Utah Water Conditions
(drought webinar)

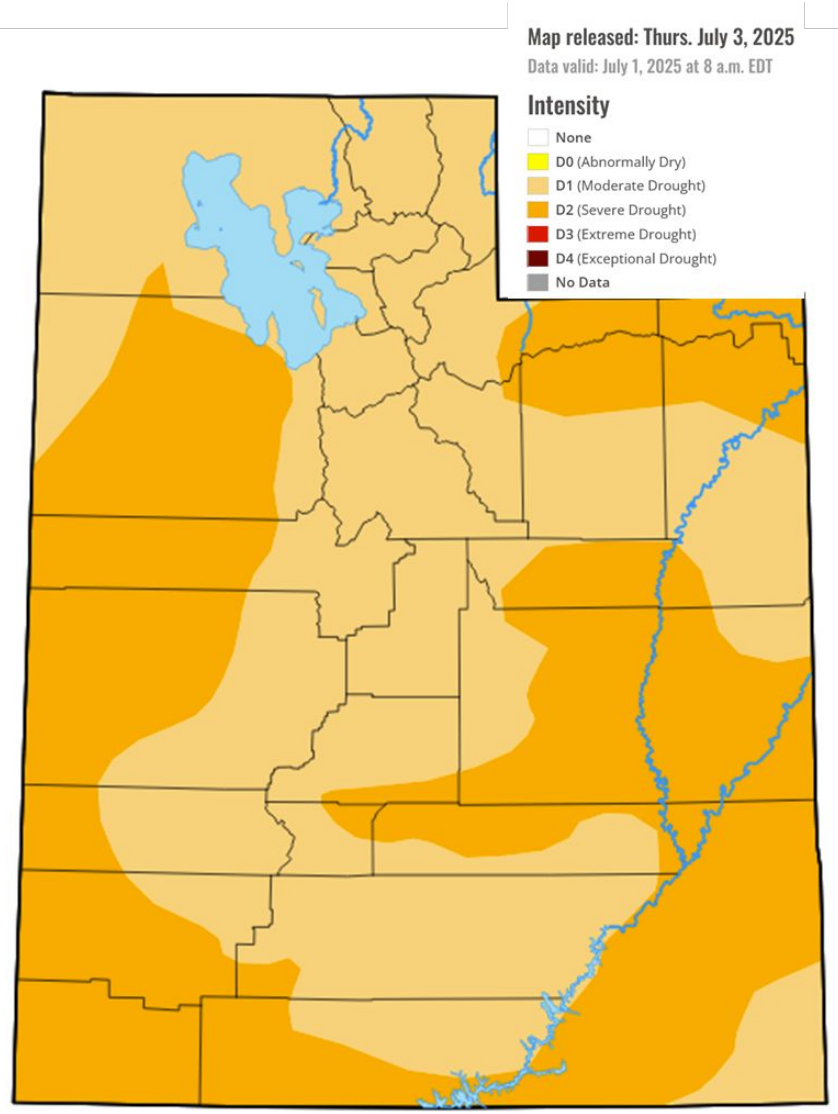
The meeting will begin shortly

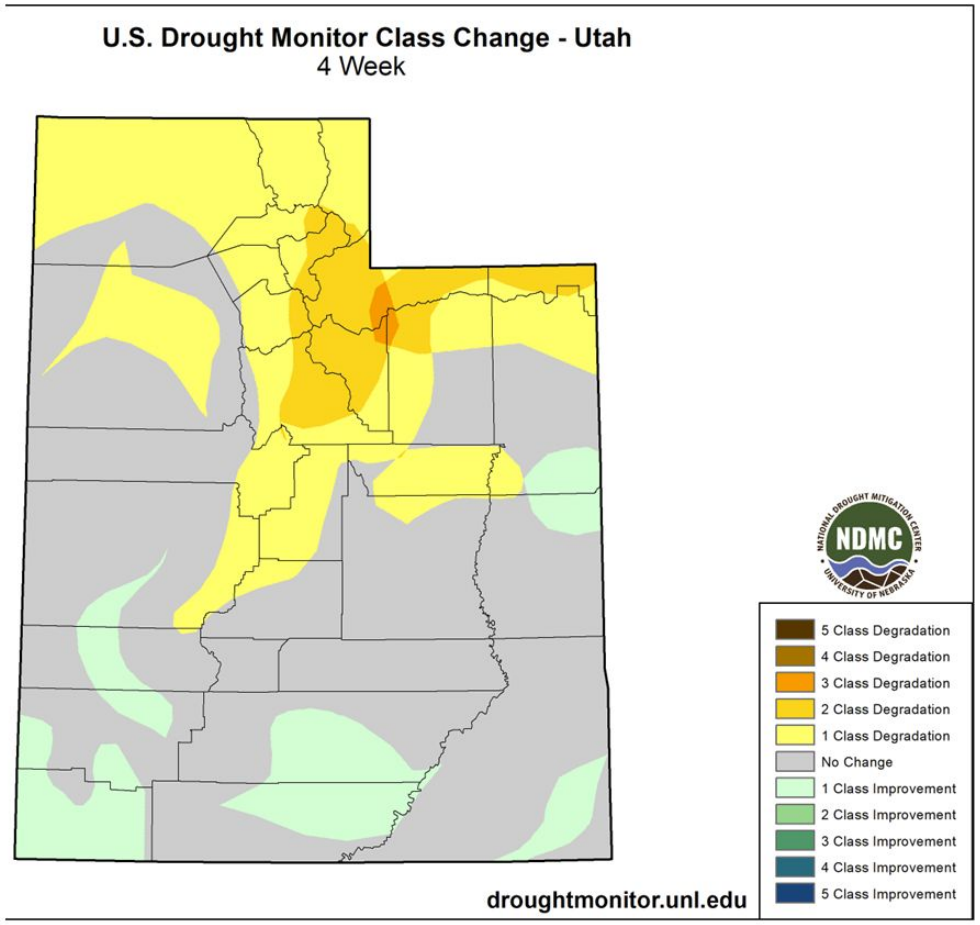
Thank you to our contributors

Utah Water Conditions Update

July 8, 2025

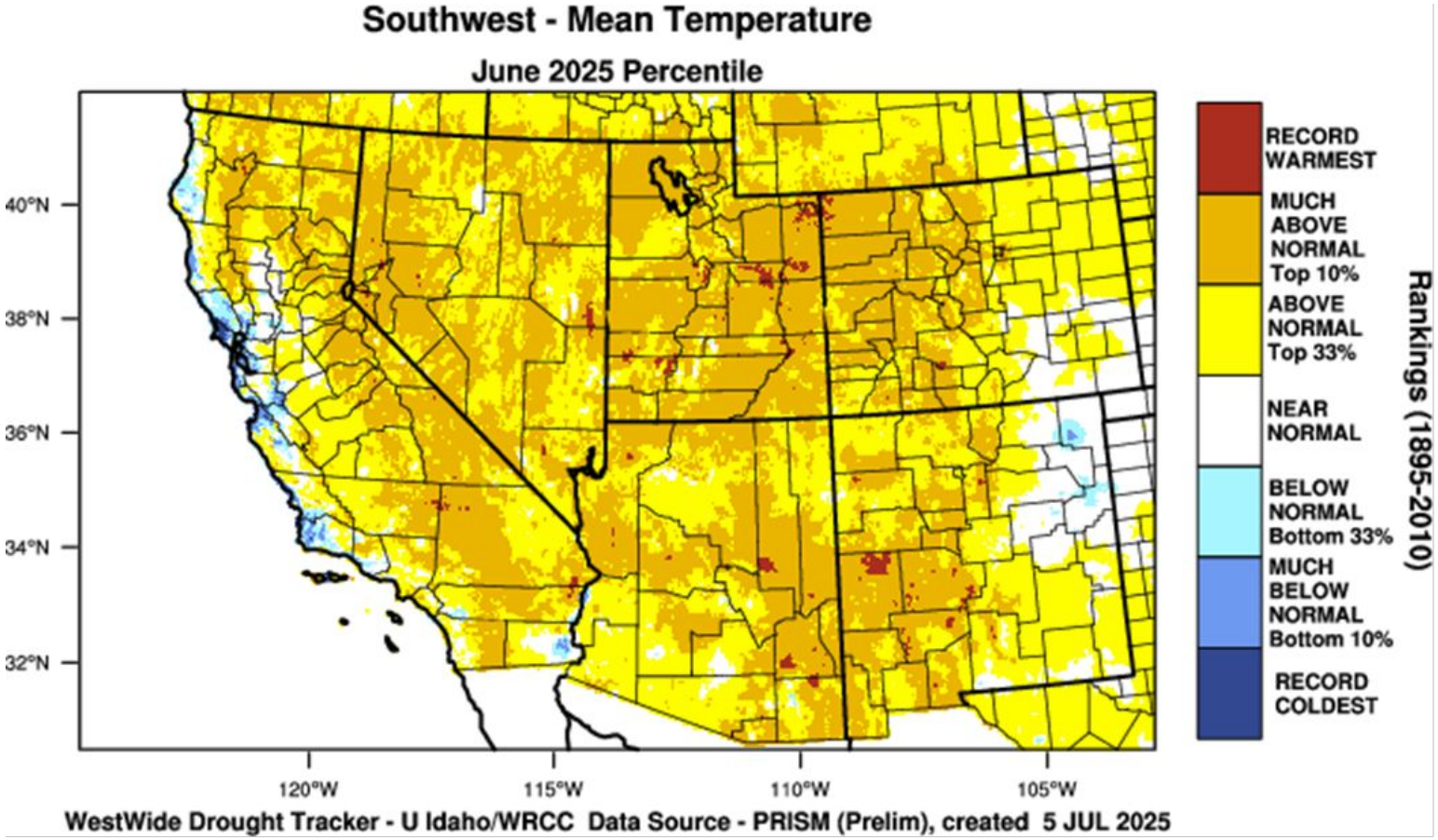
Drought Conditions and 4-week Change-Map

