



Status of Water Supplies

Water Resources and Watershed Committee
December 8, 2021
Item 3.1

Overview

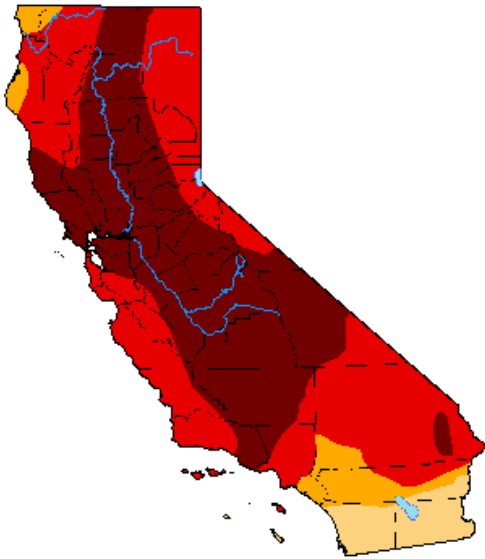
Water Supply Update

- Drought Classification
- Precipitation
- Weather Forecast
- 2021 Operations
- 2022 Operations



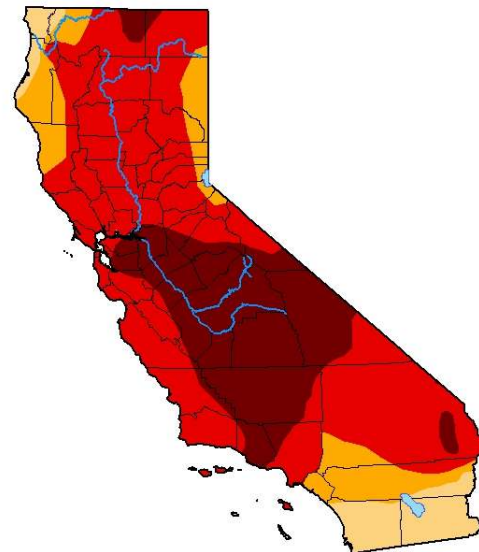
Drought Classification

September 28, 2021



U.S. Drought Monitor California

November 30, 2021
(Released Thursday, Dec. 2, 2021)
Valid 7 a.m. EST



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:

