



# Utah Water Conditions (drought webinar)

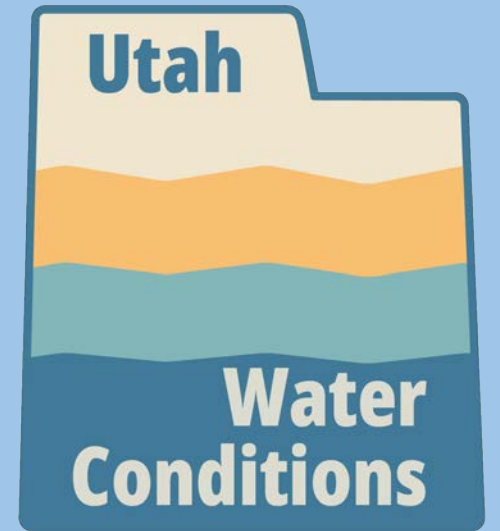
The meeting will begin shortly



Thank you to our contributors

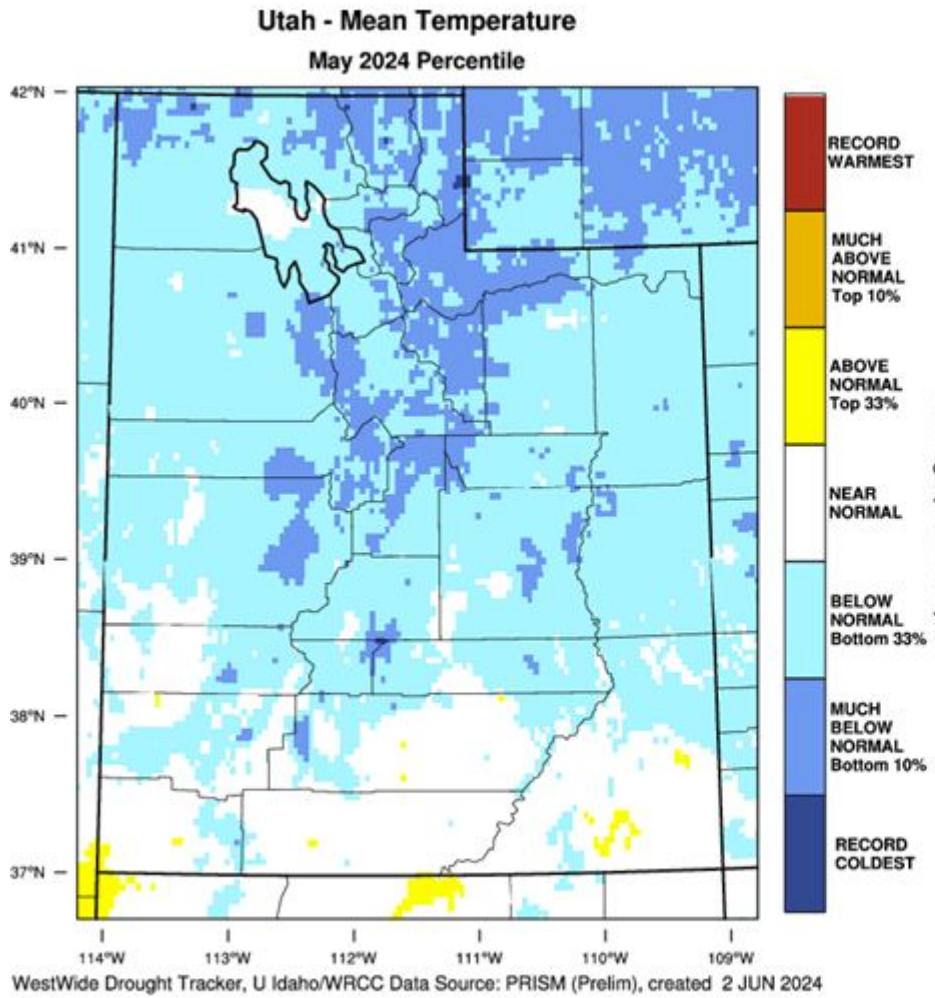


# Utah Water Conditions Update

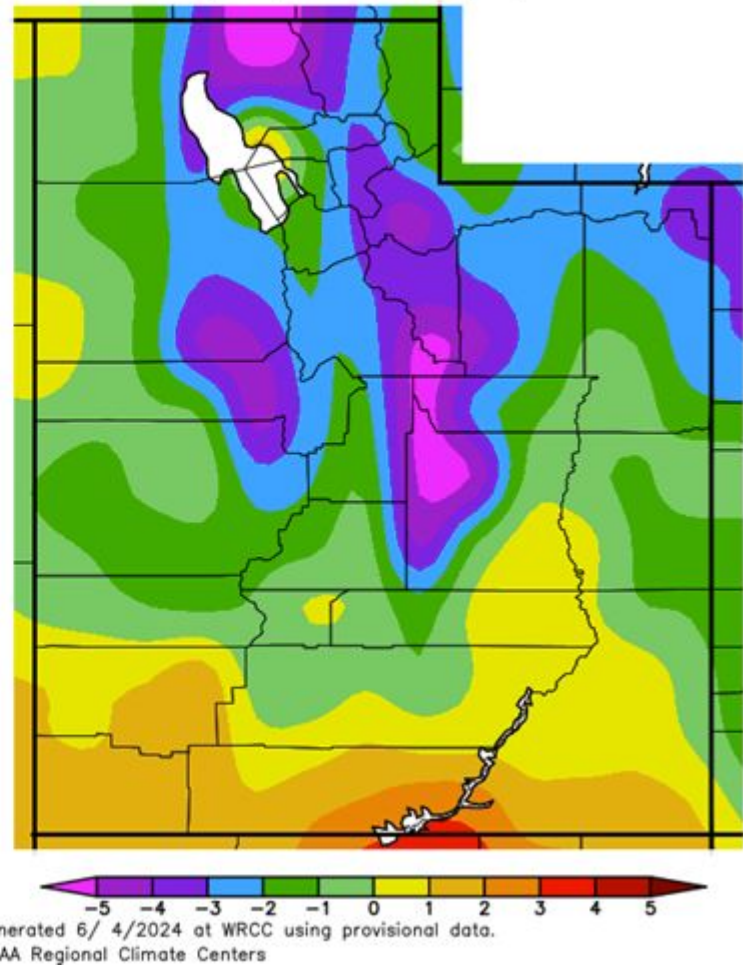


June 4, 2024

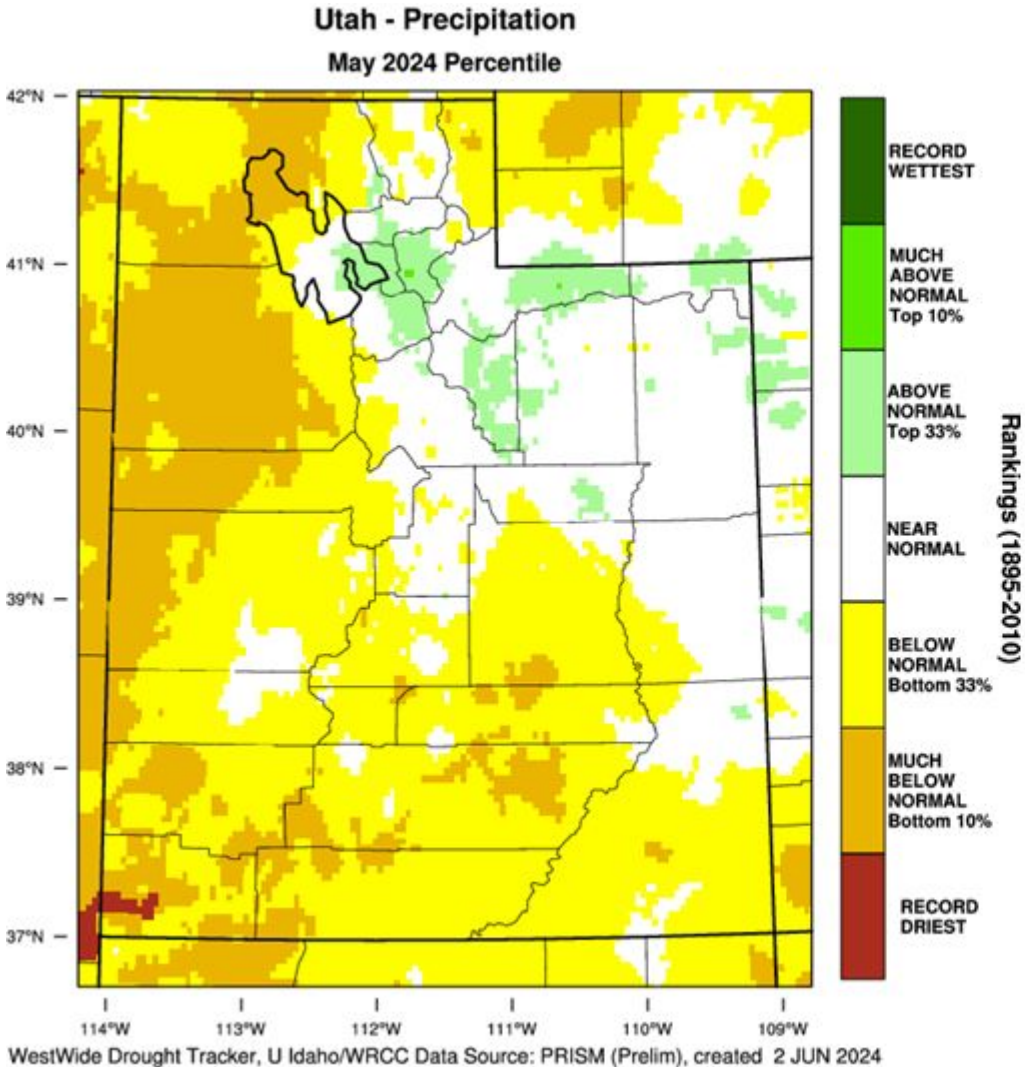
# Temperature trends



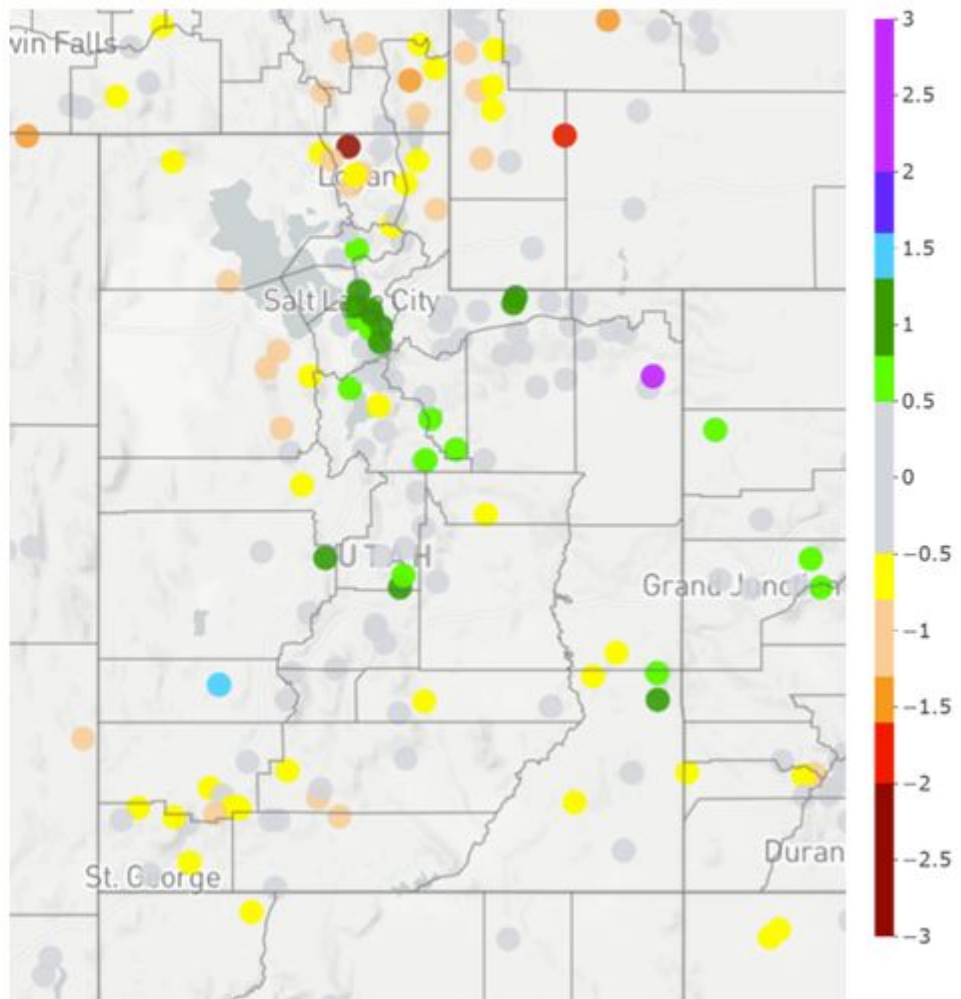
Ave. Temperature dep from Ave (deg F)  
5/21/2024 – 6/3/2024



# Precipitation Patterns



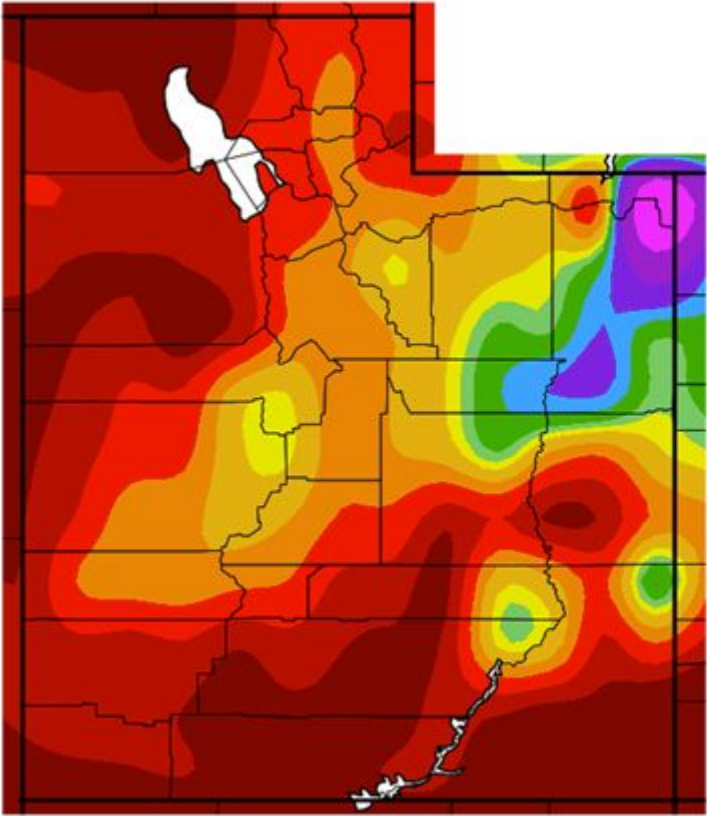
30-day Standardized Precipitation Index: 2024/05/04 - 2024/06/02



