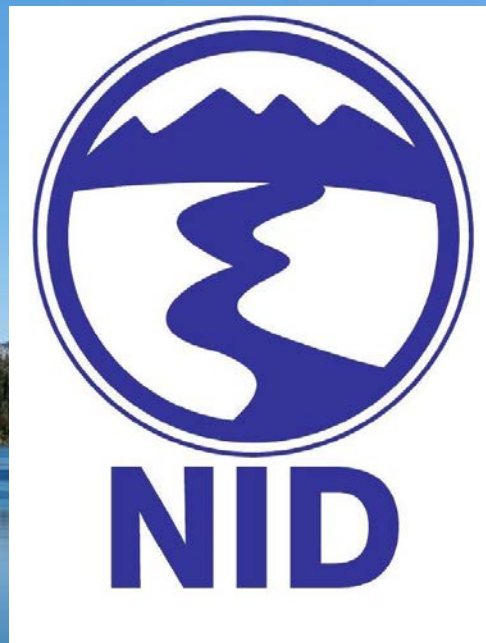


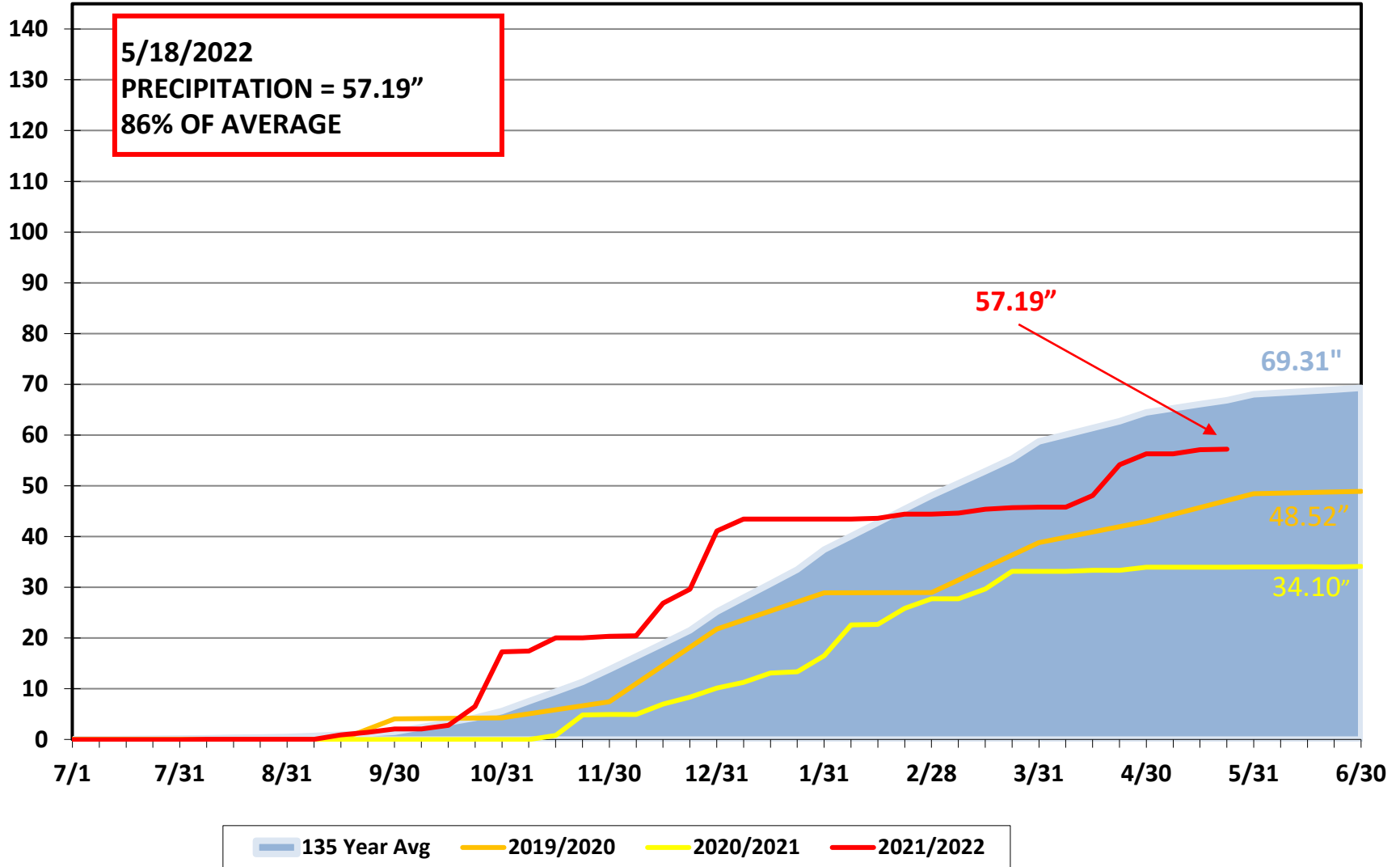
# Nevada Irrigation District Water Supply Update May 25, 2022



*Proudly serving portions of Nevada, Placer, and Yuba Counties*

# BOWMAN LAKE PRECIPITATION

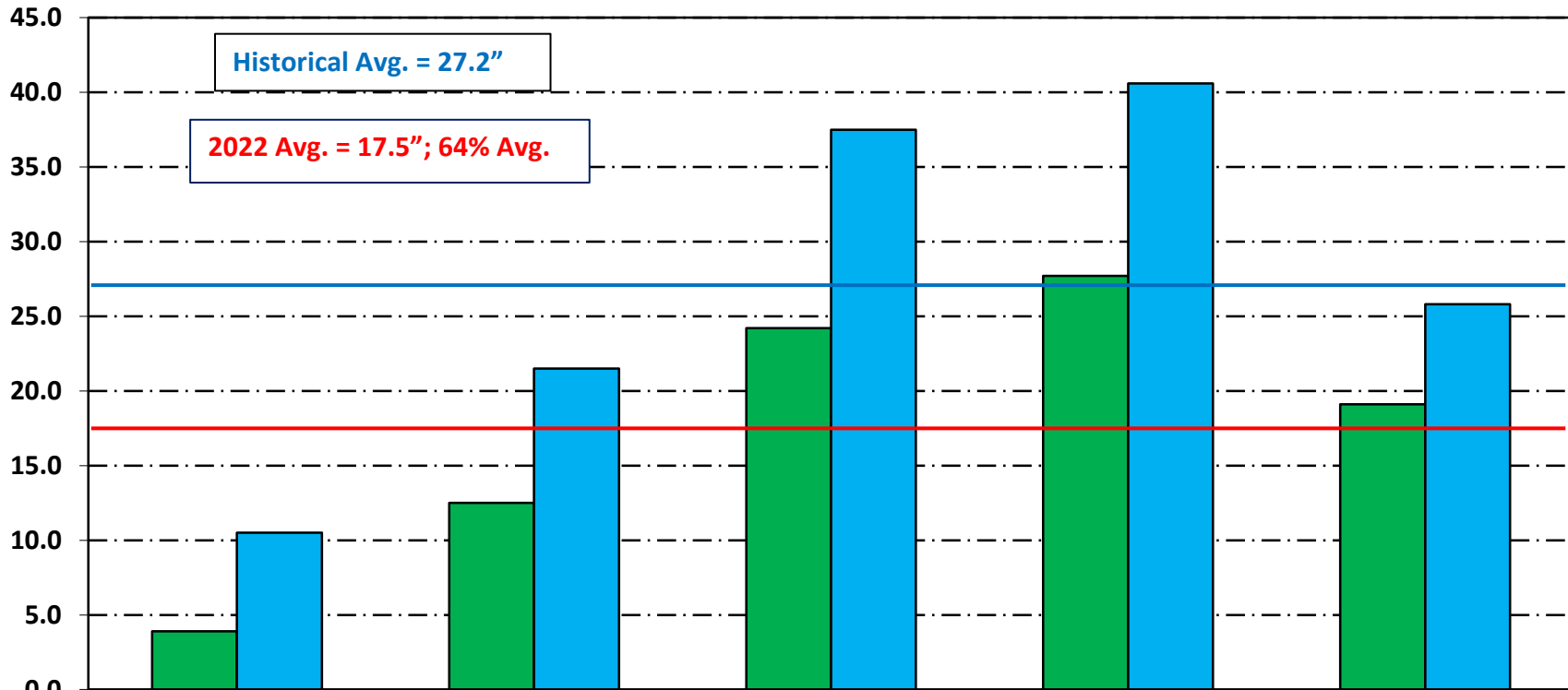
INCHES



# NID SNOW SURVEY

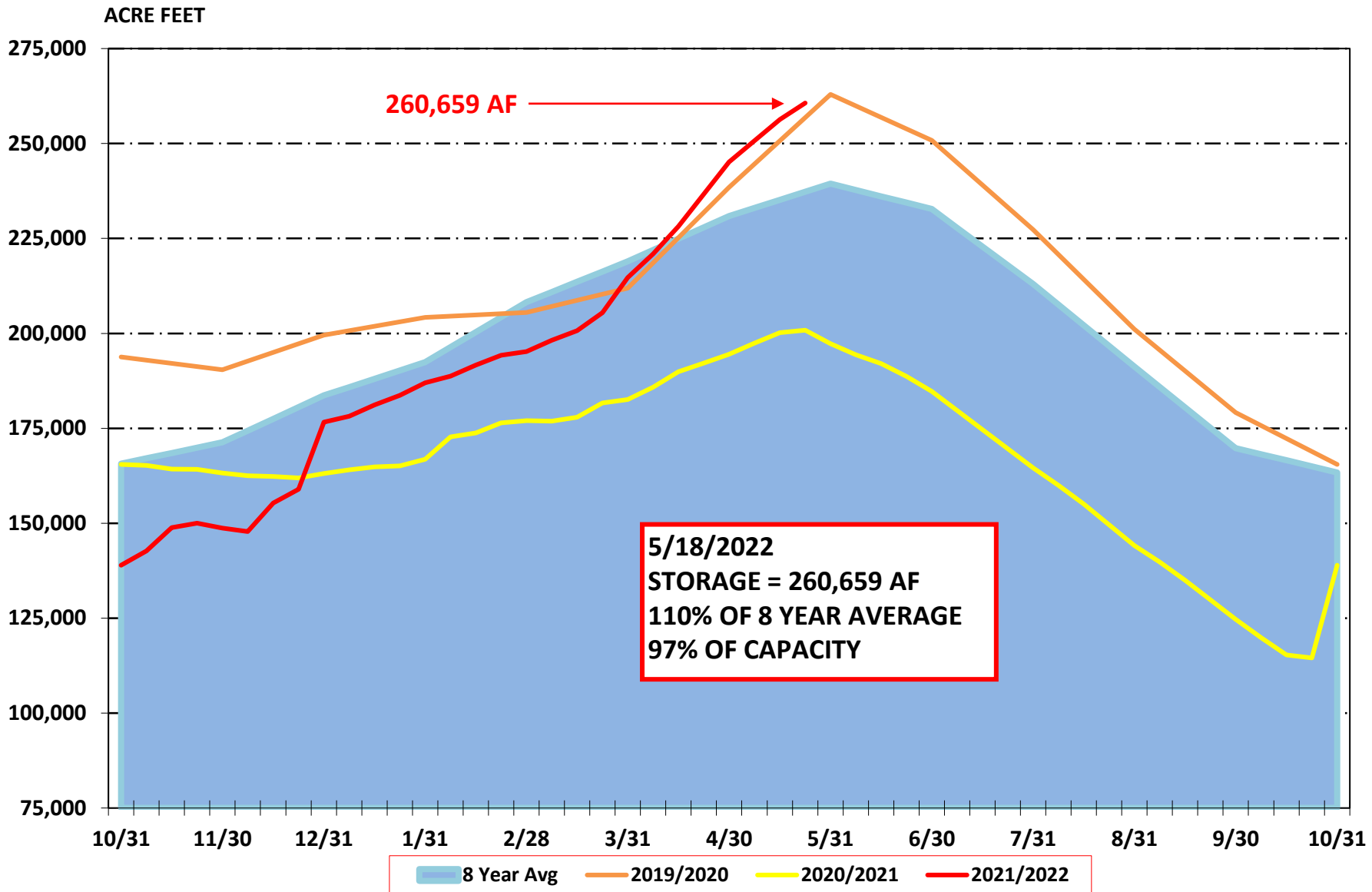
## MAY 1, 2022 WATER CONTENT

WATER CONTENT (IN.)