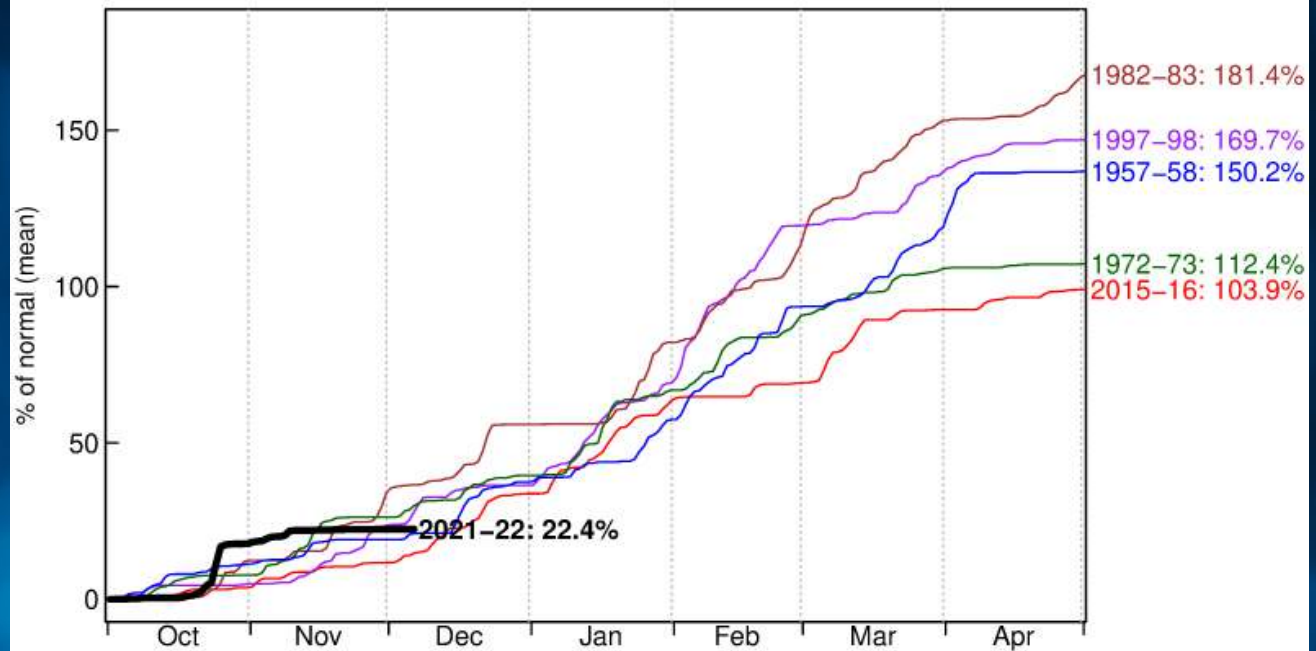
Richard Heim
NCEI/NOAA



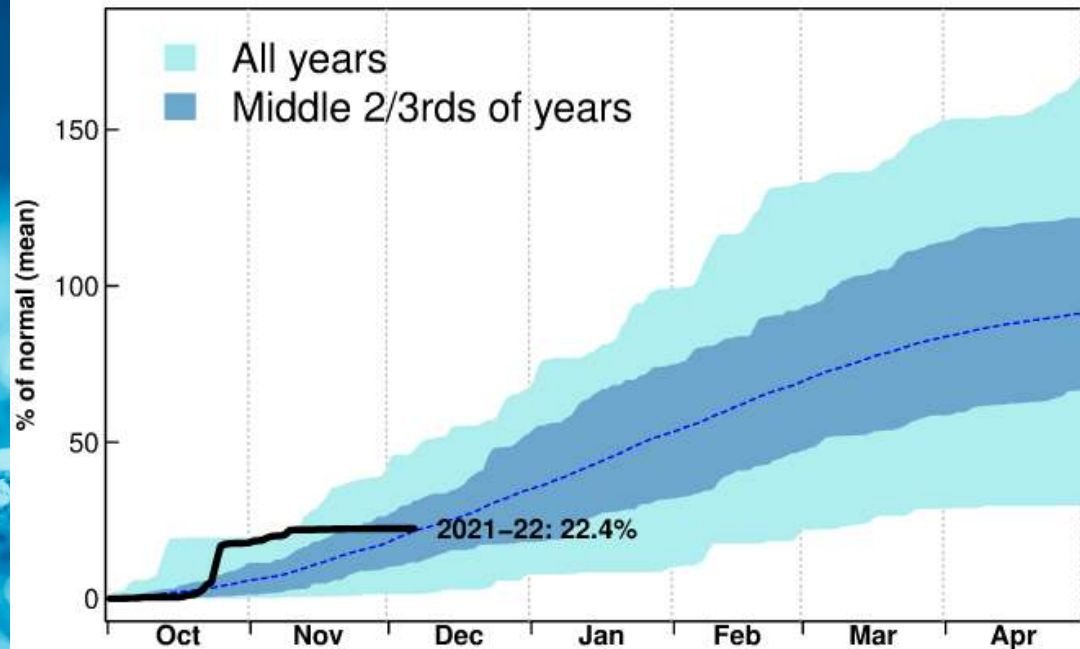
droughtmonitor.unl.edu

California Precipitation