Agency - Utah Climate Center  
 Presenter - Jon Meyer

# Precipitation Patterns

Percent of Average Precipitation (%)  
5/21/2024 – 6/3/2024

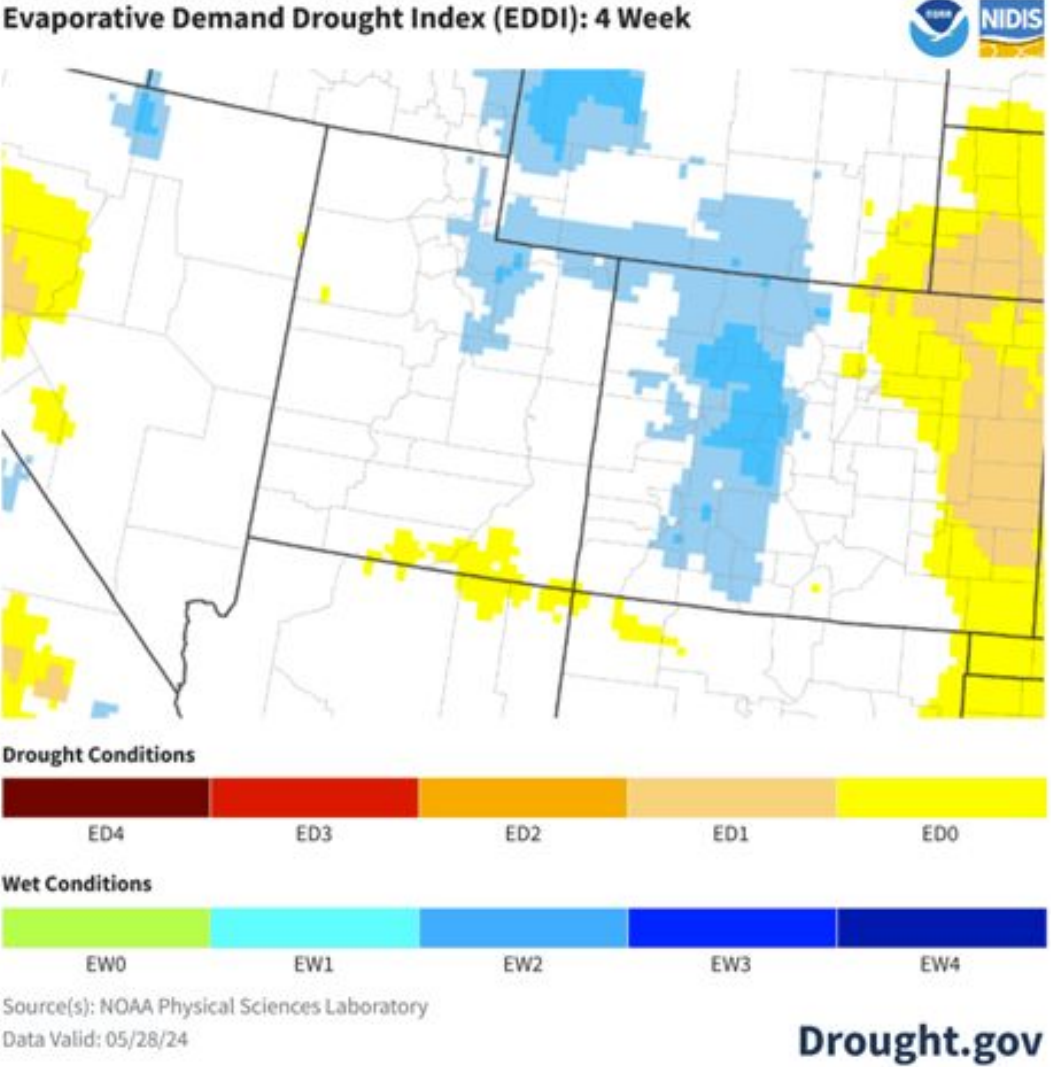


5 25 50 70 90 100 110 130 150 200 300  
Generated 6/ 4/2024 at WRCC using provisional data.  
NOAA Regional Climate Centers

168-Hour Stage IV Precipitation Analysis (in)

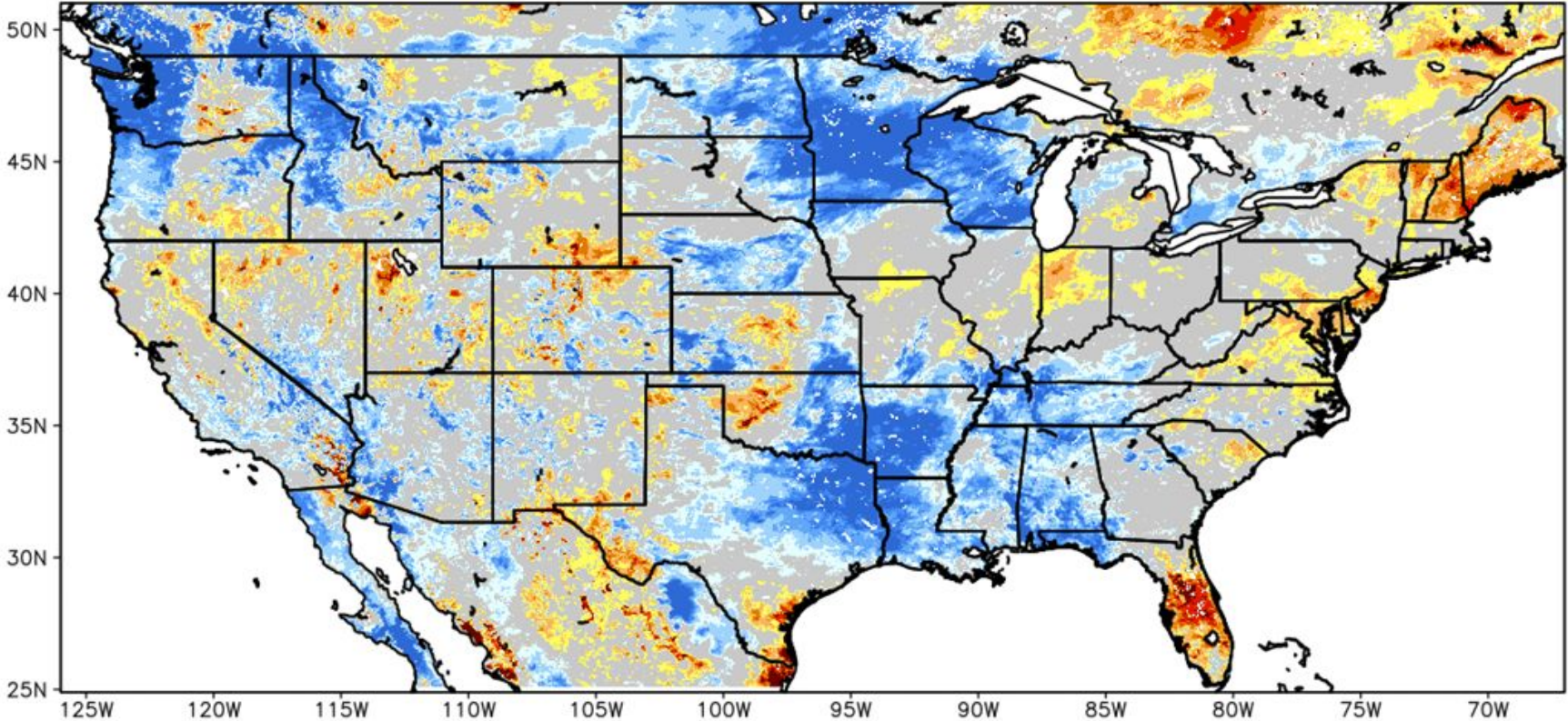


# Evaporative Demand



# Soil Moisture Percentile

SPoRT-LIS 0-40 cm Soil Moisture percentile valid 04 Jun 2024



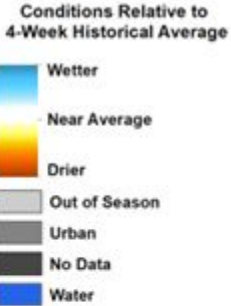
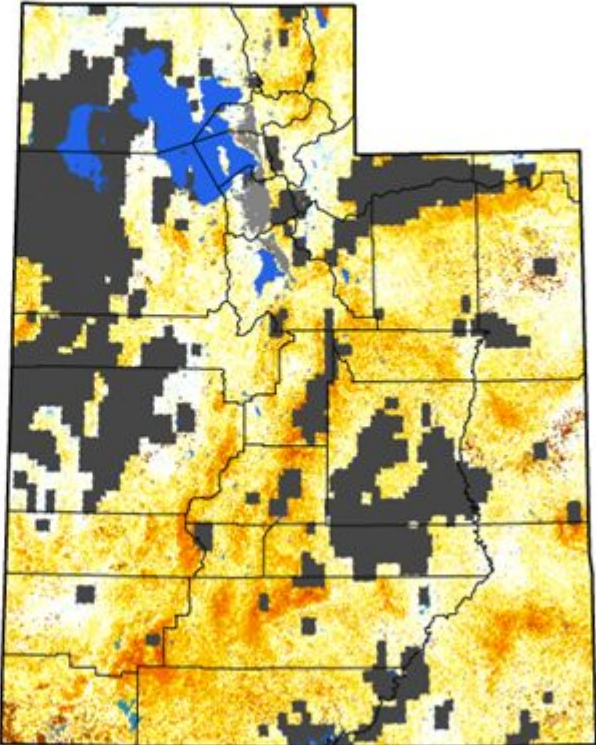
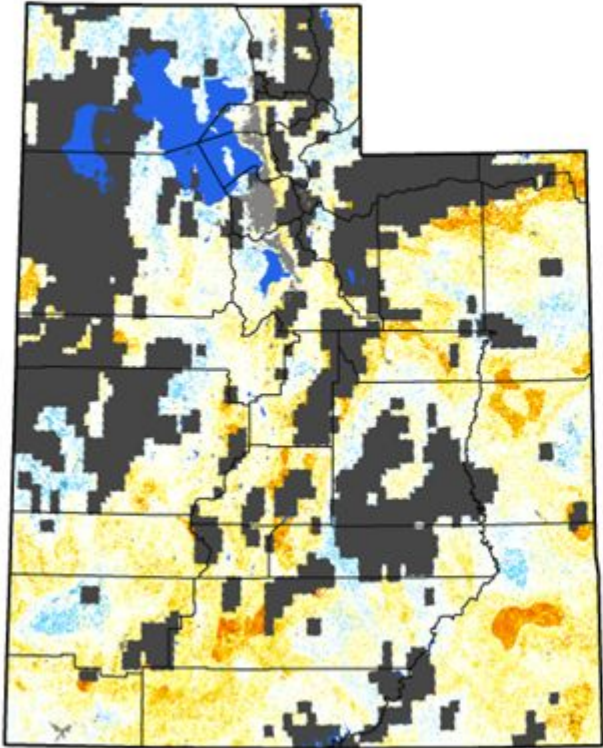
Agency - Utah Climate Center  
Presenter - Jon Meyer

\*\*NOTE\*\*  
\*\*Experimental\*\*

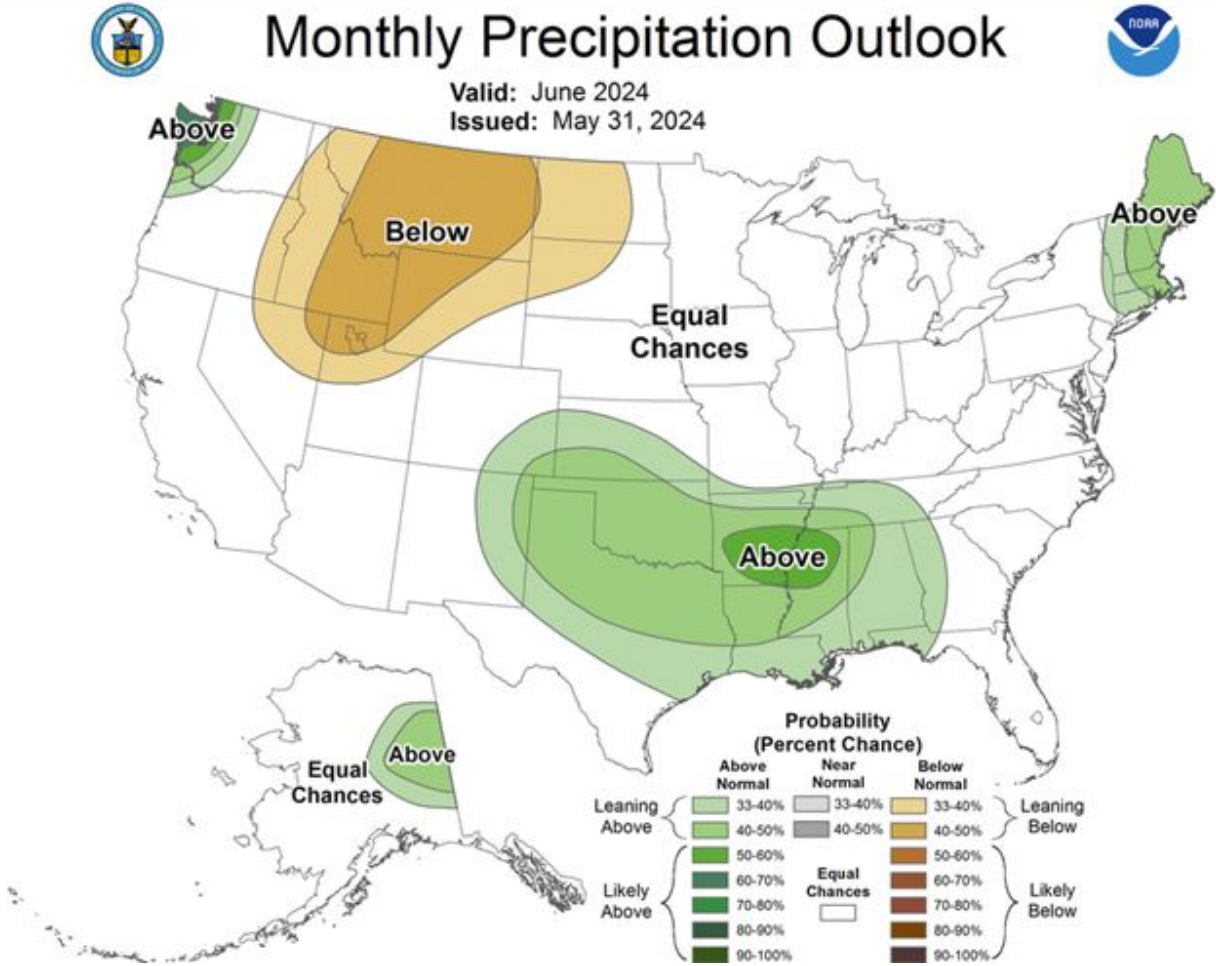
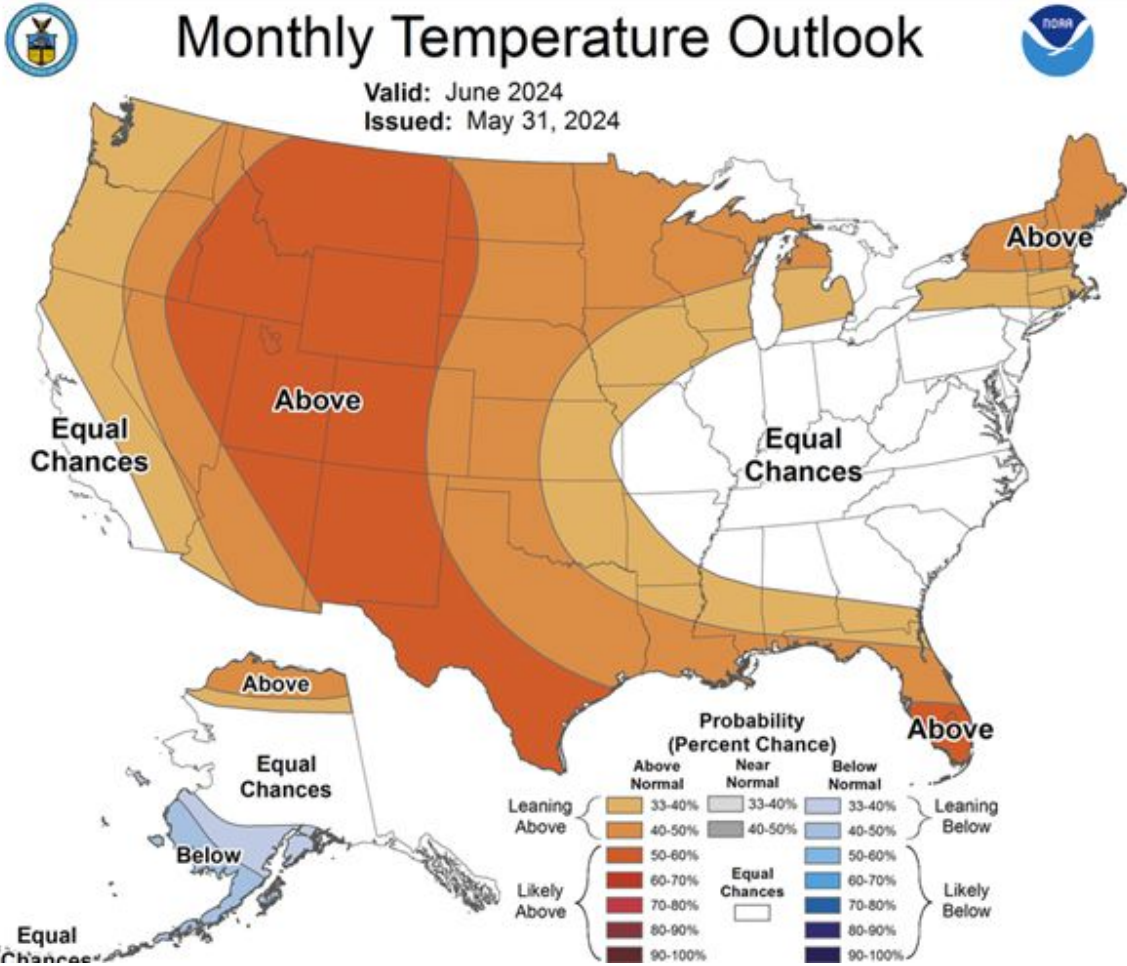
# Quick-DRI