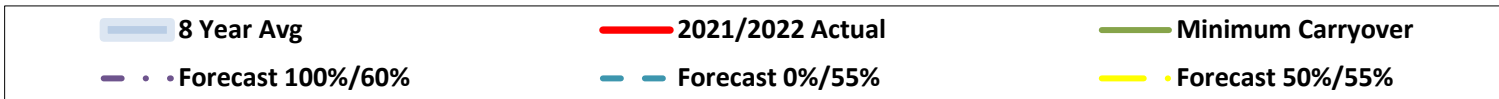
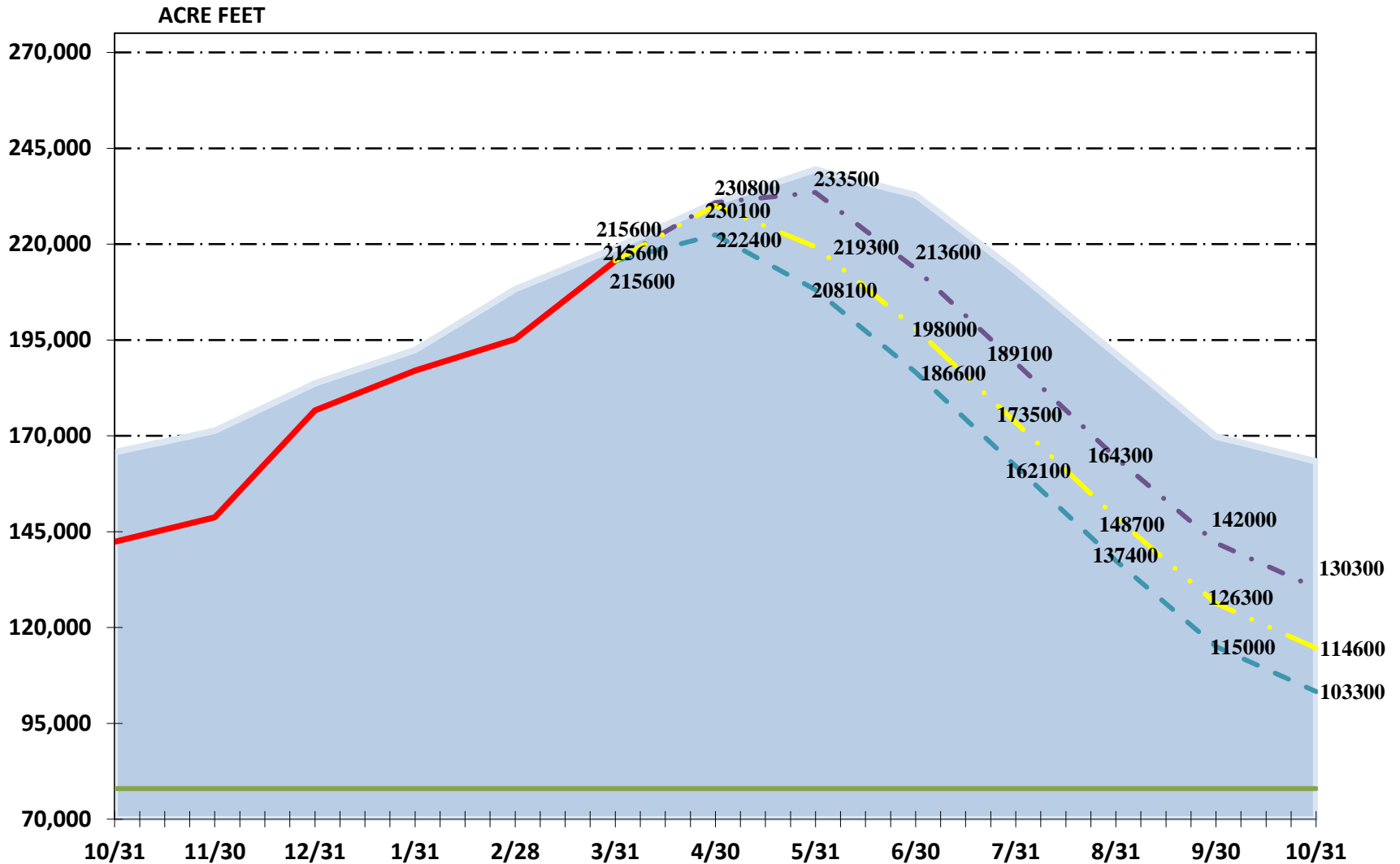


	BOWMAN LK.	FINDLEY PK.	ENGLISH MTN.	WEBBER PEAK	WEBBER LAKE
■ 2022	3.9	12.5	24.2	27.7	19.1
■ AVERAGE	10.5	21.5	37.5	40.6	25.8