all_CA precip vs. 5 strongest El Ninos, data through 2021/12/06

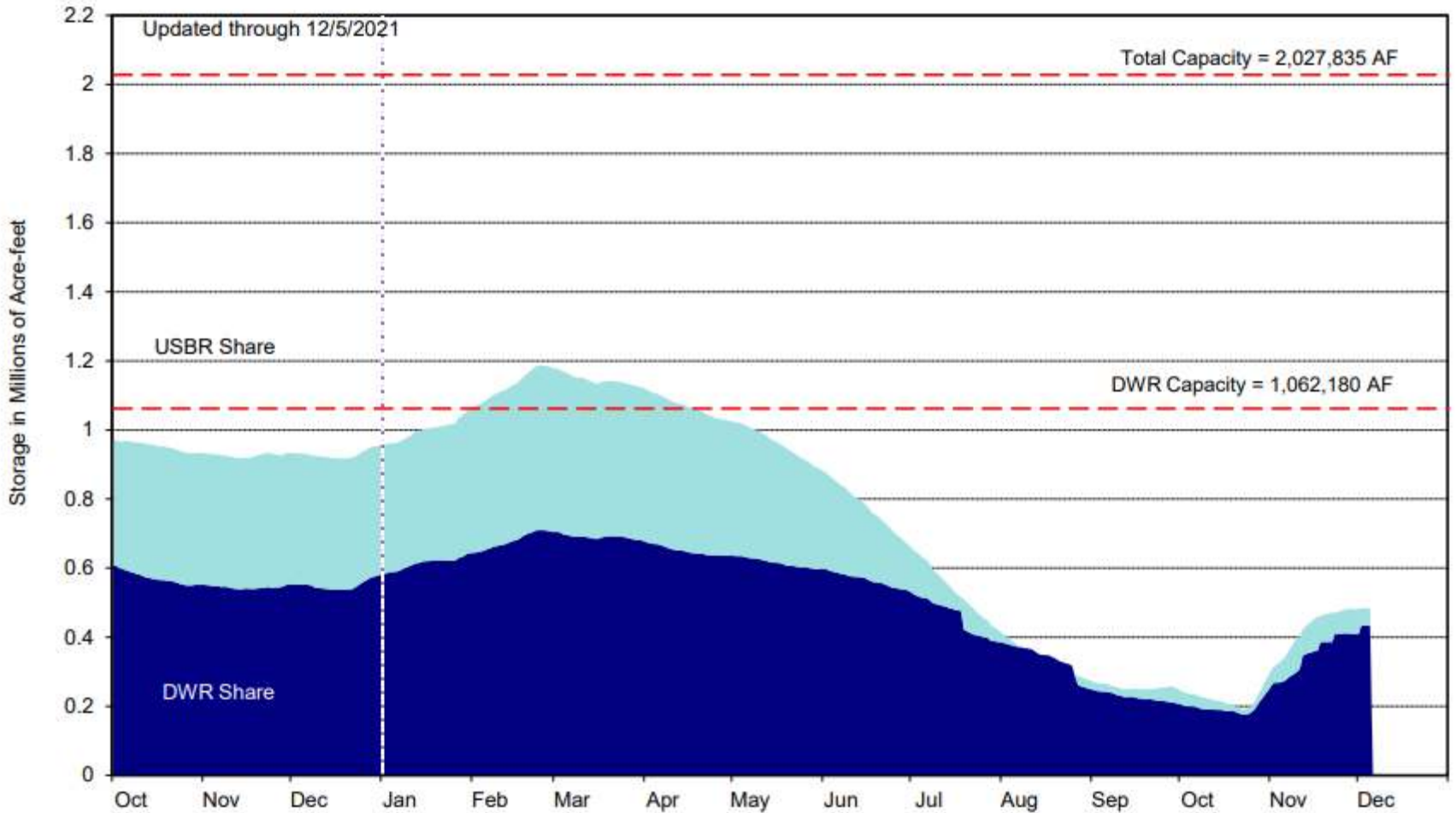


all_CA precip for all years, data through 2021/12/06