## Quick Drought Response Index Utah

June 2, 2024  
(Week 22)

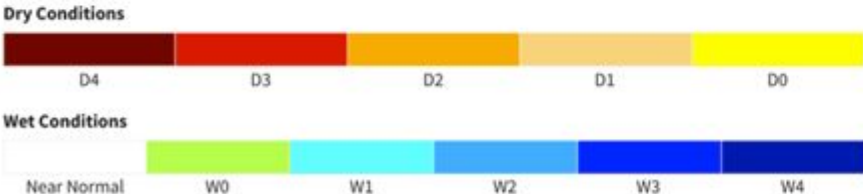
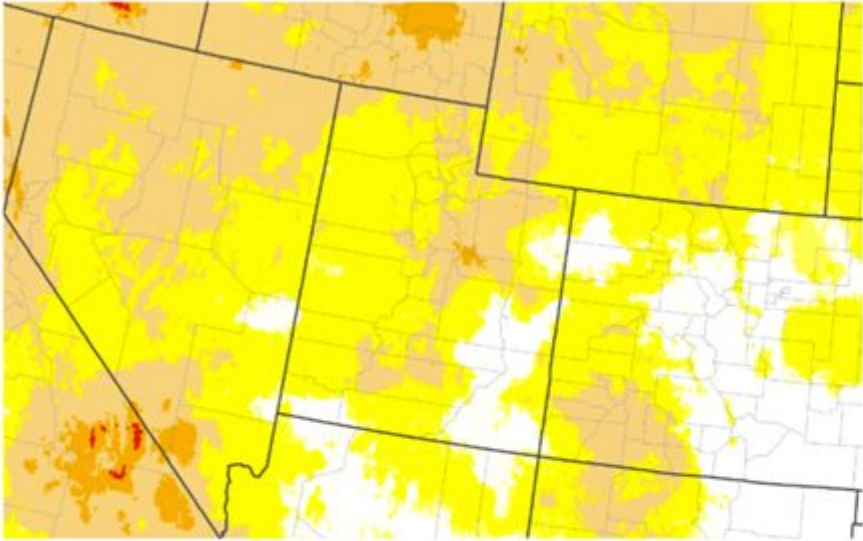


# June Outlook



# EDDI Forecasts

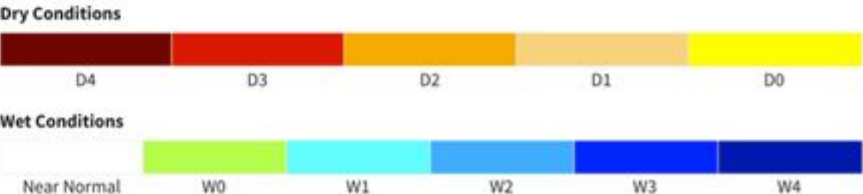
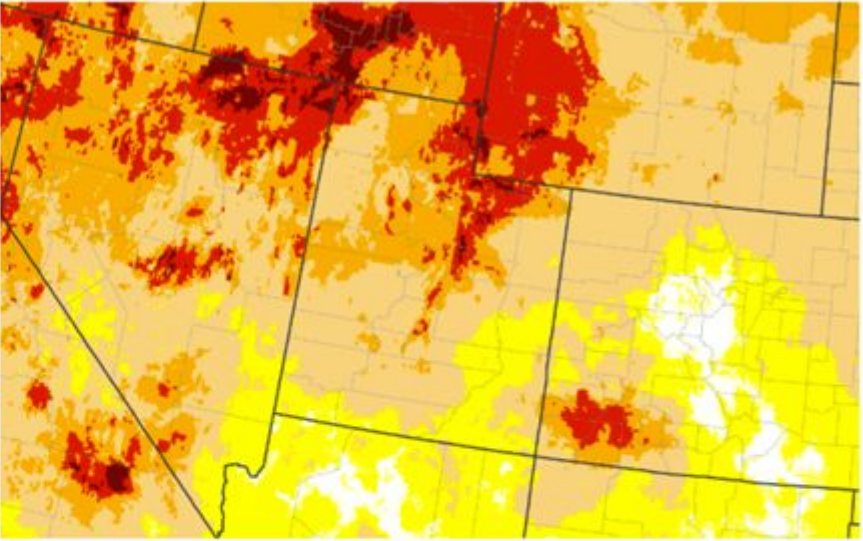
Evaporative Demand Drought Index (EDDI) Forecast: 2 Weeks



Source(s): UC Merced  
Updates Daily: 06/03/24

Drought.gov

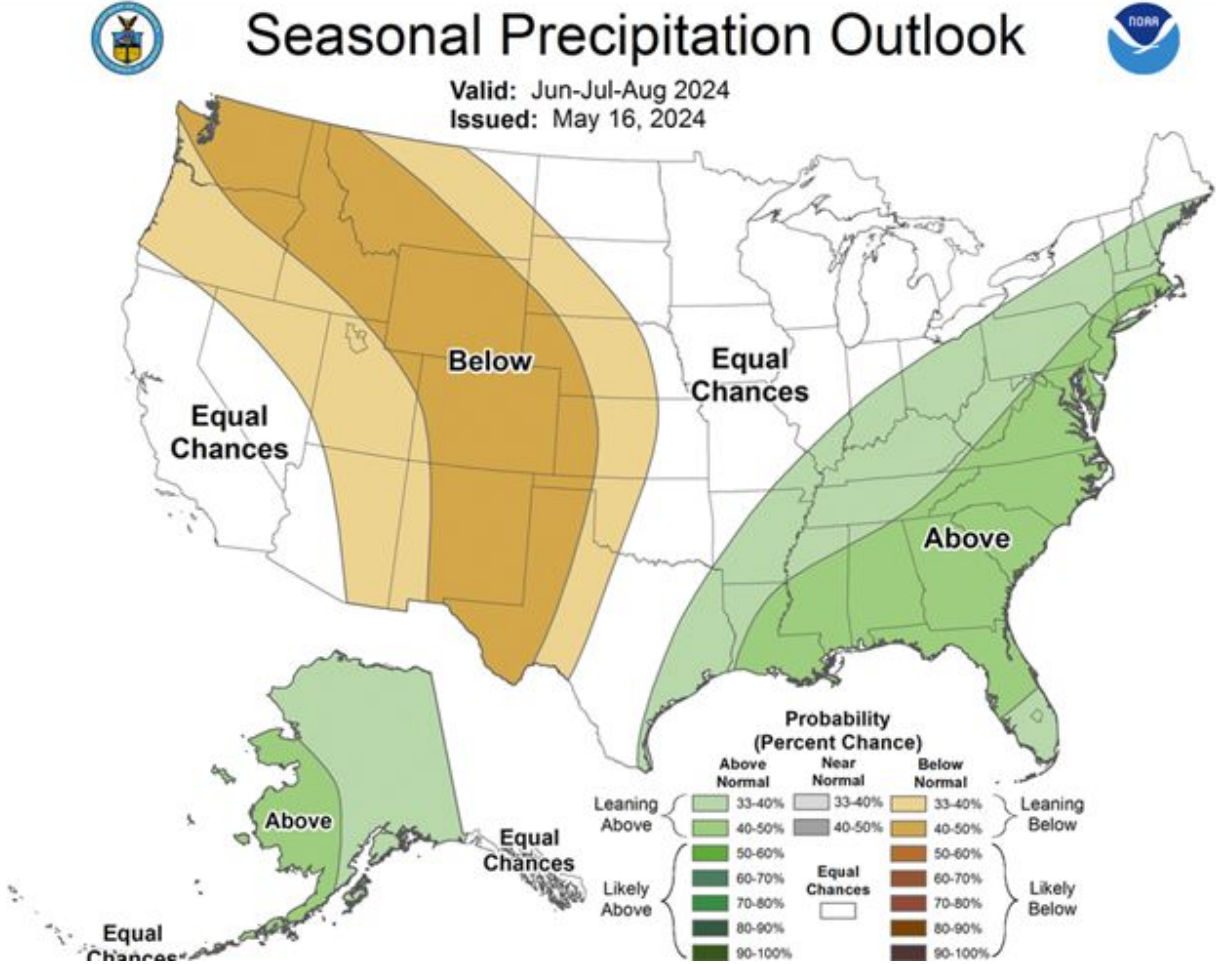
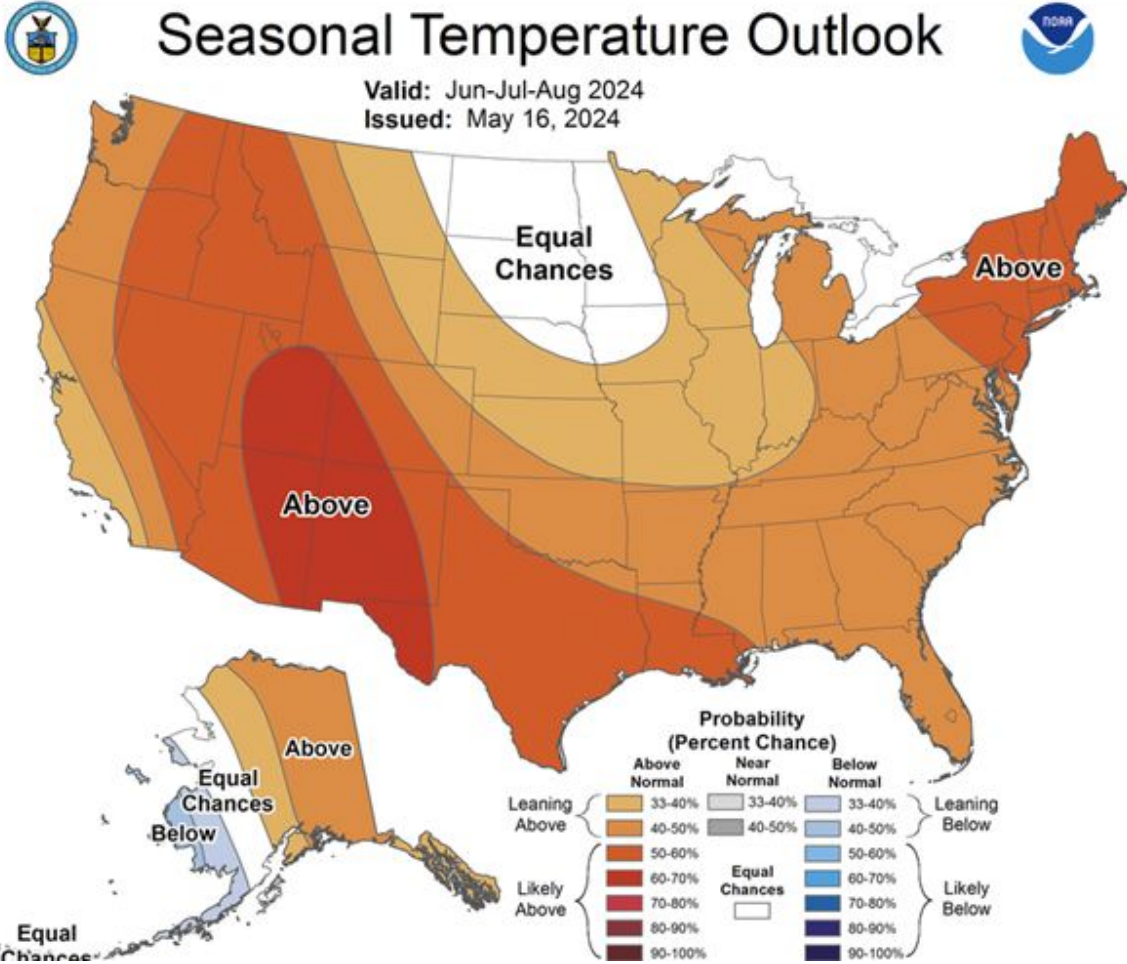
Evaporative Demand Drought Index (EDDI) Forecast: 4 Weeks