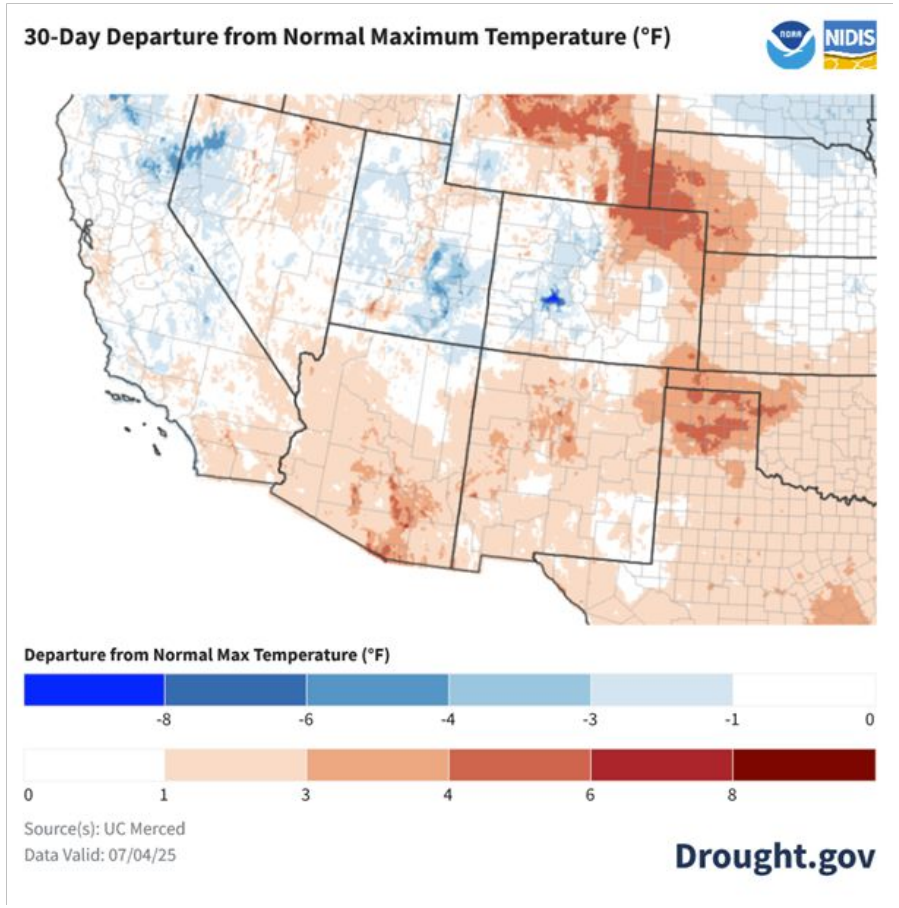




Agency - Utah Climate Center
Presenter - Jon Meyer

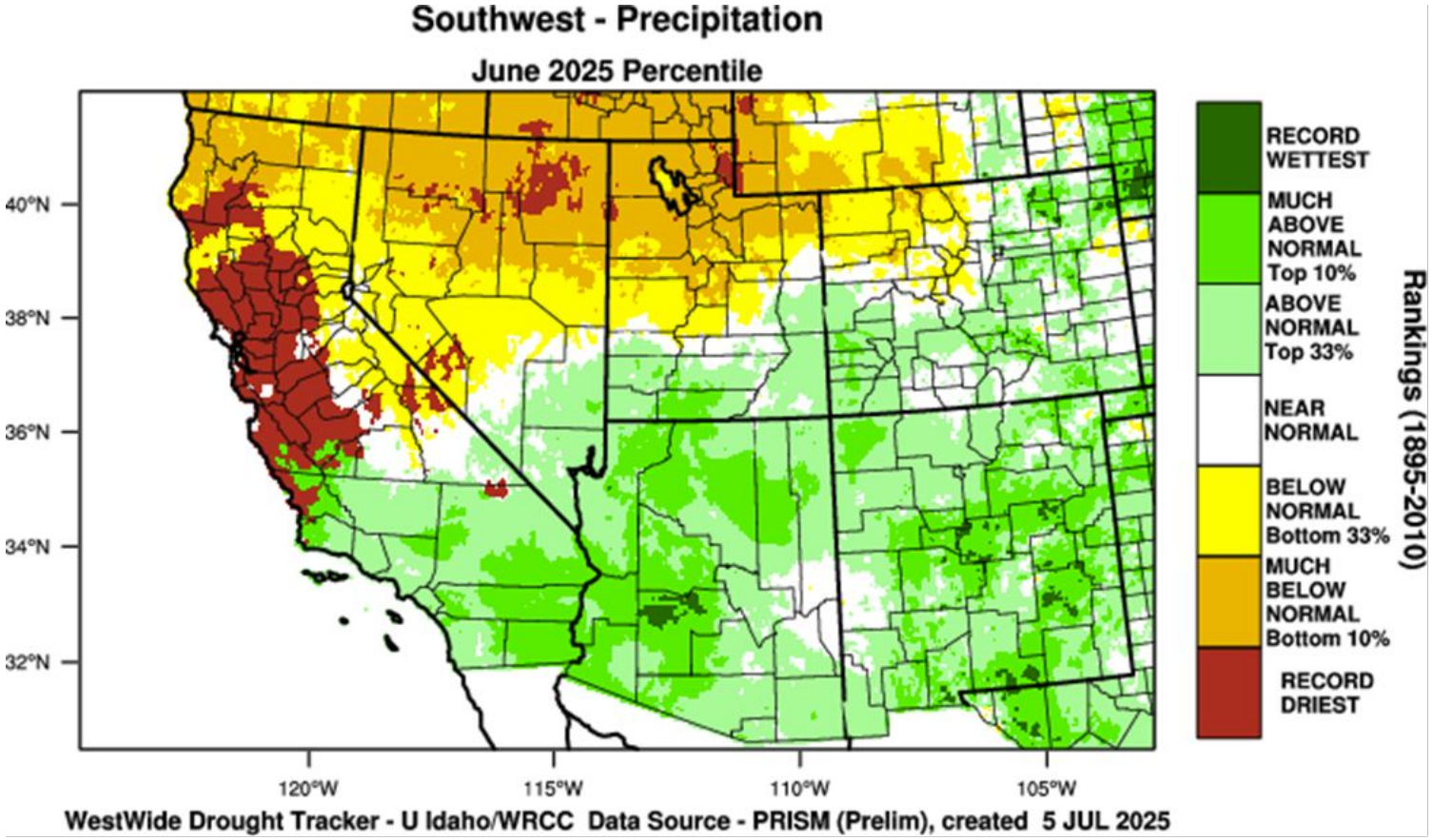
Temperature Summary

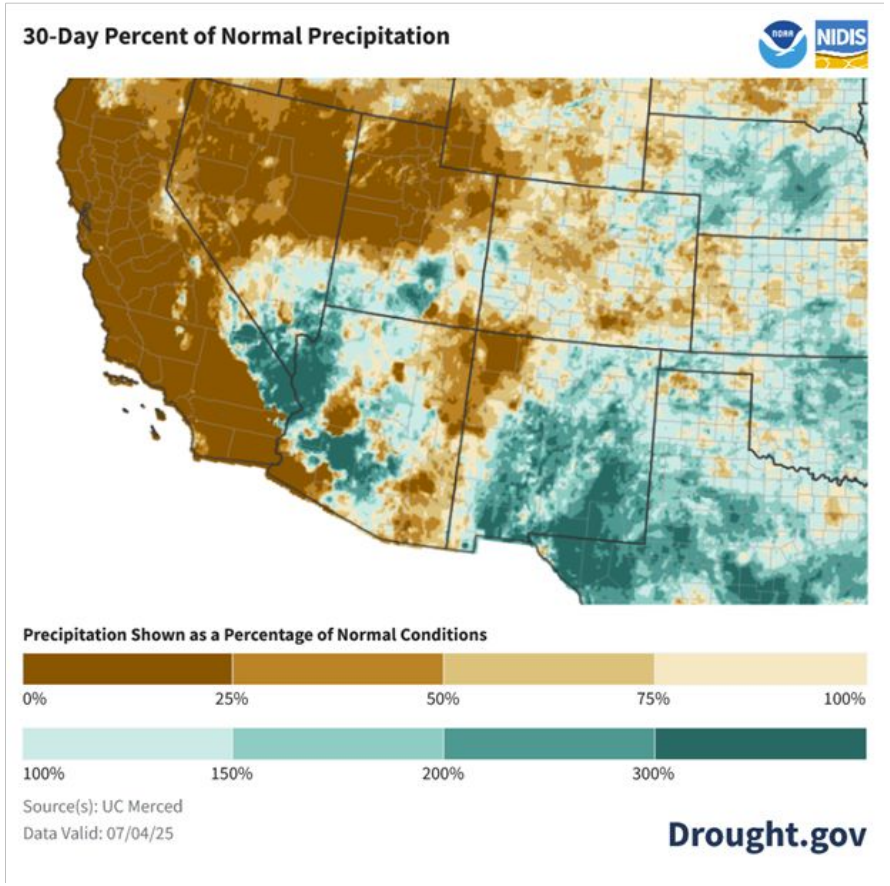




Agency - Utah Climate Center
Presenter - Jon Meyer

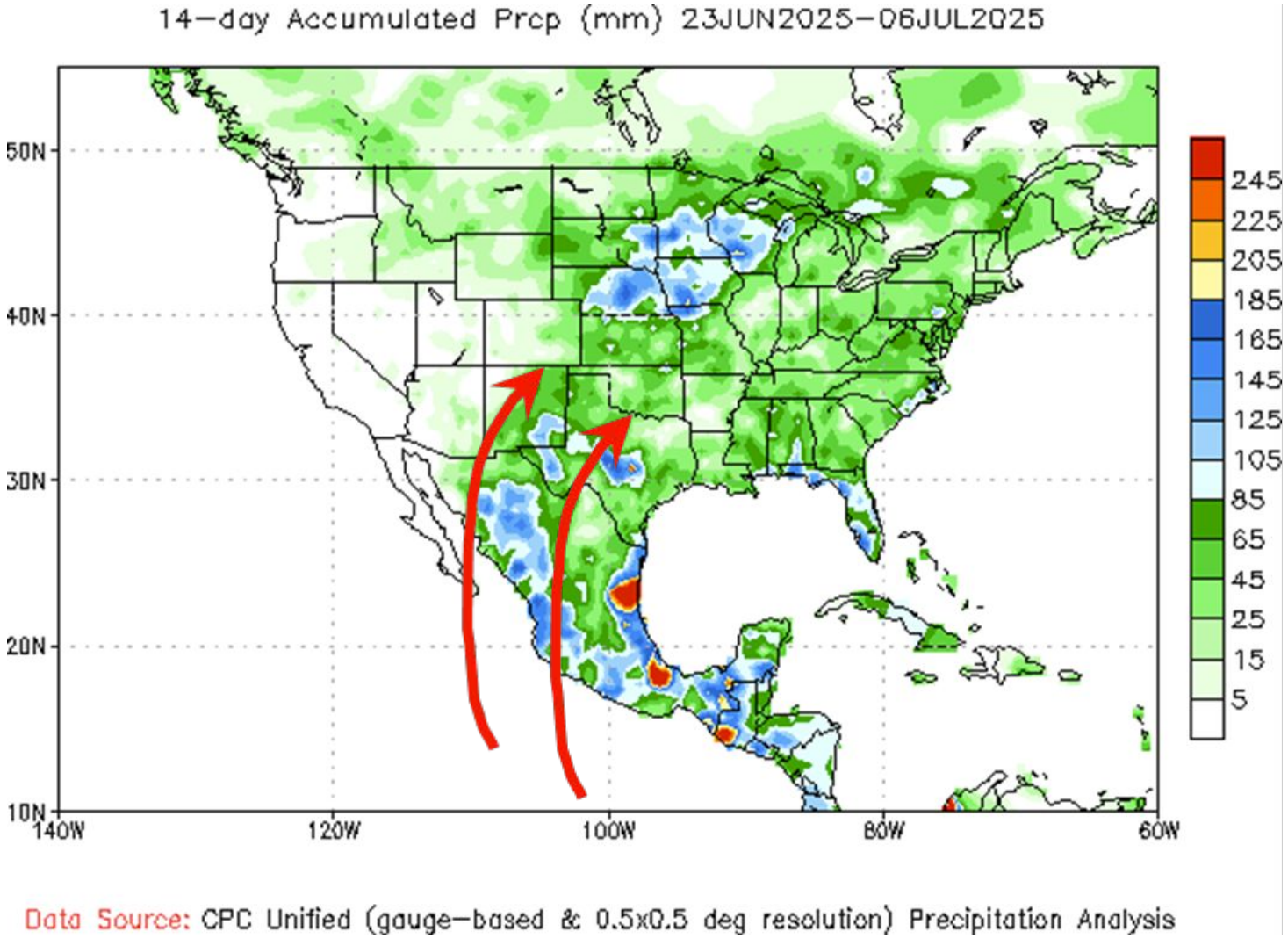
Precipitation Summary

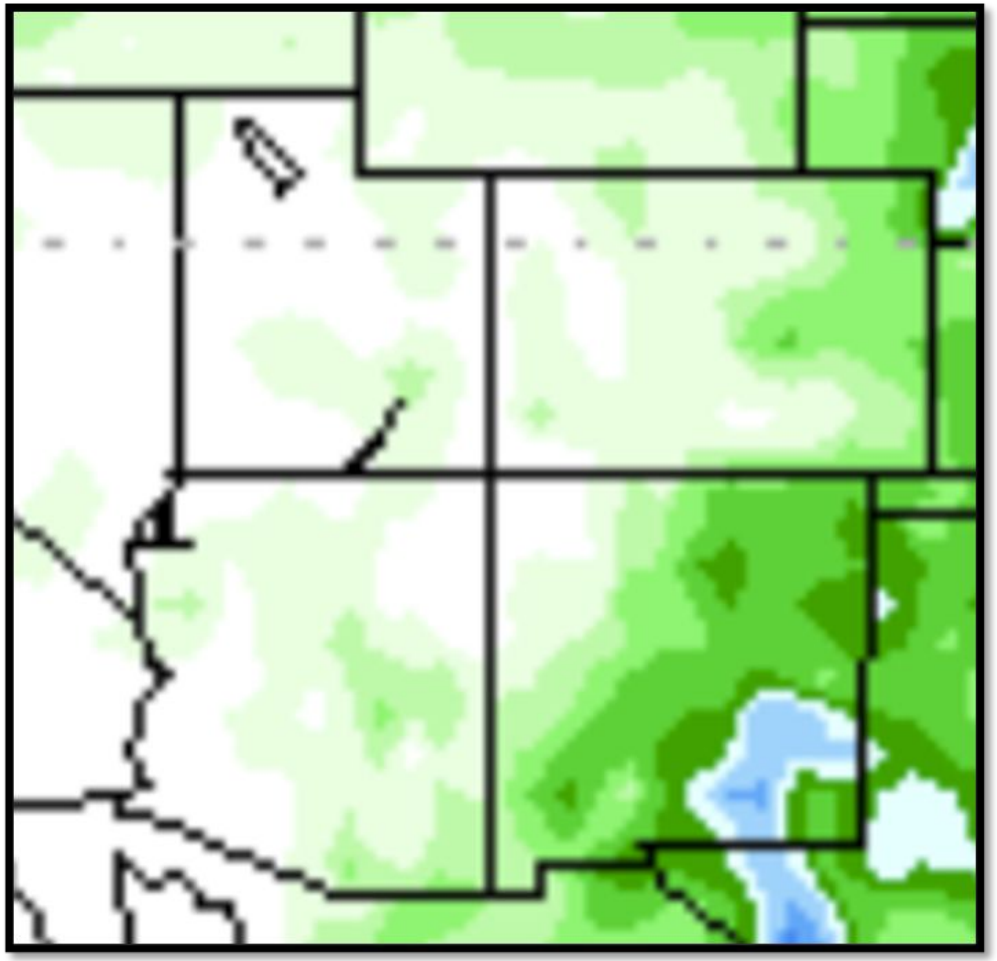




Agency - Utah Climate Center
Presenter - Jon Meyer

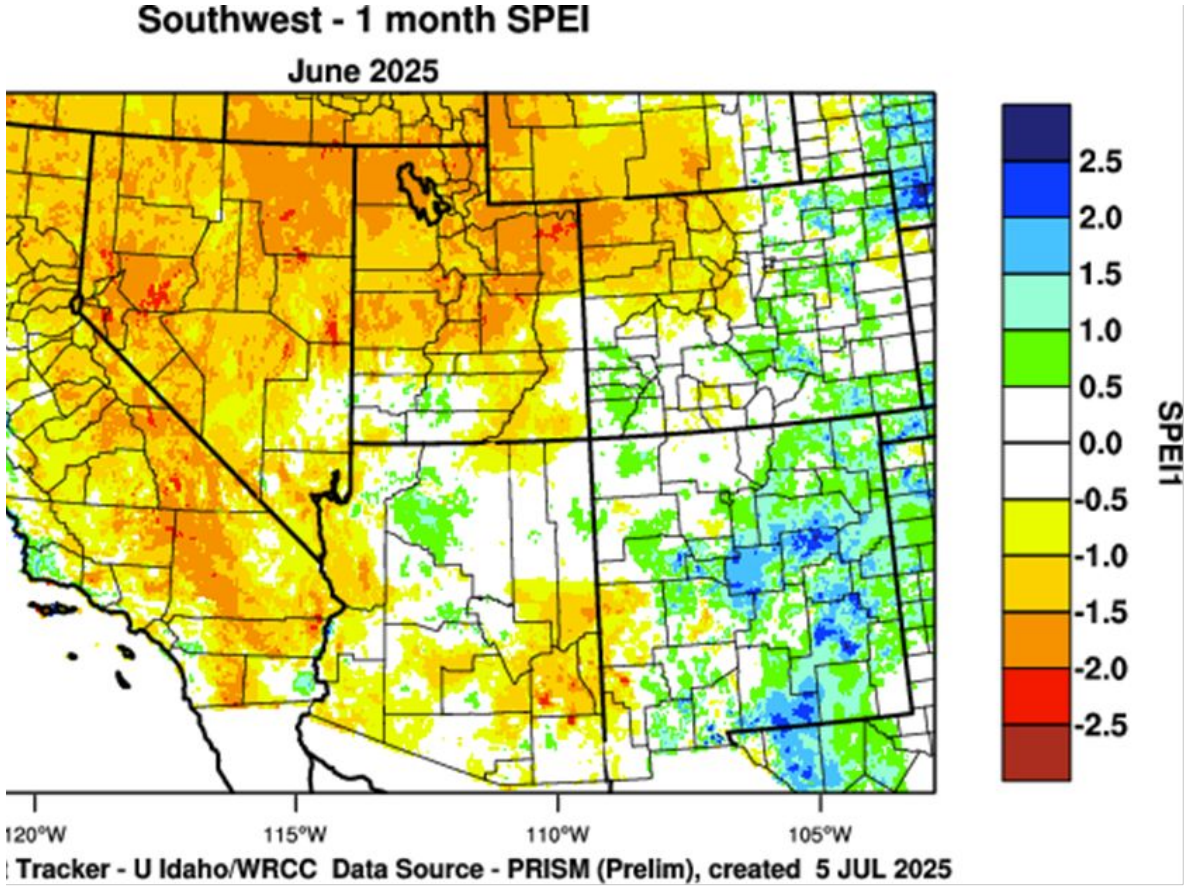
Recent Precip Totals

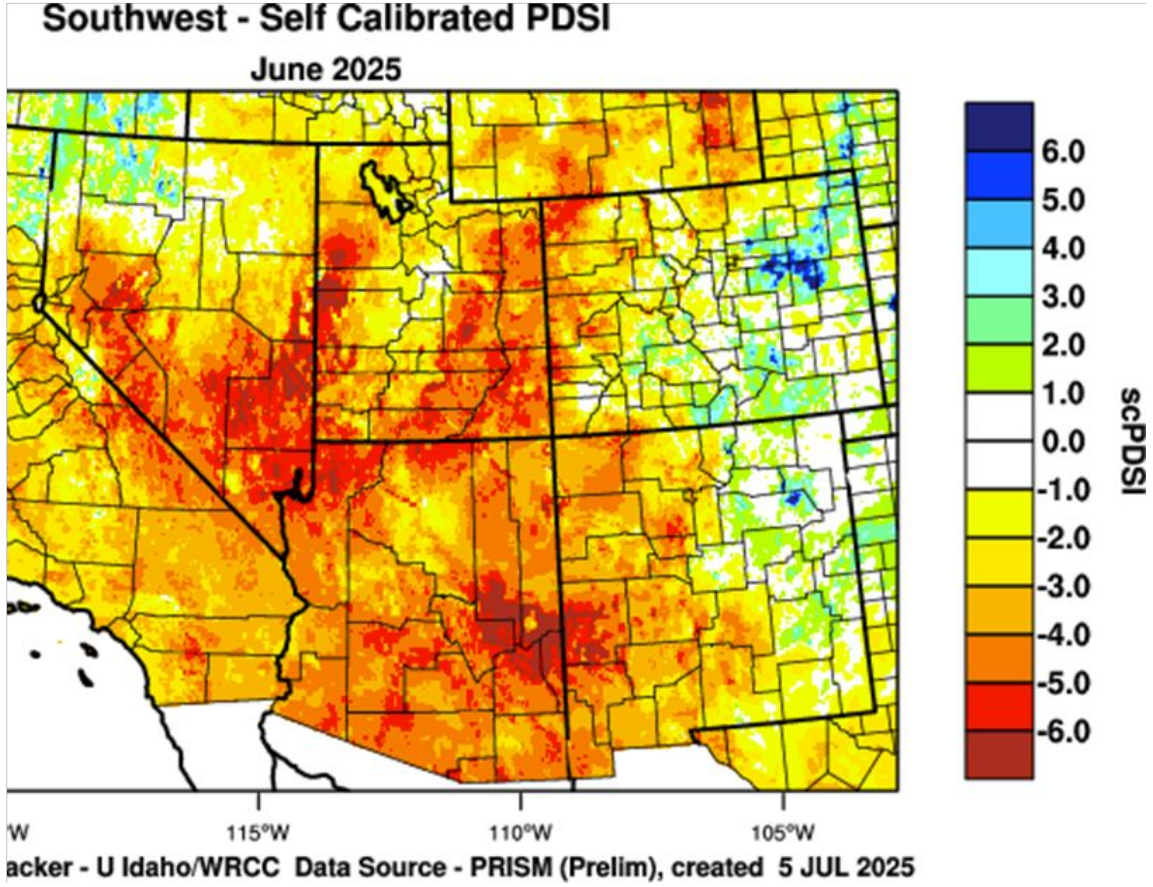




Agency - Utah Climate Center
Presenter - Jon Meyer

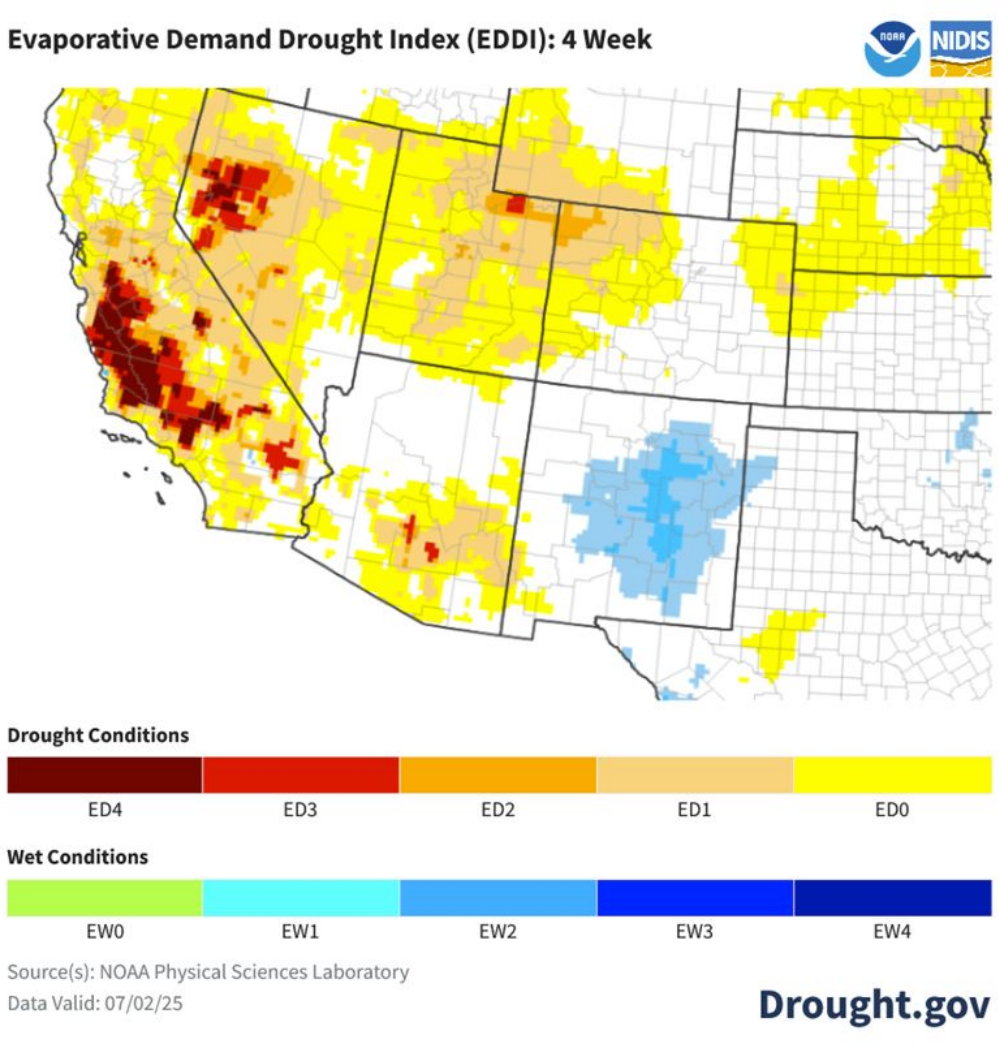
June Precipitation vs Palmer Drought Severity Index