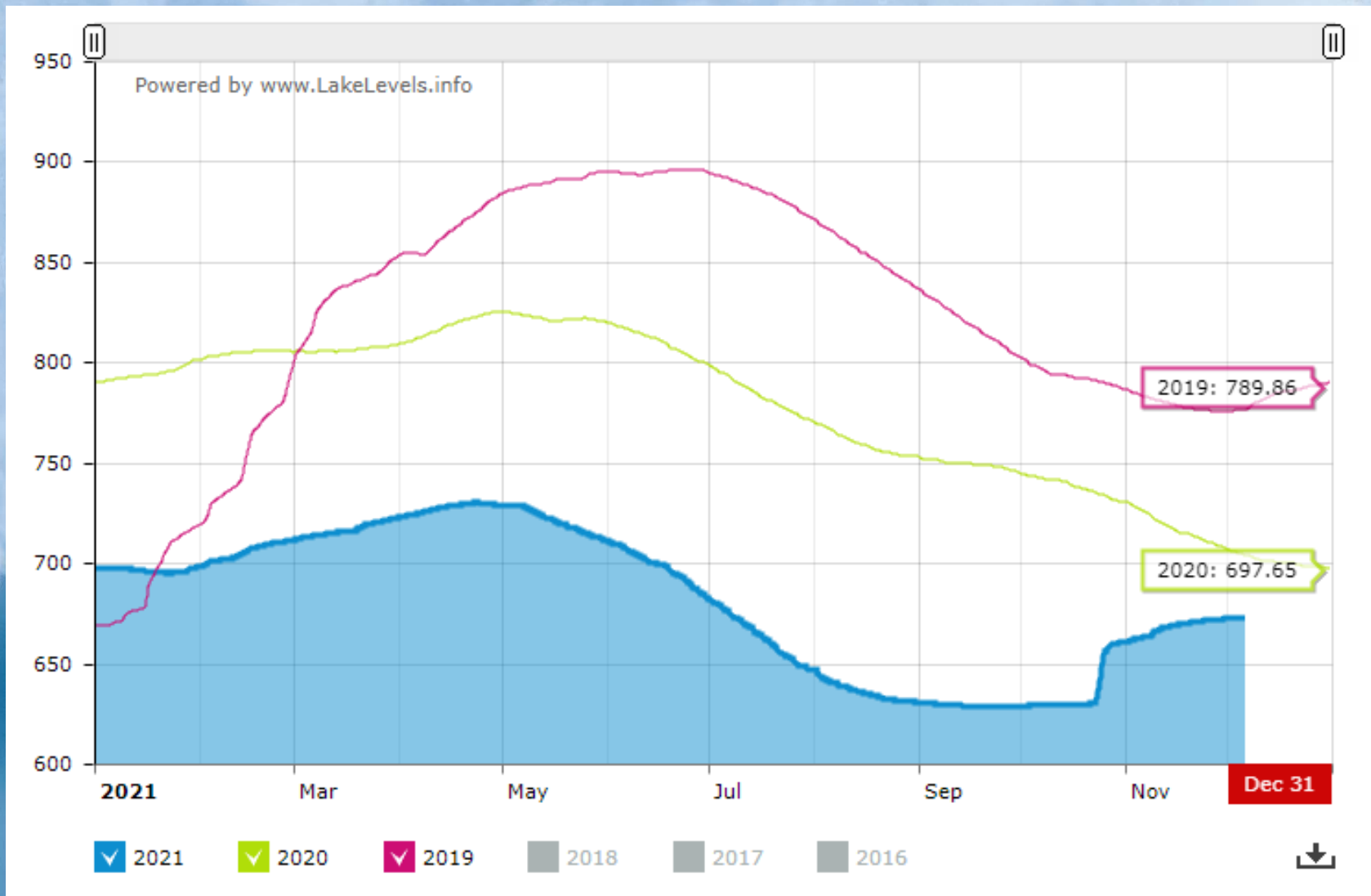


San Luis Reservoir Storage

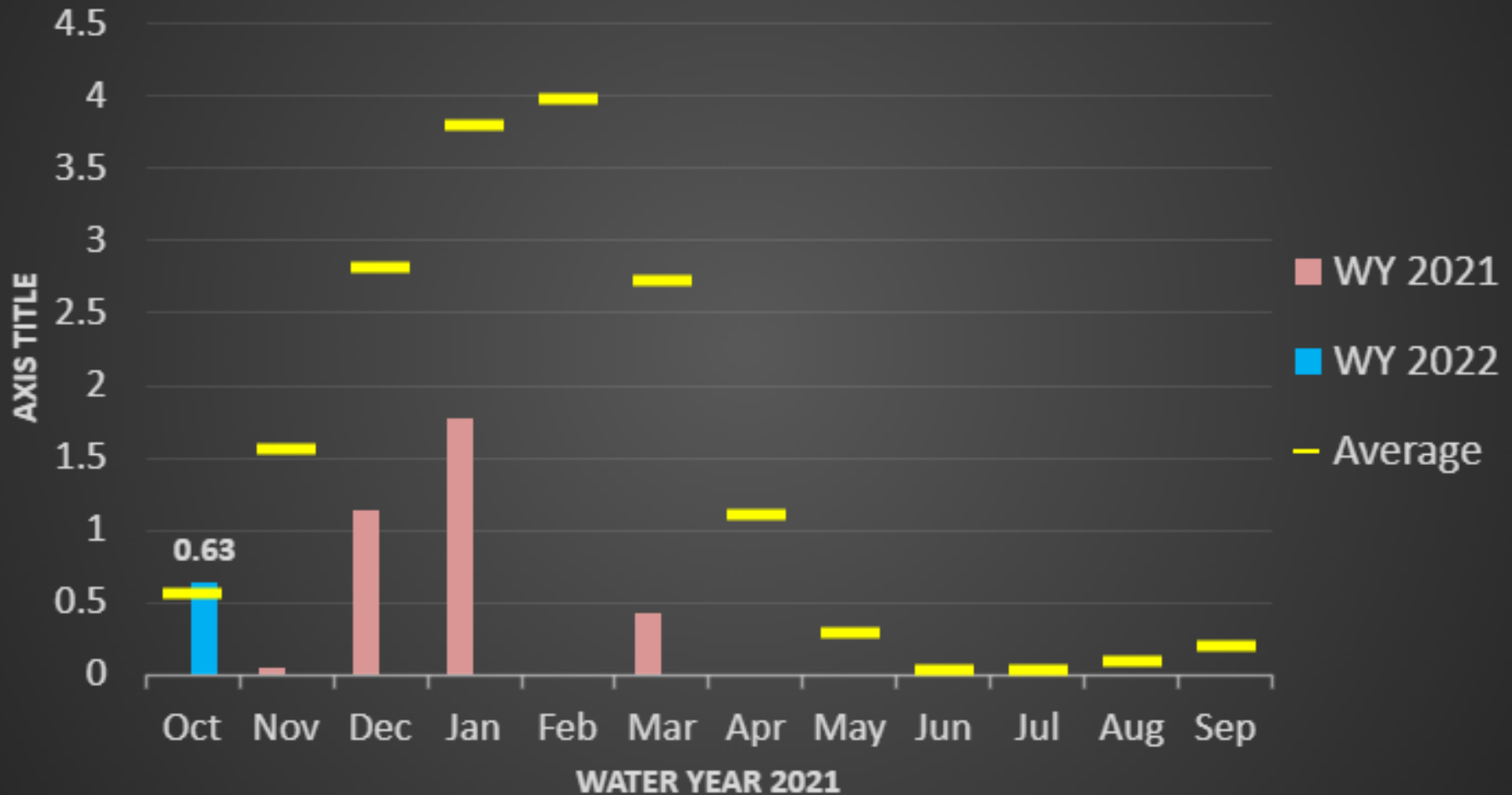
Combination Water/Calendar Year



Lake Oroville Storage Level