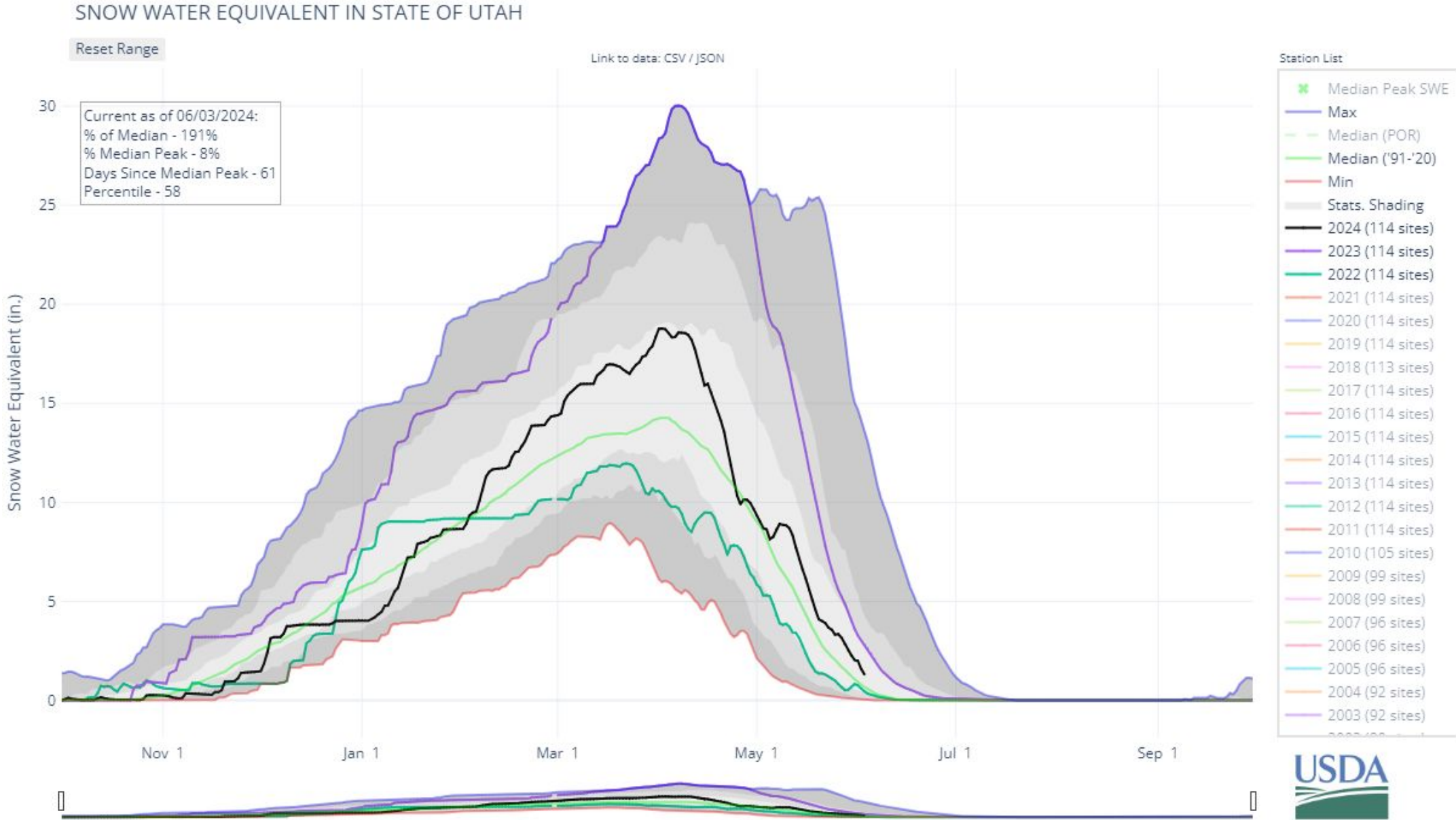
Source(s): UC Merced  
Updates Daily: 06/03/24

Drought.gov

# June-August Outlook



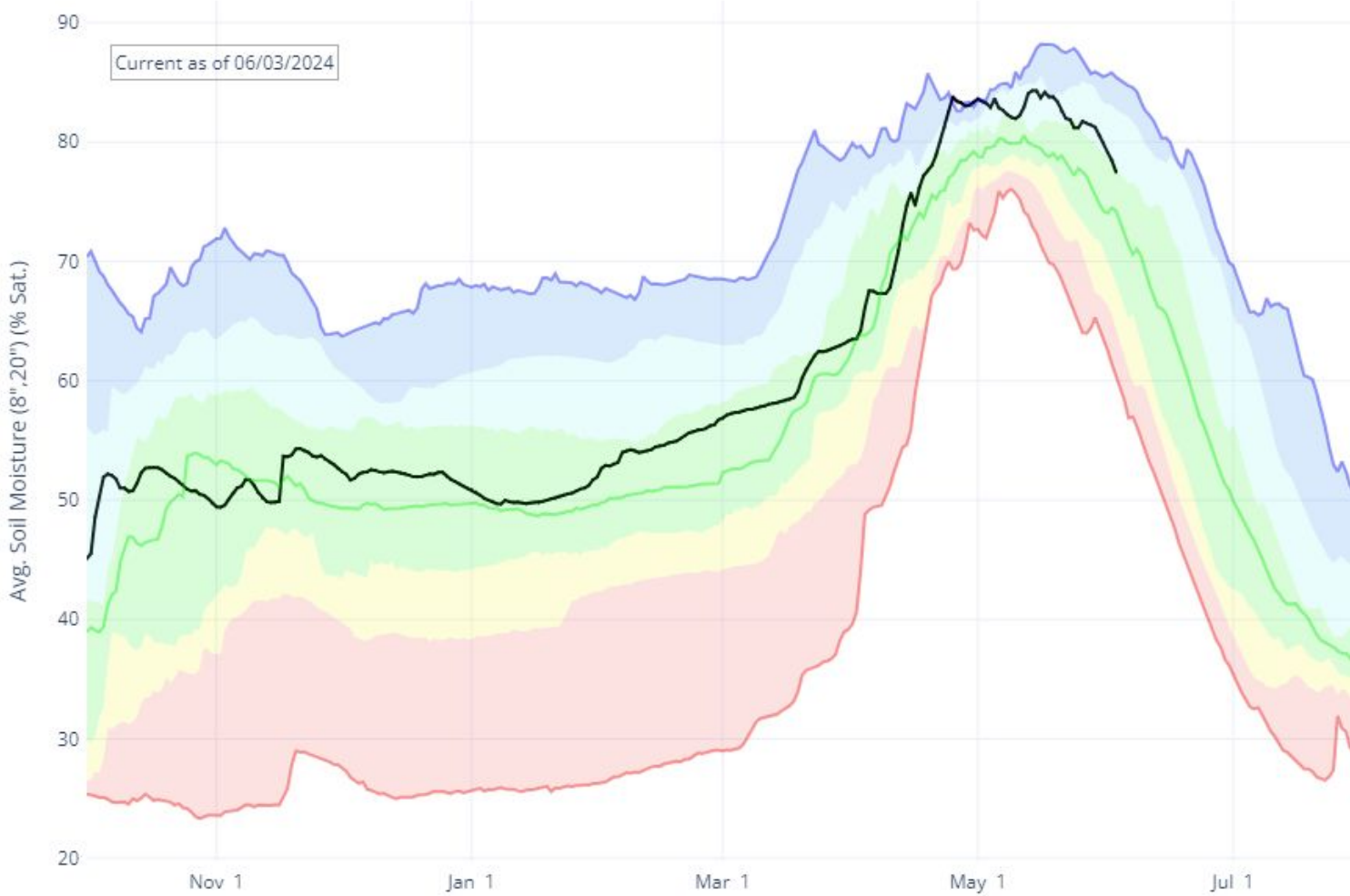
# Snowpack



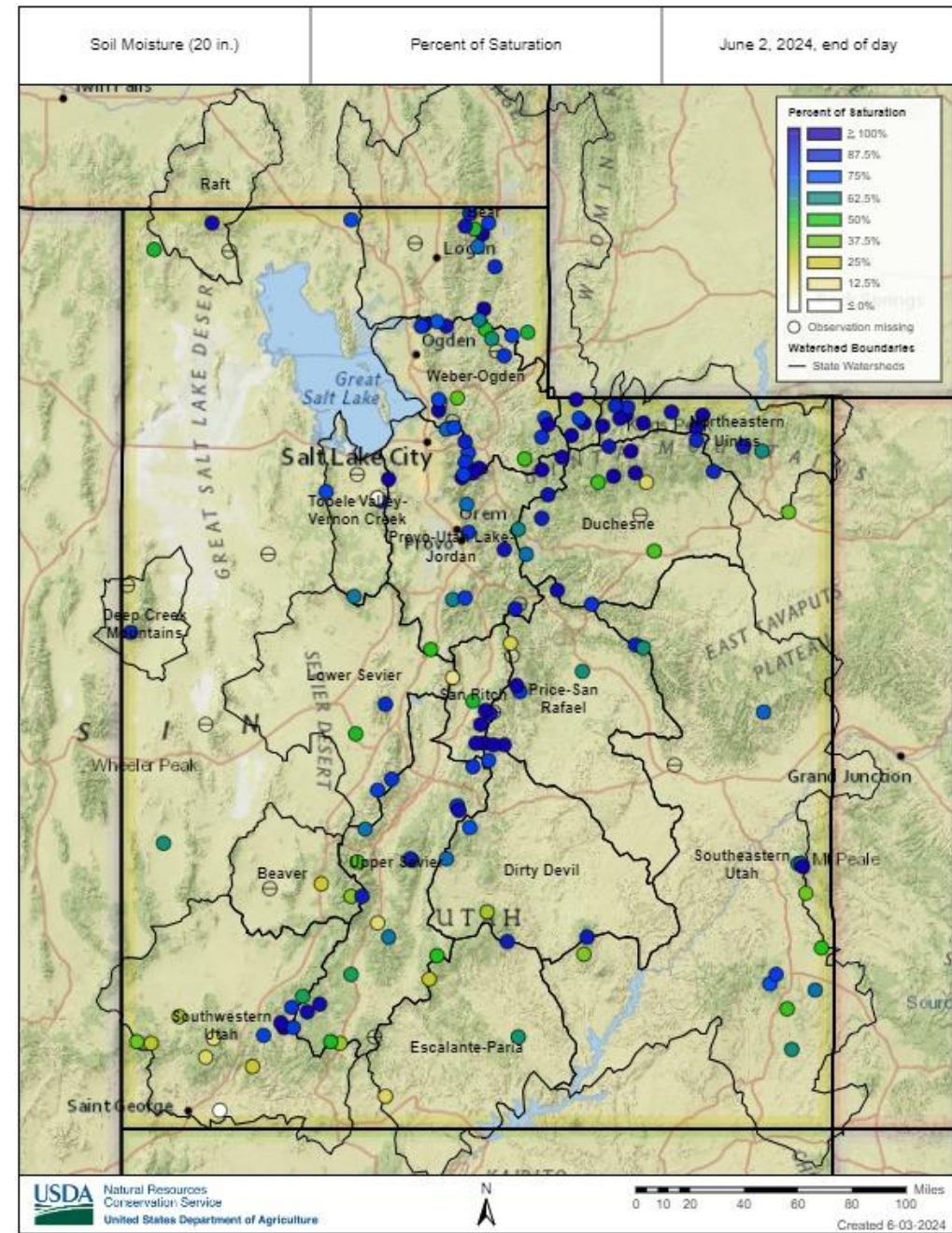
Agency - Jordan Clayton  
Presenter - NRCS Snow Suvey

# Soil Moisture

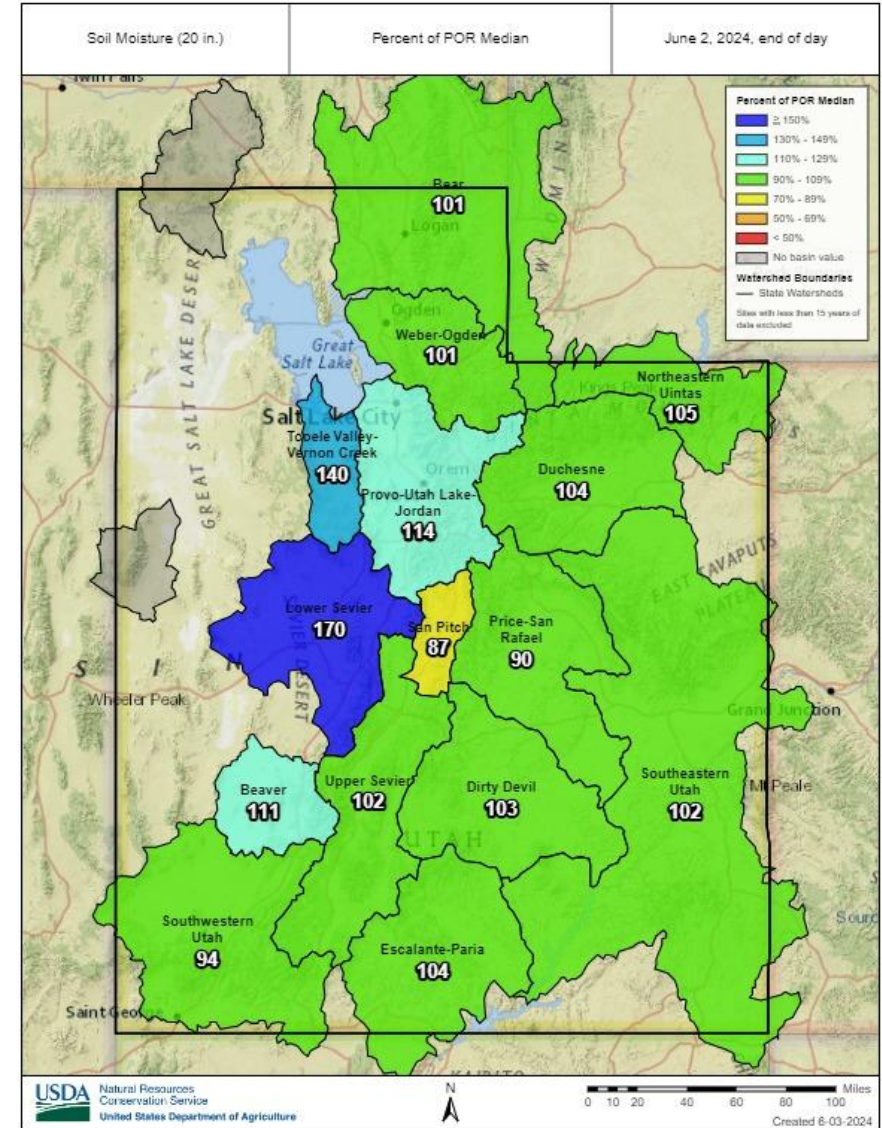
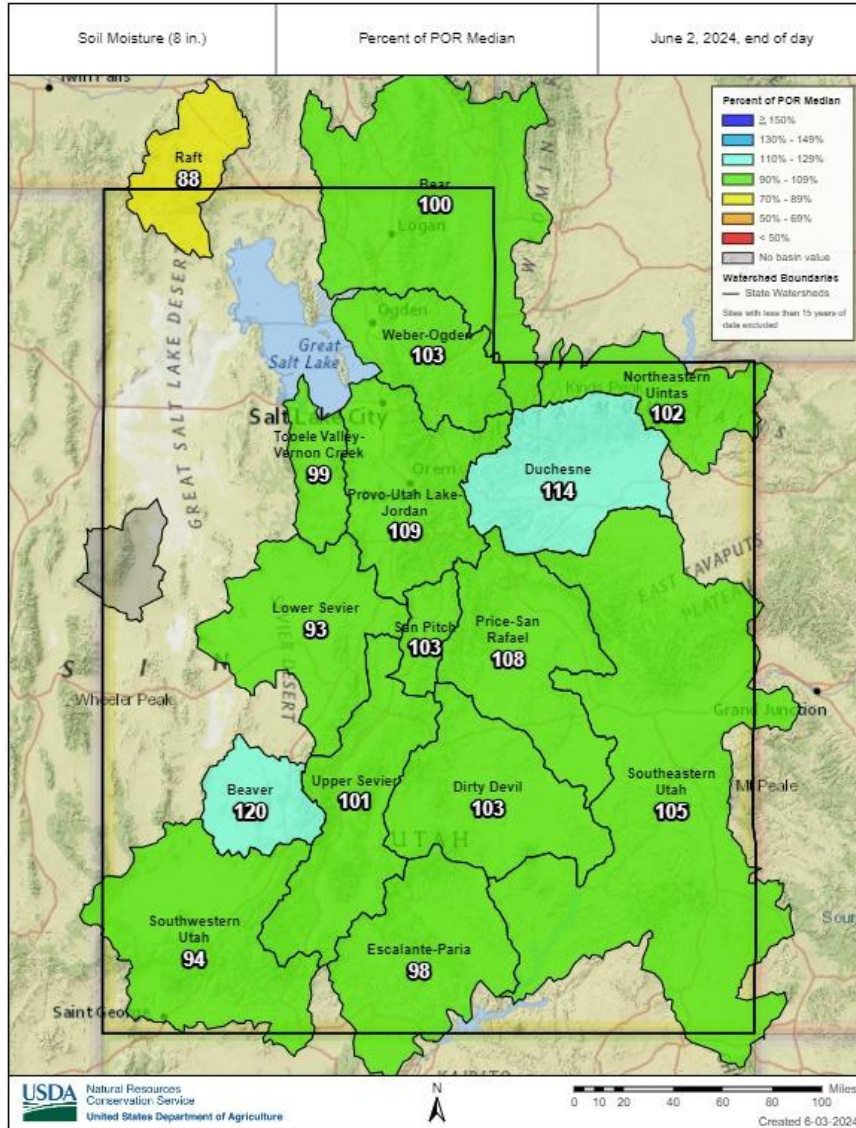
AVG. SOIL MOISTURE (8",20") IN STATE OF UTAH



