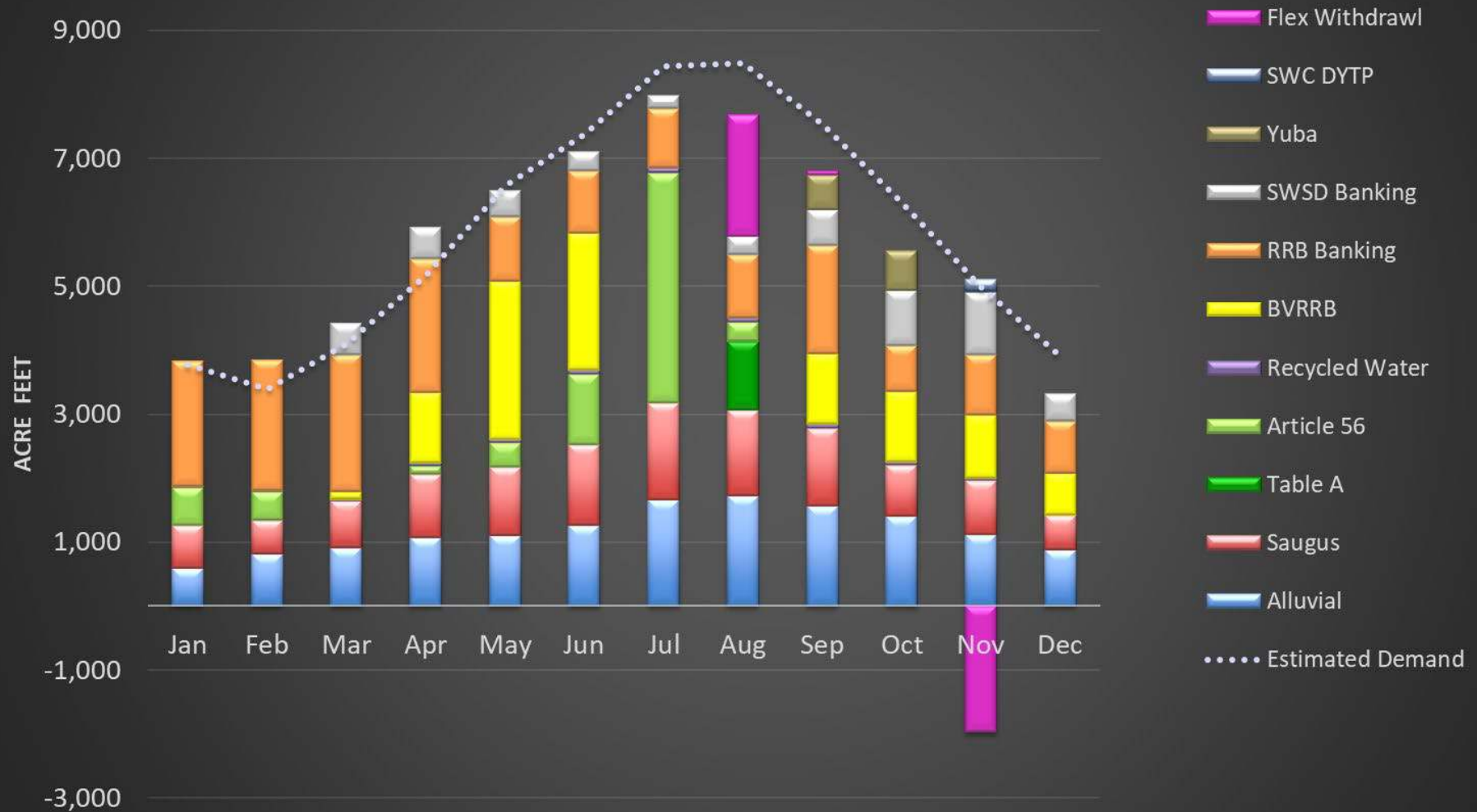
# Overview

## Water Supply Update

- 2021 Operations
- Precipitation
- Reservoir Storage Updates
- Drought Classification
- Weather Forecast
- 2022 Operations



## 2021 Water Supply Sources vs. Estimated Demand (70,000 AF)

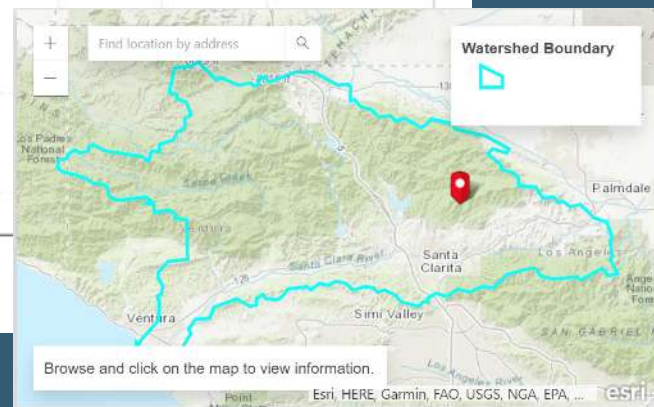
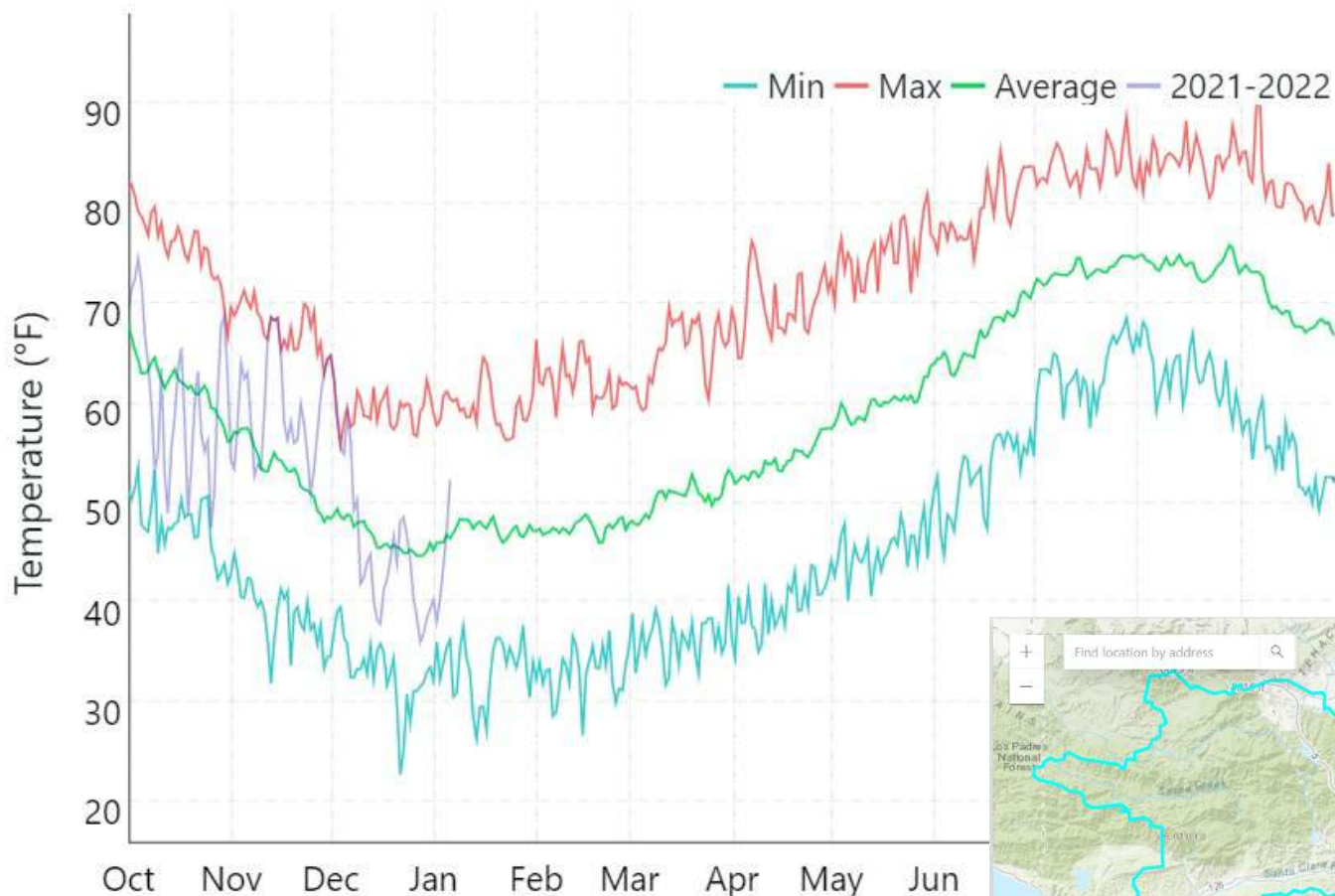