SCV Precipitation Water Year 2021



End of Nov. Total

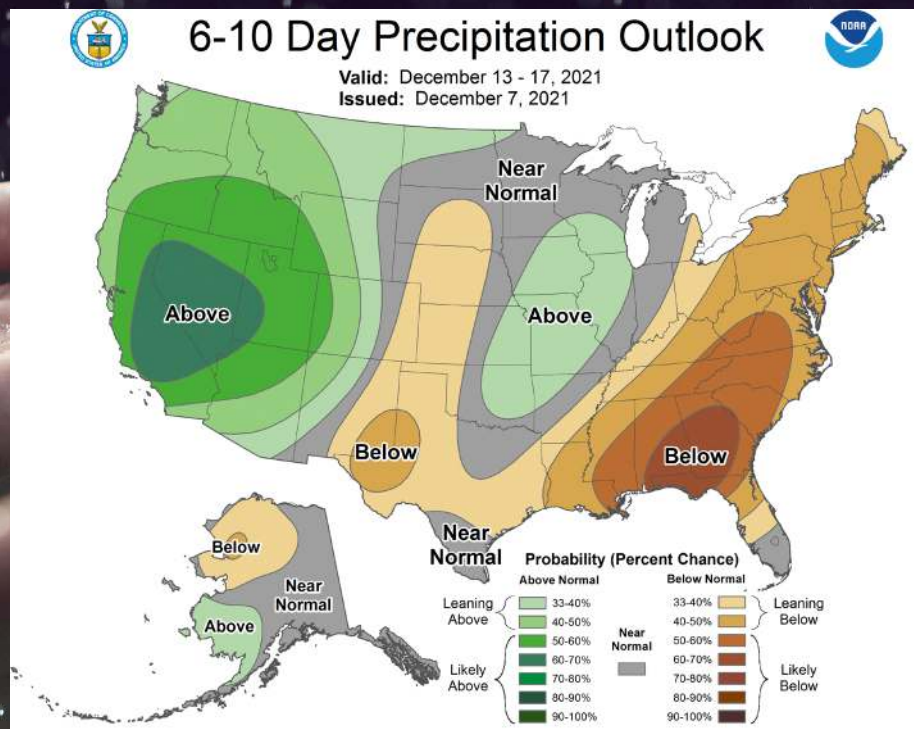
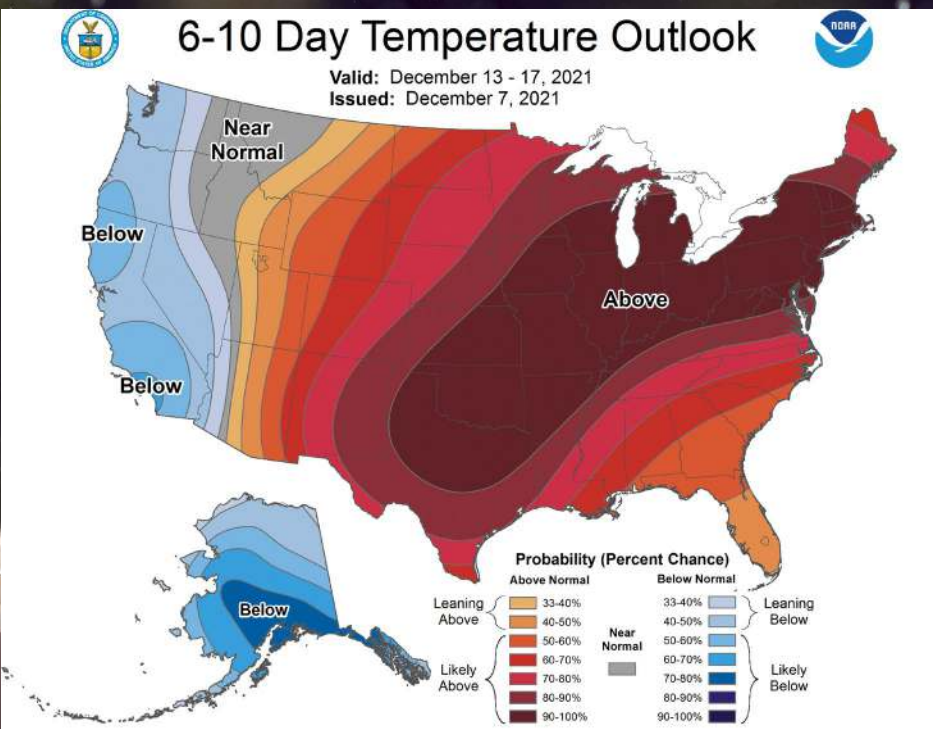
WY 2021 – 0.04”