Agency - Jordan Clayton  
Presenter - NRCS Snow Suvey

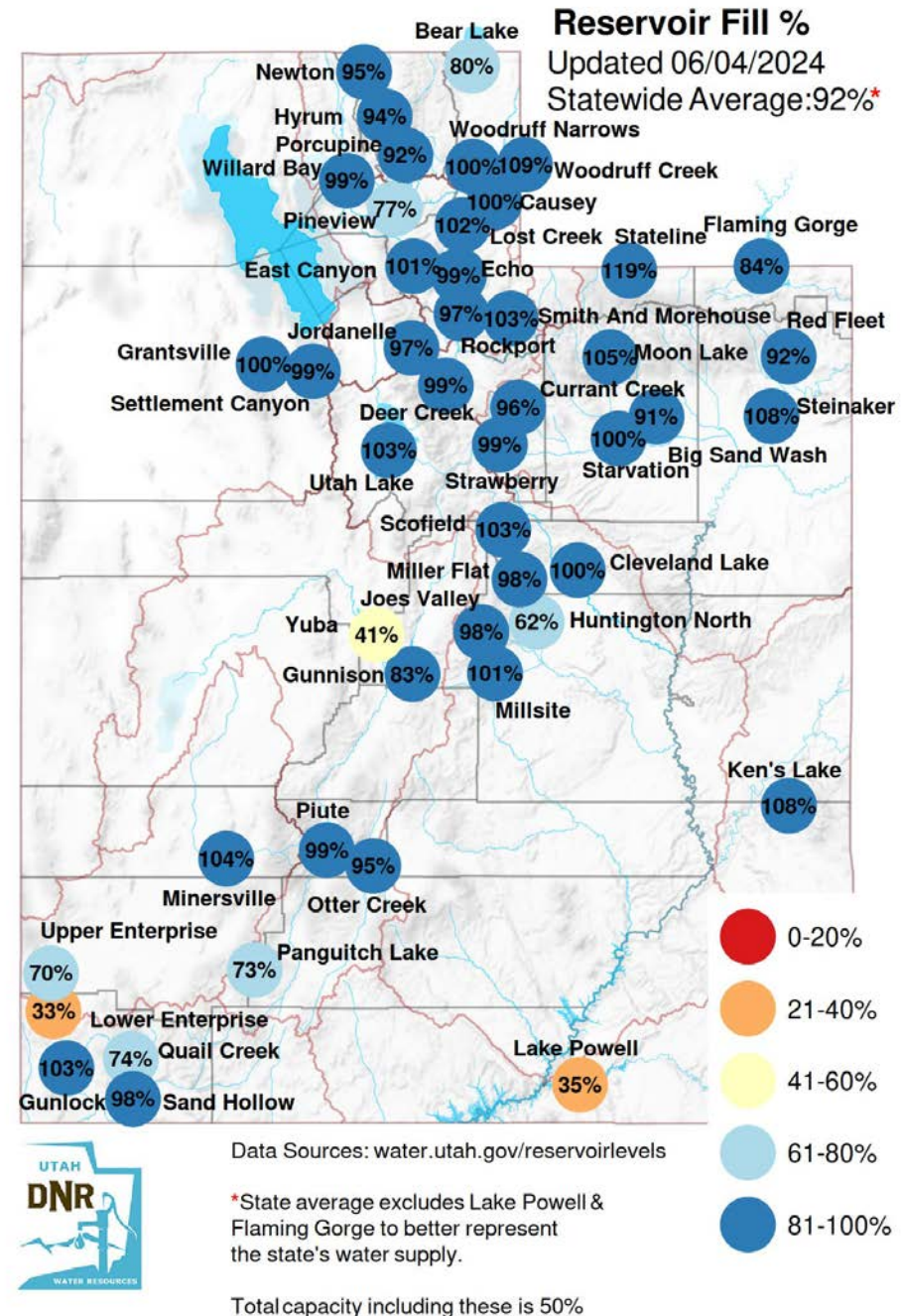


# Soil Moisture



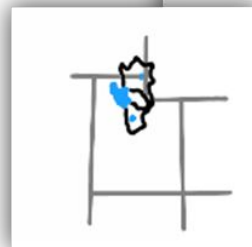
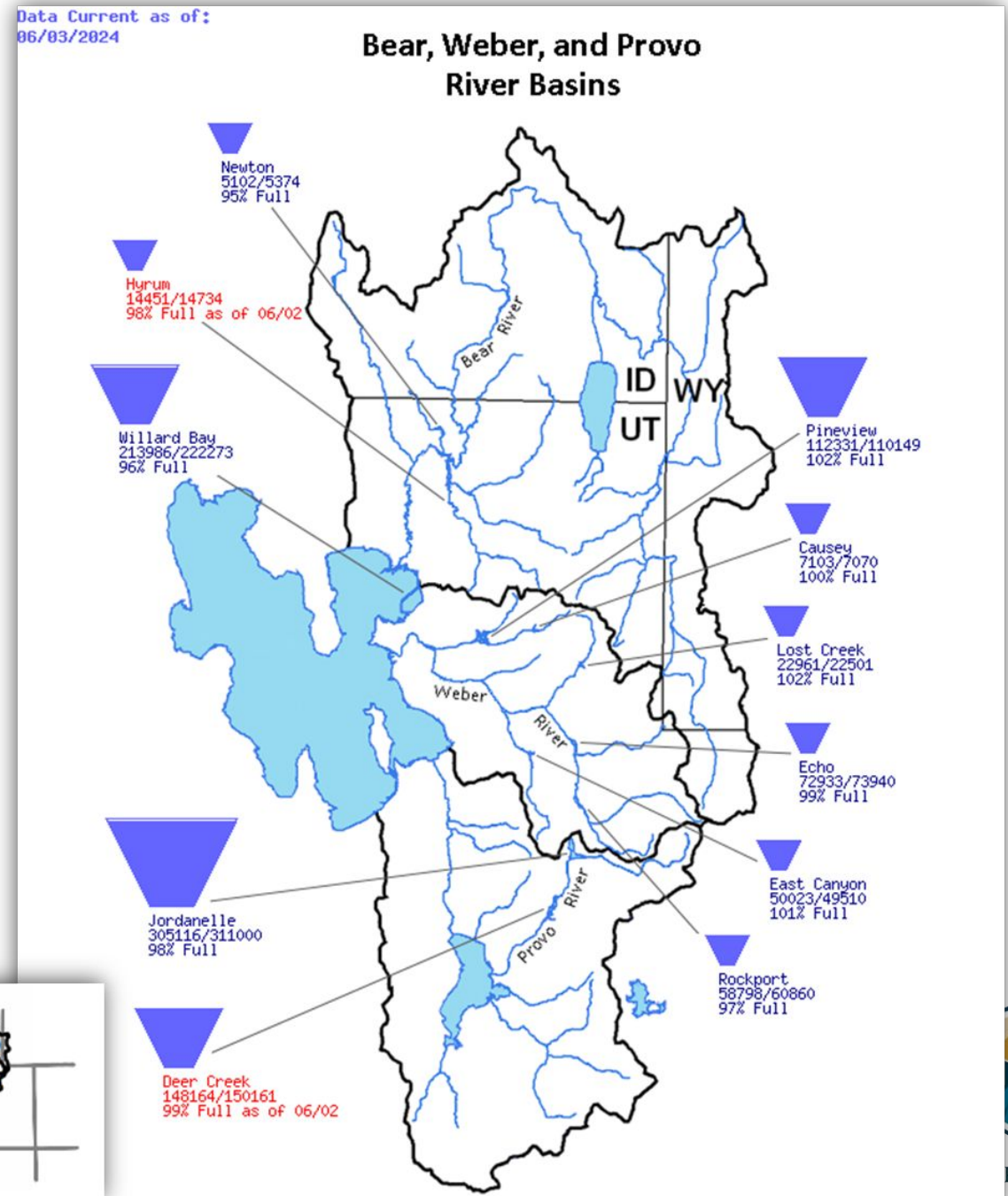
Agency - Jordan Clayton  
 Presenter - NRCS Snow Suvey

Current statewide average: 92%  
 Median statewide average: 74%



# Reservoir Levels

- Reservoirs are topping off
- Teacup Diagrams:  
<https://www.usbr.gov/uc/water>

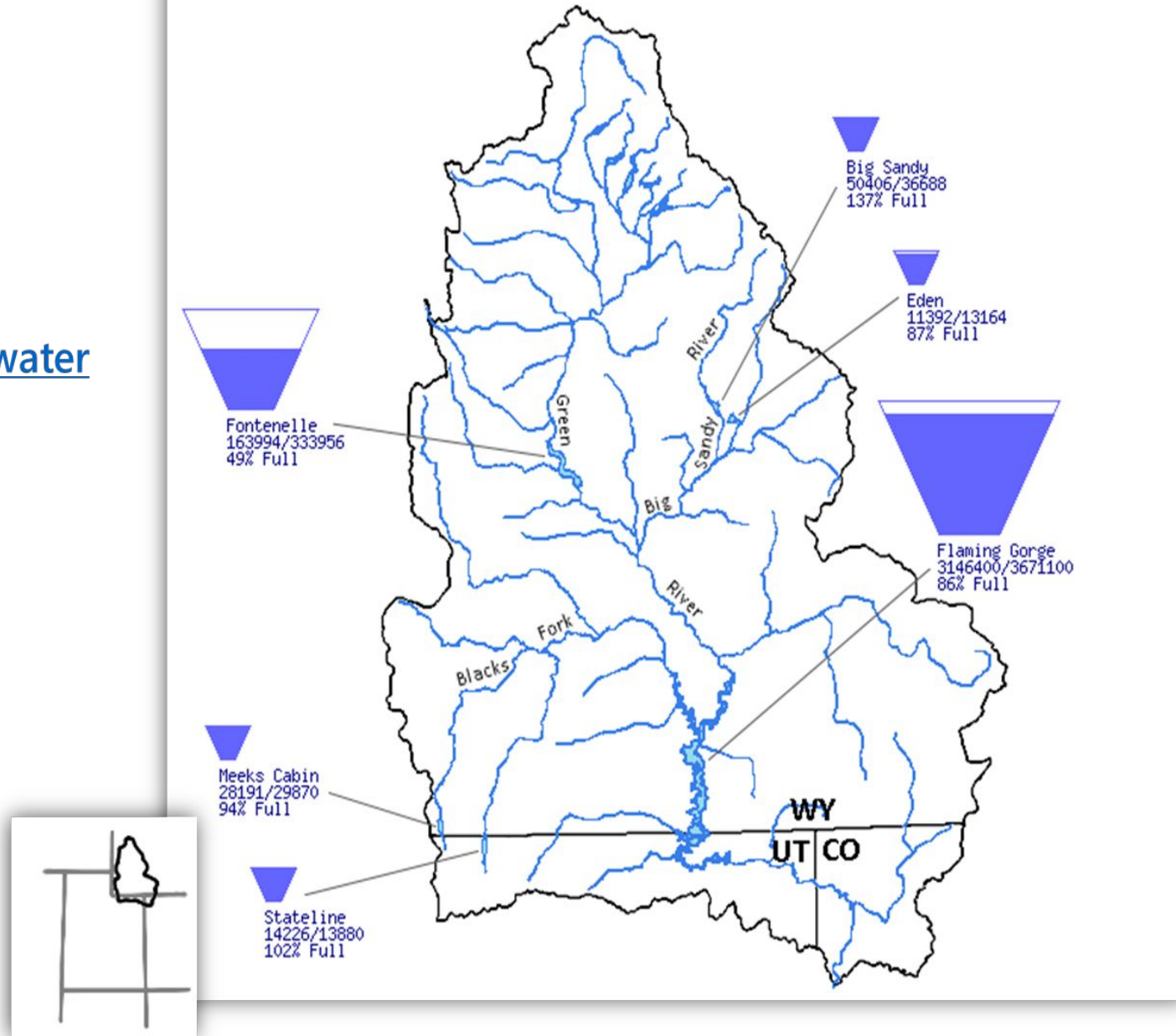


# Reservoir Levels

- **Teacup Diagrams:**  
<https://www.usbr.gov/uc/water>

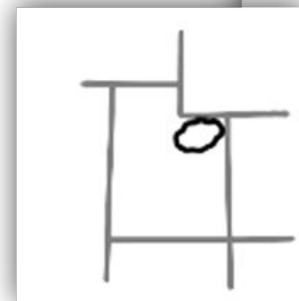
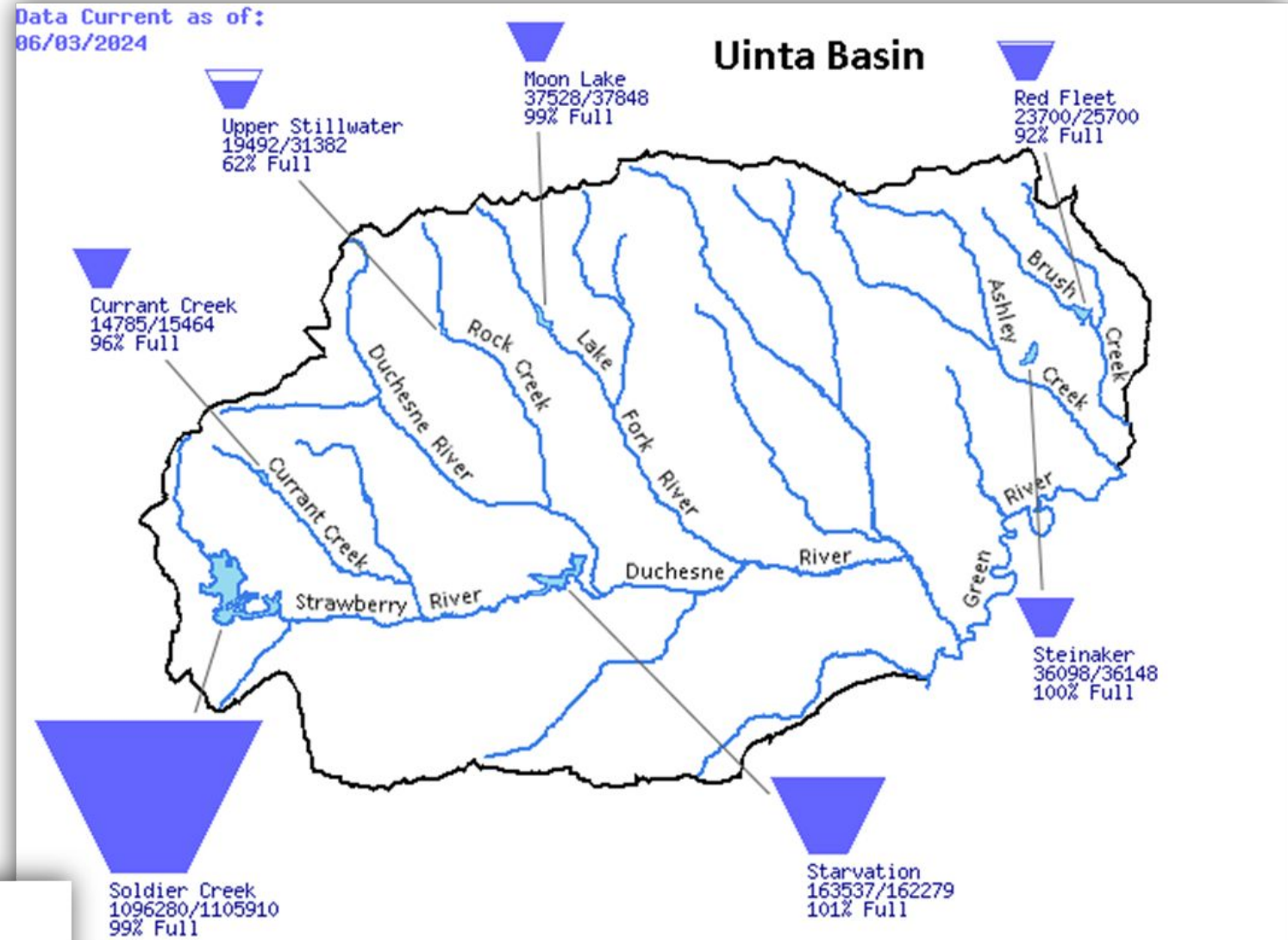
Data Current as of:  
06/03/2024