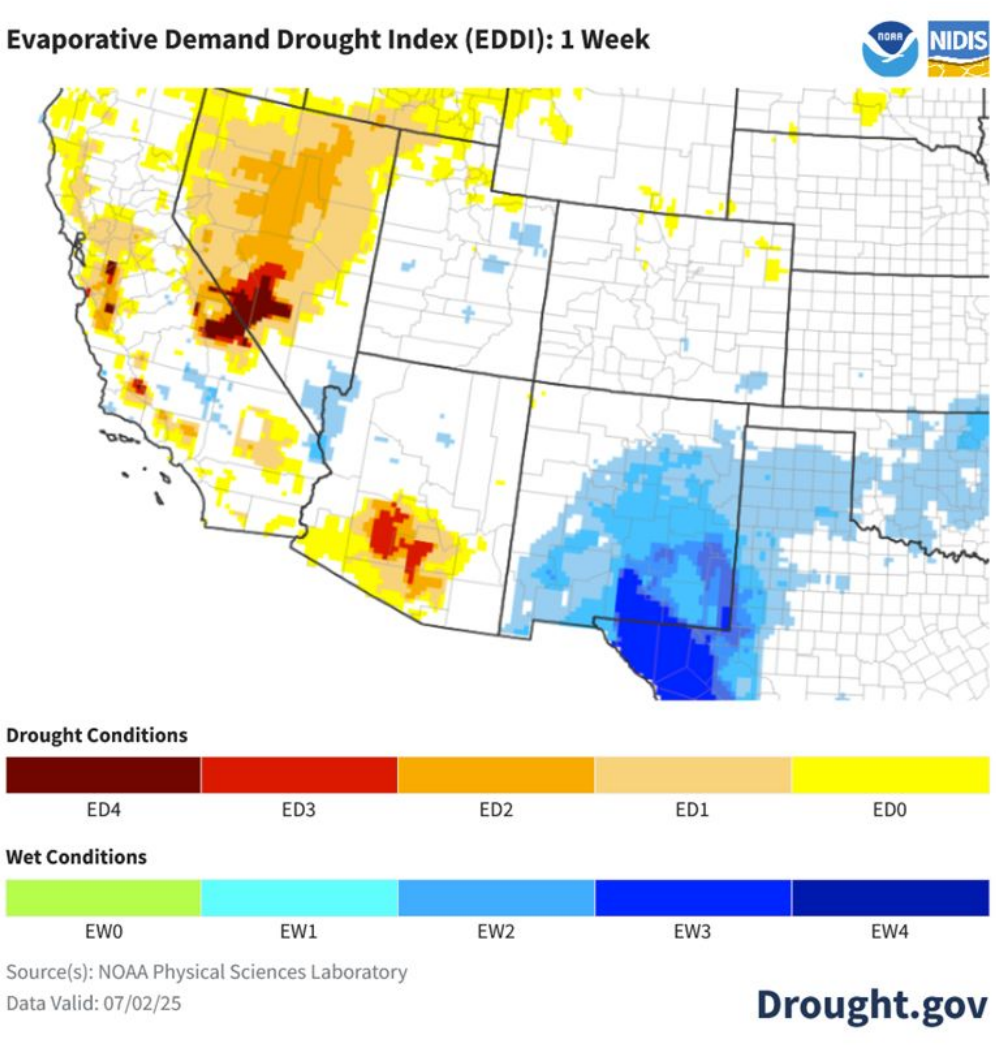




Agency - Utah Climate Center
Presenter - Jon Meyer

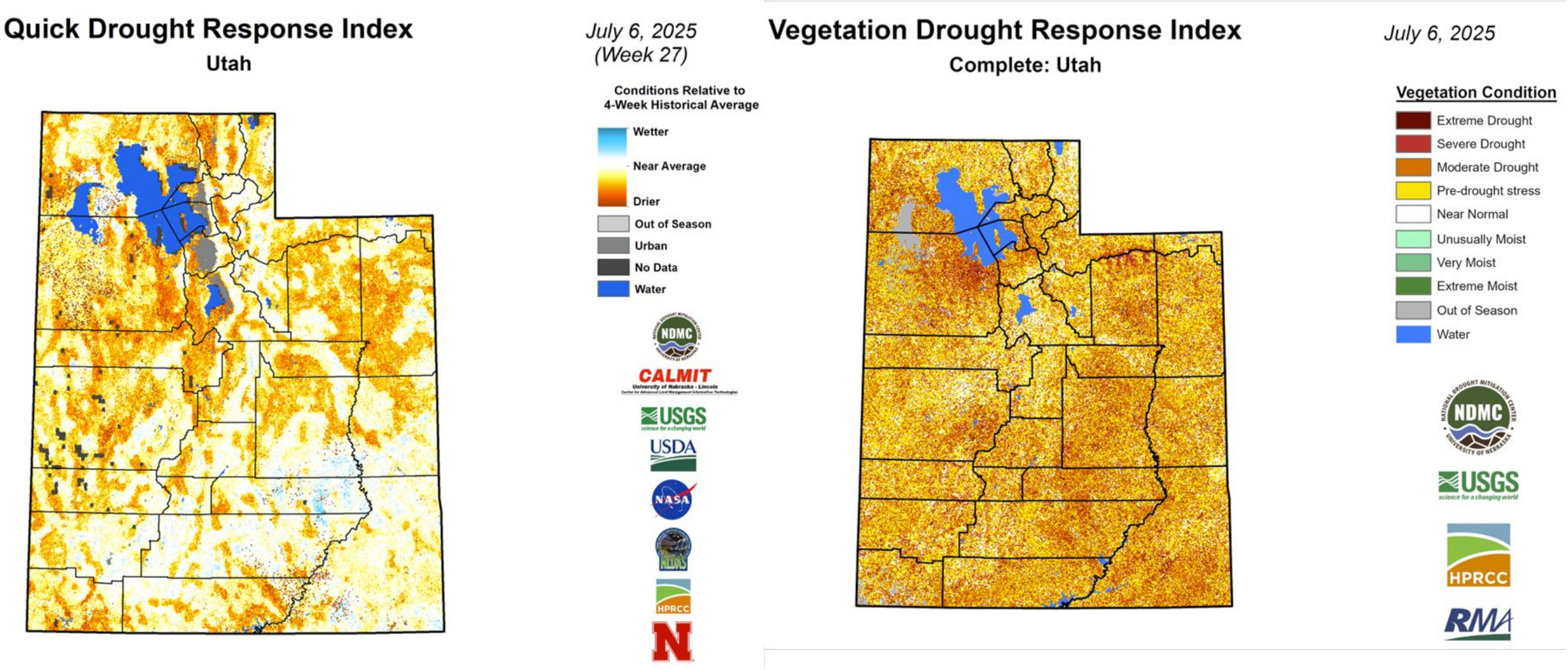
Recent Evaporative Demand





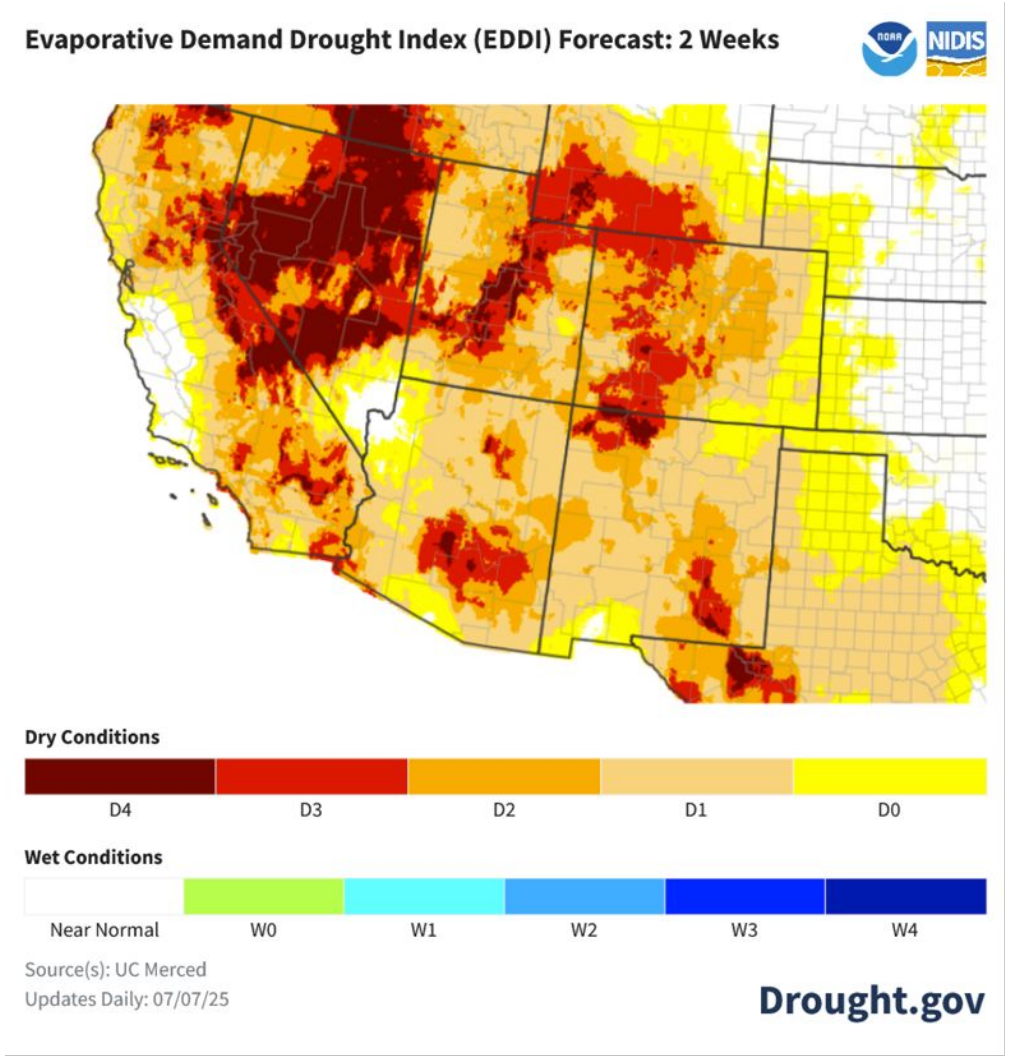
Agency - Utah Climate Center
Presenter - Jon Meyer

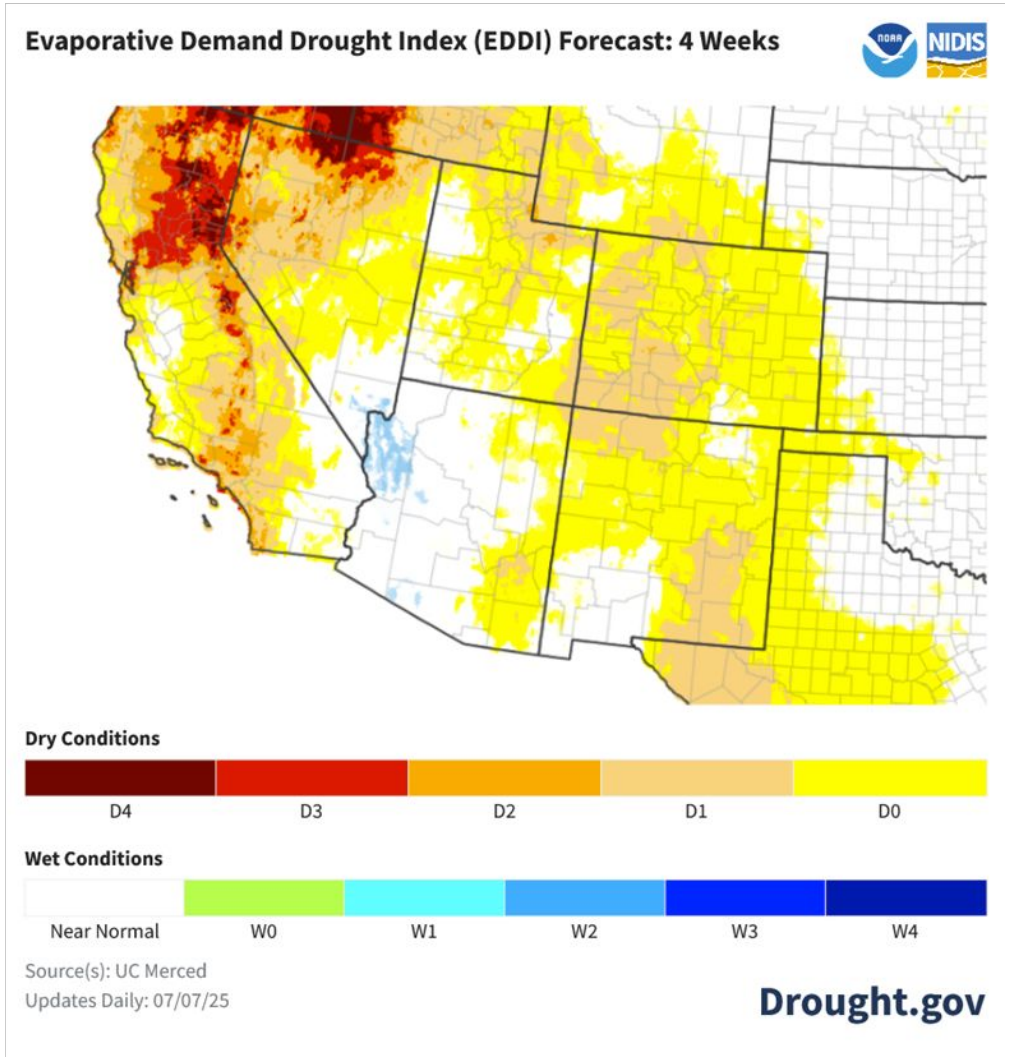
Short-term Drought Pressure and Vegetation Drought Response