WY 2022 – 0.63”

6-10 Day Outlook (Dec 13-17)

Temperature

Precipitation

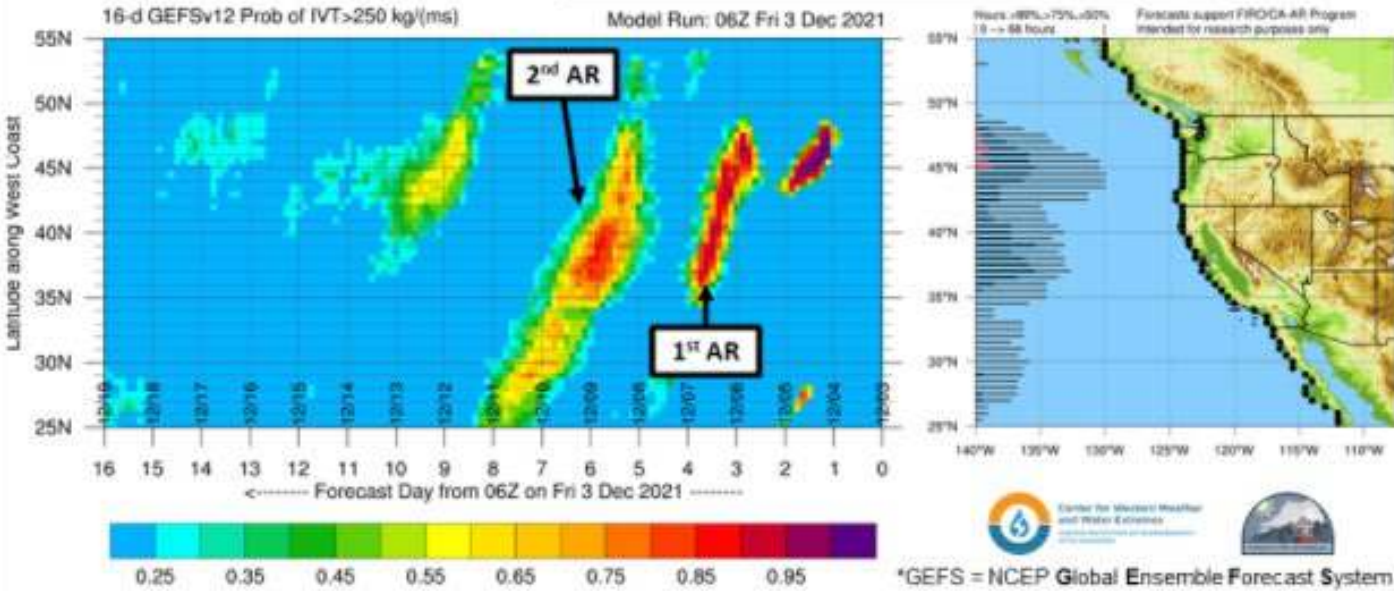


Chance of Rain Thursday!

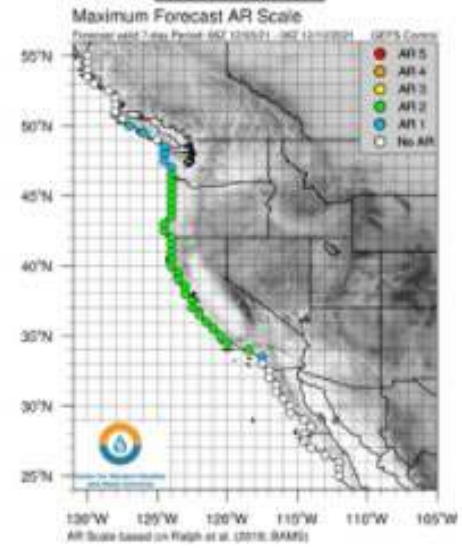
Atmospheric River Outlook: 03 December 2021

For California DWR's AR Program

Probability of AR Conditions Along Coast



AR Scale



*GEFS = NCEP Global Ensemble Forecast System (United States)