## Upper Green River Basin



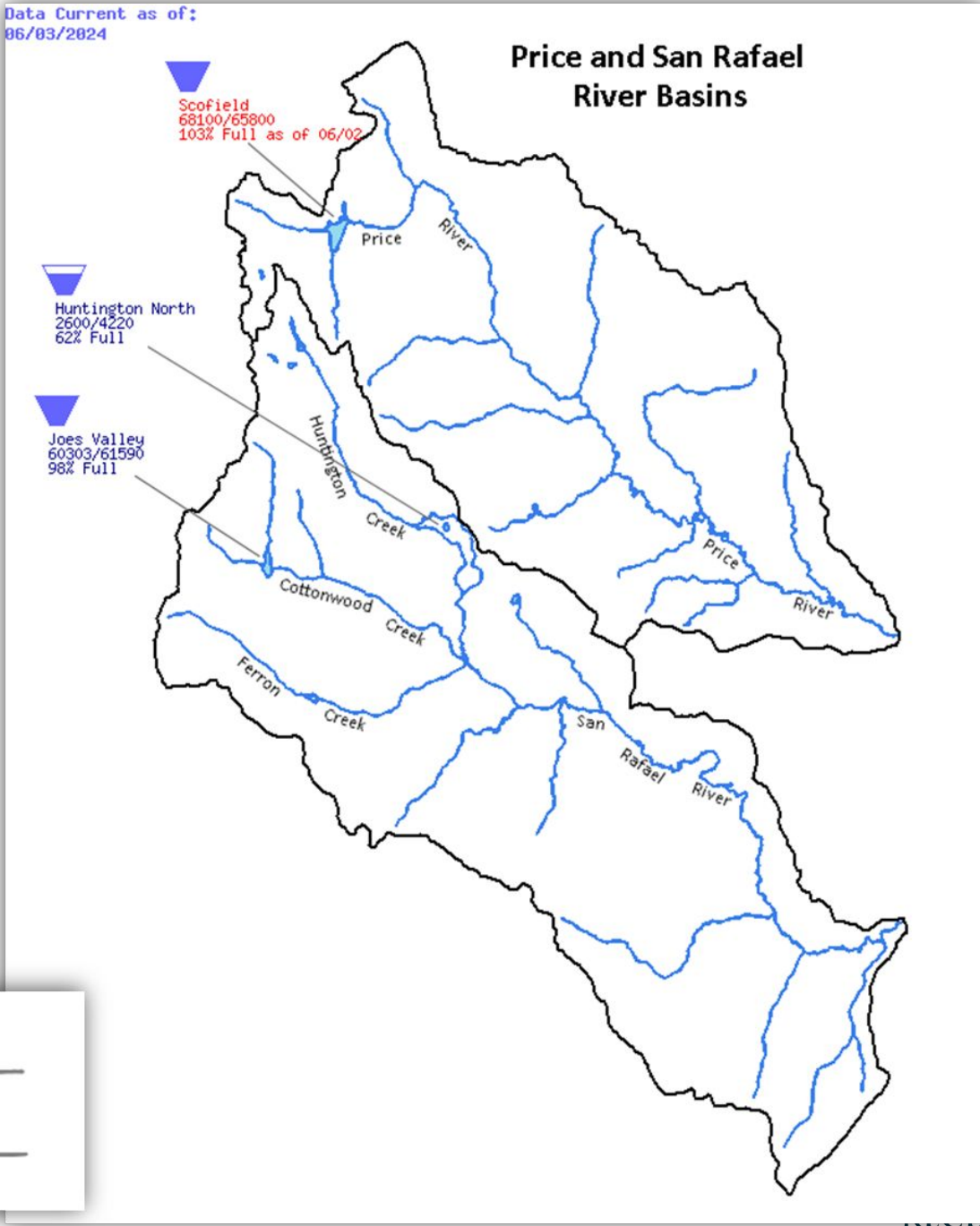
# Reservoir Levels

- **Teacup Diagrams:**  
<https://www.usbr.gov/uc/water>



# Reservoir Levels

- Teacup Diagrams: <https://www.usbr.gov/uc/water>



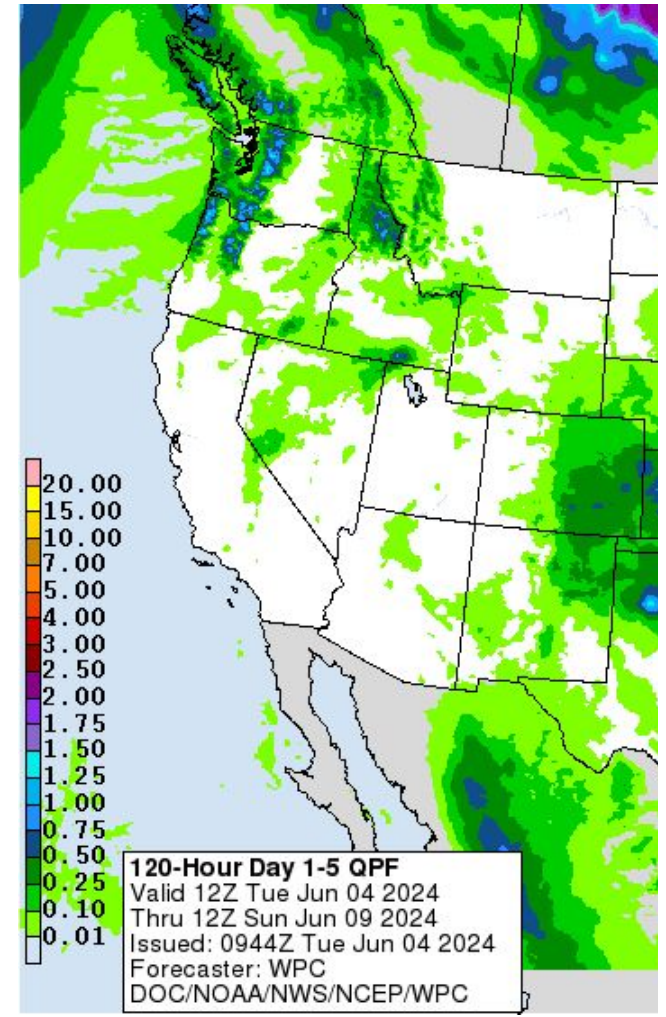
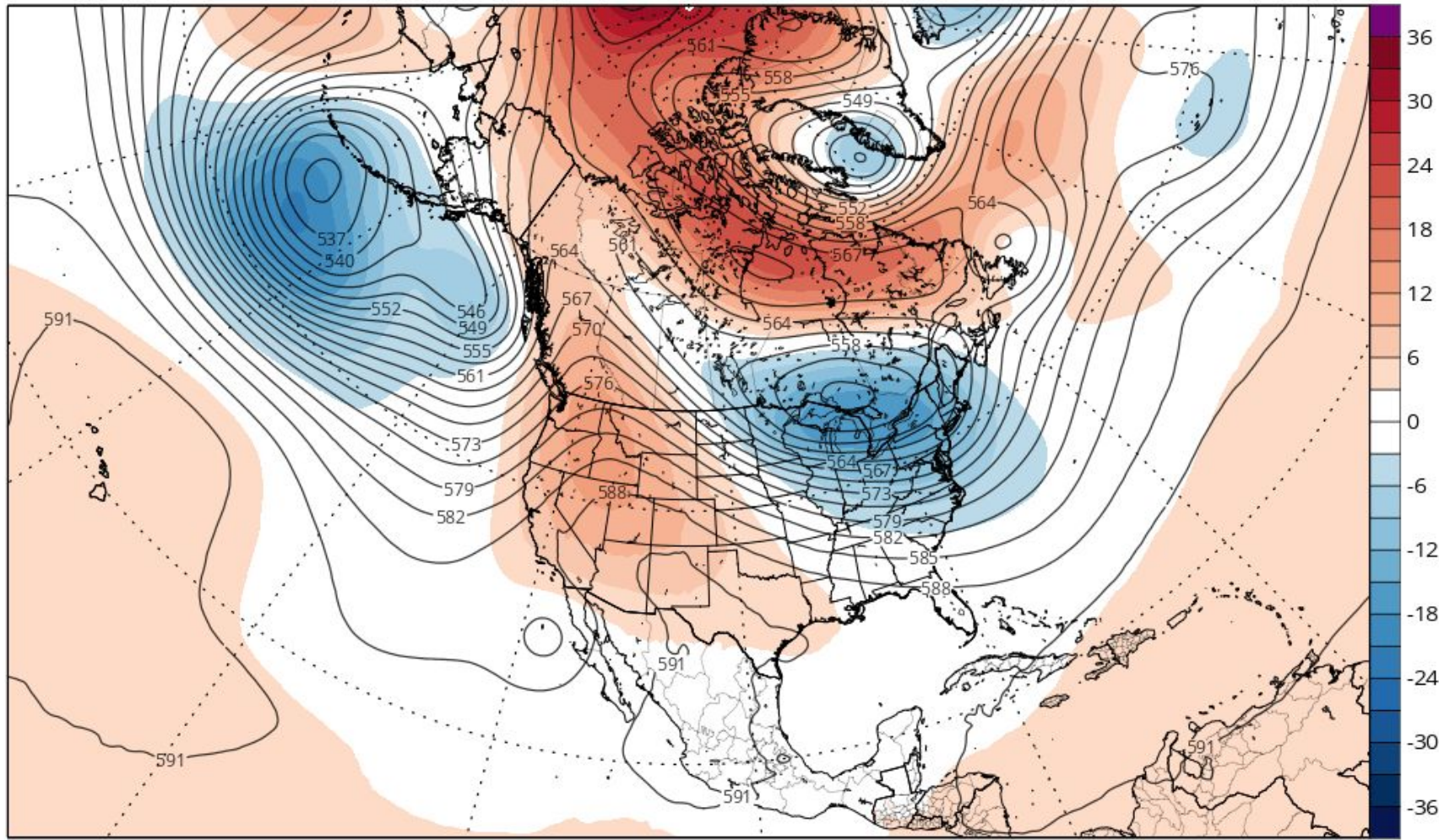
# Weather Forecast Office Utah Day 1-7 Outlook



GEFS 500mb Geopotential Height & Anomaly (dam) (based on CFSR 1981-2010 Climatology)

Init: 06z Jun 04 2024 Forecast Hour: [108] valid at 18z Sat, Jun 08 2024

TROPICALTIDBITS.COM



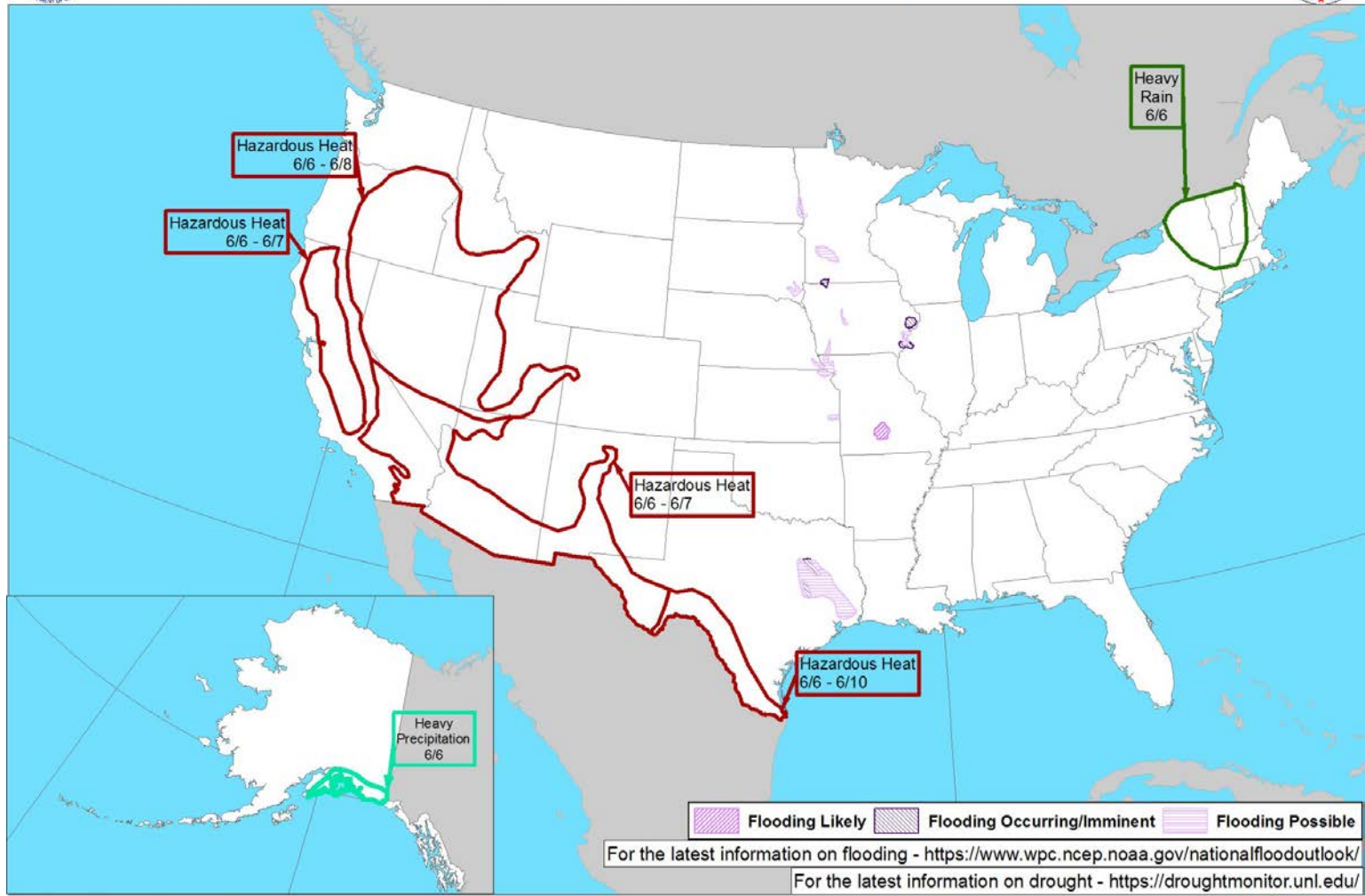
Agency - National Weather Service Weather Forecast Office