Agency - Utah Climate Center
Presenter - Jon Meyer

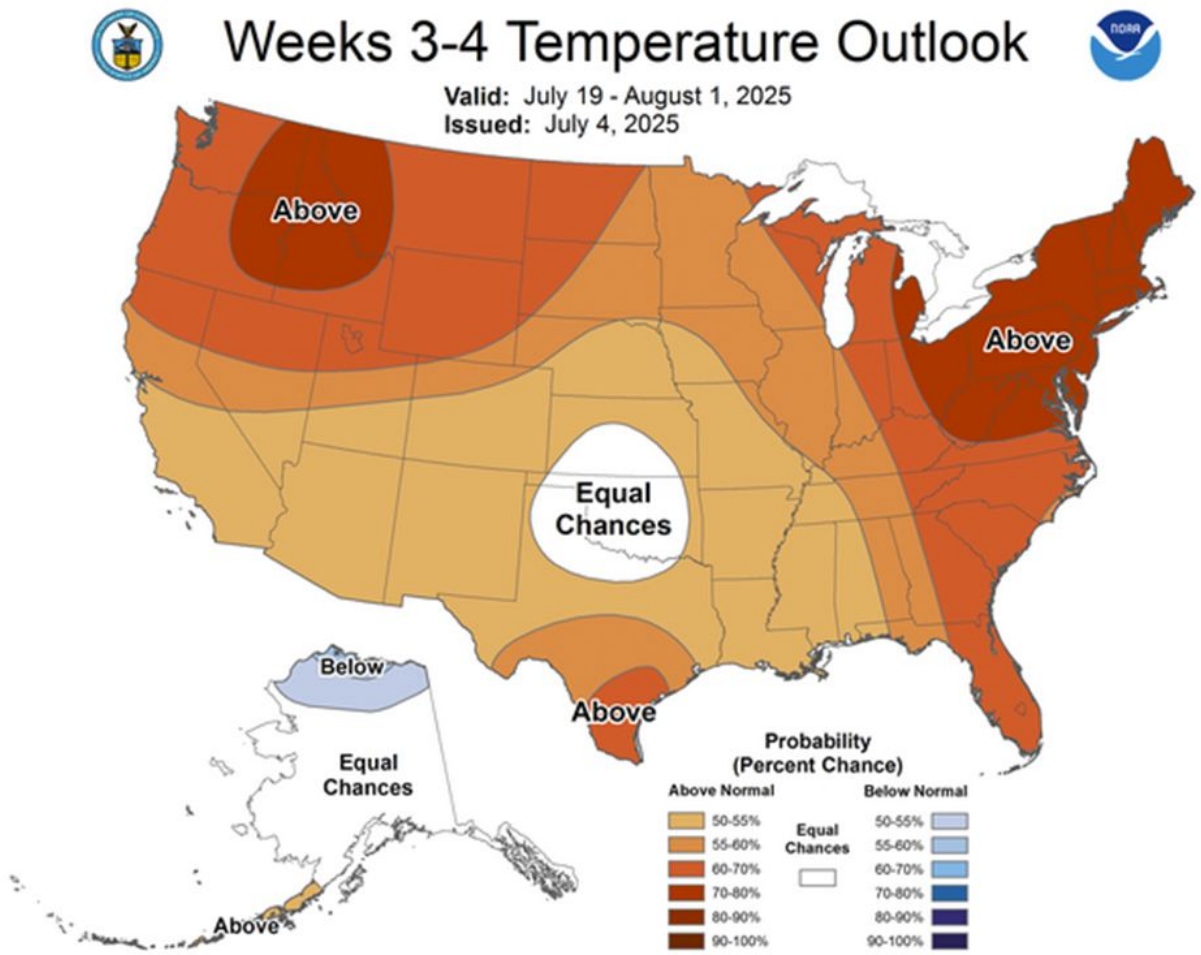
Evaporative Demand Forecasts

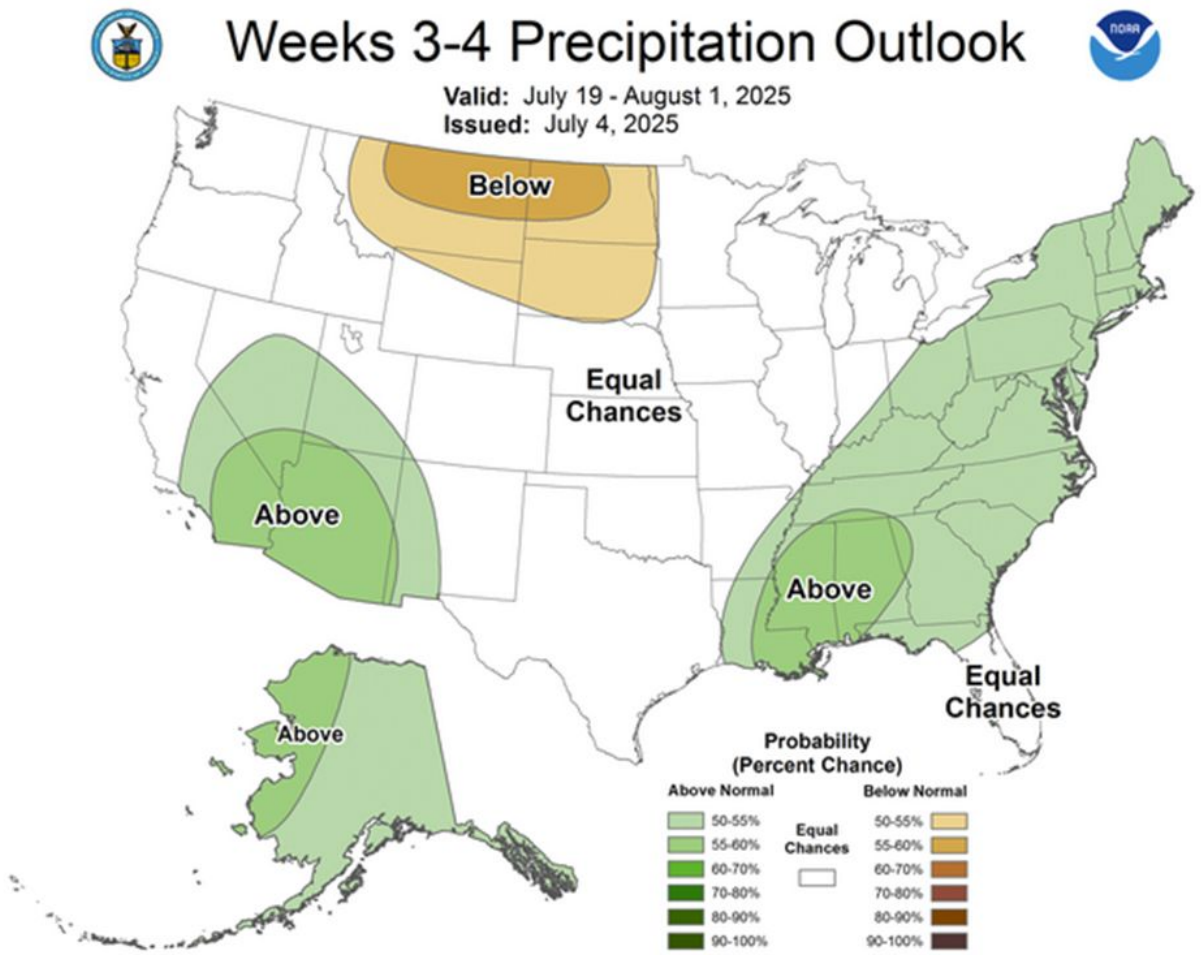




Agency - Utah Climate Center
Presenter - Jon Meyer

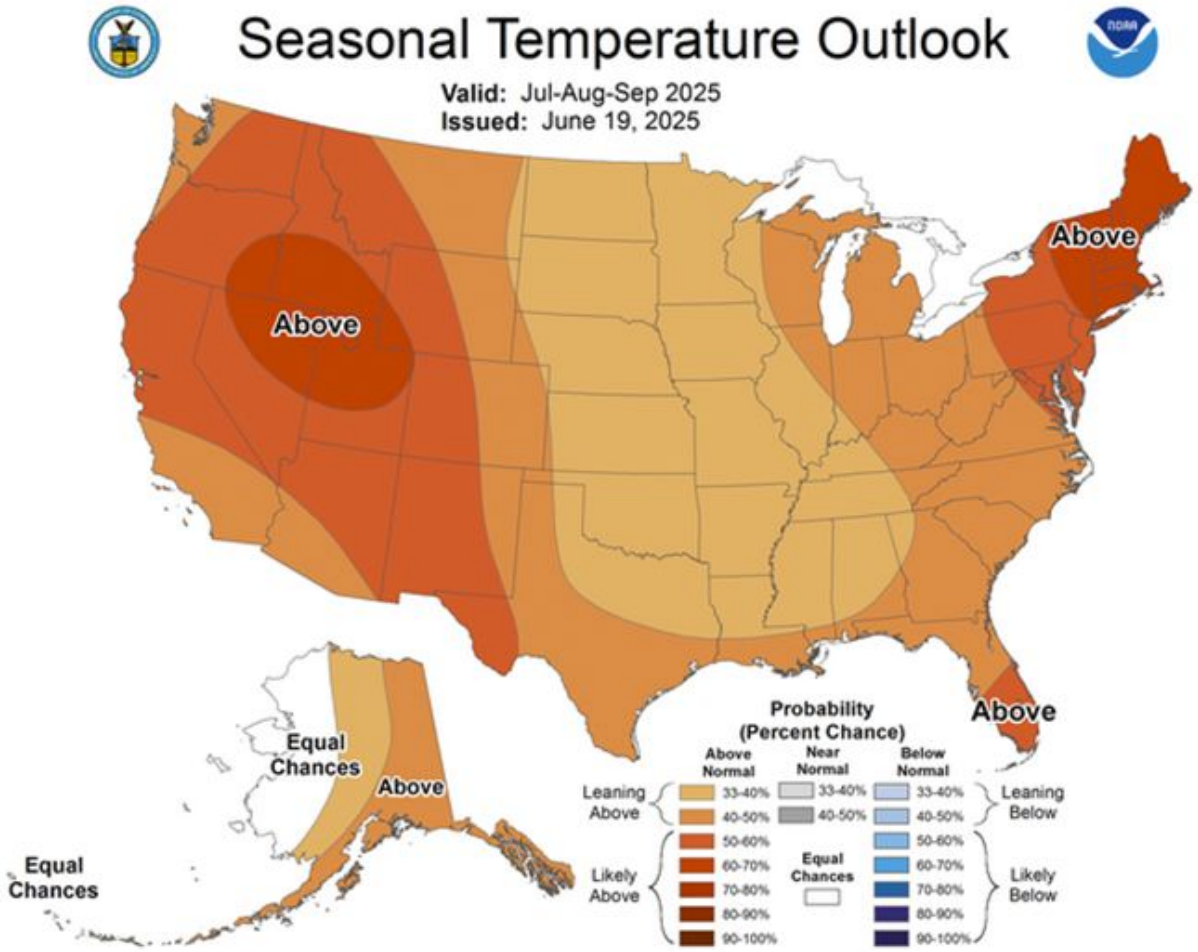
CPC Outlook: Back-half of July

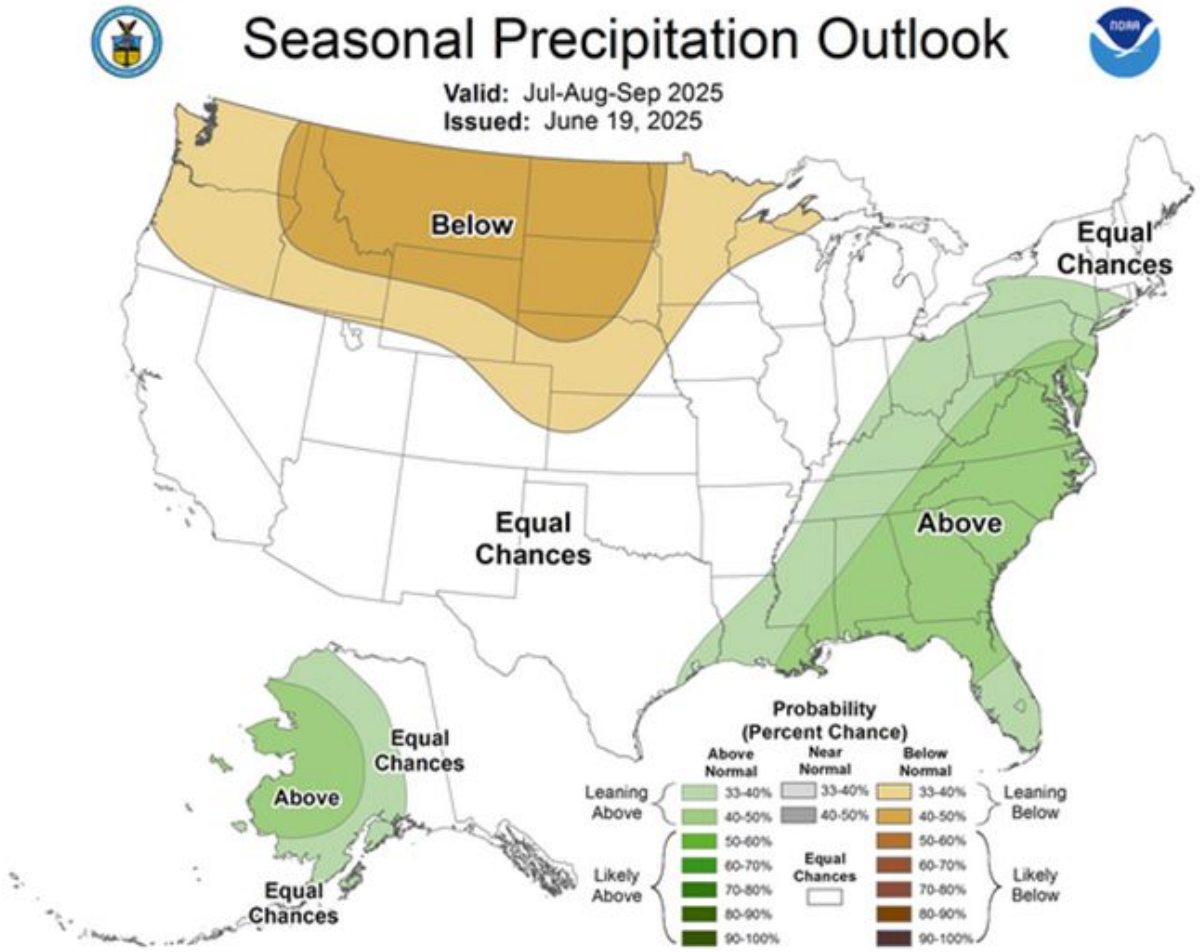




Agency - Utah Climate Center
Presenter - Jon Meyer

CPC July-Sept. Outlook





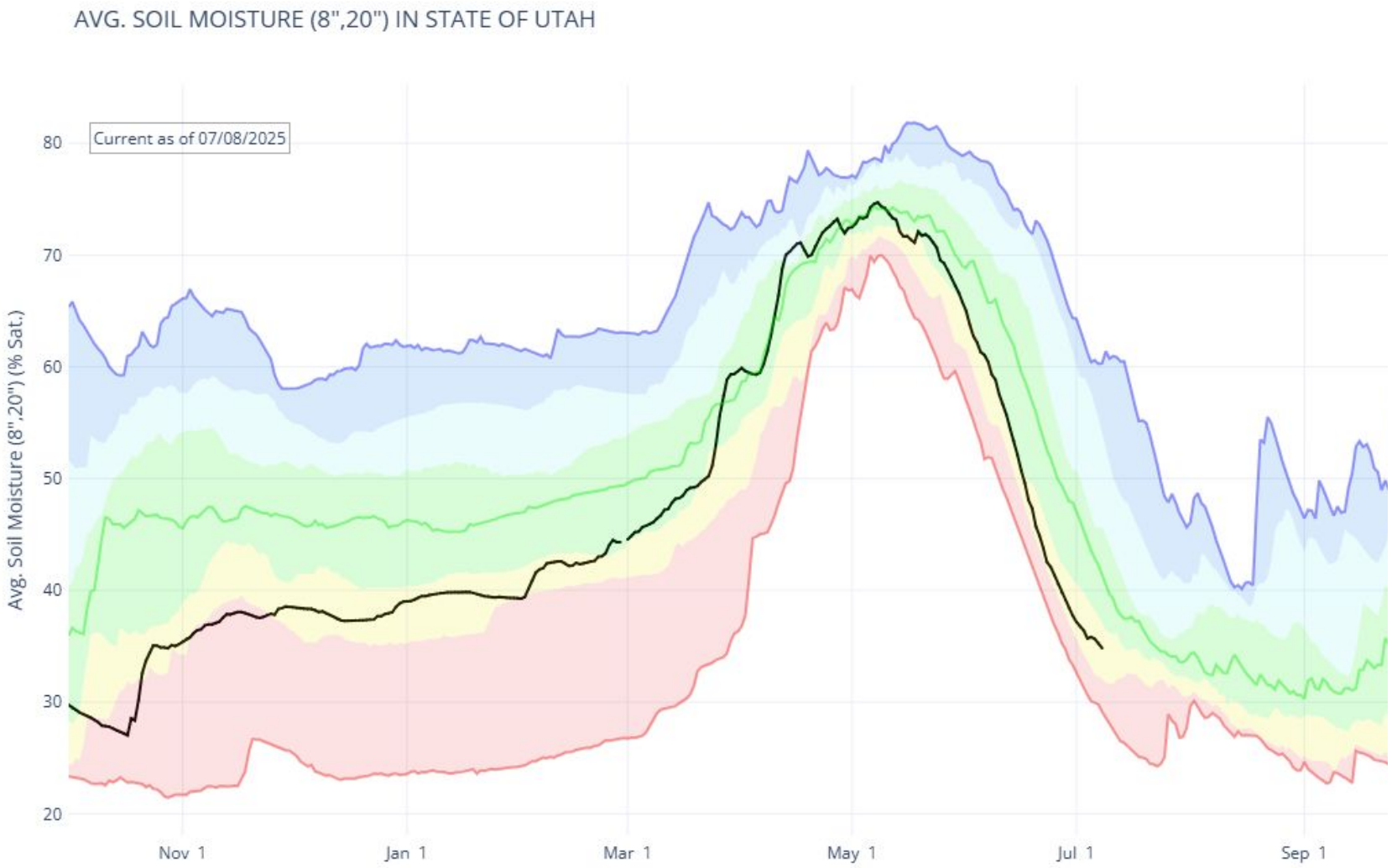
Agency - Utah Climate Center
Presenter - Jon Meyer

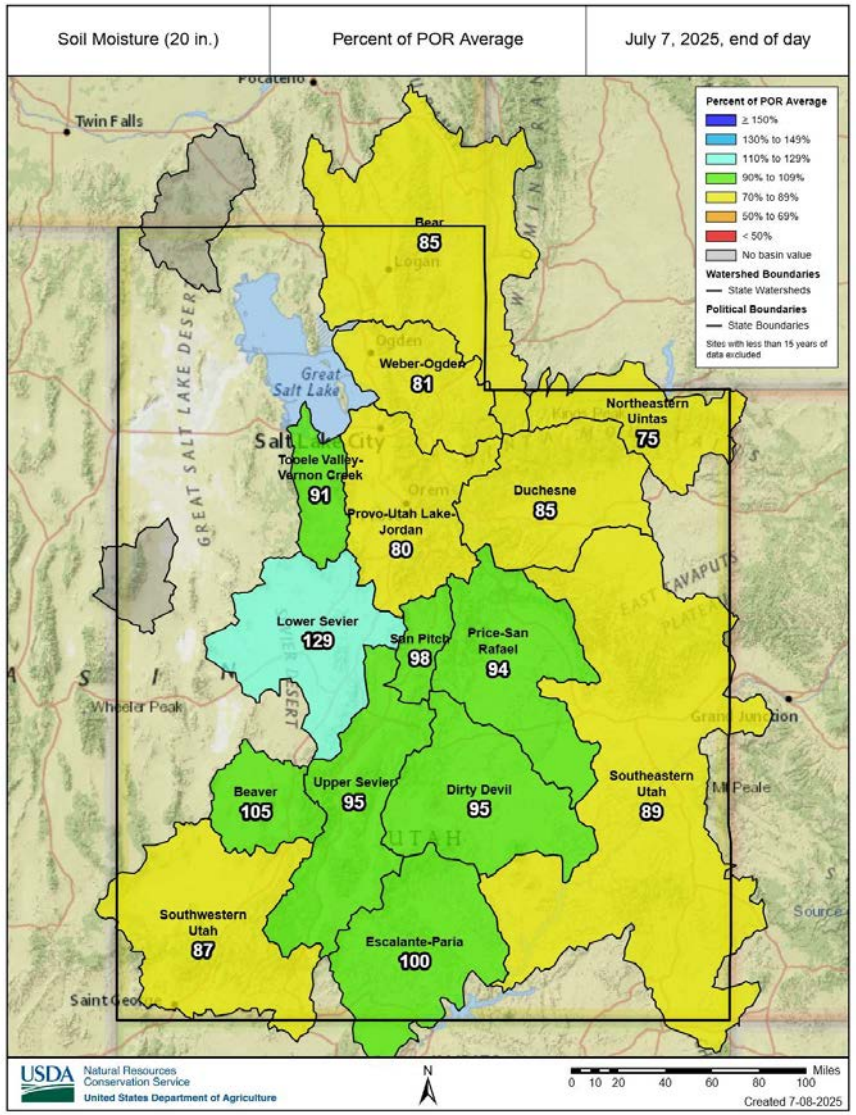
Summer Outlook: Behind the Scenes

- Seasonal forecasts contain large spread in precipitation outcomes….low confidence in any scenario's forecast skill
- The position of the large-scale high pressure weather pattern seems to continue to remain unfavorable for ongoing monsoon presence in Utah, but that does not mean Utah will have a "non"soon season in hindsight. Individual events are not well predicted and one or two events can be seasonally meaningful. Optimism is waning, but not dead.
- One area of concern is the seasonal carry-over of soil moisture deficits into the fall and winter seasons. Seasonal outlook prediction is calling for the dry pattern to remain through the winter season and preliminary results at the UCC are pointing towards 2-3 more dry years ahead.

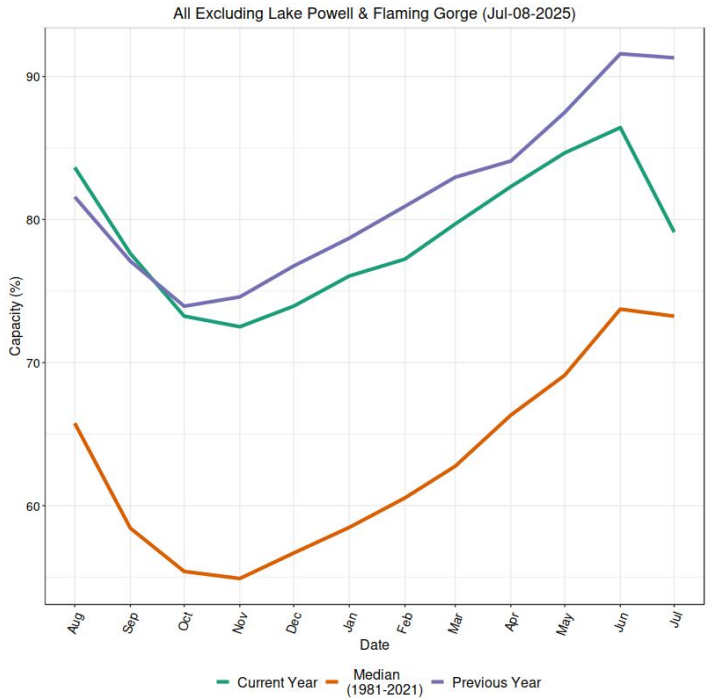
Agency - Utah Climate Center
Presenter - Jon Meyer

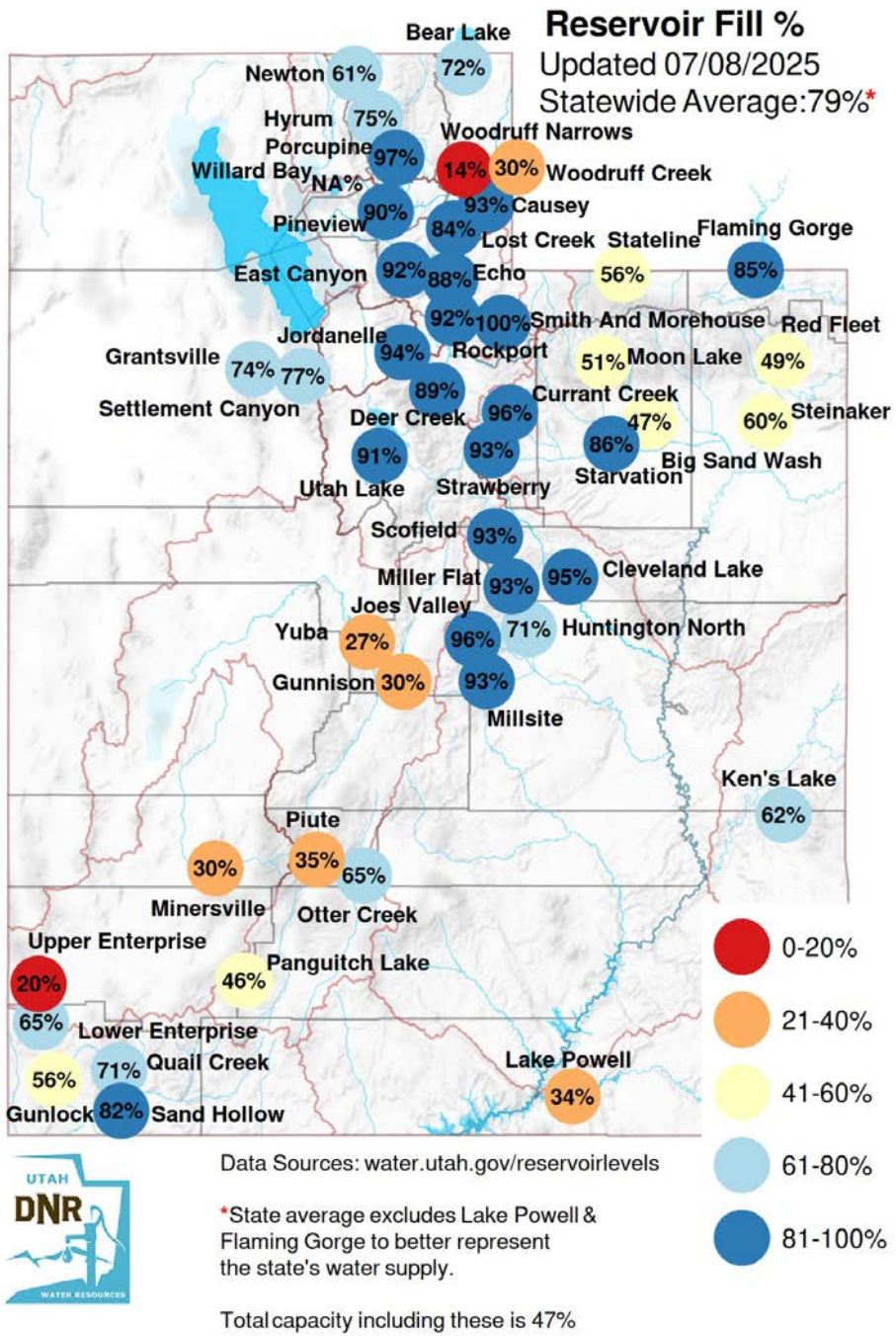
Soil Moisture (Current)





Agency -
Presenter -





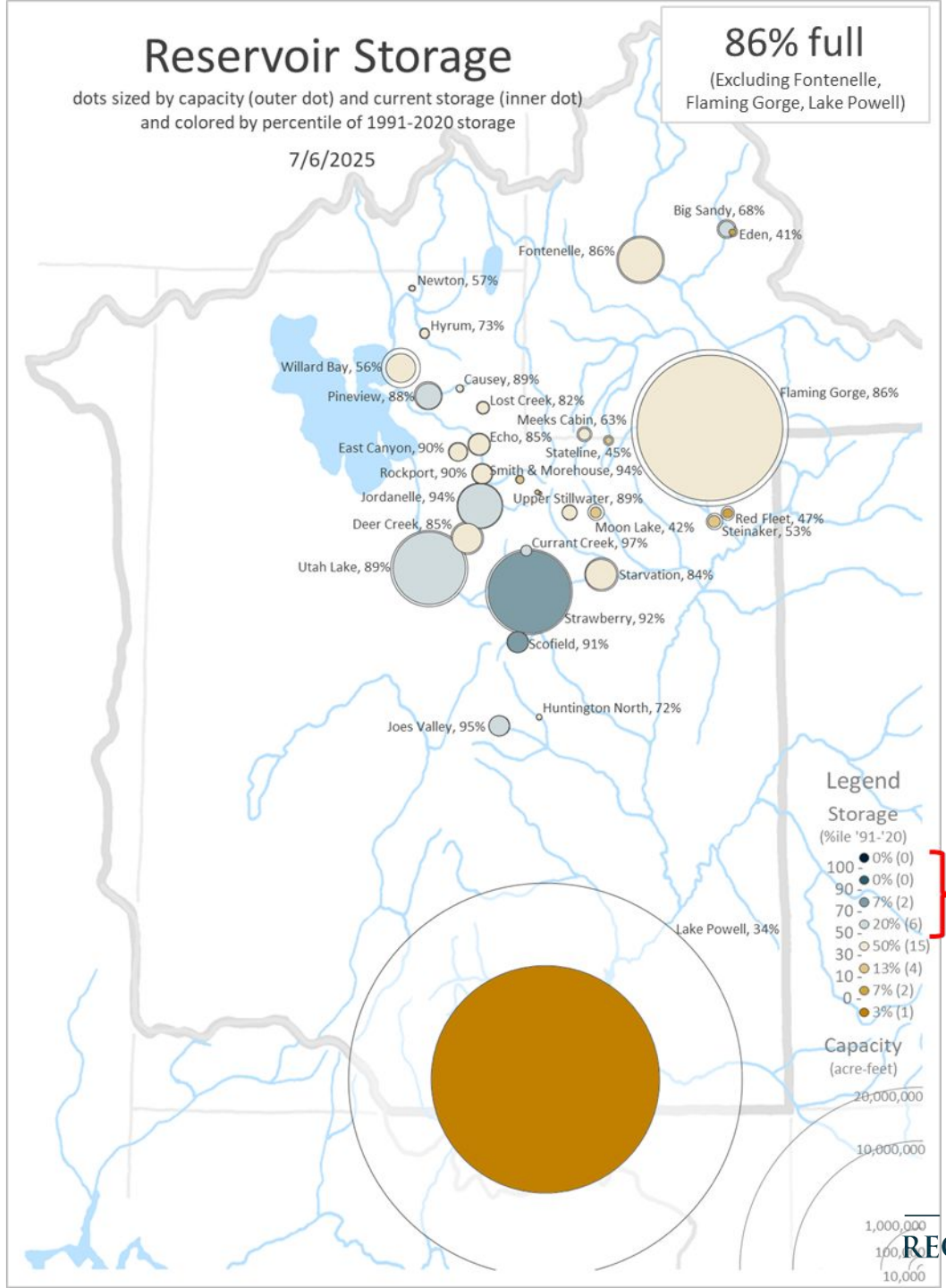
Agency - Division of Water Resources
Presenter - Laura Haskell

Reservoir Levels

- **Overall reservoir storage is at ~~94~~ 86% full**
  (Excluding Powell, Flaming Gorge, Fontenelle)

- **Individual reservoirs range from 41-94% full**
  - **~~21~~ 8/30 are above the 30-year median**