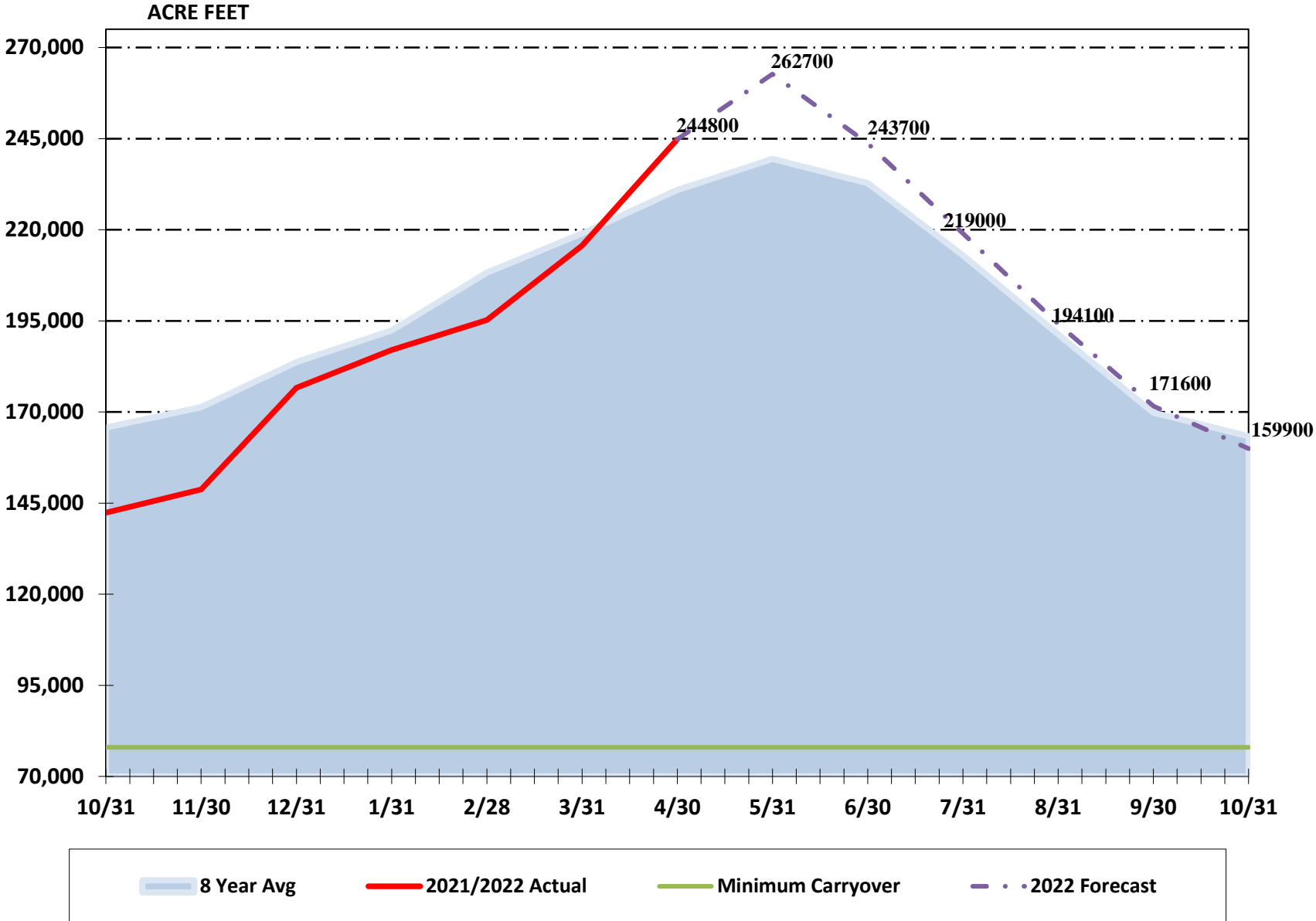
# NID RESERVOIR STORAGE



# 2022 STORAGE FORECAST (March)

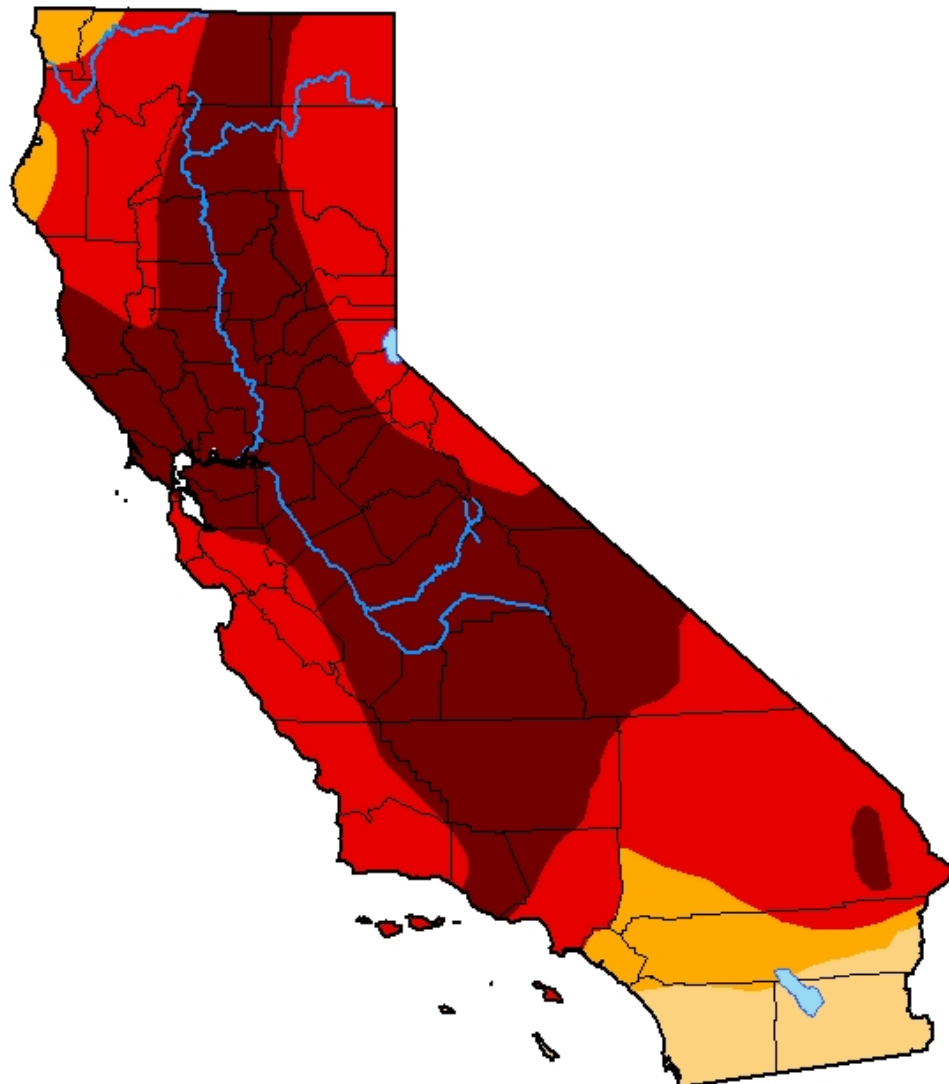


# 2022 STORAGE FORECAST (Current)



# U.S. Drought Monitor California

**October 12, 2021**  
(Released Thursday, Oct. 14, 2021)  
Valid 8 a.m. EDT



*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.00	100.00	100.00	93.93	87.18	45.66
<b>Last Week</b> <i>10-05-2021</i>	0.00	100.00	100.00	93.93	87.88	45.66
<b>3 Months Ago</b> <i>07-13-2021</i>	0.00	100.00	100.00	94.75	85.73	33.32
<b>Start of Calendar Year</b> <i>12-29-2020</i>	0.00	100.00	95.17	74.34	33.75	1.19
<b>Start of Water Year</b> <i>09-28-2021</i>	0.00	100.00	100.00	93.93	87.88	45.66
<b>One Year Ago</b> <i>10-13-2020</i>	15.40	84.60	67.54	35.61	12.74	0.00

*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>*

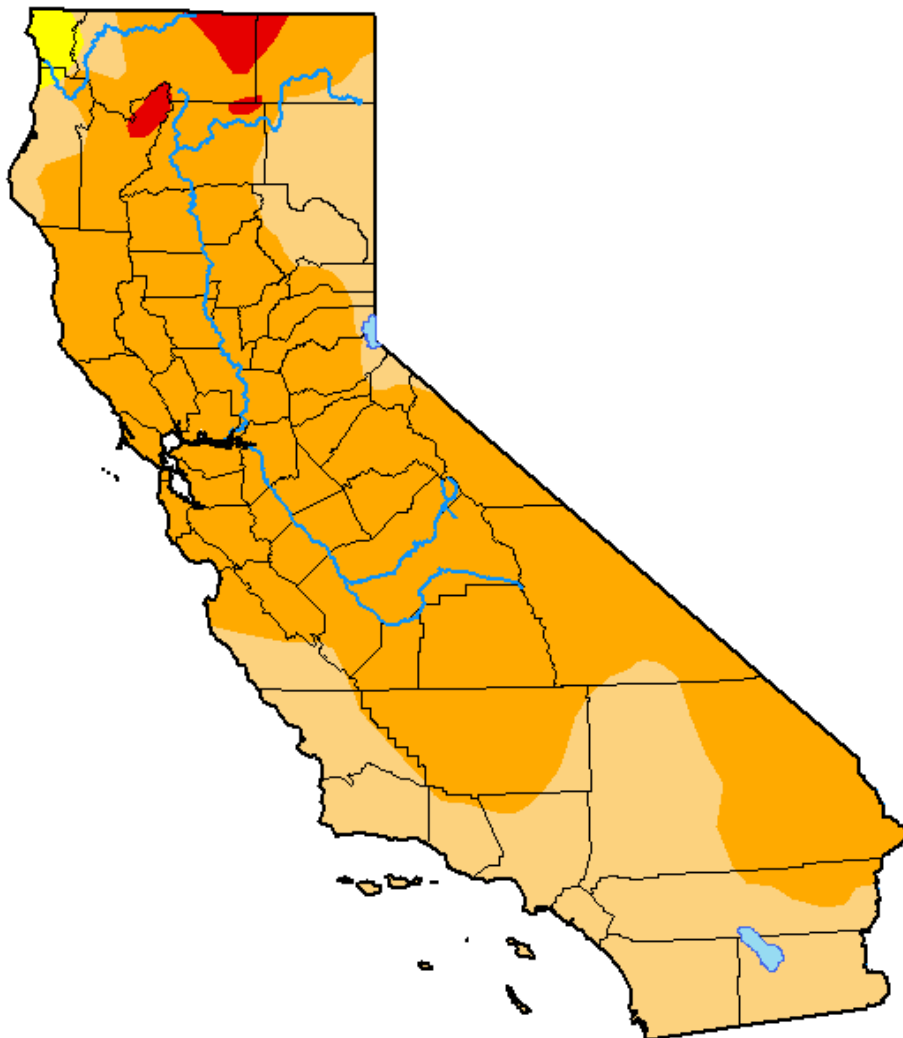
*Author:*

Adam Hartman  
NOAA/NWS/NCEP/CPC









# U.S. Drought Monitor California

**February 8, 2022**  
(Released Thursday, Feb. 10, 2022)  
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:***

Deborah Bathke  
National Drought Mitigation Center



**droughtmonitor.unl.edu**

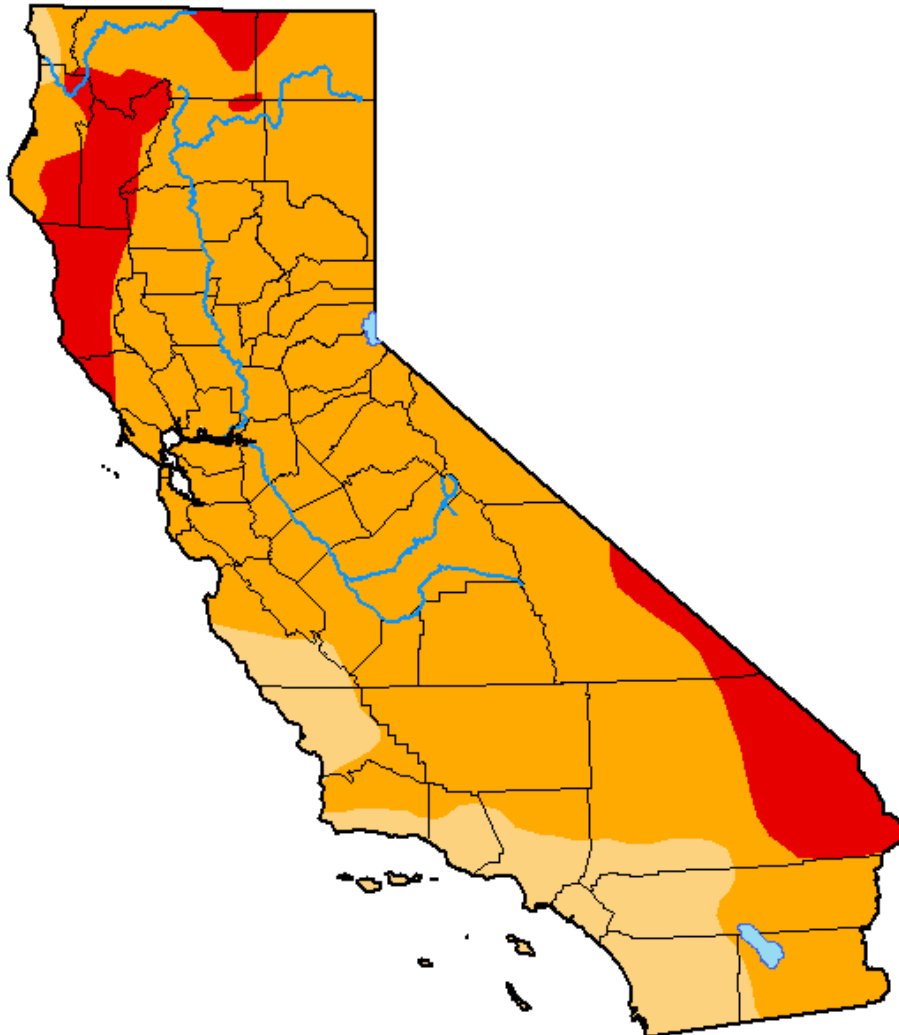


# U.S. Drought Monitor California

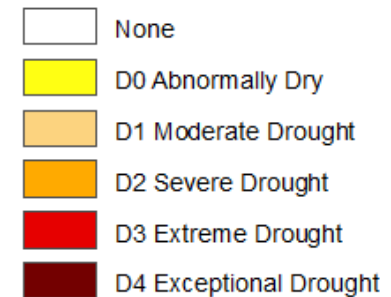
March 8, 2022

(Released Thursday, Mar. 10, 2022)

Valid 7 a.m. EST



### Intensity:



*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:

Brian Fuchs  
National Drought Mitigation Center



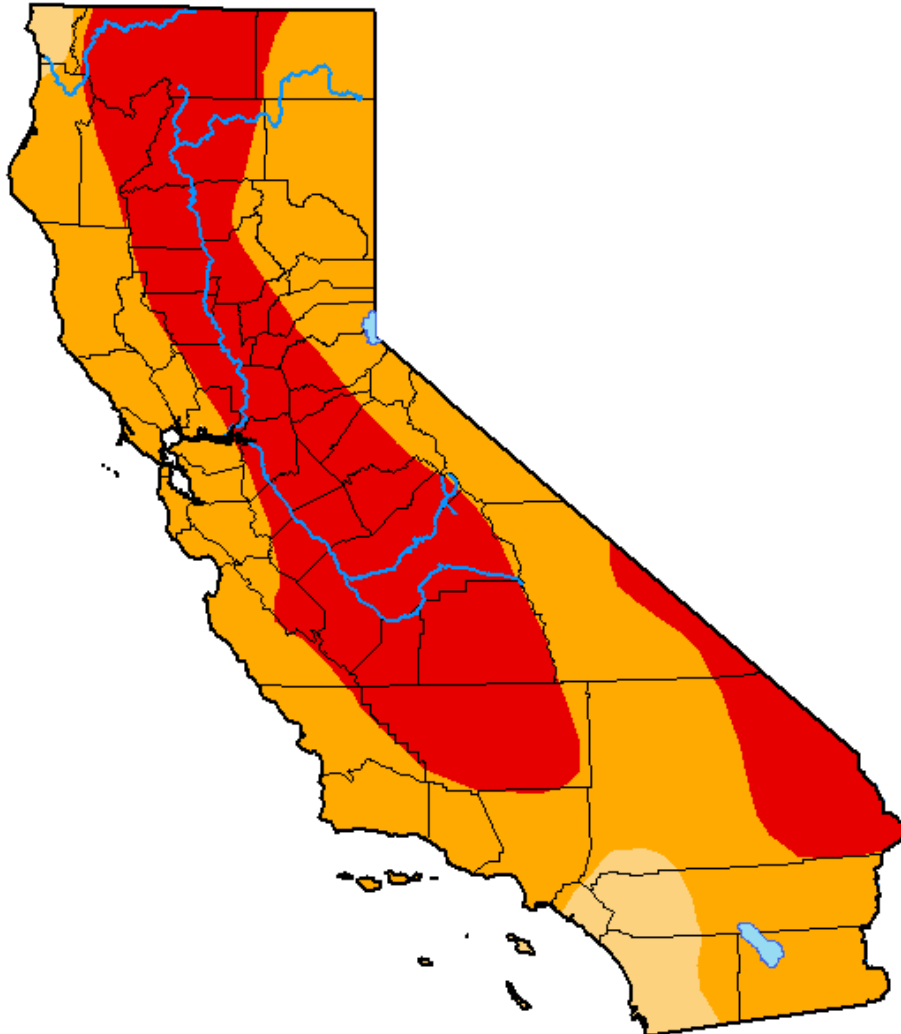
[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

# U.S. Drought Monitor California







April 19, 2022

(Released Thursday, Apr. 21, 2022)

Valid 8 a.m. EDT



### 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:

Brad Rippey  
U.S. Department of Agriculture



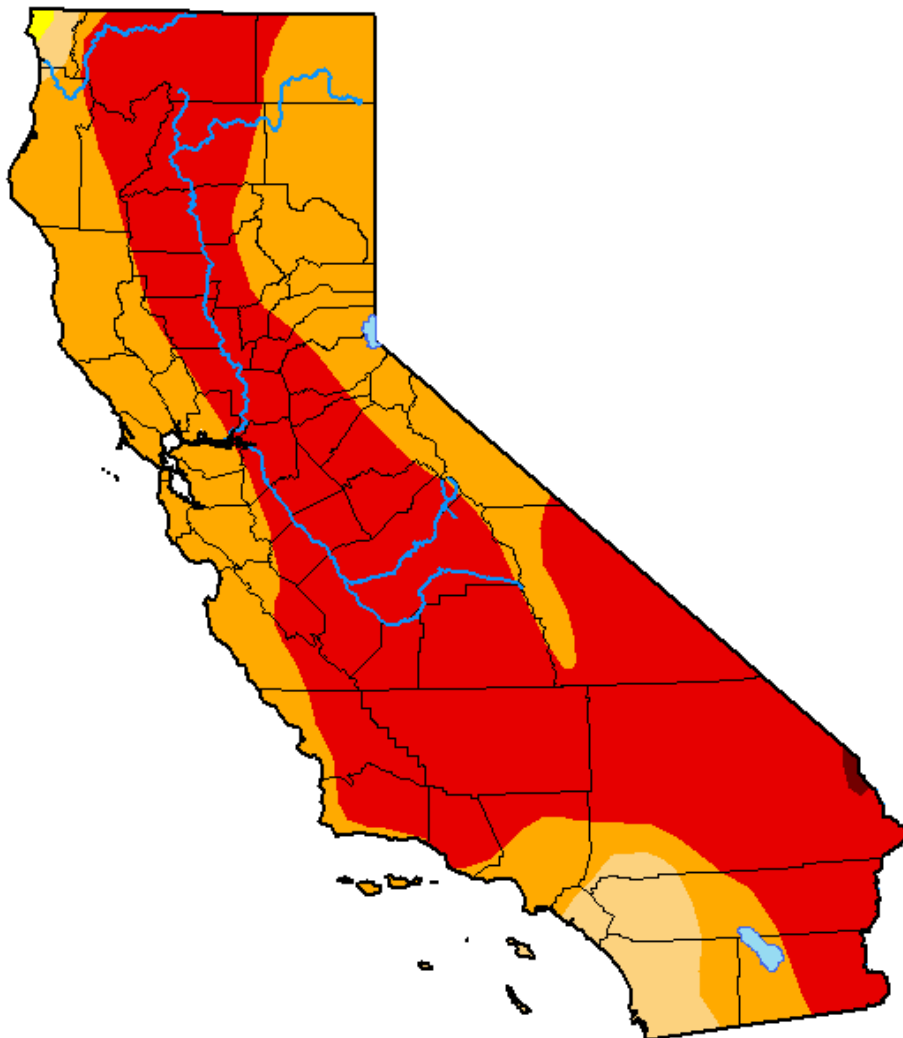
[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

# U.S. Drought Monitor California







May 17, 2022

(Released Thursday, May. 19, 2022)

Valid 8 a.m. EDT



### 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](https://droughtmonitor.unl.edu)

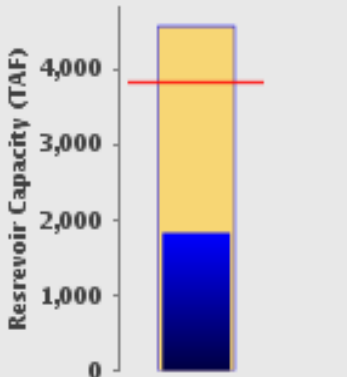


# CURRENT RESERVOIR CONDITONS



## Lake Shasta Conditions

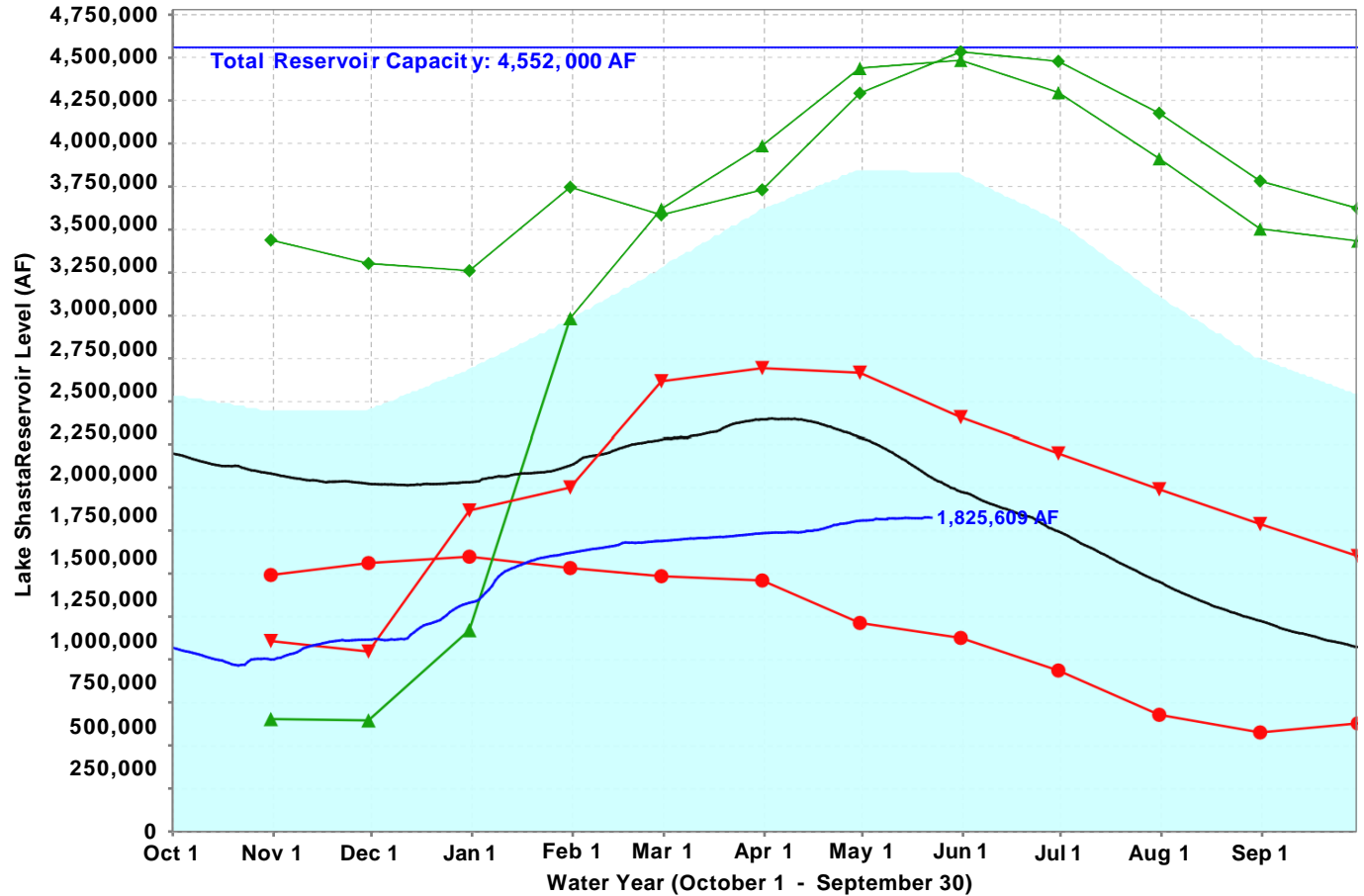
(as of Midnight - May 22, 2022)



Current Level: 1,825,609 AF

40% (Total Capacity) | 48% (Historical Avg.)