Presenter - Glen Merrill

# Weather Prediction Center U.S. Day 3-7 Hazards Outlook



Day 3-7 U.S. Hazards Outlook  
Valid: 06/06/2024-06/10/2024



**Weather Prediction Center**  
Made: 06/03/2024 03:41 PM EDT

Follow us:   
[www.wpc.ncep.noaa.gov](http://www.wpc.ncep.noaa.gov)

Agency - National Weather Service Weather Forecast Office  
Presenter - Glen Merrill

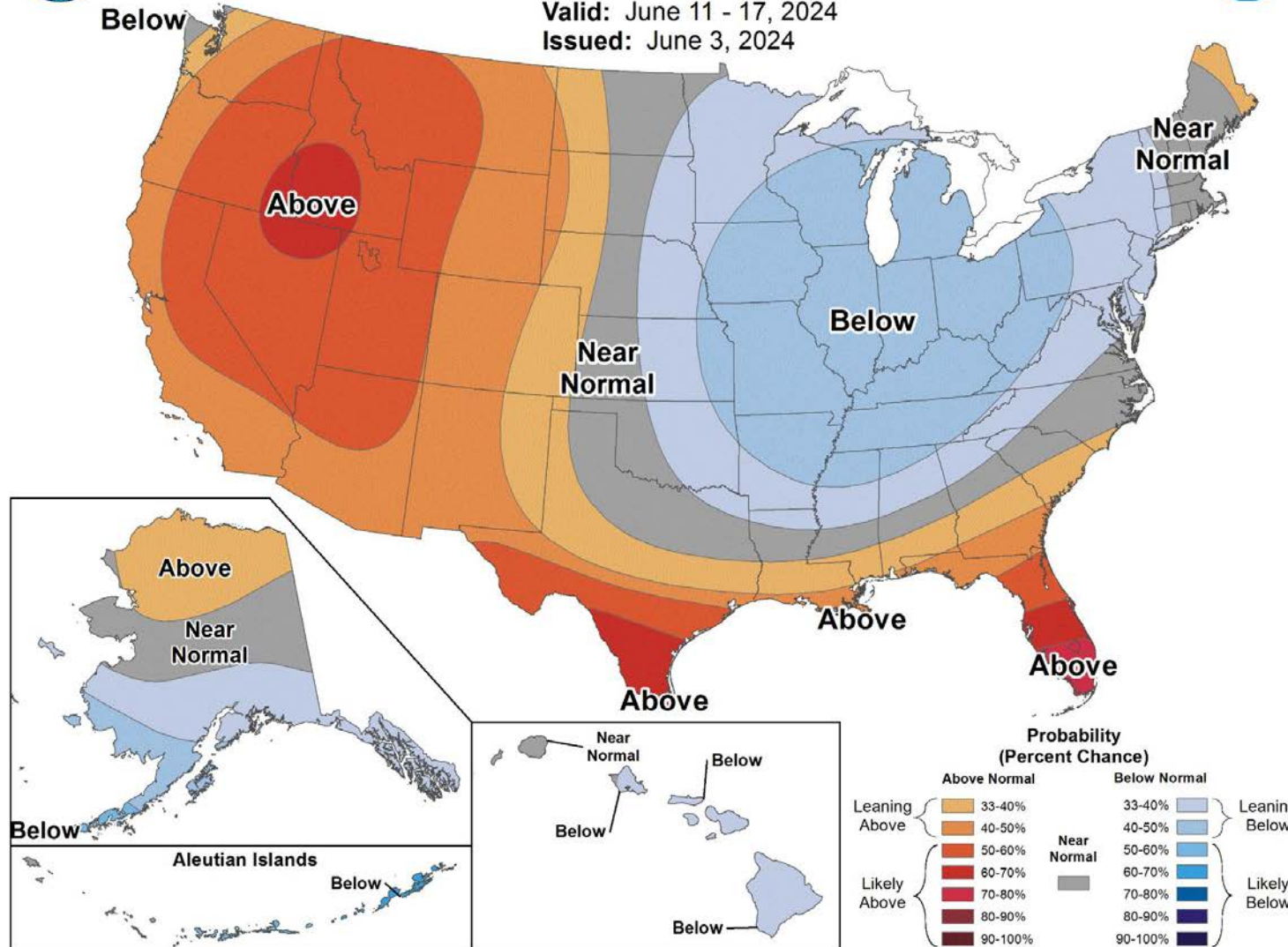
# Climate Prediction Center 8 to 14 Day Outlooks - Temperature



## 8-14 Day Temperature Outlook



Valid: June 11 - 17, 2024  
Issued: June 3, 2024



Agency - National Weather Service Weather Forecast Office

Presenter - Glen Merrill

# Climate Prediction Center 8 to 14 Day Outlooks - Precipitation

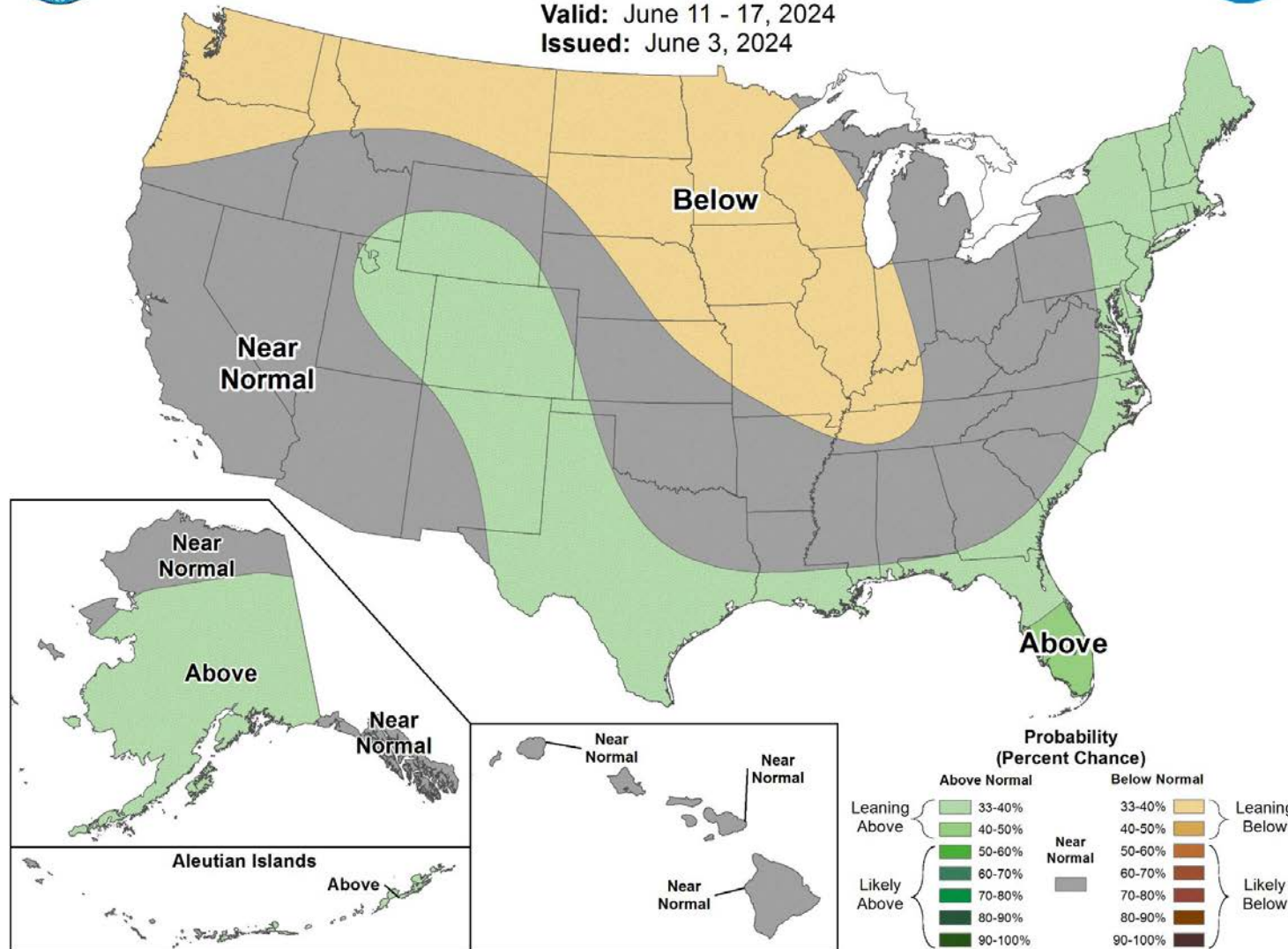


## 8-14 Day Precipitation Outlook



Valid: June 11 - 17, 2024

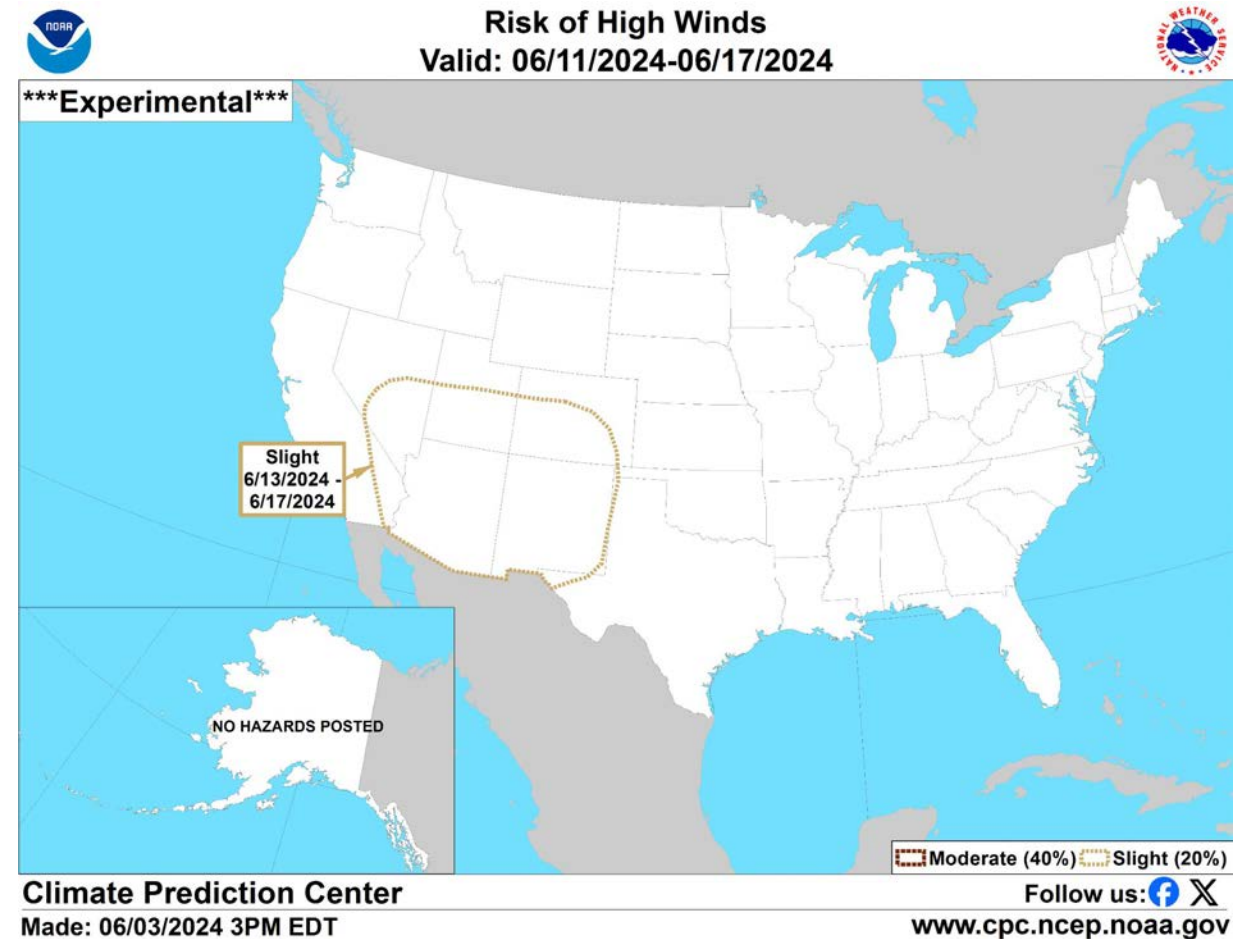
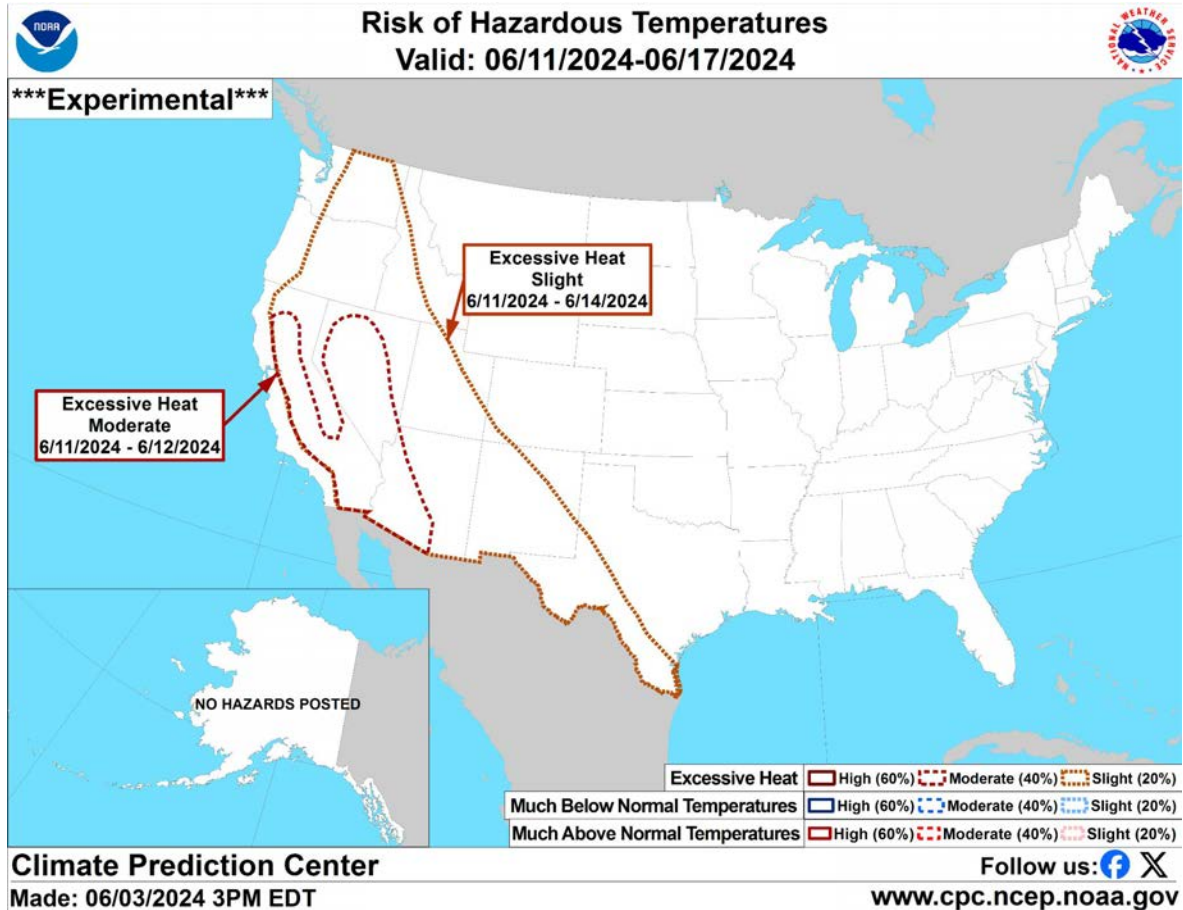
Issued: June 3, 2024