- **Outlook**
  - **storage is declining**

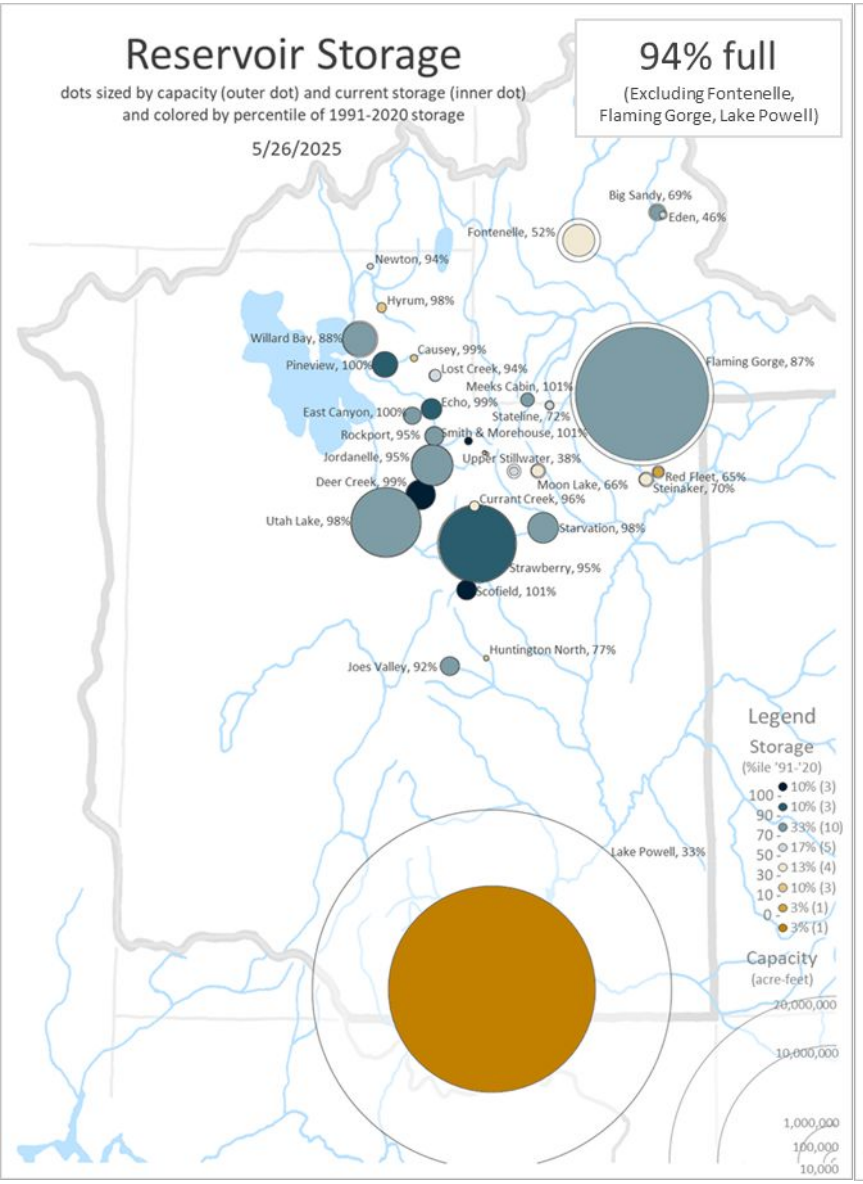


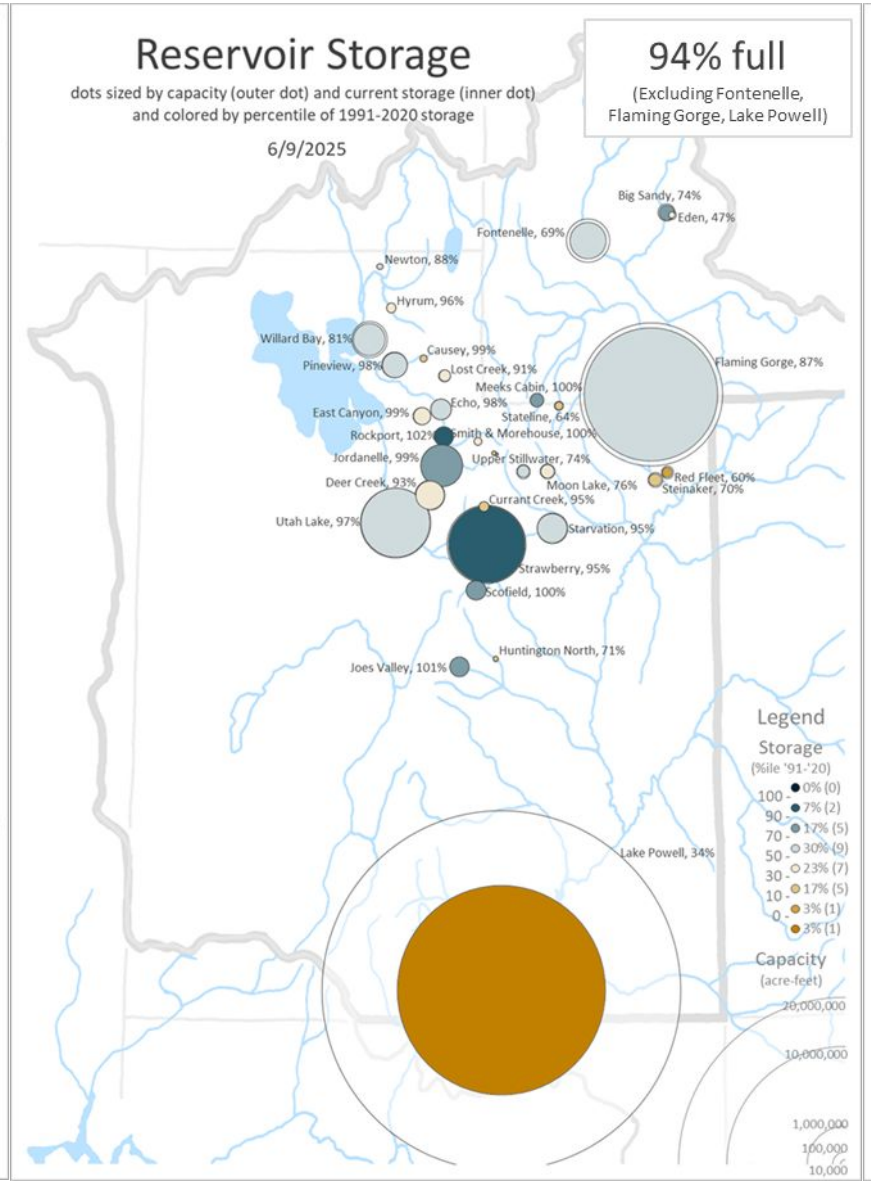
~~21~~ 8 of 30 >median

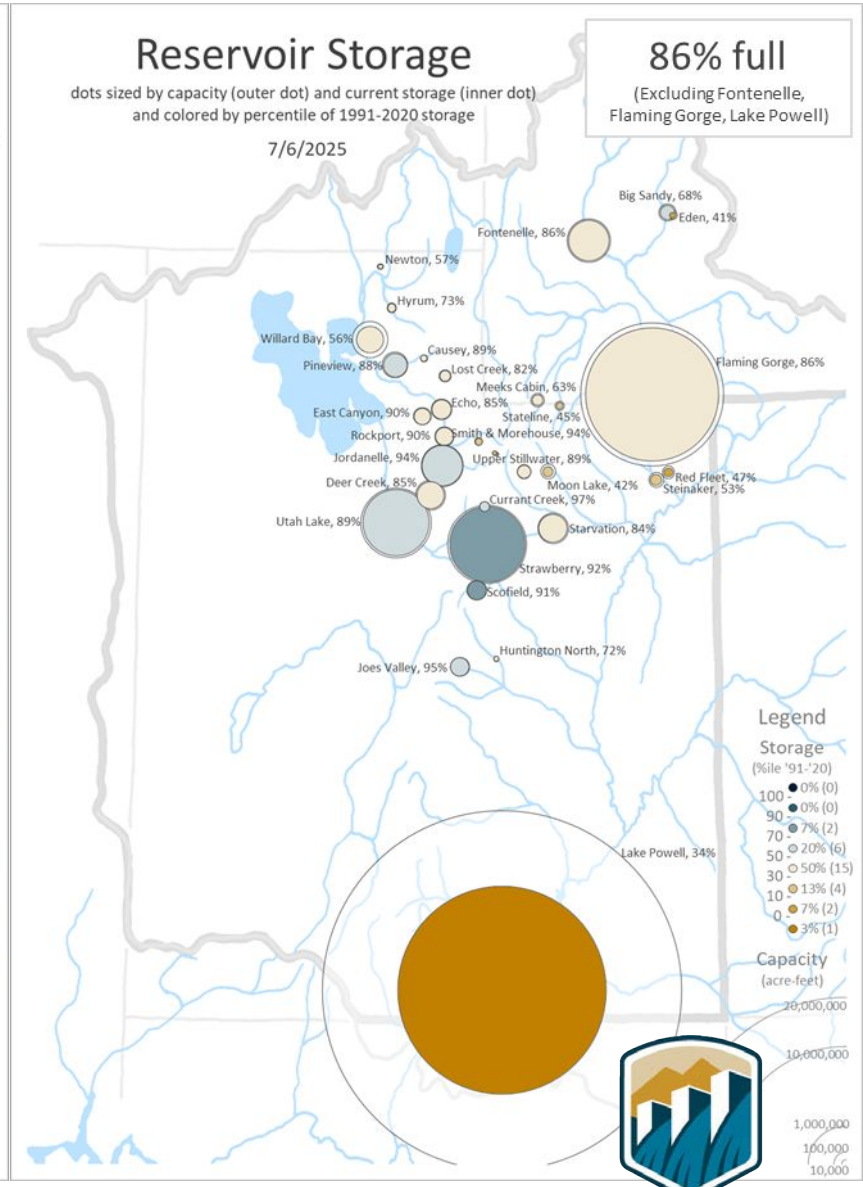
Agency - BOR
Presenter - Gary Henrie

BUREAU OF RECLAMATION

Reservoir Levels





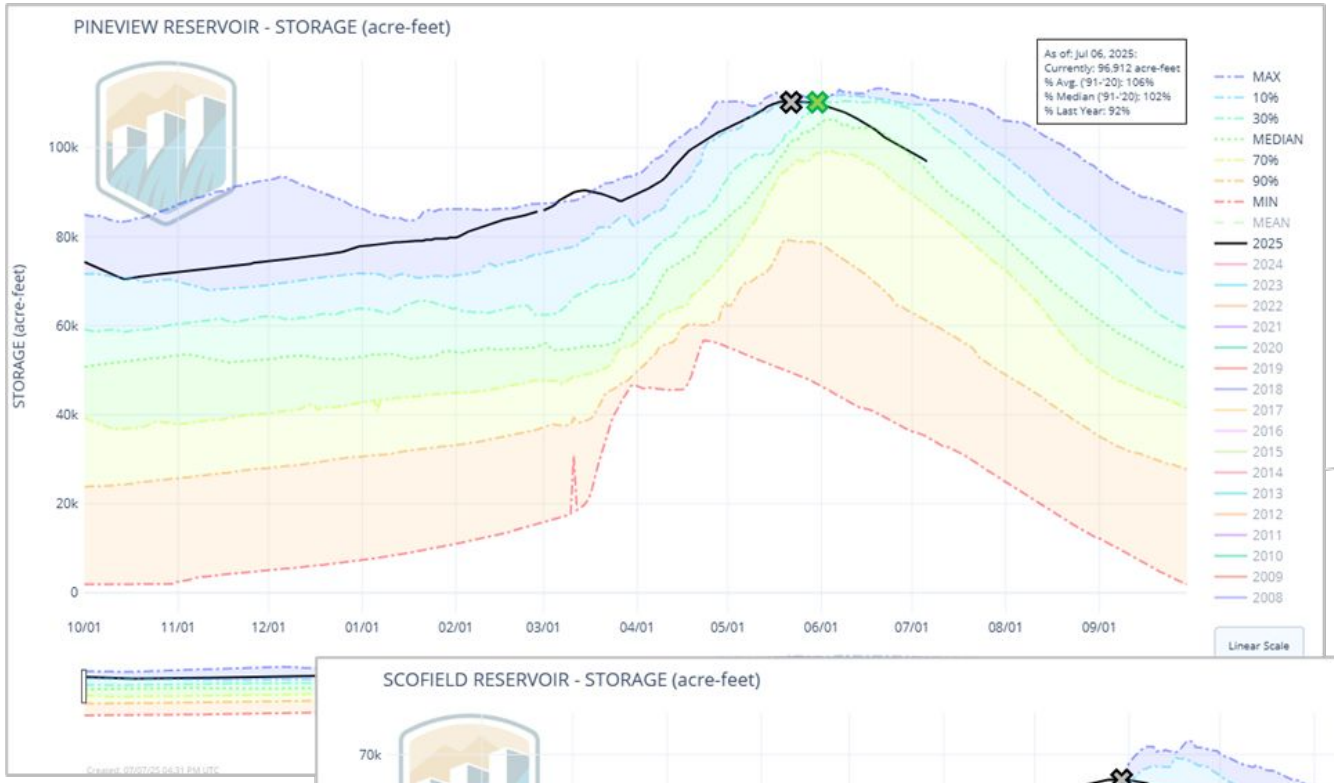


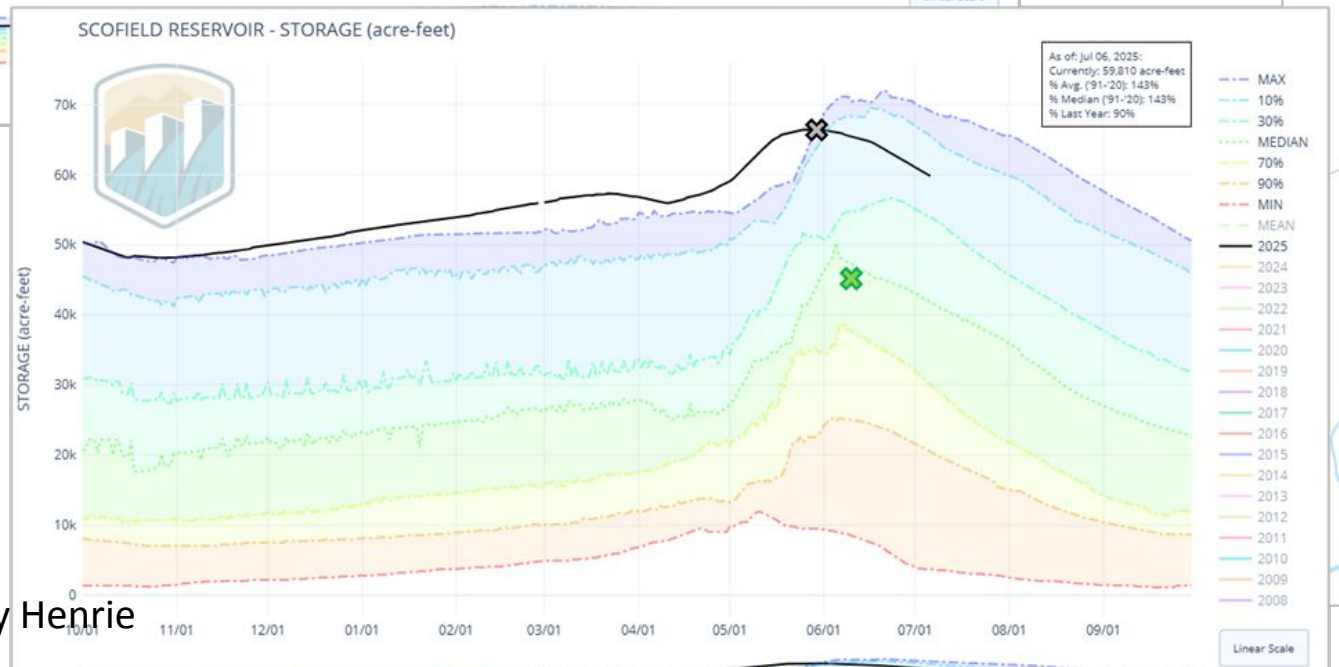
Agency - BOR

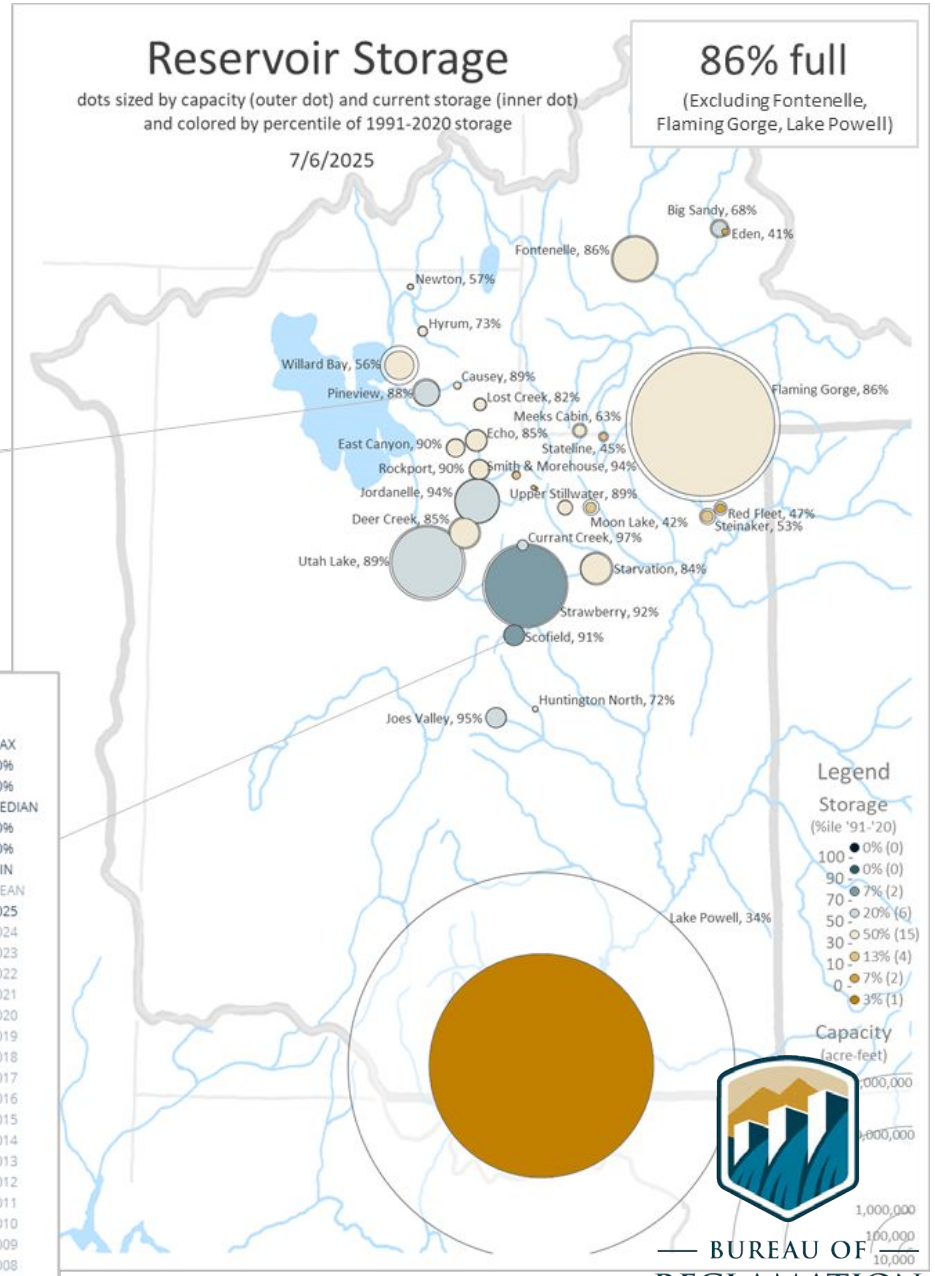
Presenter - Gary Henrie

BUREAU OF RECLAMATION

Reservoir Levels

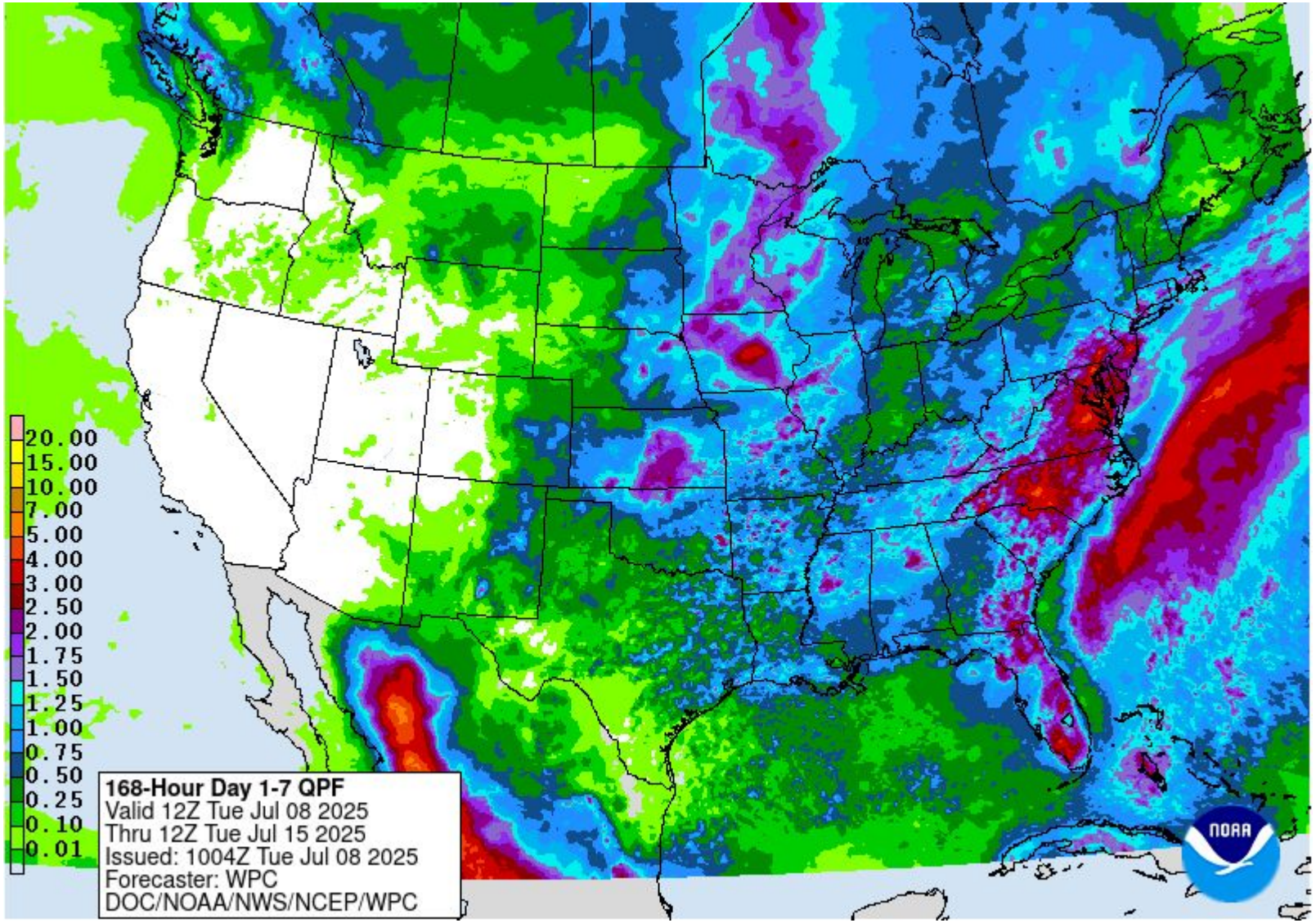


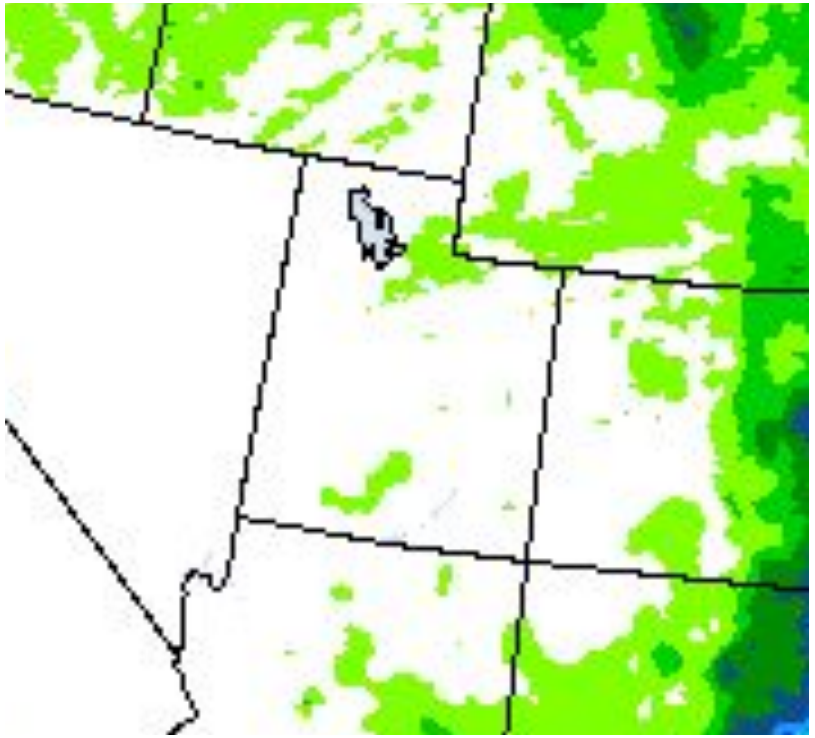




Agency - BOR
Presenter - Gary Henrie

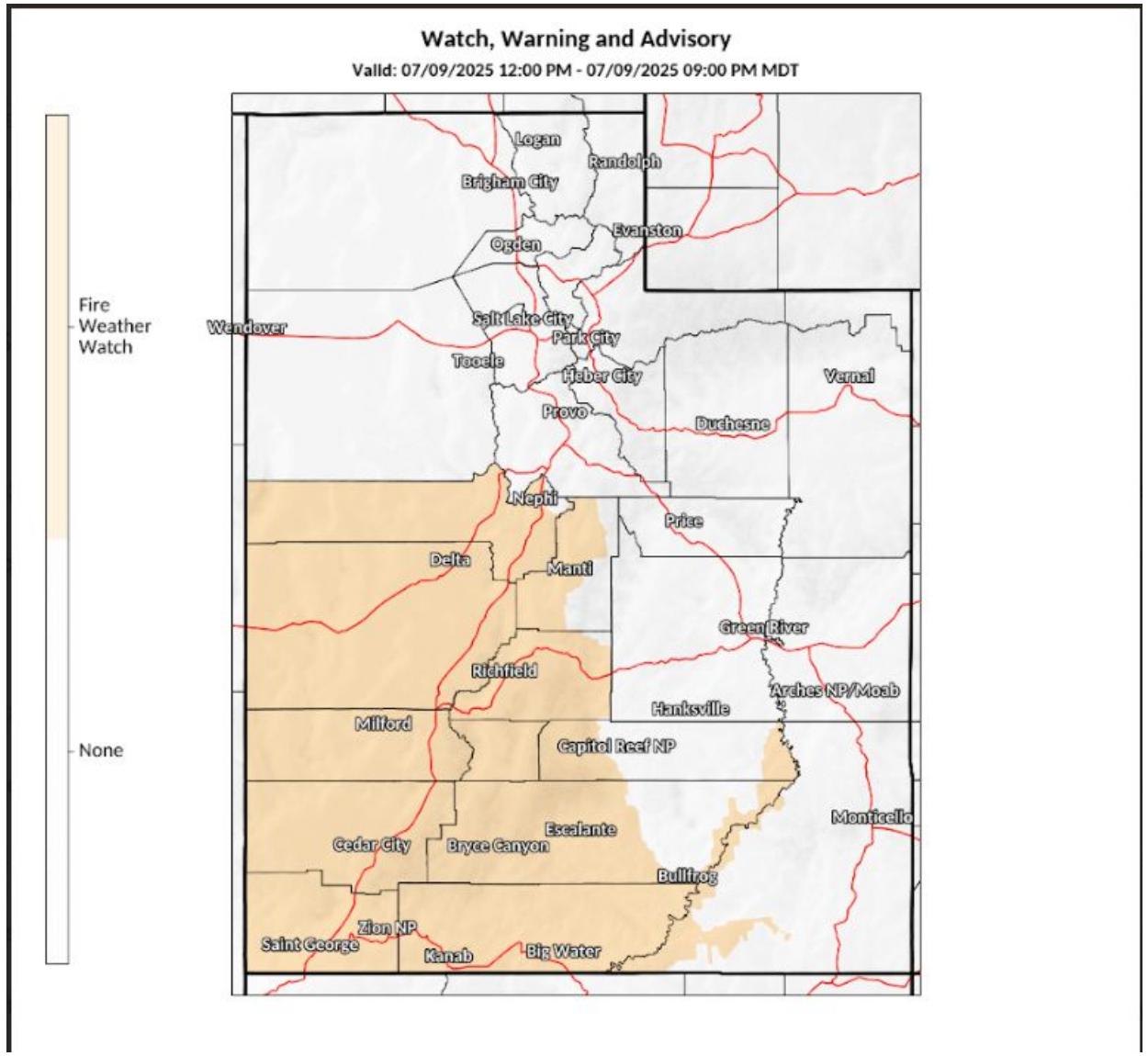