2022 Carryover and Backup Storage = 13,500 AF estimated

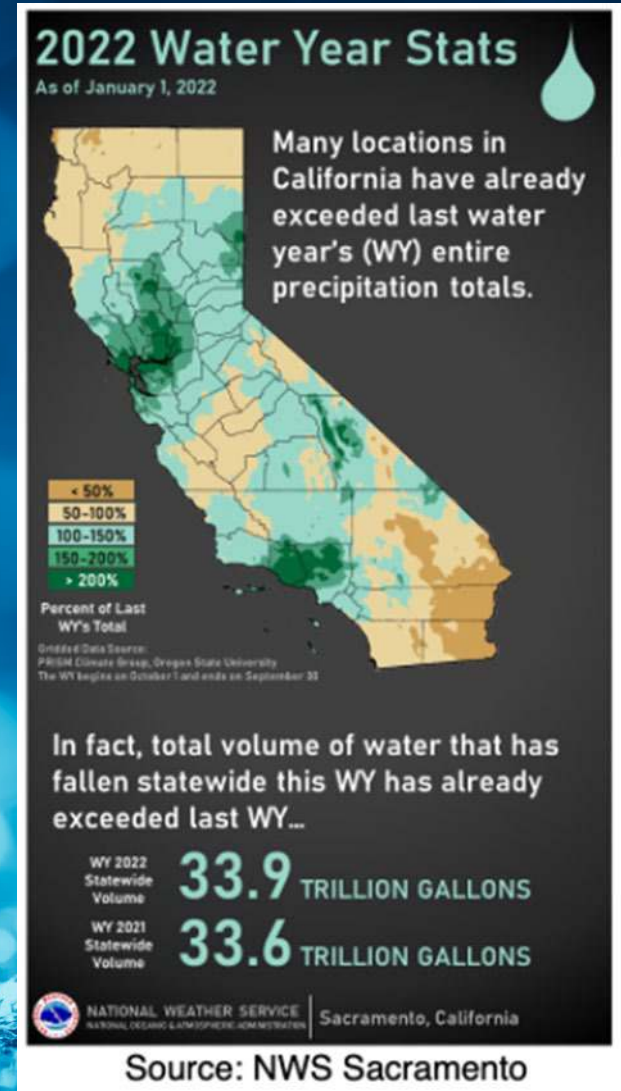
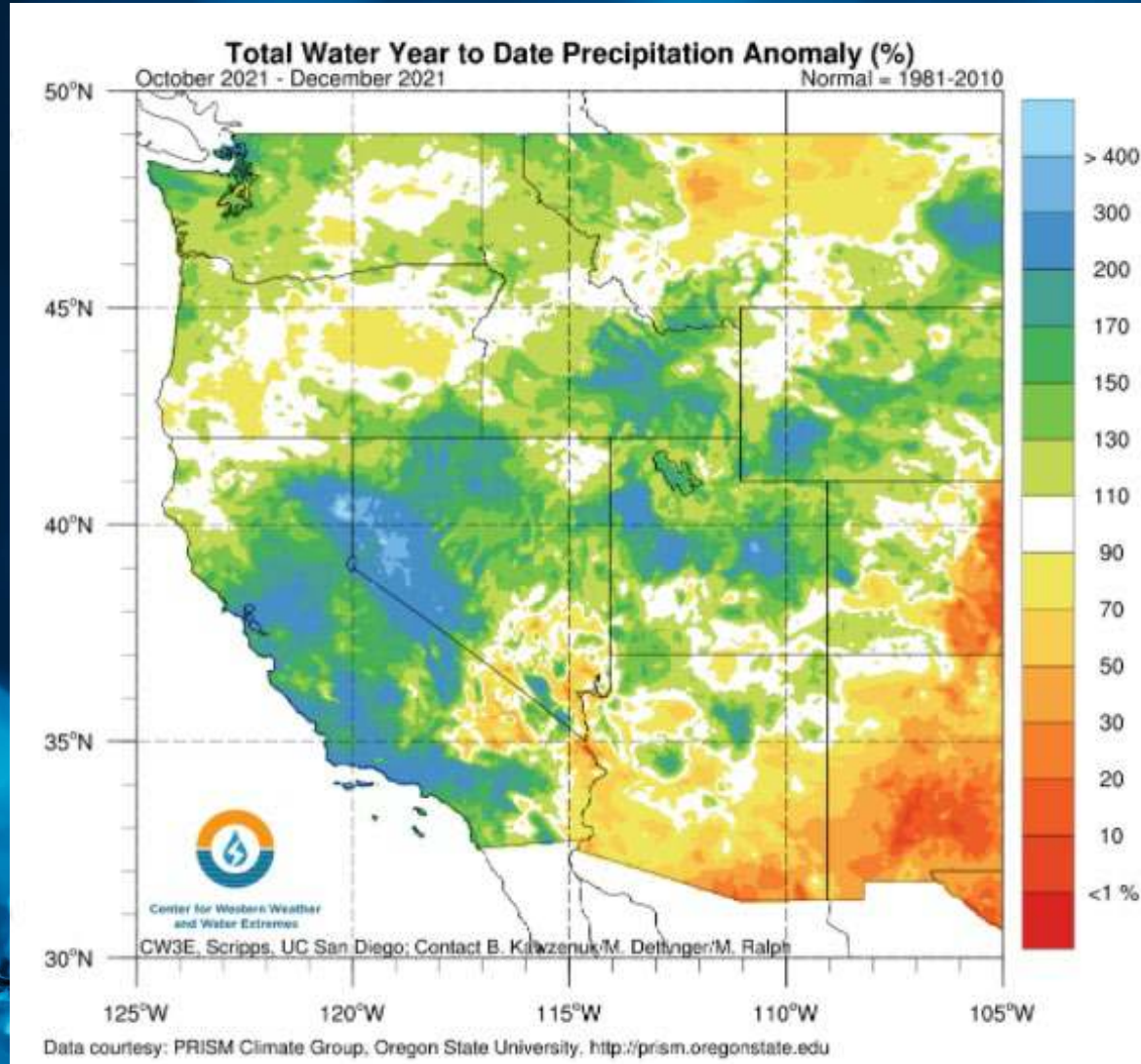
# California Water Watch