Lake Shasta Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 22, 2022



■ Historical Average   
 — Total Reservoir Capacity   
 ● 1976-1977 (Driest)   
 ▲ 1977-1978   
 ◆ 1982-1983 (Wettest)  
— 2020-2021   
 ▼ 2014-2015   
— Current: 2021-2022

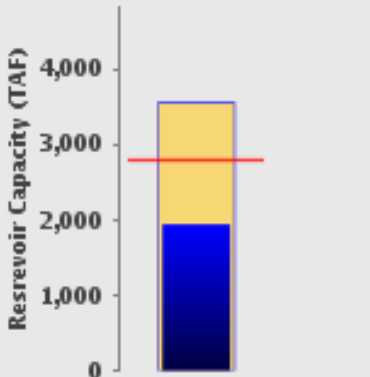


# CURRENT RESERVOIR CONDITONS



## Lake Oroville Conditions

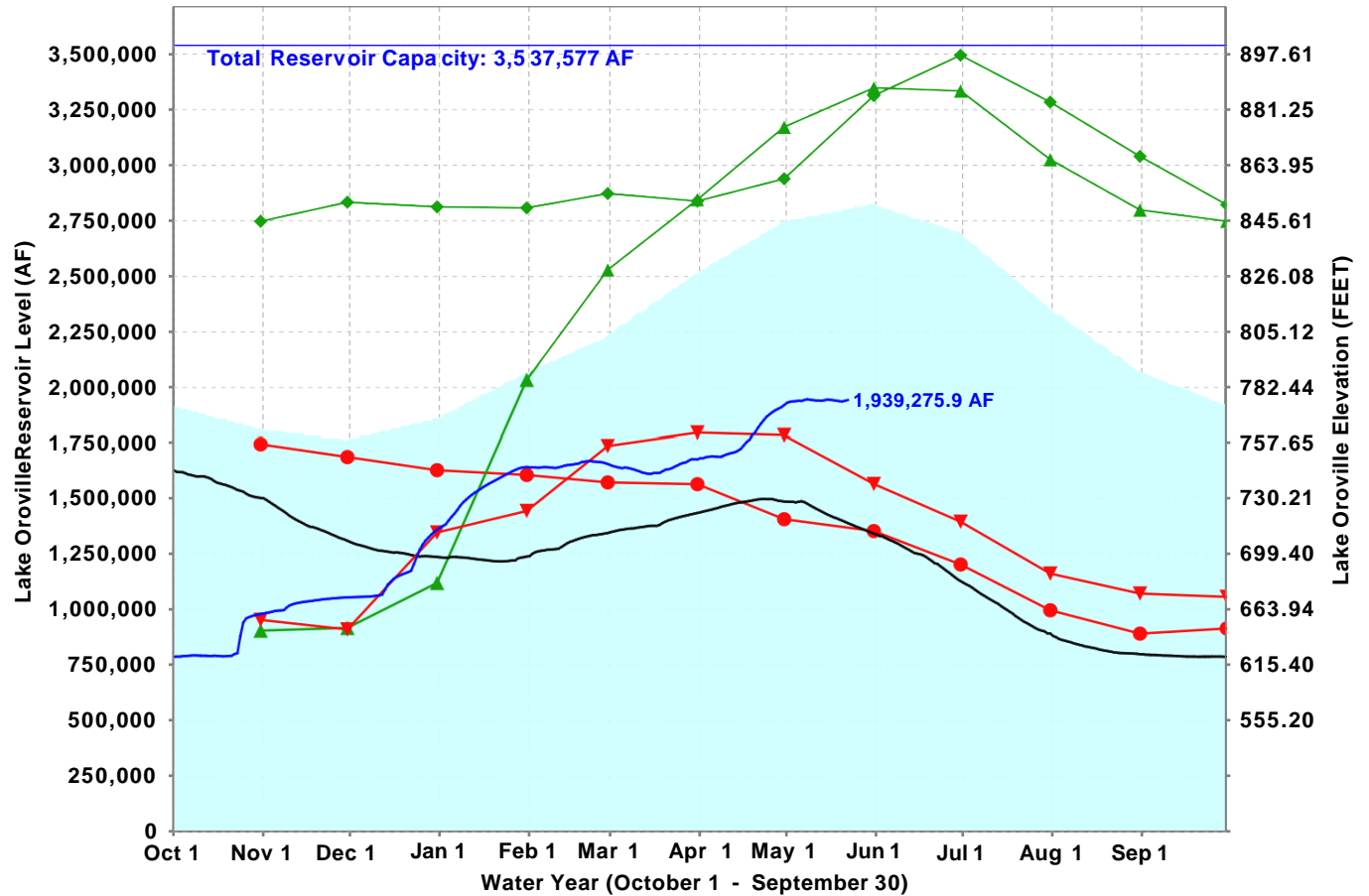
(as of Midnight - May 22, 2022)



Current Level: 1,939,275.9 AF

55% (Total Capacity) | 69% (Historical Avg.)

Lake Oroville Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 22, 2022



■ Historical Average   
 — Total Reservoir Capacity   
 ● 1976-1977 (Driest)   
 ▲ 1977-1978   
 ◆ 1982-1983 (Wettest)  
— 2020-2021   
 ▼ 2014-2015   
— Current: 2021-2022

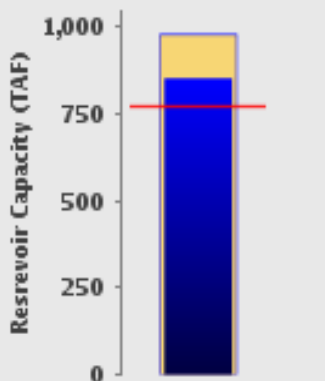


# CURRENT RESERVOIR CONDITONS



## Folsom Lake Conditions

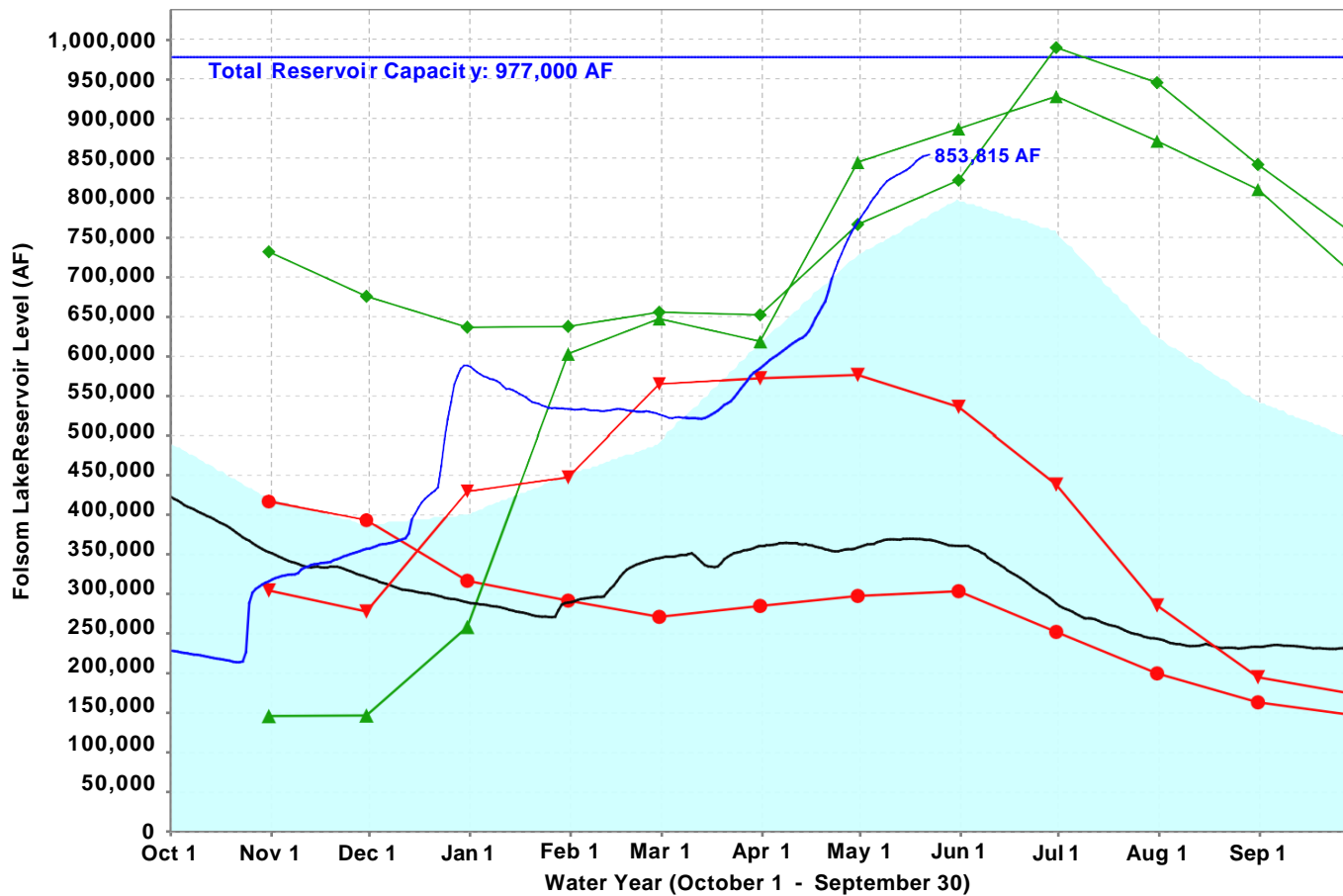
(as of Midnight - May 22, 2022)



Current Level: 853,815 AF

87% (Total Capacity) | 110% (Historical Avg.)

Folsom Lake Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 22, 2022



■ Historical Average 
 — Total Reservoir Capacity 
 ● 1976-1977 (Driest) 
 ▲ 1977-1978 
 ◆ 1982-1983 (Wettest) 
 — 2020-2021 
 ▼ 2014-2015 
 — Current: 2021-2022