Weather Forecast Office Utah Day 1-7 Outlook





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

Fire Weather Watch - Wednesday

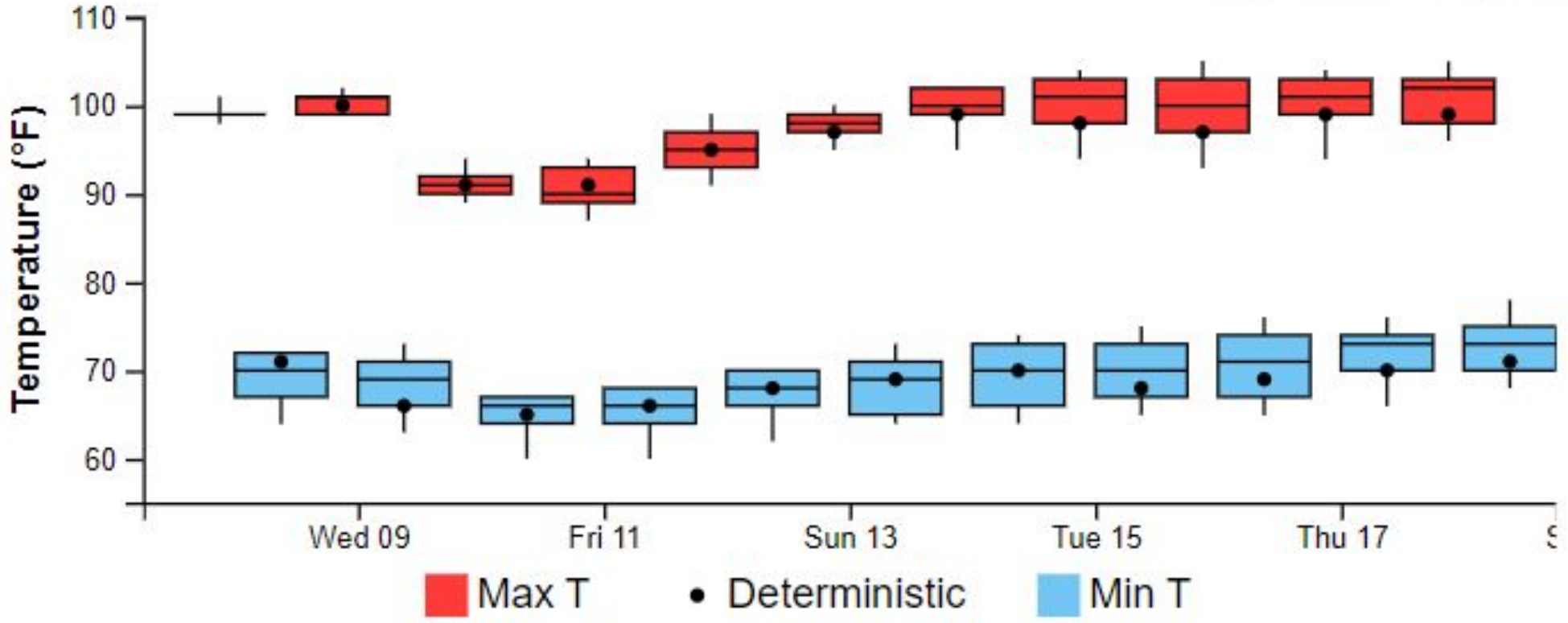


Winds: Southwest 15-25 G35 mph

Relative Humidity: 7-15%

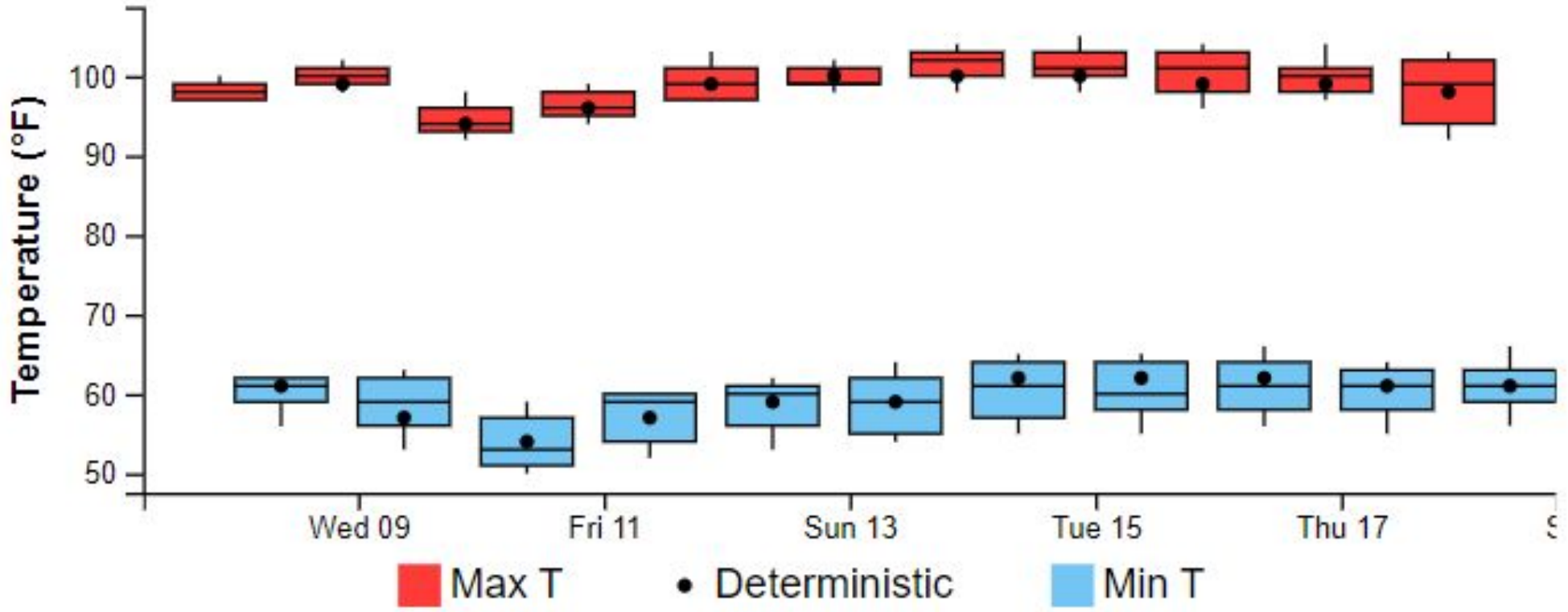
Agency - National Weather Service Weather Forecast Office
Presenter - Glen Merrill

Temperatures - Eagle Range (Box Elder County)



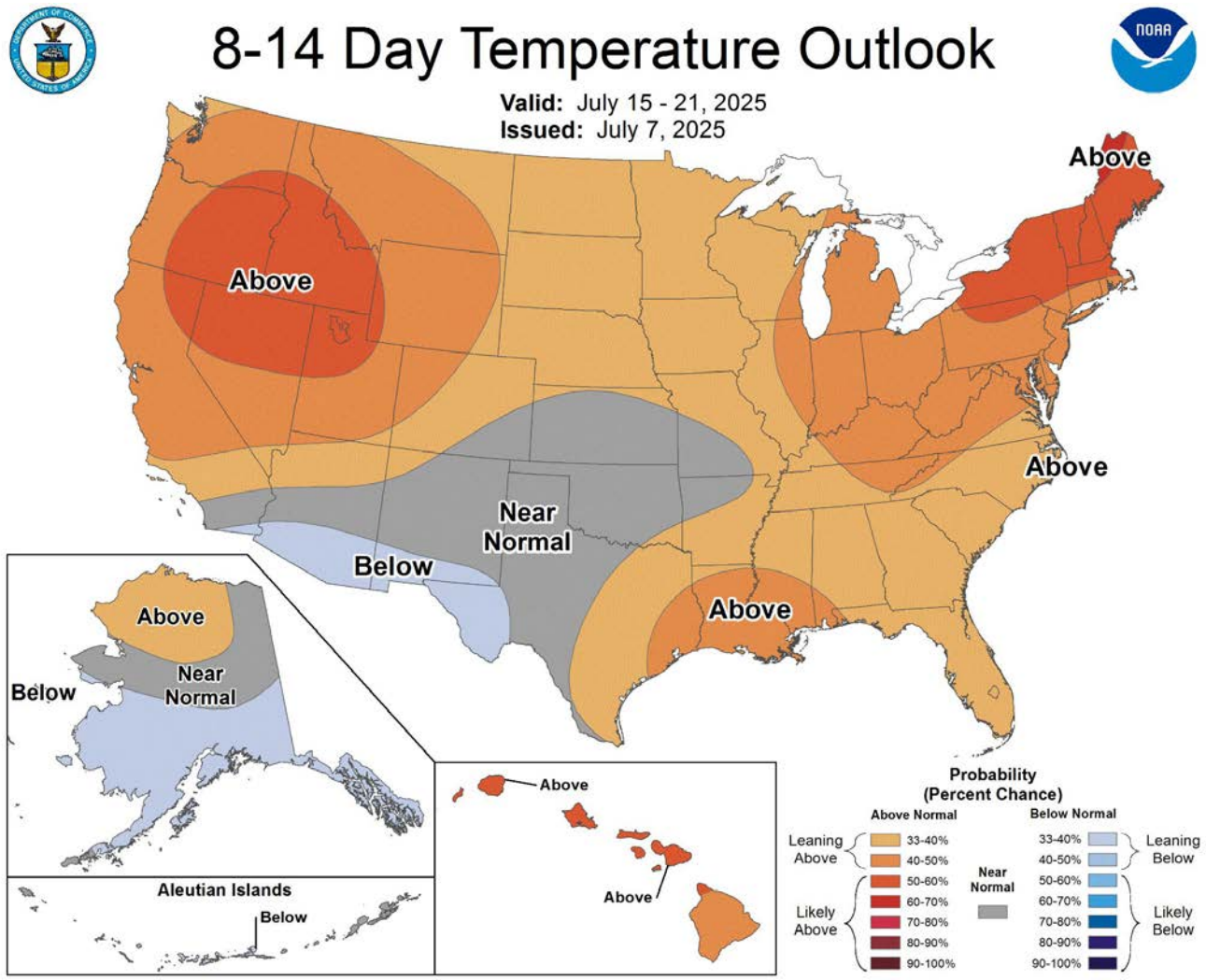
Agency - National Weather Service Weather Forecast Office
Presenter - Glen Merrill

Temperatures - Milford



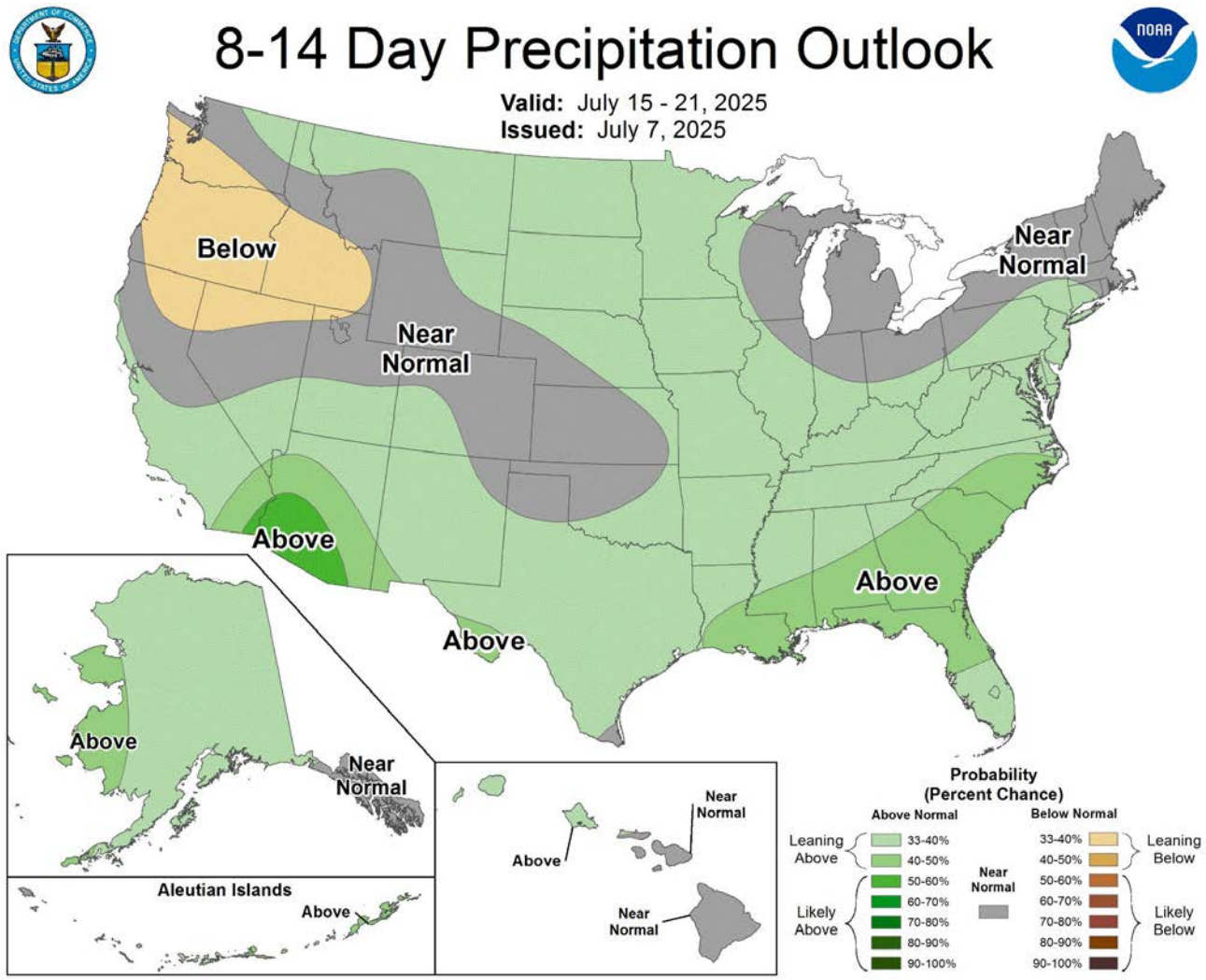
Agency - National Weather Service Weather Forecast Office
Presenter - Glen Merrill