## Mean Temperature (period of record: 1981-current)

### Santa Clara Watershed

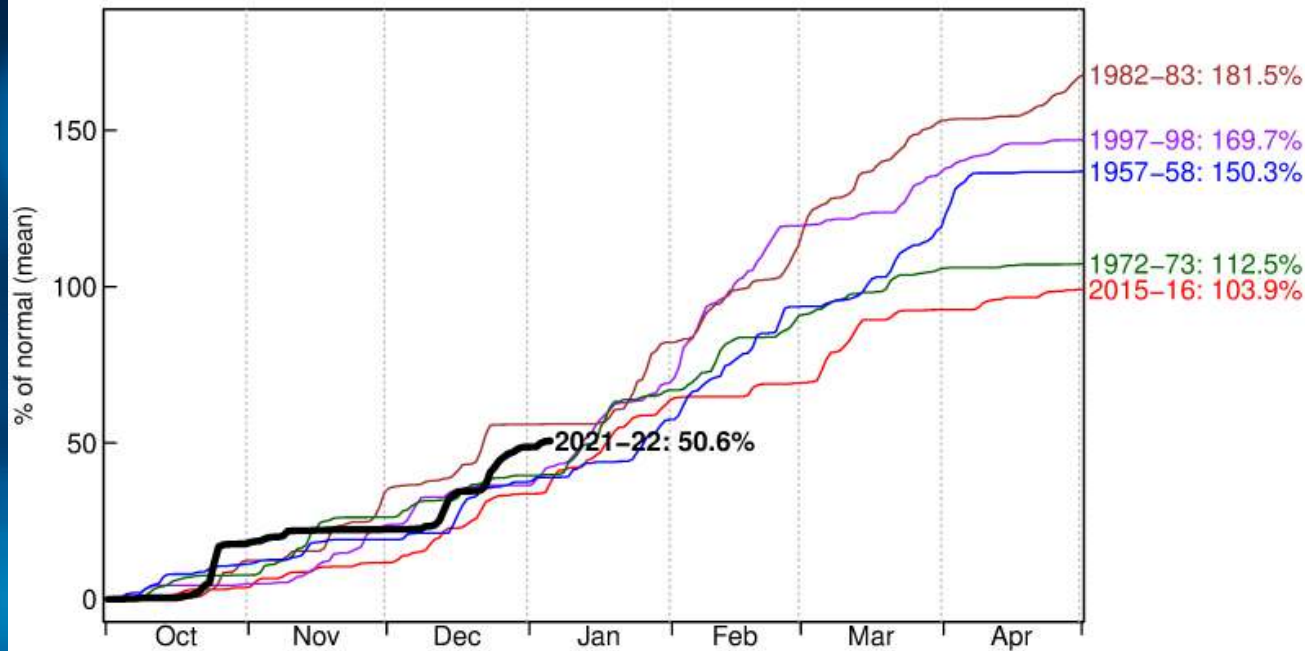


# Holiday Storm Impacts Big!

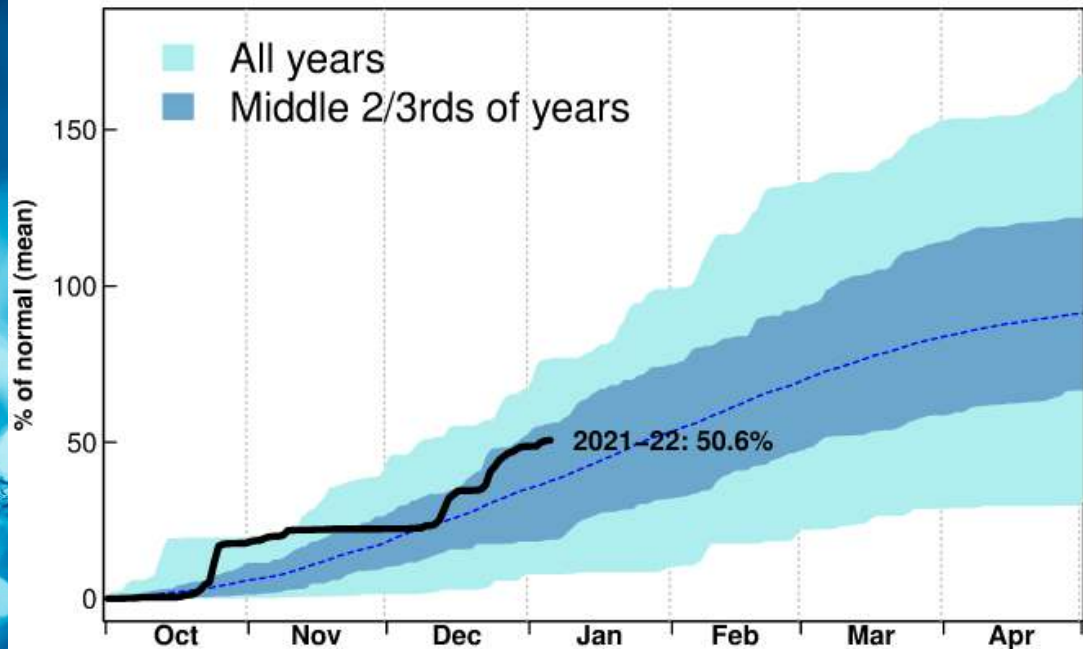


# California Precipitation

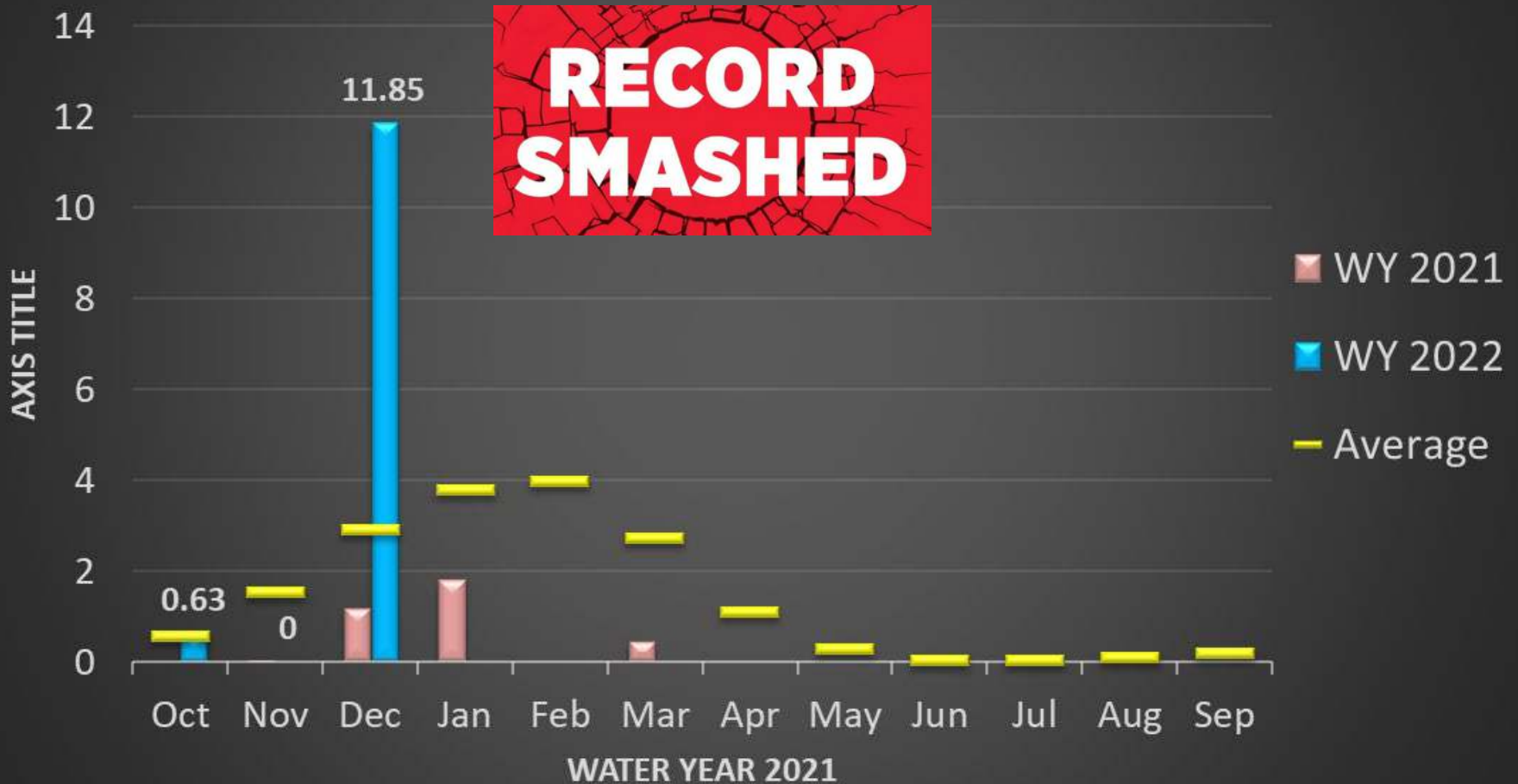
all\_CA precip vs. 5 strongest EI Ninos, data through 2022/01/05



all\_CA precip for all years, data through 2022/01/05



# SCV Precipitation Water Year 2021



## End of Dec. Totals

WY 2021 – 1.18”