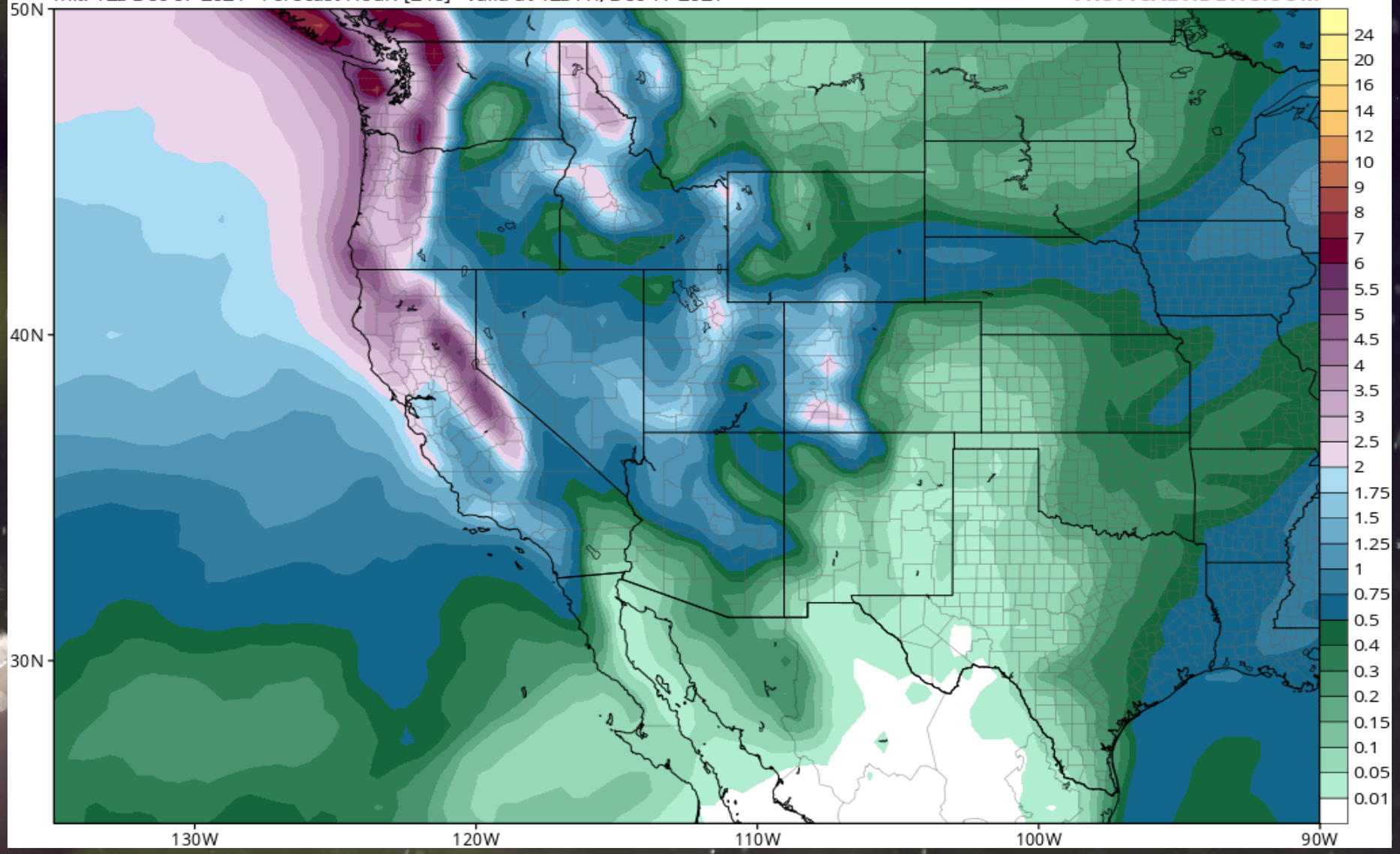
- The GEFS is showing high confidence (> 80% probability) in a period of AR conditions over coastal Central California to southern Washington on 5-6 Dec in association with the first AR
- ~60-80% of ensembles are indicating AR conditions will impact most of the West Coast during a period from 8-11 Dec with the second AR
- The 12z GEFS control run is forecasting AR 2 conditions (based on the Ralph et al. 2019 AR Scale) from Los Angeles, CA to southern Washington