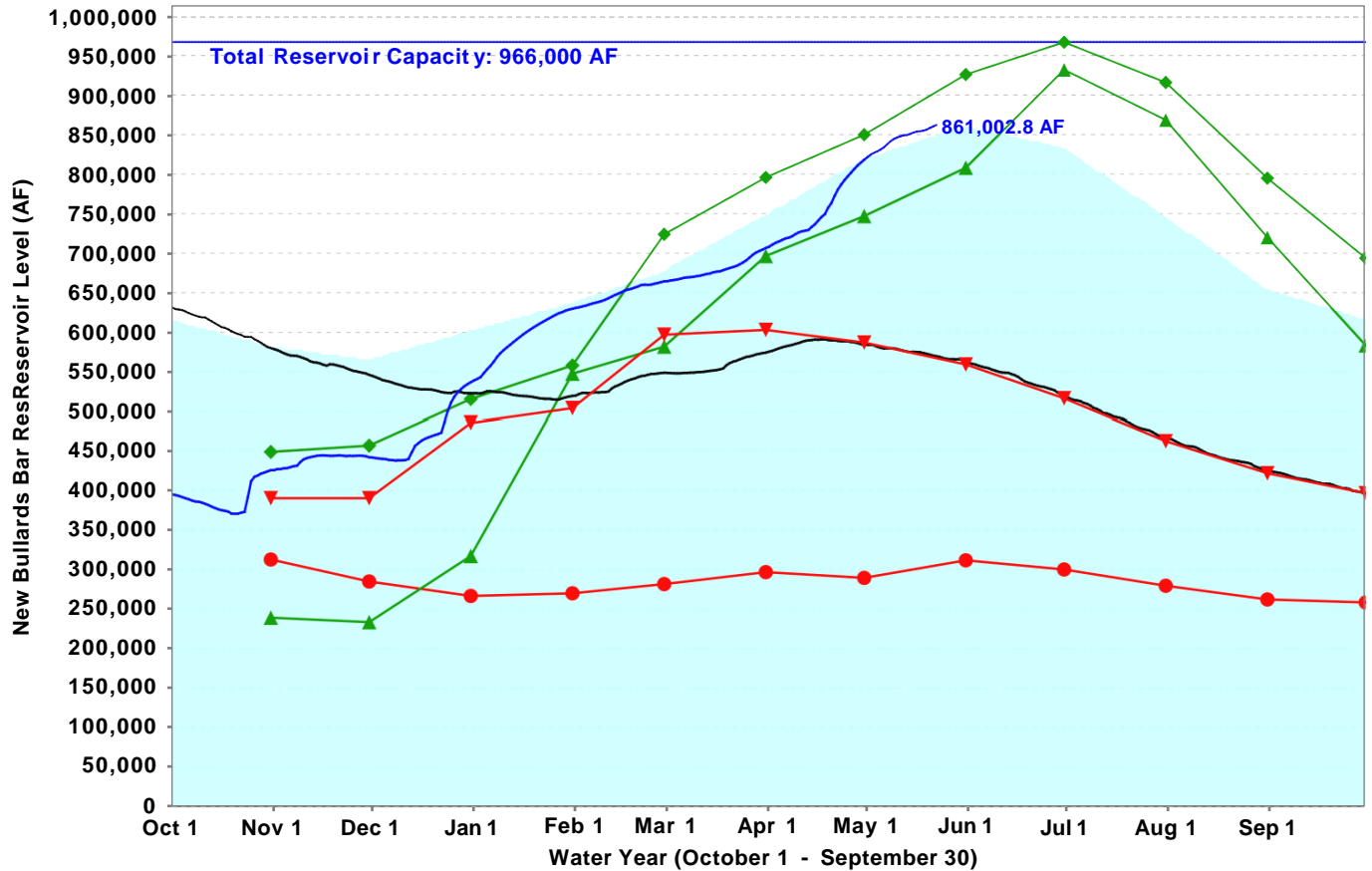




# CURRENT RESERVOIR CONDITONS

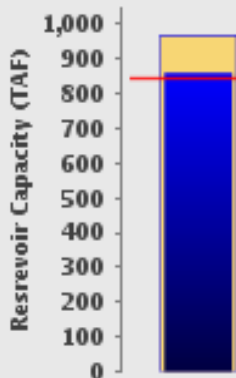


**New Bullards Bar Res Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 22, 2022**



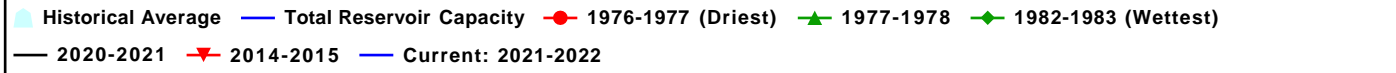
## New Bullards Bar Res Conditions

(as of Midnight - May 22, 2022)



Current Level: 861,002.8 AF

89% (Total Capacity) | 102% (Historical Avg.)

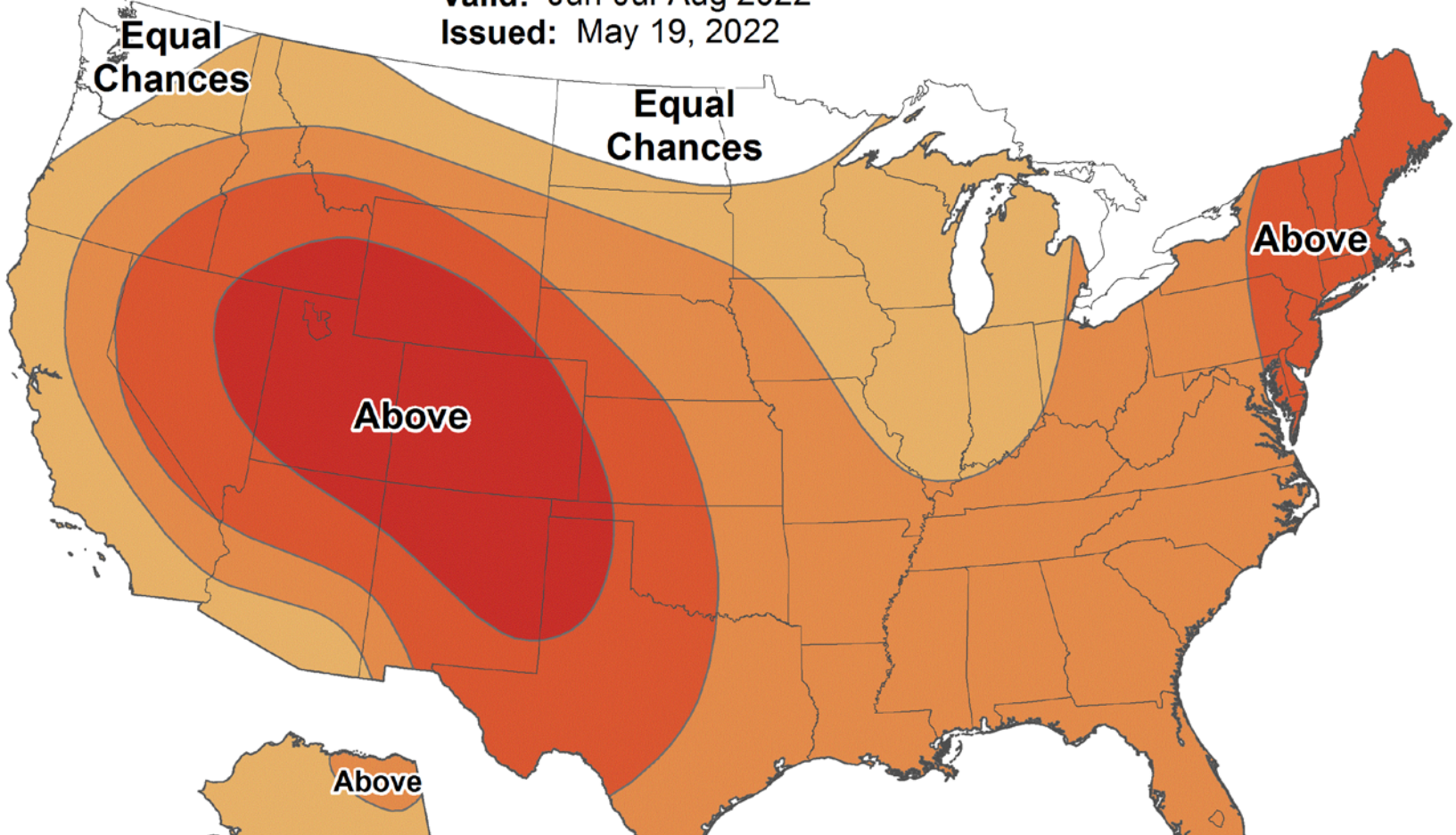




# Seasonal Temperature Outlook



Valid: Jun-Jul-Aug 2022  
Issued: May 19, 2022



### Probability (Percent Chance)

Above Normal		Below Normal	
Leaning Above	33-40%	33-40%	Leaning Below
	40-50%	40-50%	
	50-60%	50-60%	
	60-70%	60-70%	
Likely Above	70-80%	70-80%	Likely Below
	80-90%	80-90%	
	90-100%	90-100%	
		Equal Chances	