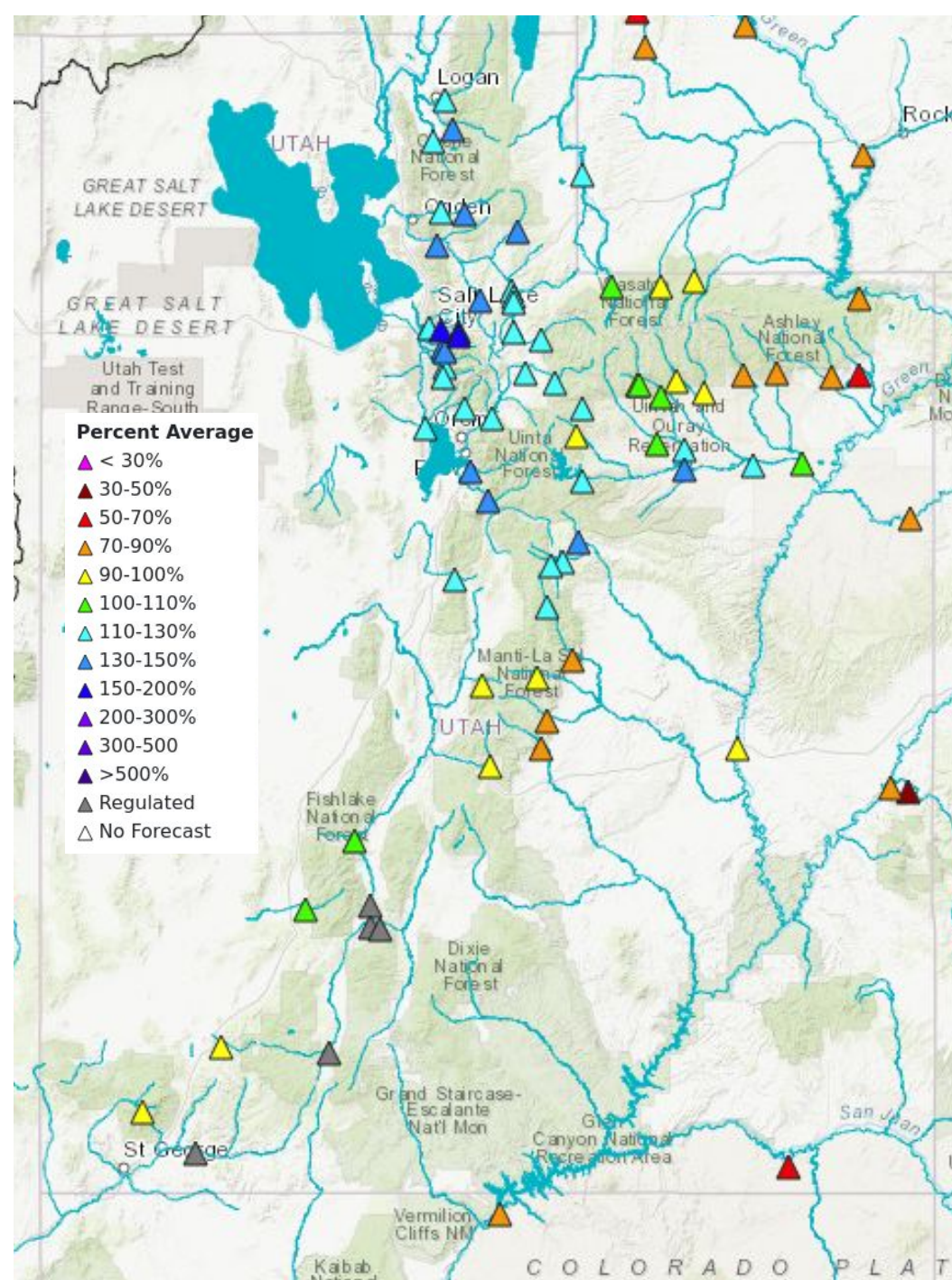


Agency - National Weather Service Weather Forecast Office

Presenter - Glen Merrill

# Climate Prediction Center U.S. Week-2 Hazards Outlook





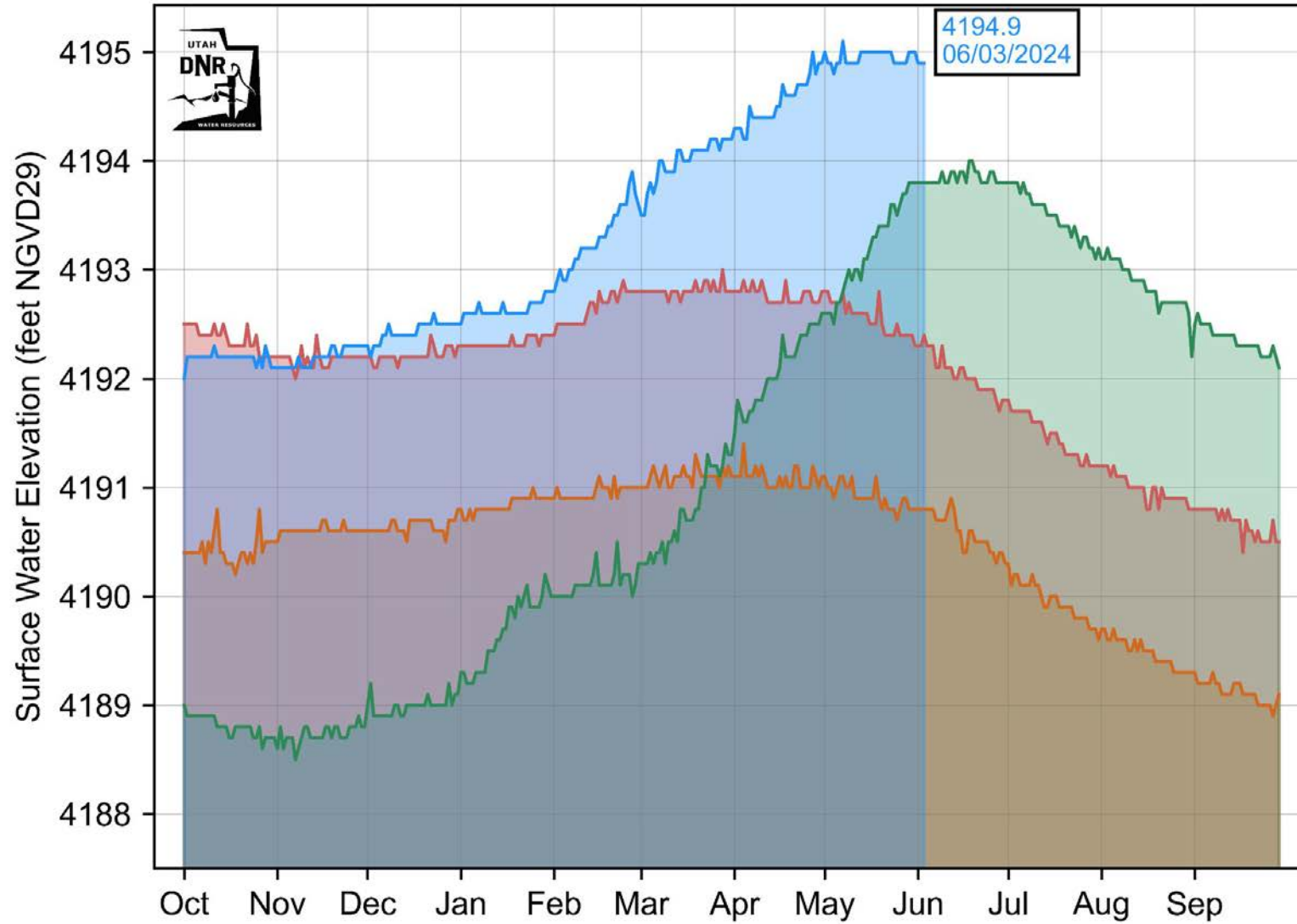
Flows over the Northern Great Basin are generally forecasted to be above average.

Eastern Utah is below normal, with forecasts between 70% and 90% of normal.

Southern Utah is below normal, particularly over the San Juan River Basin and Virgin River Basin.

Many sites over Utah have past peak flow; remaining sites are forecasted at having a <10% chance of hitting flood stage.

# Great Salt Lake South Arm Elevation



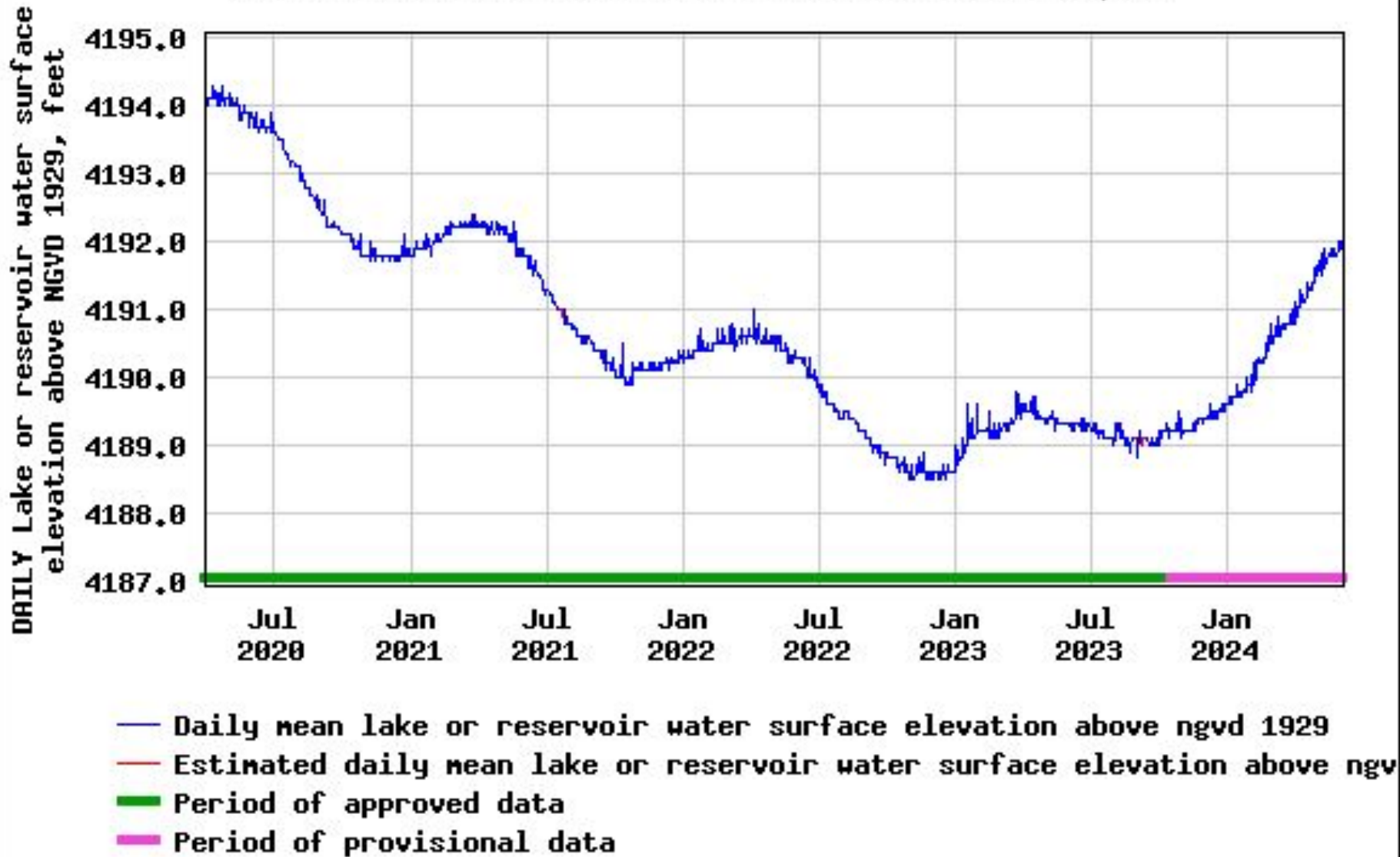
Current elevation:  
4195.0



Source: USGS Saltair Boat Harbor Station 10010000; USGS South Side of Causeway 10010024 when Saltair gage is unavailable. Recent data is provisional and subject to revision.

Water surface elevation labeled on the graph is the 5-day mean.

### USGS 10010100 GREAT SALT LAKE NEAR SALINE, UT

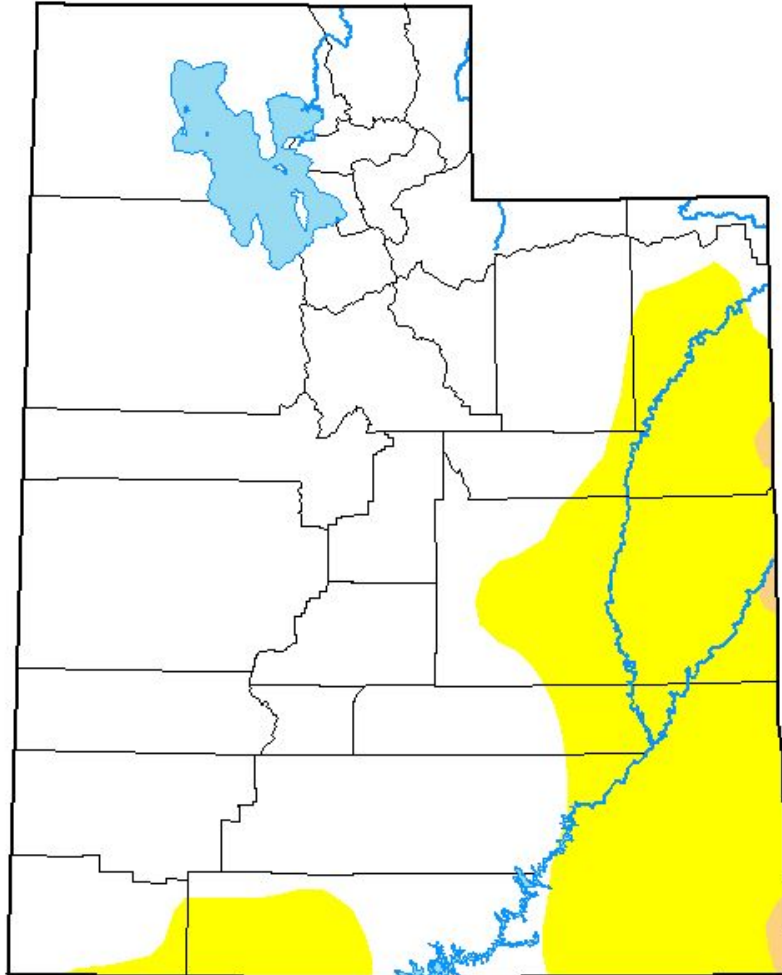


Current elevation:  
4191.8









# U.S. Drought Monitor Utah

**May 28, 2024**  
(Released Thursday, May. 30, 2024)  
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 <http://droughtmonitor.unl.edu/About.aspx>*

## Author:

Rocky Bilotta  
NCEI/NOAA



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

To report on conditions between meetings:

Submit a report on CMOR drought website

Email [Lhaskell@utah.gov](mailto:Lhaskell@utah.gov)

email [drought@utah.gov](mailto:drought@utah.gov)