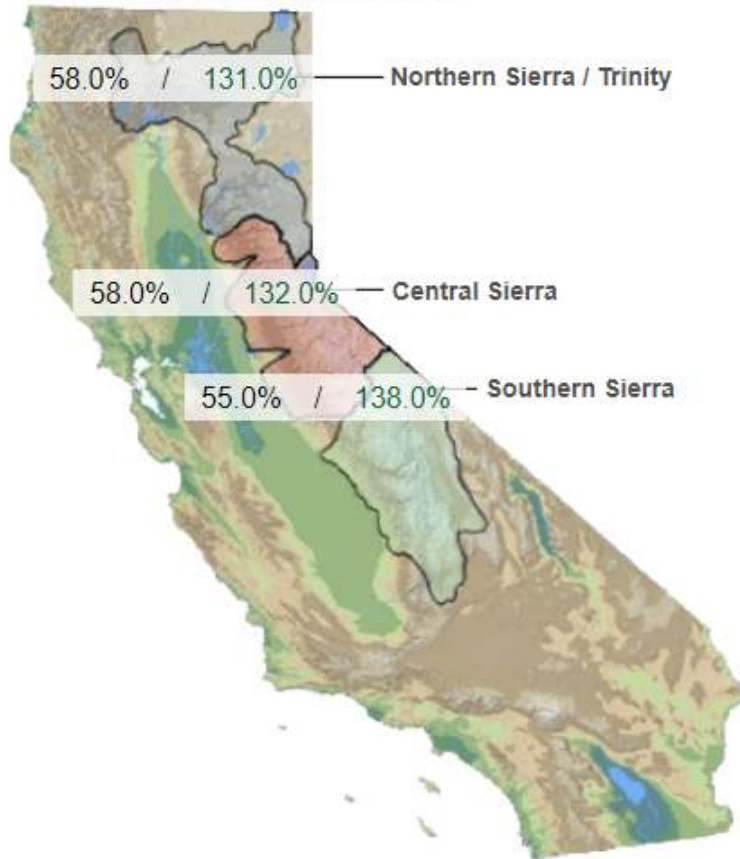
WY 2022 – 12.48”

# → Snow Water Equivalents (inches)

Provided by the California Cooperative Snow Surveys

Data For: 10-Jan-2022

% Apr 1 Avg. / % Normal for this Date



Change Date :



10-Jan-2022

## NORTH

Data For: 10-Jan-2022

Number of Stations Reporting	30
Average snow water equivalent	16.6"
Percent of April 1 Average	58%
Percent of normal for this date	131%

## CENTRAL

Data For: 10-Jan-2022

Number of Stations Reporting	42
Average snow water equivalent	16.9"
Percent of April 1 Average	58%
Percent of normal for this date	132%

## SOUTH

Data For: 10-Jan-2022

Number of Stations Reporting	29
Average snow water equivalent	14.2"
Percent of April 1 Average	55%
Percent of normal for this date	138%

## STATEWIDE SUMMARY

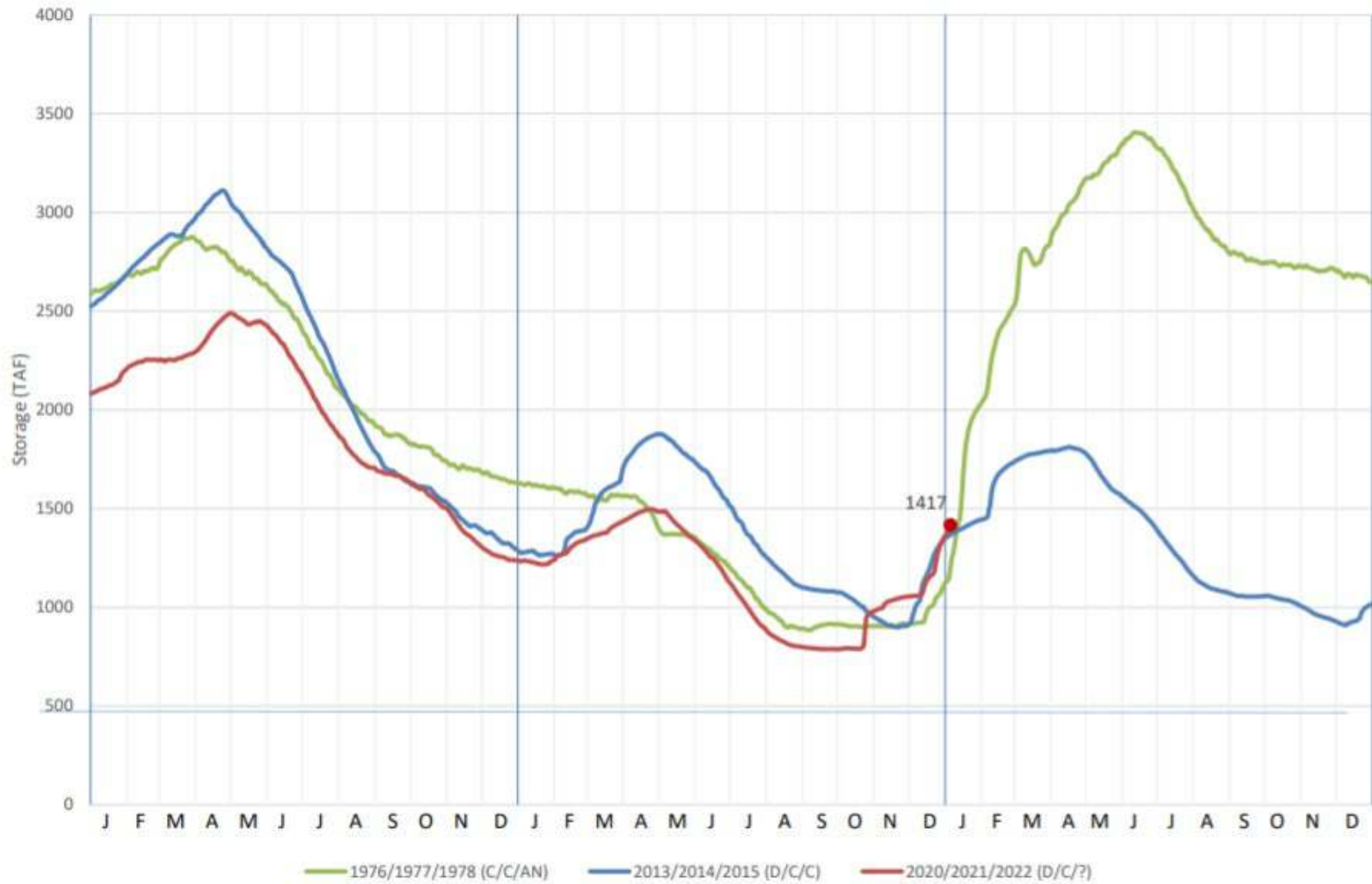
Data For: 10-Jan-2022

Number of Stations Reporting	101
Average snow water equivalent	16.0"
Percent of April 1 Average	57%
Percent of normal for this date	133%

[Printable Version of Current Data](#)