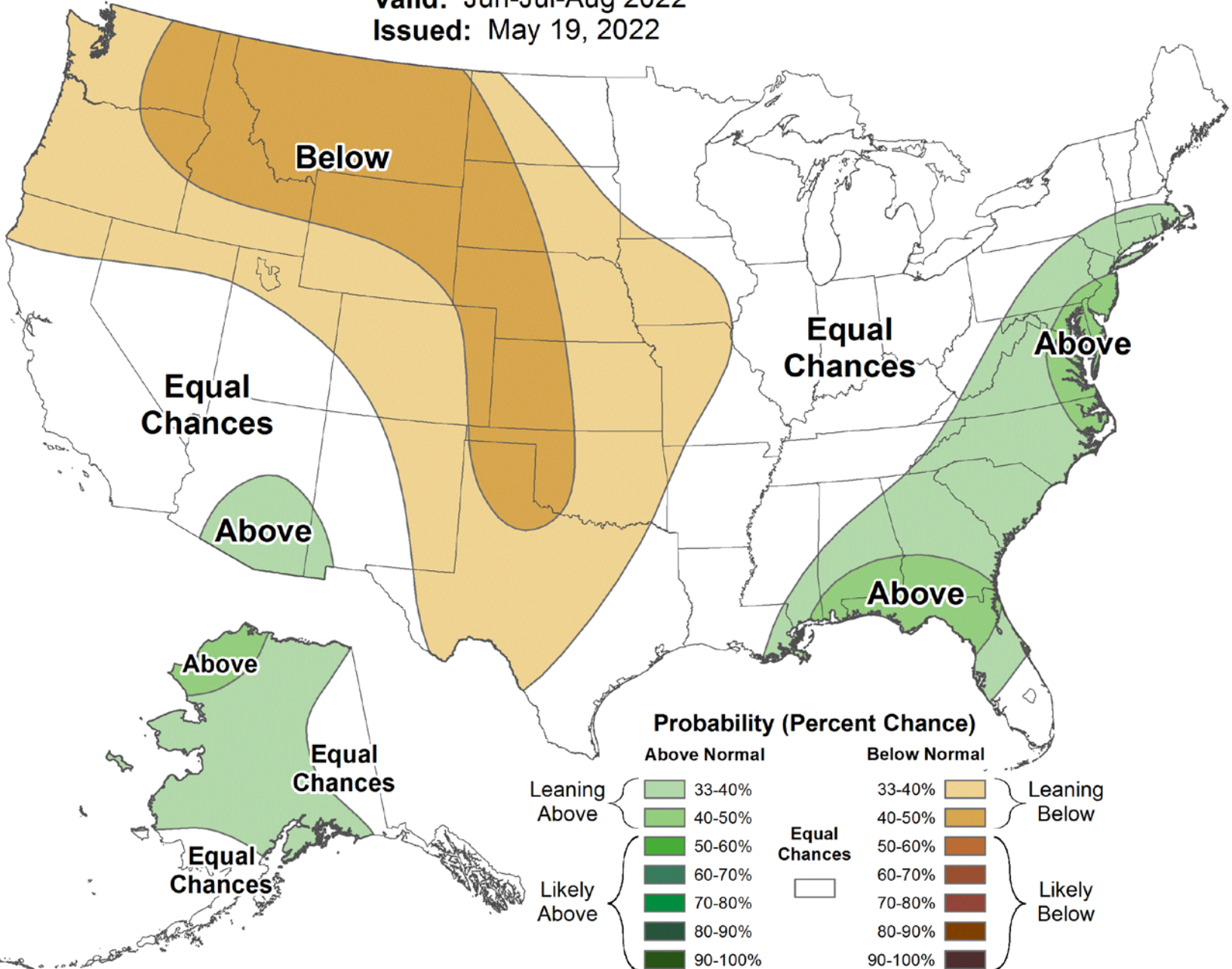




# Seasonal Precipitation Outlook



Valid: Jun-Jul-Aug 2022  
Issued: May 19, 2022



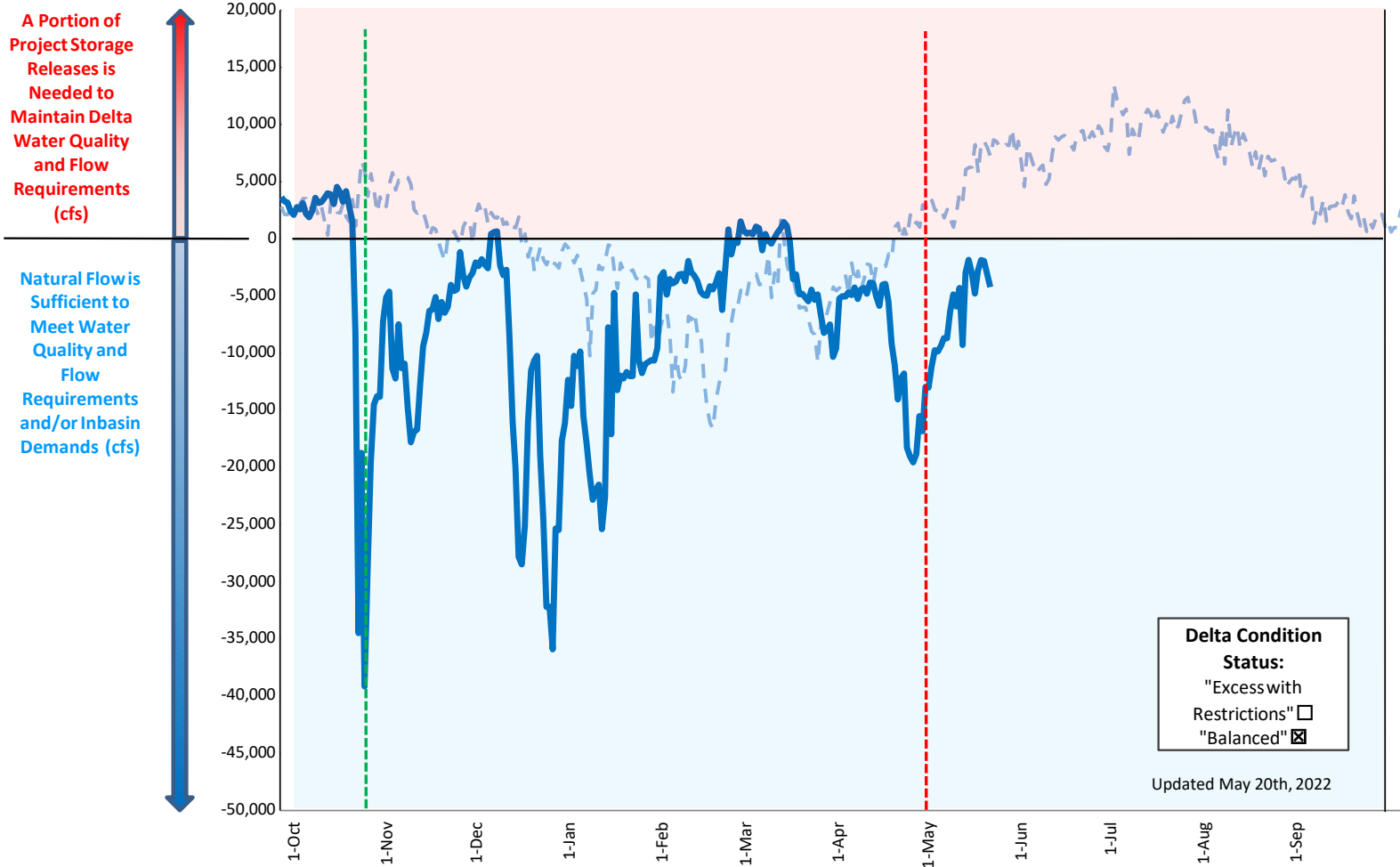


# TERM

# 91 Not In Effect

- Water Year 2022 Delta Flows Available to Meet Water Quality and Flow Requirements
- Water Year 2021 Flows
- - - Term 91 Curtailment Begins Apr 29, 2021
- - - Term 91 Curtailment Suspended Oct 26, 2021


WATER YEAR 2022 (October 1, 2021 through September 30, 2022)






← Back 


 True Color  Last 30 days

 Date: May 9th 2022  
Layer: True Color  
Pixel Resolution: 20m


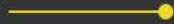


 Date: May 6th 2022  
Layer: True Color  
Pixel Resolution: 20m

 Date: May 4th 2022  
Layer: True Color  
Pixel Resolution: 20m


 Date: May 1st 2022  
Layer: True Color  
Pixel Resolution: 20m

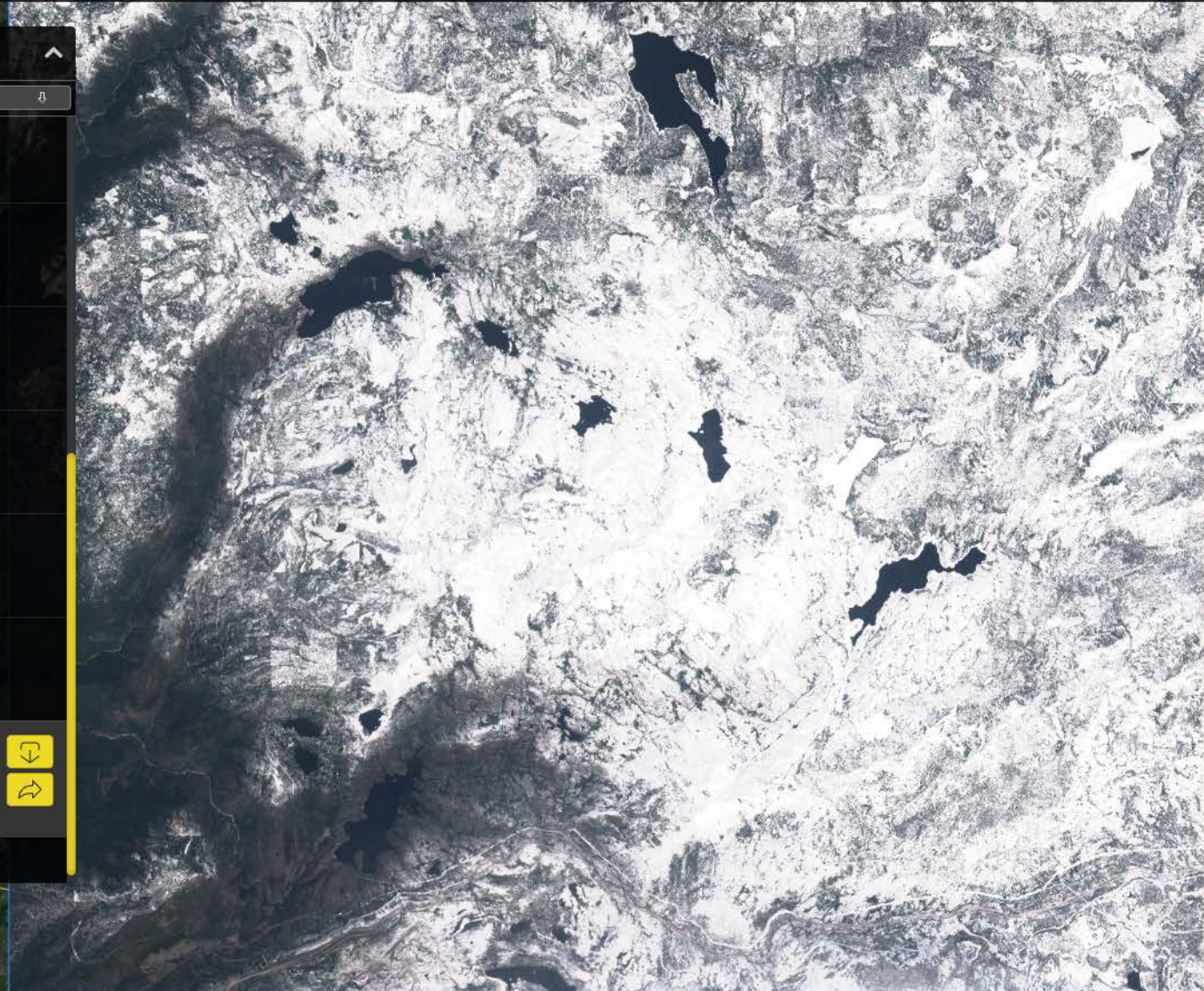
 Date: Apr 29th 2022  
Layer: True Color  
Pixel Resolution: 20m

 Date: Apr 26th 2022  
Layer: True Color  
Pixel Resolution: 20m

 Date: Apr 24th 2022  
Layer: True Color  
Pixel Resolution: 20m  
Transparency:   
  