10 Day Precipitation Outlook (Dec 7-17)

GEFS Total Accumulated Precipitation (inches) from 12z07Dec2021 to 12z17Dec2021

Init: 12z Dec 07 2021 Forecast Hour: [240] valid at 12z Fri, Dec 17 2021

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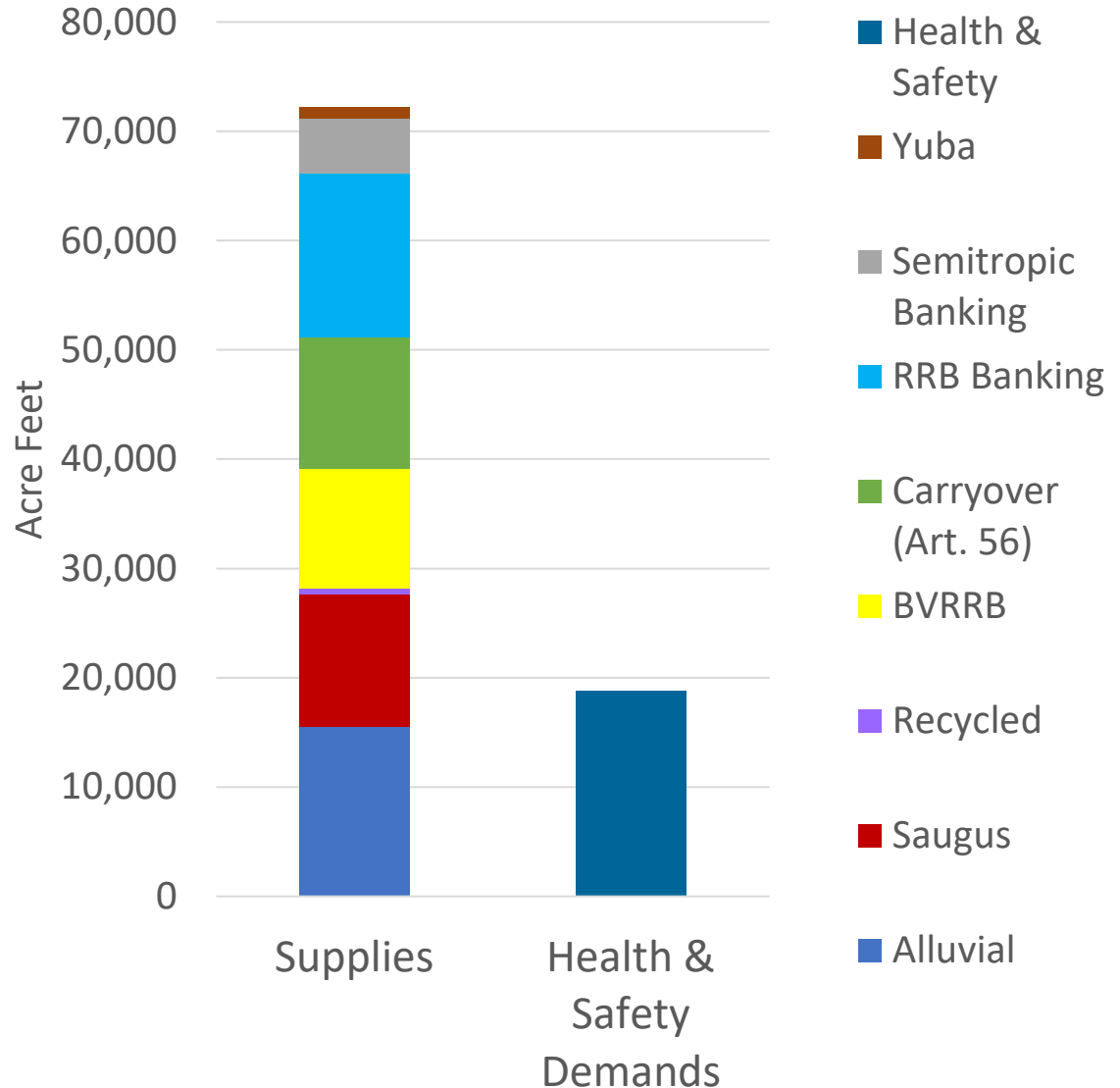


2022 Initial Allocation

Health and Safety Allocation

- 55 gallons per person per day
- 300 TAF for entire SWP
- Zero for SCV Water
 - 18,800 AF demand for health and safety

2022 Supplies Available for Health & Safety Demands



2022 Operating Plan	2022 0% SWP Allocation	2022 5% SWP Allocation	2022 10% SWP Allocation	2023 5% SWP Allocation
Demand	71,100	71,100	71,100	73,200
Groundwater	27,700	27,700	27,700	30,300
Alluvium	15,500	15,500	15,500	16,300
Saugus	12,200	12,200	12,200	14,000
Recycled Water	450	450	450	700
Imported Demand	42,950	42,950	42,950	42,200
Imported Supplies				
SWP Table A	0	4,760	9,520	4,760
BVRRB	11,000	11,000	11,000	11,000
Total Available Imported Supplies	11,000	15,760	20,520	15,760
<i>Excess Imported Supplies (neg = shortfall)</i>	<i>(31,950)</i>	<i>(27,190)</i>	<i>(22,430)</i>	<i>(26,440)</i>
Dry Year Water Supplies				
SWP Carryover Delivered (not always guaranteed)	12,000	12,000	12,000	1,050
Rosedale Banking	15,000	15,000	15,000	10,000
Semitropic Enhanced Recovery Unit (Banking)	5,000	5,000	5,000	5,000
Yuba Accord	1,000	1,000	1,000	1,000
Dry Year Water Purchase				
Flexible Storage (up to 6,060 AF)				6,060
Total Imported & Dry Year Supplies	44,000	48,760	53,520	38,870
2022 SWP Carryover into 2023 (neg = shortage)	1,050	5,810	10,570	<i>(3,330)</i>



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?