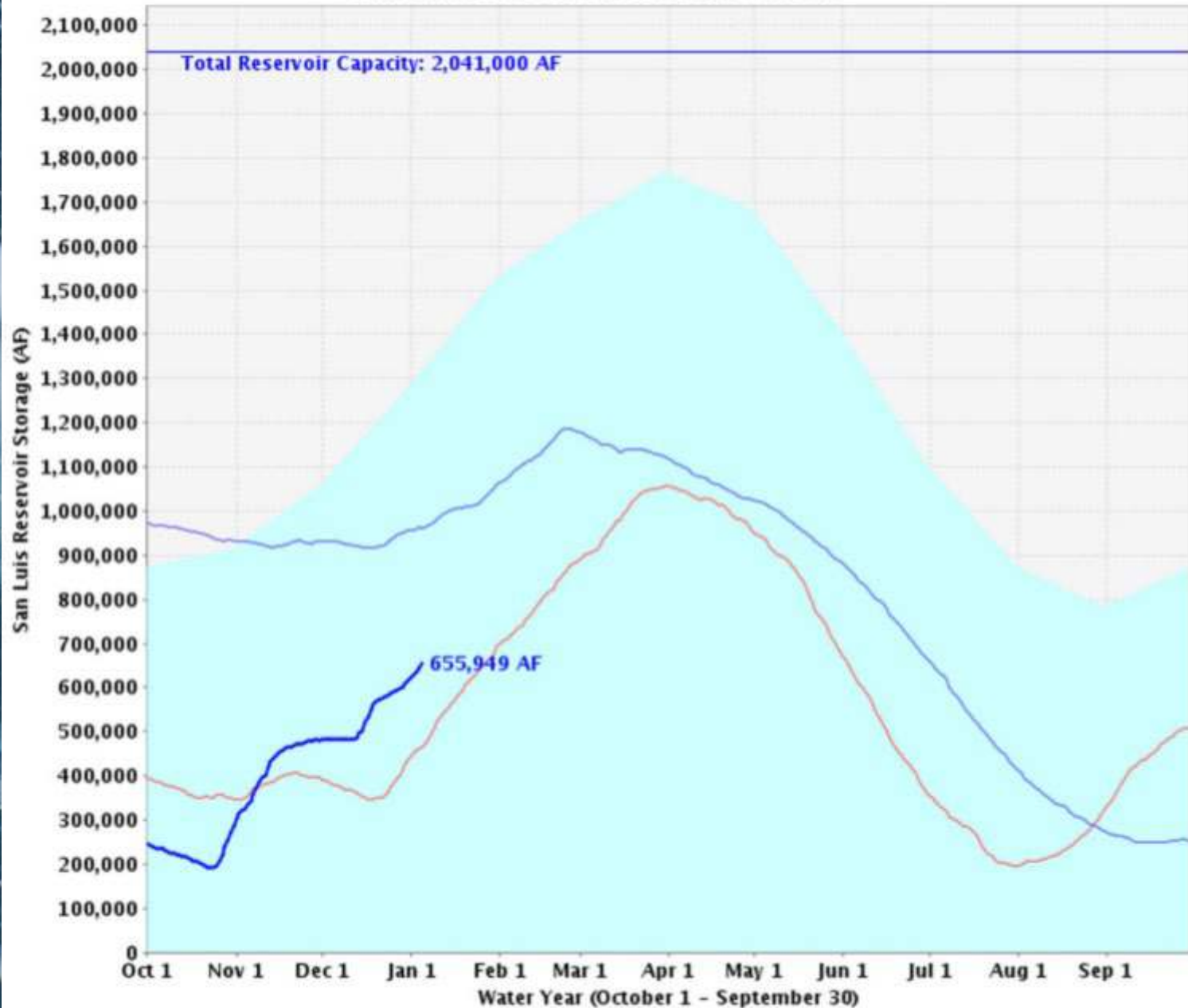


# Lake Oroville



Water Year Type: AN = Above Normal, D = Dry, C = Critically Dry

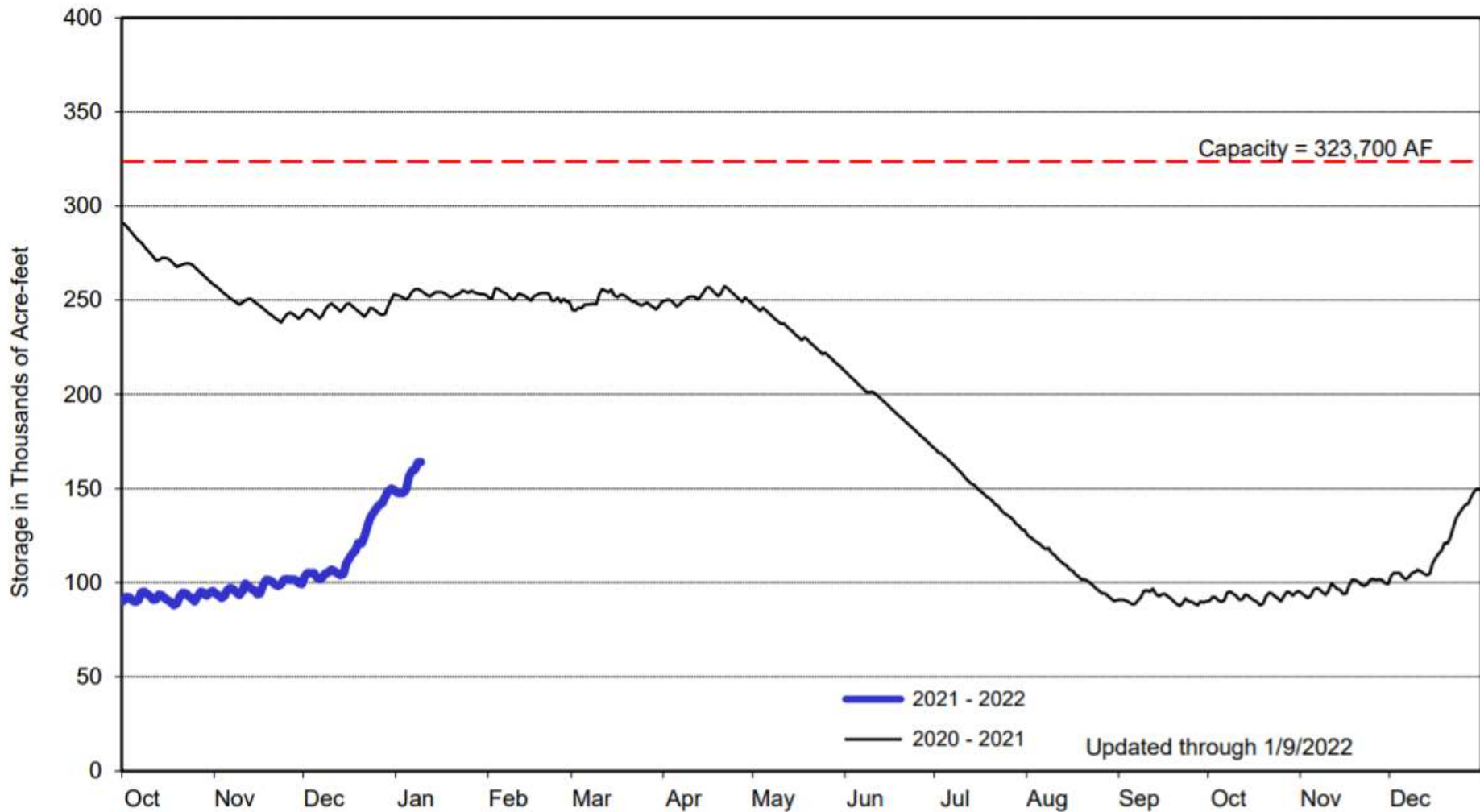
# San Luis Reservoir Storage Levels



Historical Average — Total Reservoir Capacity — 2015-2016 — 2020-2021 — 2021-2022(current)