Climate Prediction Center 8 to 14 Day Outlooks - Temperature

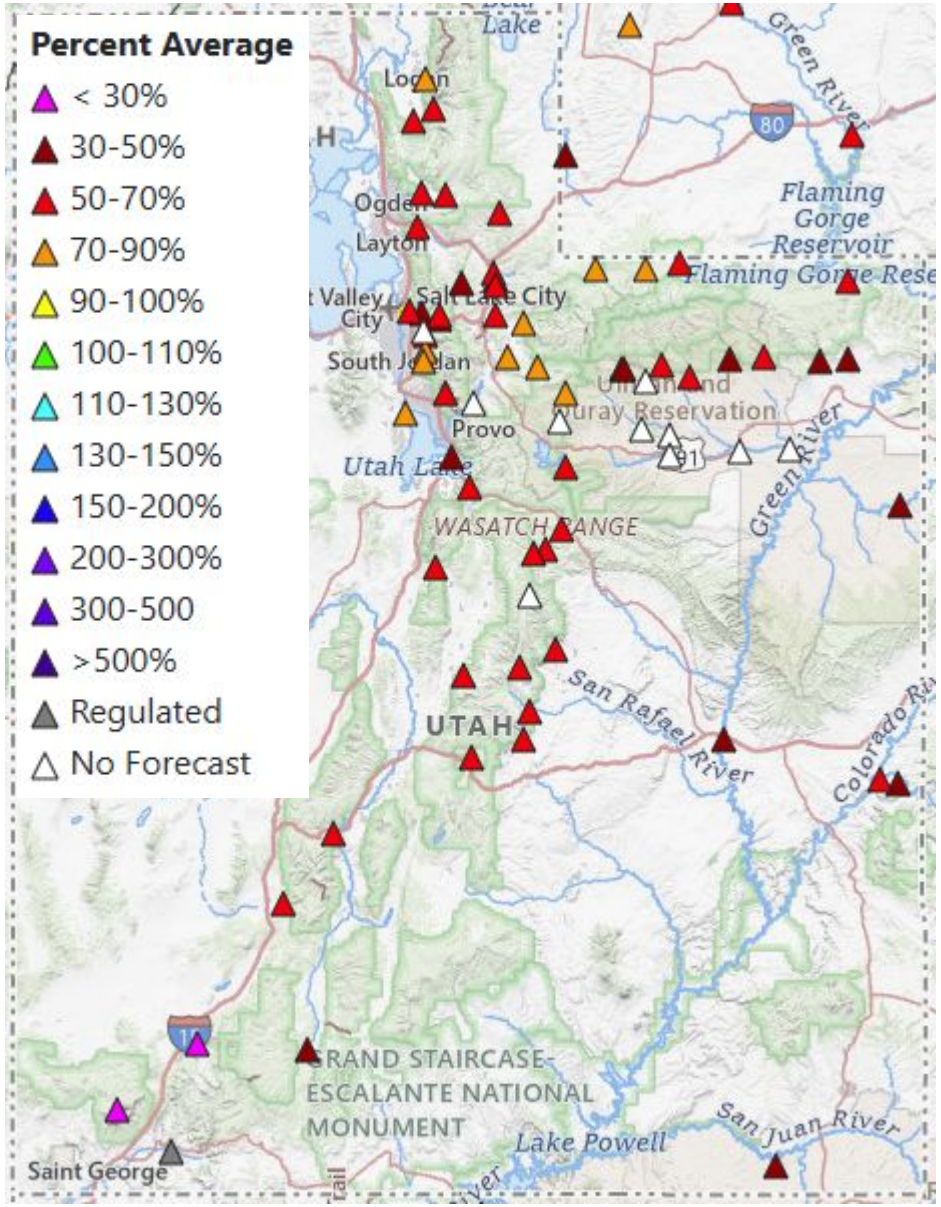


Agency - National Weather Service Weather Forecast Office
Presenter - Glen Merrill

Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



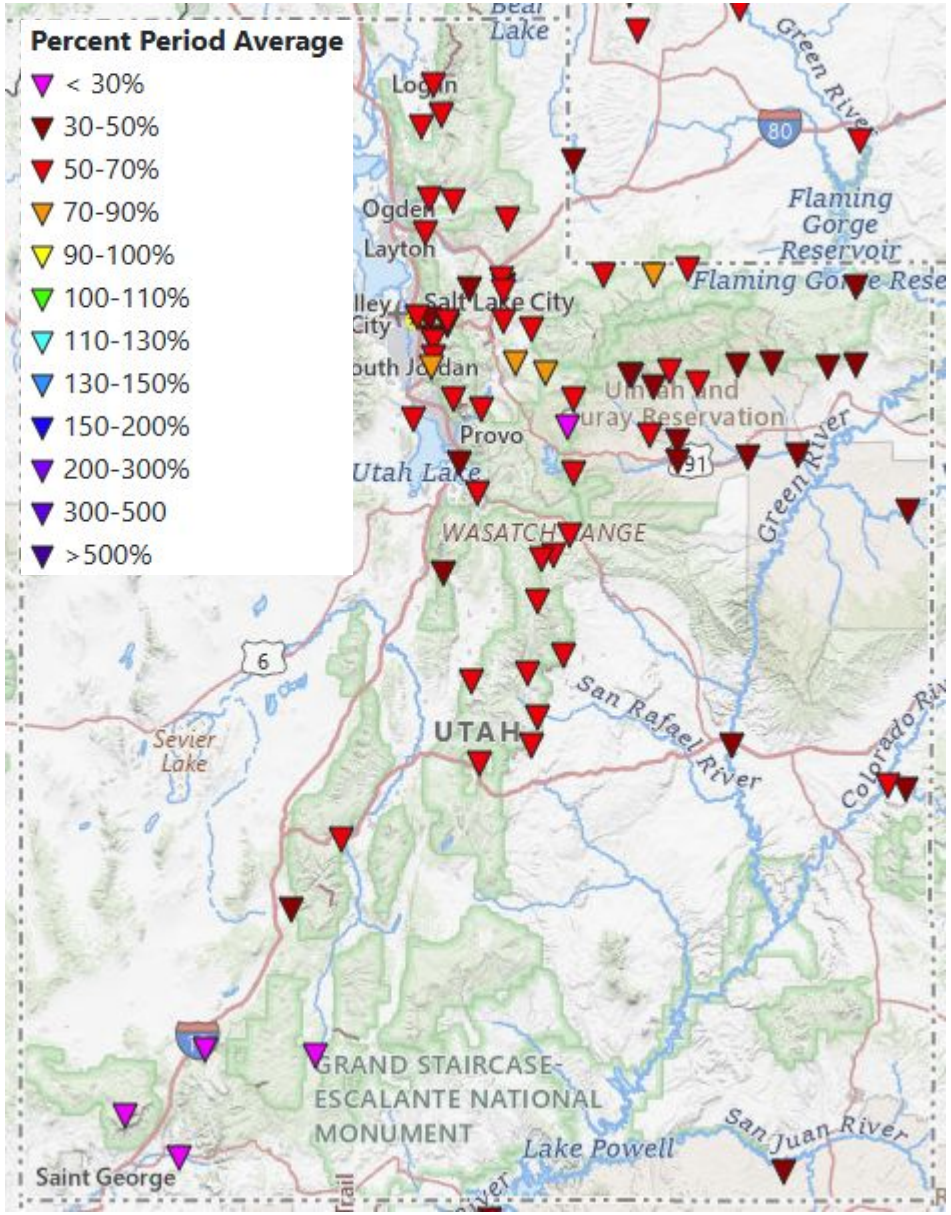
Agency - National Weather Service Weather Forecast Office
Presenter - Glen Merrill



Water supply forecasts remained well below average with continued hot and dry conditions. Forecast ranges for each basin:

Bear	49% to 76%
Weber	48% to 72%
Six Creeks	45% to 89%
Provo	37% to 86%
Sevier	29% to 69%
Virgin	21% to 33%

Agency - CBRFC
Presenter - Connor Rockey

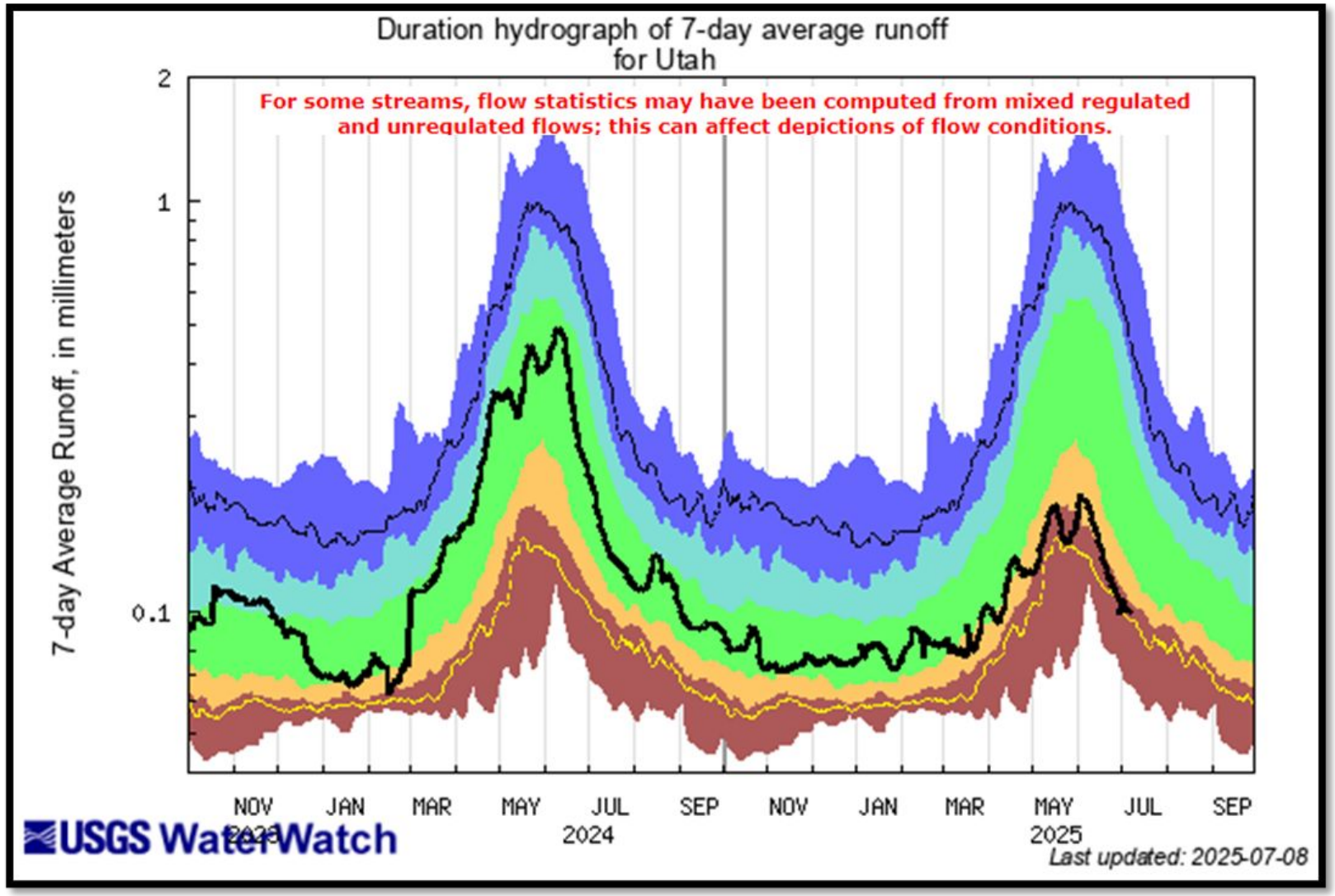


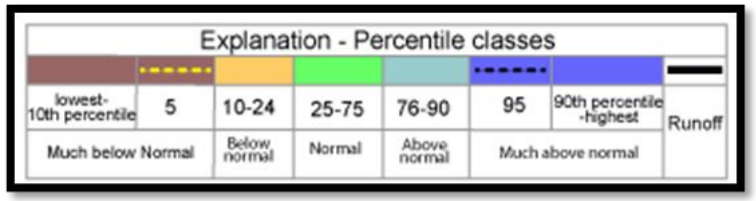
Observed accumulation to date (as of 7/8)

Well below average across the state

Agency - CBRFC
Presenter - Connor Rockey

Utah Area-Based Runoff Duration Hydrograph





- **The Runoff Duration Hydrograph is a graphical presentation of area-based runoff (the black line) calculated as a weighted average of HUC 8-runoff, plotted over the long-term statistics of runoff for each day or month of the year for each area.**

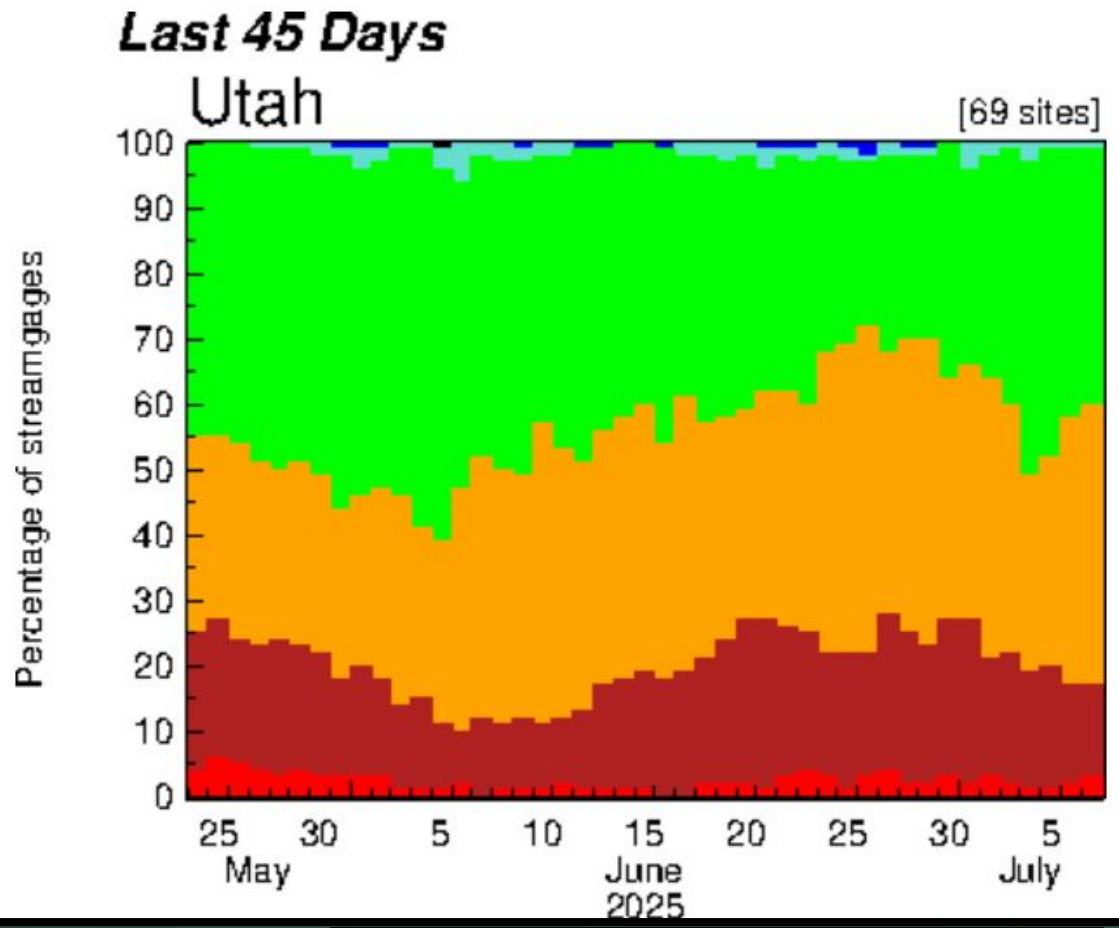
Provisional data, subject to revision

Agency - USGS Utah WSC
Presenter - Ryan Rowland

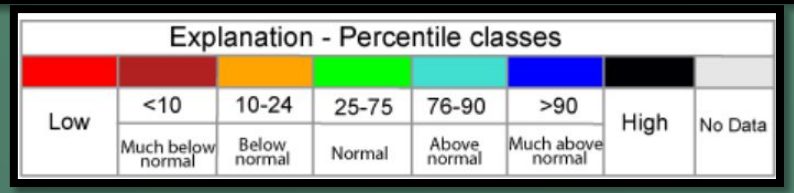
USGS science for a changing world

Time series plot of real-time streamflow compared to historical streamflow for the day of the year (Utah)

Utah or Water-Resources Regions

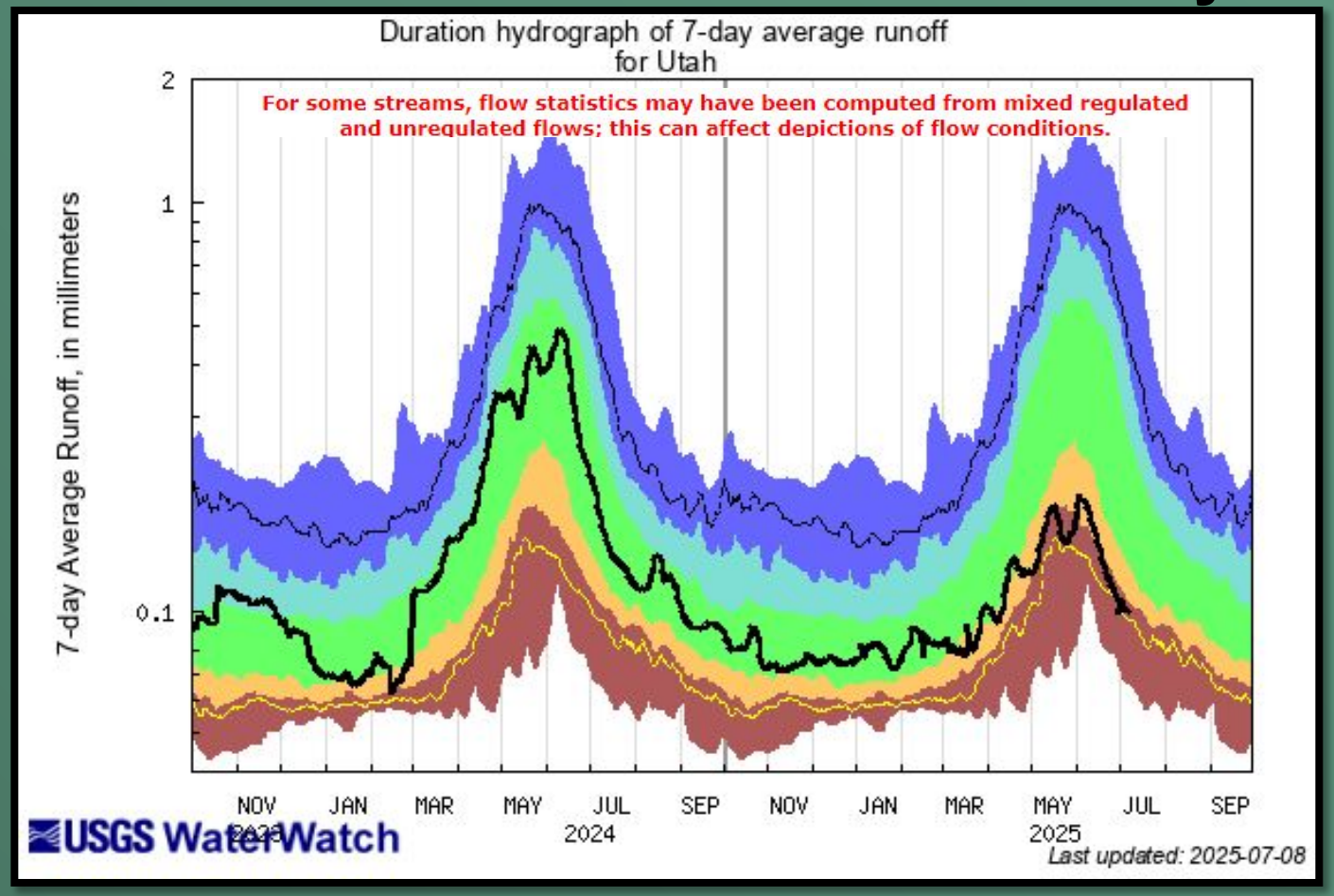


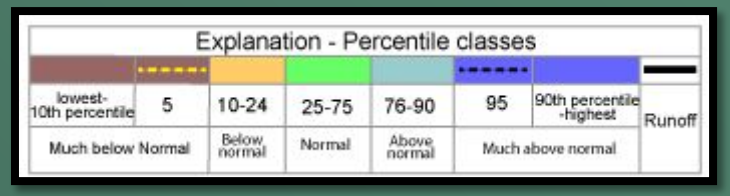
Long term sites with at least 30 years of record