SHOW MORE

 **Latitude:** 39.43135417  
**Longitude:** -120.37977163



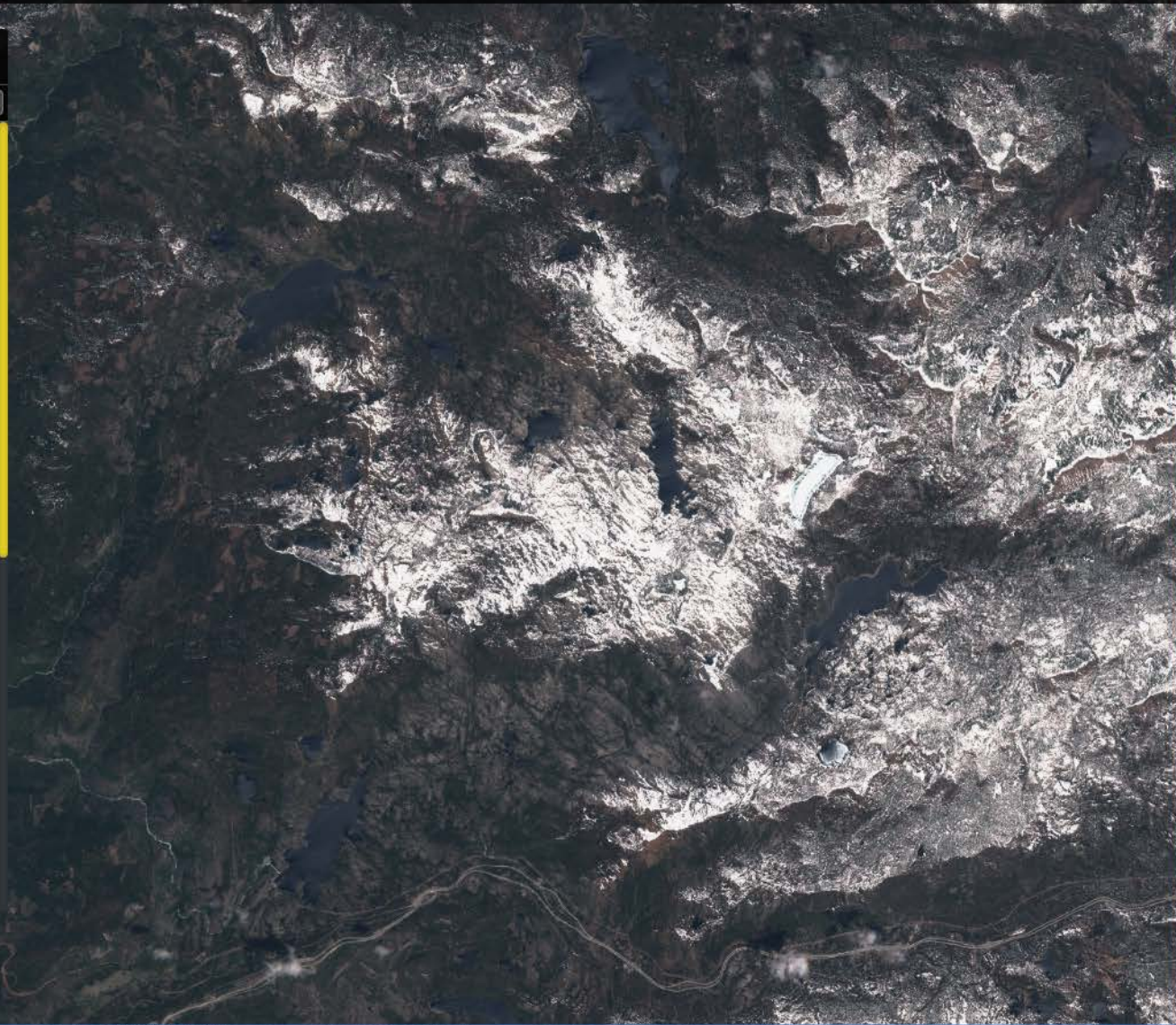


← Back  ↗

True Color  Last 30 days 

 Not happy with low resolution?  
Try selecting a smaller Area of Interest.

	Date: May 21st 2022 Layer: True Color Pixel Resolution: 20m	
	Date: May 19th 2022 Layer: True Color Pixel Resolution: 20m Transparency: <input type="range"/>	 
	Date: May 16th 2022 Layer: True Color Pixel Resolution: 20m	
	Date: May 14th 2022 Layer: True Color Pixel Resolution: 20m	
	Date: May 11th 2022 Layer: True Color Pixel Resolution: 20m	
	Date: May 9th 2022 Layer: True Color Pixel Resolution: 20m	
	Date: May 6th 2022 Layer: True Color	
	Latitude: 39.44241027 Longitude: -120.36736500	



# Conservation Raw Water Sales 2021



- ▶ New Customers
  - ▶ 88 new customers prior to stage II drought
    - ▶ Total purchased by new customers = 113.25 MI (1,027 ac ft)
- ▶ Increased Purchases
  - ▶ 81 customers requested increased flows
    - ▶ Total in increased purchase = 36 MI (326.5 ac ft)
- ▶ Decrease in Purchase
  - ▶ 134 customers voluntarily decreased
    - ▶ Volume conserved = 210 MI (1,905 ac ft)



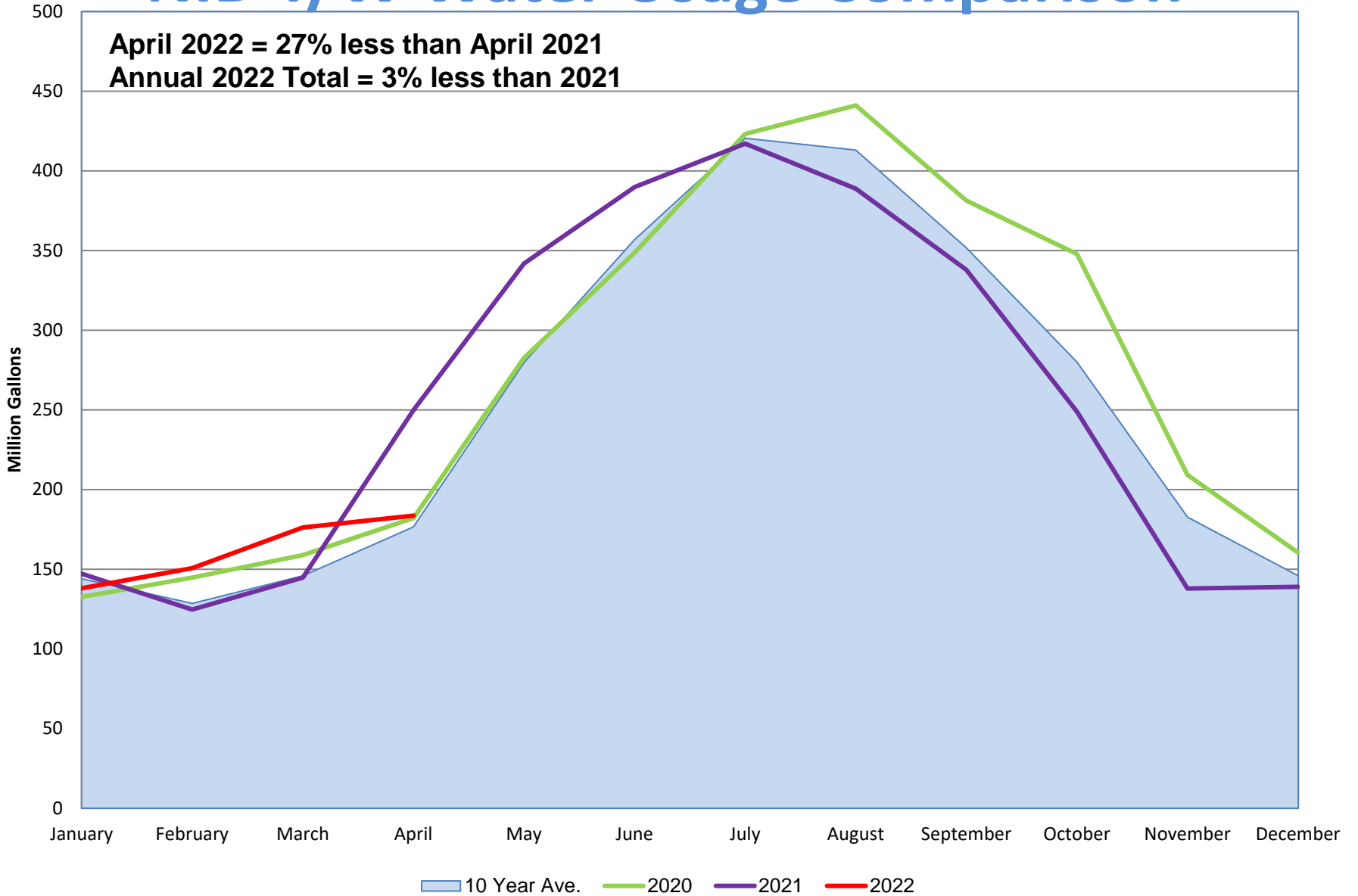
# Conservation

## Raw Water Sales 2022



- ▶ New Customers
  - ▶ 164 new customers to date
    - ▶ Total purchased by new customers = 250.5MI (2,272 ac ft)
- ▶ Increased Purchases
  - ▶ 84 customers requested increased flows
    - ▶ Total in increased purchase = 130.5 MI (1,185 ac ft)
- ▶ Decrease in Purchase
  - ▶ 86 customers voluntarily decreased
    - ▶ Volume conserved = 152.5 MI (1,383 ac ft)
- ▶ Two Year Total
- ▶ 3,299 ac ft new purchases
- ▶ 1,512 ac ft increased purchases
- ▶ 3,288 ac ft purchase reductions (conservation)

# NID T/W Water Usage Comparison



# SWRCB Emergency Regulation



- ▶ Regulations adopted by SWRCB May 24, 2022
- ▶ Expected to be passed by OAL by June 10th
  - ▶ Required NID Actions:
    - ▶ Submit to DWR supply and demand assessment by June 1, 2022
    - ▶ Shall implement by June 10, 2022 the demand reduction actions identified in waters shortage contingency plan for a shortage level of ten to twenty percent (level 2)
    - ▶ Use of of potable water for irrigation of non-functional turf at commercial, industrial, and institutional sites is limited
      - ▶ Exempt if necessary for the health of trees and other perennial non-turf plantings, or for immediate health and safety needs
      - ▶ Infraction of the above is punishable by fine of up to \$500 per day
      - ▶ Is subject to reconsideration of the SWRCB



## Stage 2 – 20% Supply Shortage

Forecast April 1 Available Supply: 211,499 to 188,000 AF Actions include Stage 1

plus those listed below

Treated Water and Municipal Water Customers - Actions to Reduce Demand up to 20 Percent

- Outdoor irrigation limited to every other day and maximum three days per week.
- Odd address number can irrigate outdoors on Tuesday, Thursday, and Saturday.
- Even address number can irrigate outdoors on Wednesday, Friday, and Sunday.
- Customers shall adjust irrigation controllers to reduce usage for each zone by 20 percent.
- Corresponding to Fall Daylight Saving Time, customers shall strive to limit outdoor irrigation to only once per week.

Ag Water Customers - Actions to Reduce Demand up to 20 Percent

- Limit new water sales and increases to 1 miners inch.
- **Impose changes to delivery schedules to achieve 20 percent demand reductions.**

District Actions

- **Declare no new or increased surplus water availability.**
- Declare no new or increase in Fall/Winter deliveries.
- Communicate mandatory reduction targets to customers.
- Inform Municipal customers of mandatory 20 percent reduction requirement.
- Distribution system flushing only for public health & safety.
- **Organize Drought Hardship Committee.**
- Purchase available Contract water to achieve a target carryover of 110,000 acre feet.
- **Implement Stage 2 conservation rates.**

Enforcement Measures

- A written warning will be issued for a first violation.
- A District imposed fine of \$250 for a second violation, and any subsequent violation, and doubling with each subsequent violation up to a maximum of \$1,000 for any single violation.
- Upon a fourth violation, or upon an earlier violation the General Manager determines to create a significant threat to the goals of the stage, the General Manager may order the installation of a flow restrictor on service lines in question.
- Similar penalties, fines and charges may be implemented by the District as needed to enforce the restrictions on specific prohibited water uses.