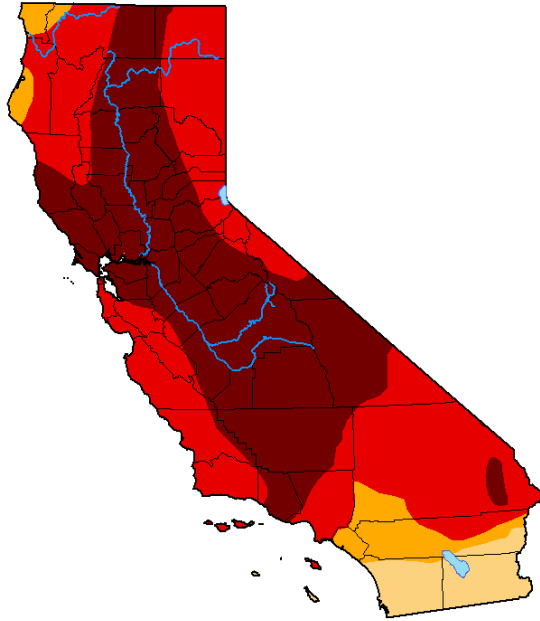
# Castaic Lake Storage

Combination Water/Calendar Year

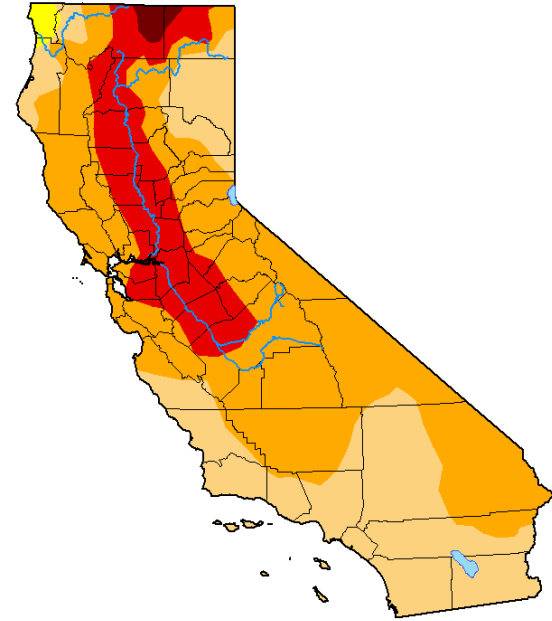


# Drought Classification

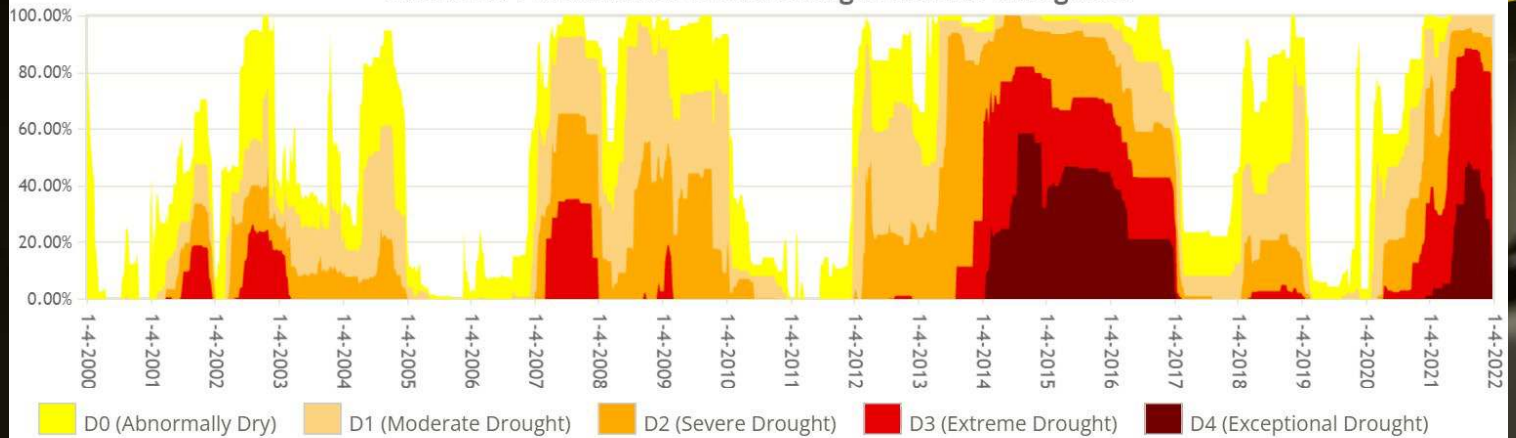
September 28, 2021



January 4, 2022



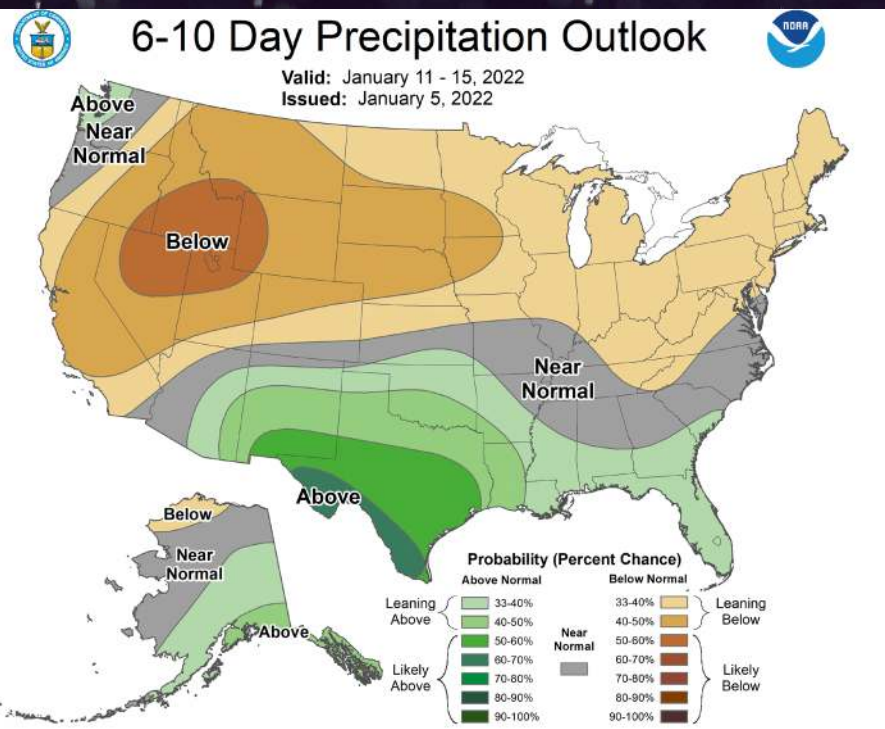
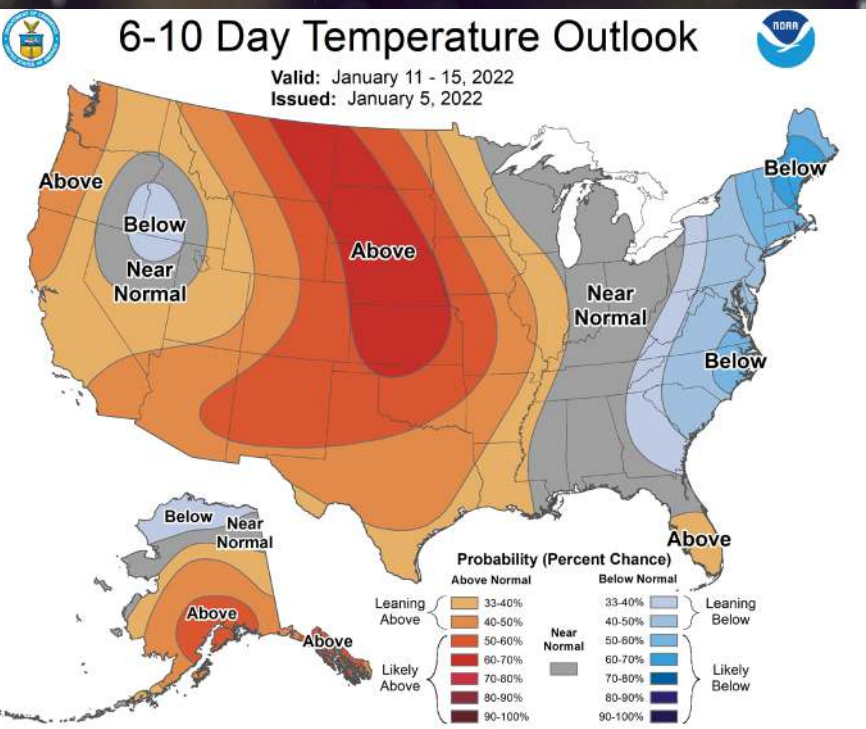
### California Percent Area in U.S. Drought Monitor Categories



# 6-10 Day Outlook (Jan 11-15)

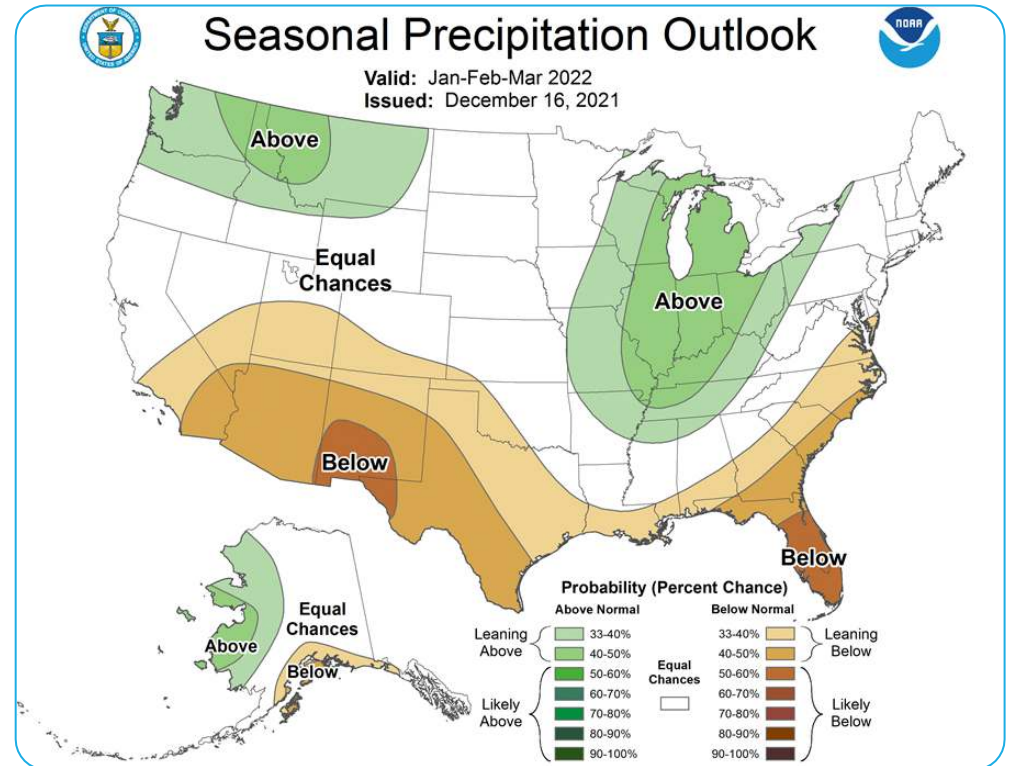
## Temperature

## Precipitation

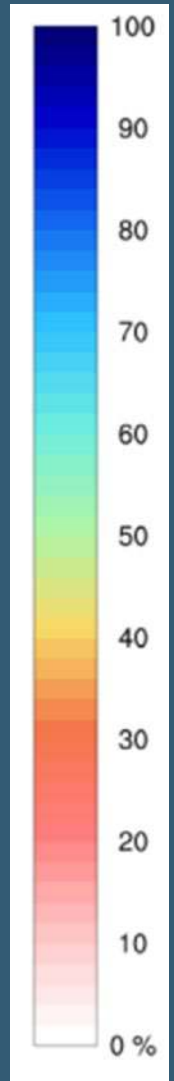
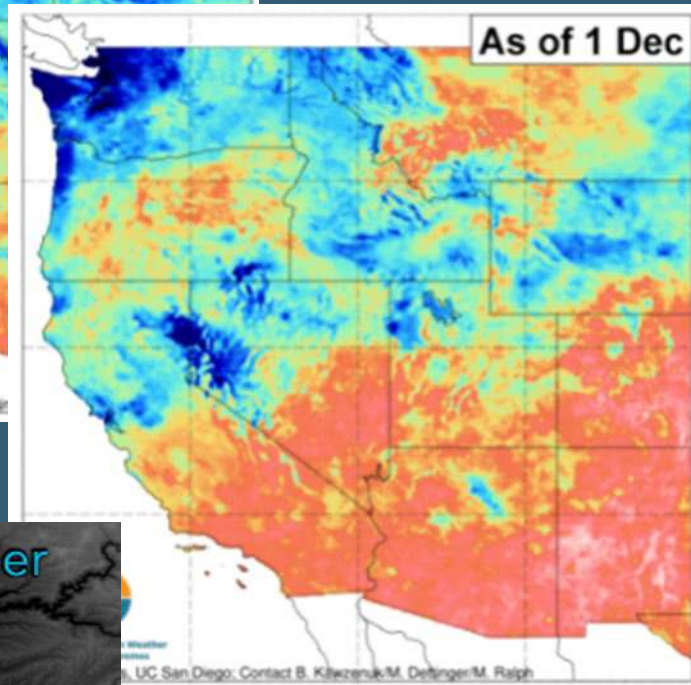
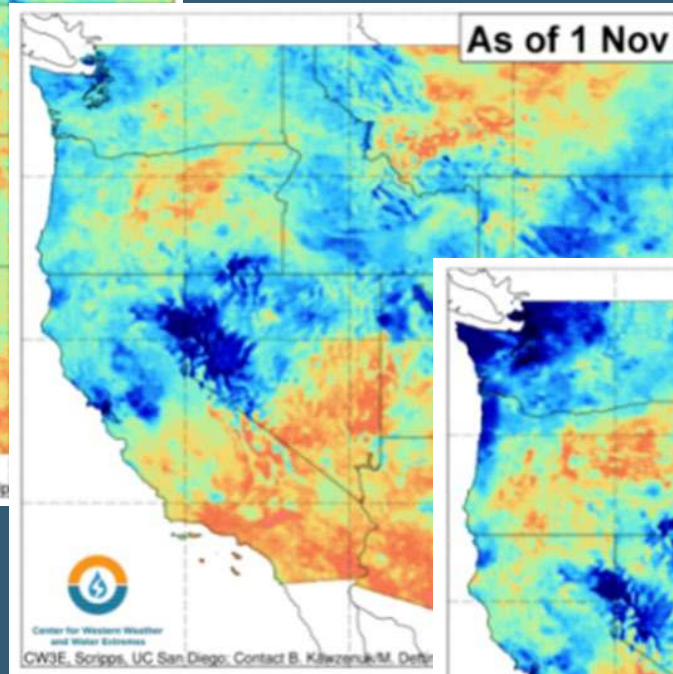
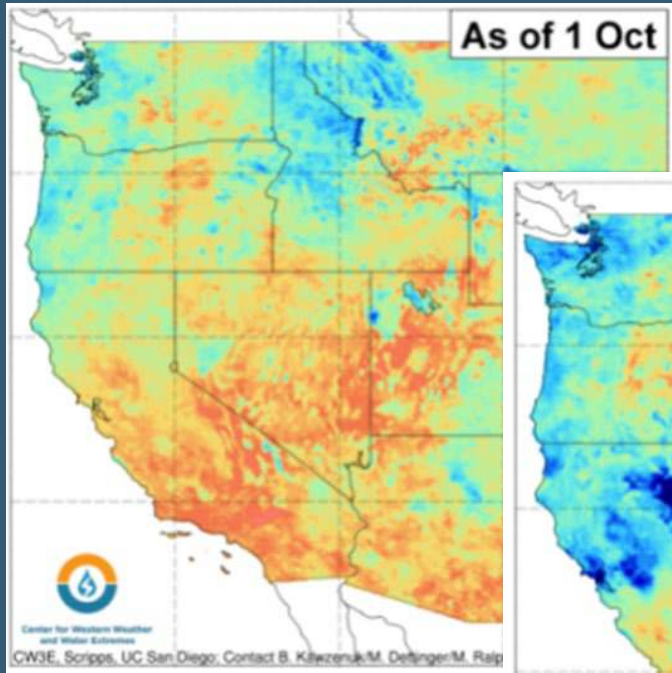


# Jan/Feb/March Outlook

- Not much in line for January precipitation after northern storm week 1
- La Nina peaked
- Still looking drier for Southern California



# Odds of Water Year 2022 Reaching 100% of Water Year Normal Precipitation



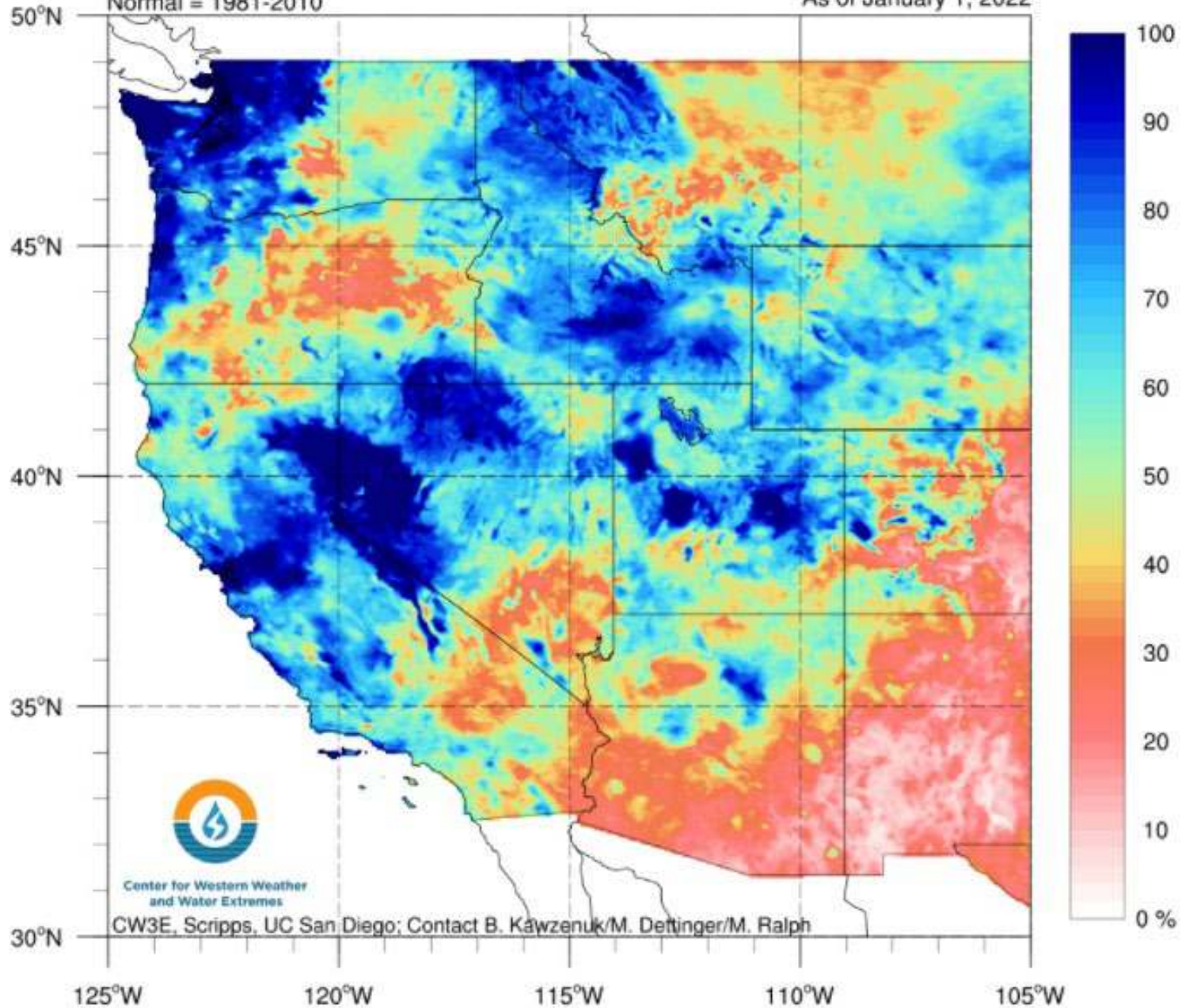
Center for Western Weather  
and Water Extremes

SCRIPPS INSTITUTION OF OCEANOGRAPHY  
AT UC SAN DIEGO

# Odds of Water Year 2022 Reaching 100% of Water Year Normal Precipitation

Normal = 1981-2010

As of January 1, 2022



Center for Western Weather  
and Water Extremes

CW3E, Scripps, UC San Diego; Contact B. Kawzenuk/M. Dettinger/M. Ralph

Shading represents odds, in percent of water years from 1948-2017

Data courtesy: PRISM Climate Group, Oregon State University, <http://prism.oregonstate.edu>



# Anticipate SWP Allocation Increase

2022 Operating Plan (as of Jan 2022)	2022 0% SWP Allocation	2022 5% SWP Allocation	2022 10% SWP Allocation	2022 15% SWP Allocation2	2023 5% SWP Allocation
<b>Demand</b>	<b>71,100</b>	<b>71,100</b>	<b>71,100</b>	<b>72,100</b>	<b>73,200</b>
Groundwater	27,700	27,700	27,700	27,700	30,300
Alluvium	15,500	15,500	15,500	15,500	16,300
Saugus	12,200	12,200	12,200	12,200	14,000
Recycled Water	450	450	450	450	700
<b>Imported Demand</b>	<b>42,950</b>	<b>42,950</b>	<b>42,950</b>	<b>43,950</b>	<b>42,200</b>
<b>Imported Supplies</b>					
SWP Table A	0	4,760	9,520	14,280	4,760
BVRRB	11,000	11,000	11,000	11,000	11,000
<b>Total Available Imported Supplies</b>	<b>11,000</b>	<b>15,760</b>	<b>20,520</b>	<b>25,280</b>	<b>15,760</b>
<i>Excess Imported Supplies (neg = shortfall)</i>	<i>(31,950)</i>	<i>(27,190)</i>	<i>(22,430)</i>	<i>(18,670)</i>	<i>(26,440)</i>
<b>Dry Year Water Supplies</b>					
★ SWP Carryover Delivered (not always guaranteed)	13,500	13,500	13,500	13,500	2,550
Rosedale Banking	15,000	15,000	15,000	10,000	10,000
Semitropic Enhanced Recovery Unit (Banking)	5,000	5,000	5,000	5,000	<b>5,000</b>
Yuba Accord	1,000	1,000	1,000	1,000	1,000
Dry Year Water Purchase					
Flexible Storage (up to 6,060 AF)					6,060
<b>Total Imported &amp; Dry Year Supplies</b>	<b>45,500</b>	<b>50,260</b>	<b>55,020</b>	<b>54,780</b>	<b>40,370</b>
2022 SWP Carryover into 2023 (neg = shortage)	2,550	7,310	12,070	10,830	<b>(1,830)</b>

★ Updated end of year estimate of SWP Carryover Supplies



picture 'in' the 'mind's' eye  
presuppose fancy ideational think 'about  
project conjure 'up' an 'image' of call 'to' mind  
dreamy conceive 'of' dream 'up' visionary  
imagery contemplate conceive chimeric  
imagination conjure 'up' dream visualise surreal  
faun icon see  
trope image conceivable daydream  
envision dream 'about' picture evoke scenario  
dreamland conceptualize envisage  
fantasy illusory conjure 'up' an 'picture' of  
imaginary abstractly improbably  
supposedly

Questions?