Provisional data, subject to revision

Utah Area-Based Runoff Duration Hydrograph



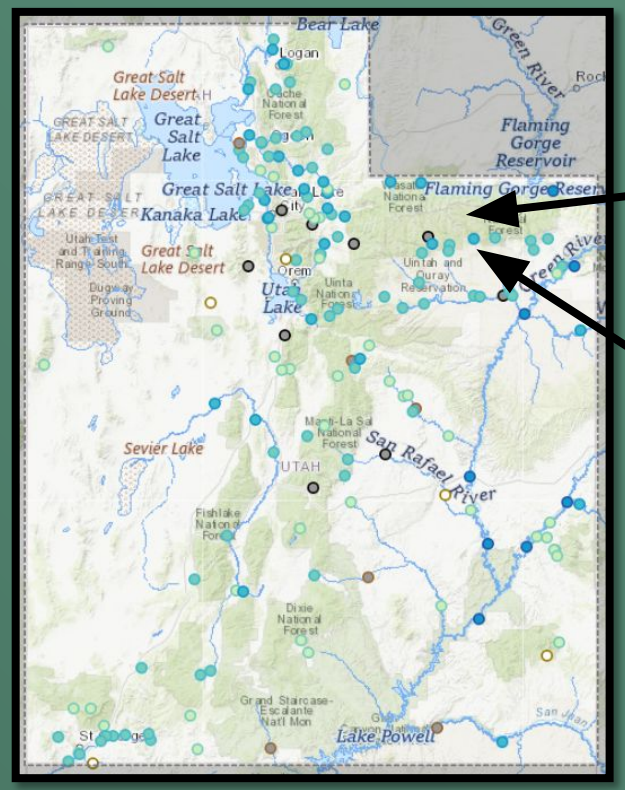


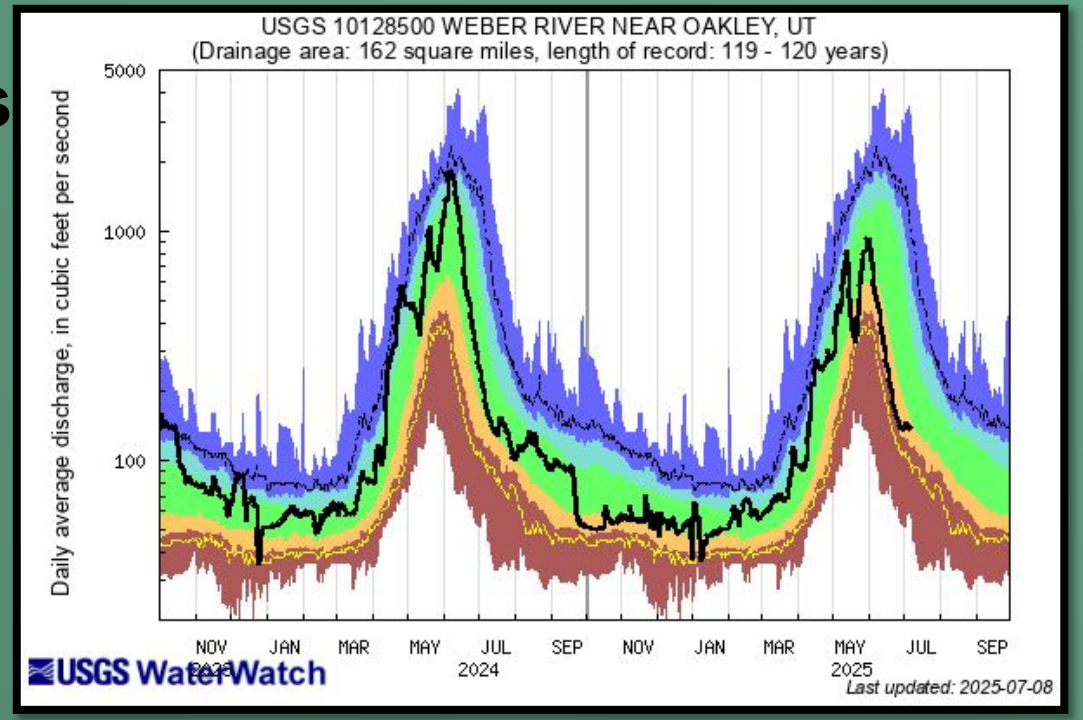
- **The Runoff Duration Hydrograph is a graphical presentation of area-based runoff (the black line) calculated as a weighted average of HUC 8-runoff, plotted over the long-term statistics of runoff for each day or month of the year for each area.**

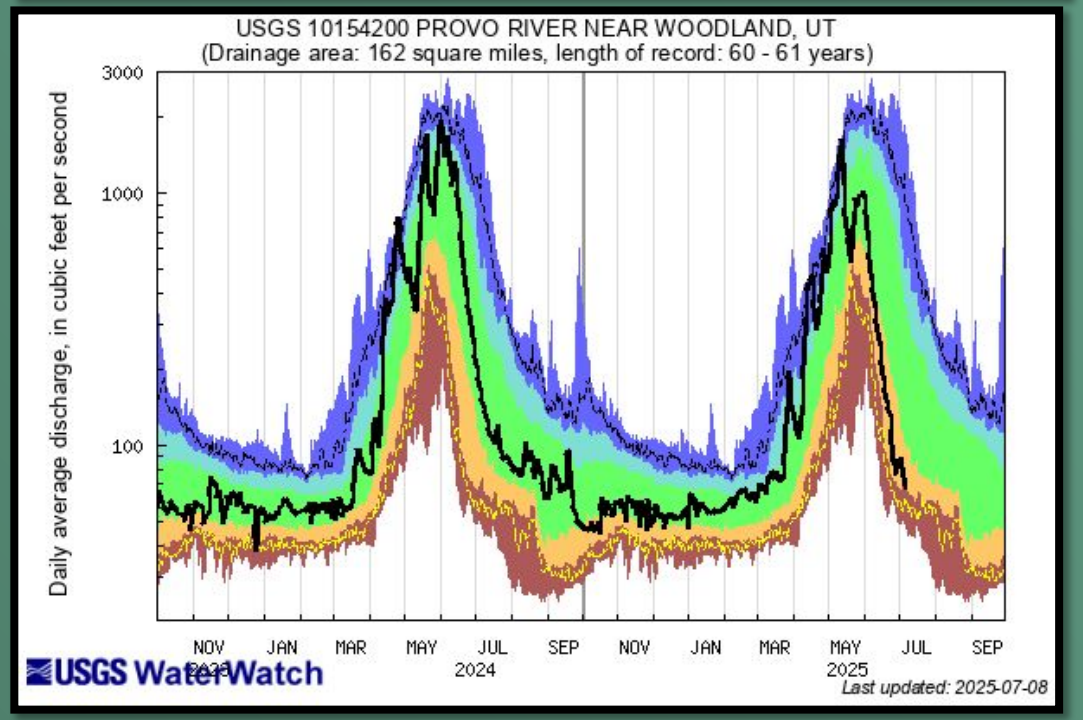
Provisional data, subject to revision

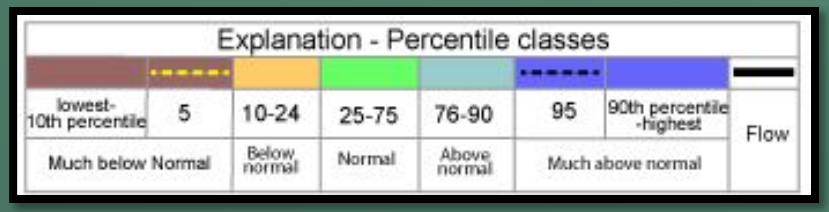
USGS

Streamflow at Selected Gages





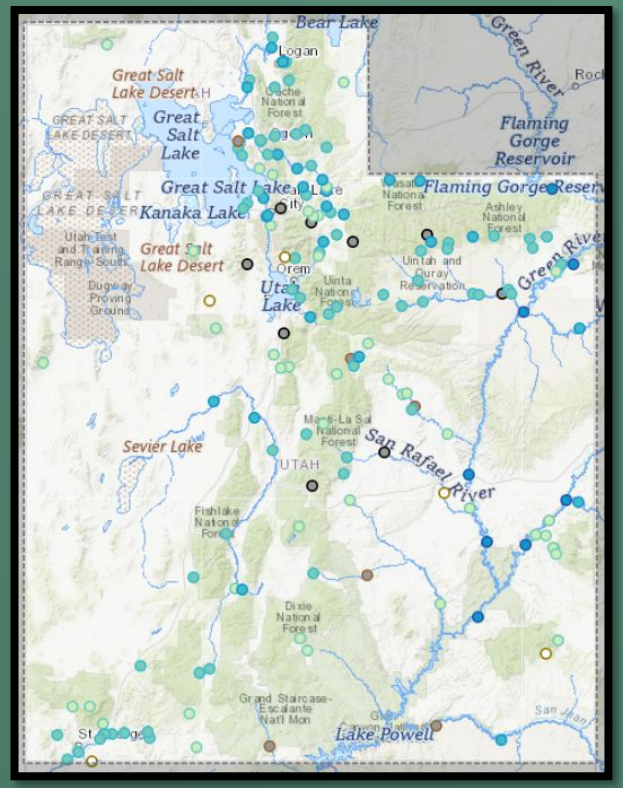


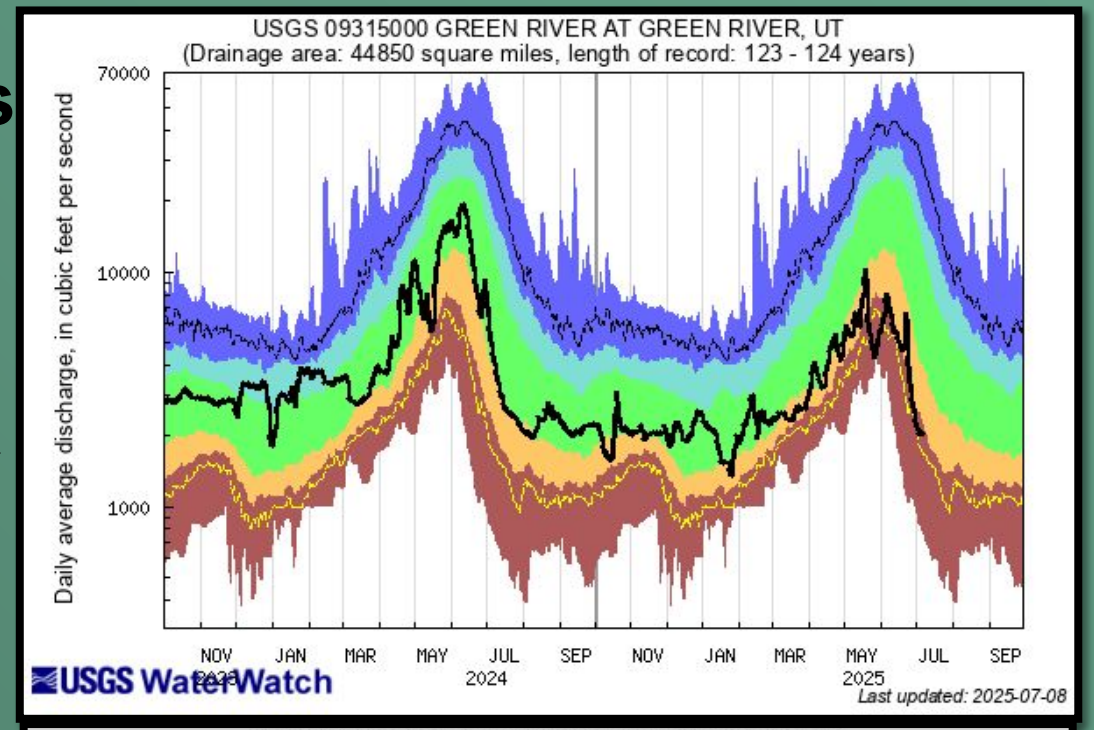


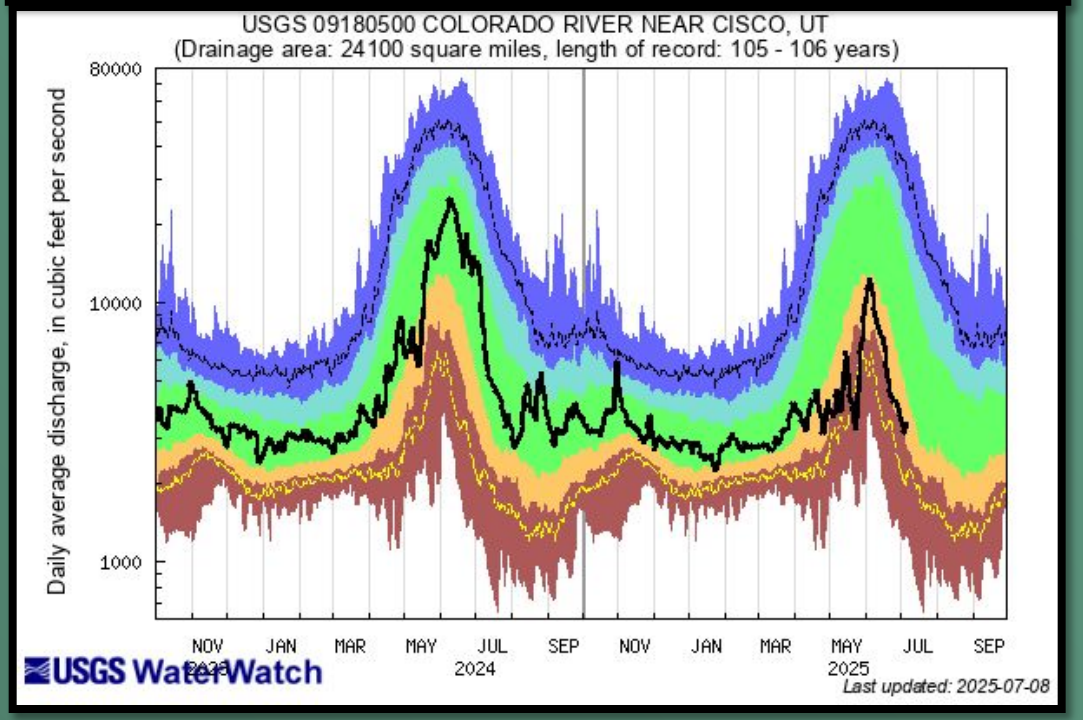
USGS

Provisional data, subject to revision

Streamflow at Selected Gages







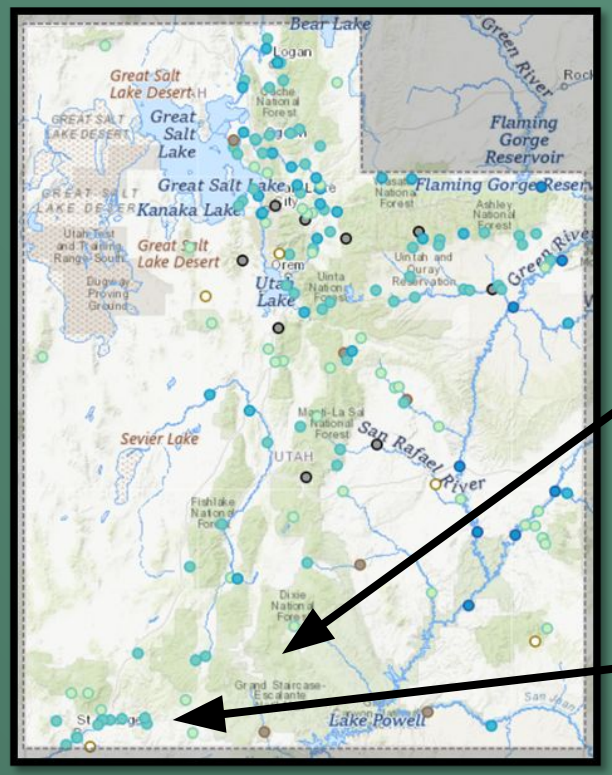
Explanation - Percentile classes

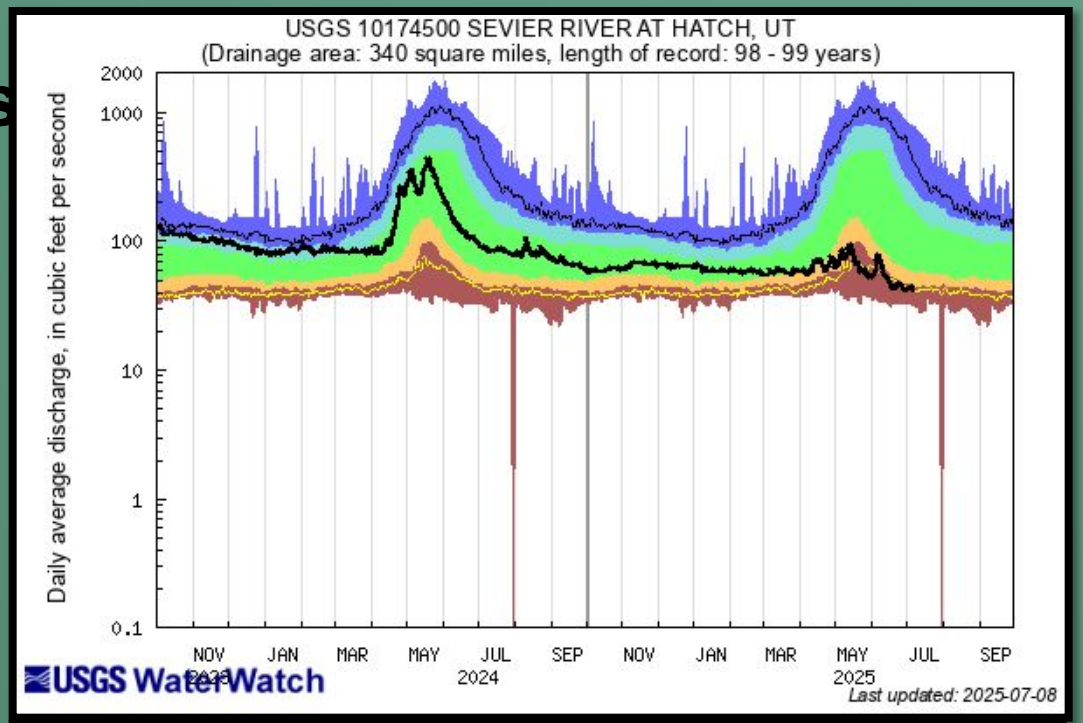
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below normal	Normal	Above normal	Much above normal		

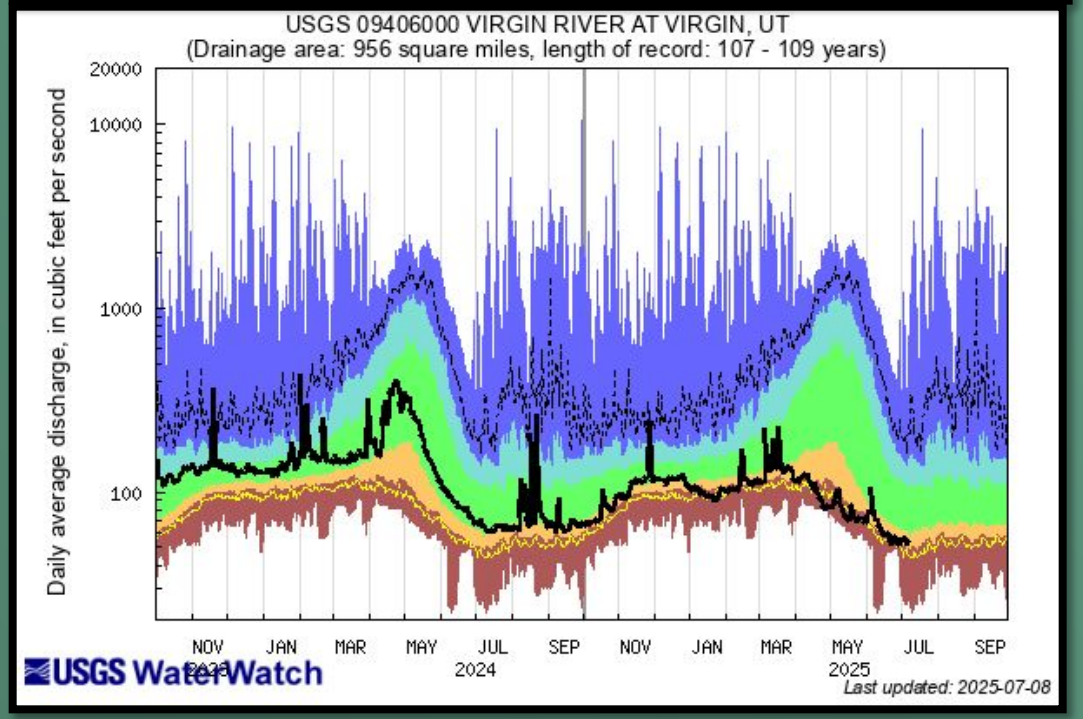
USGS

Provisional data, subject to revision

Streamflow at Selected Gages





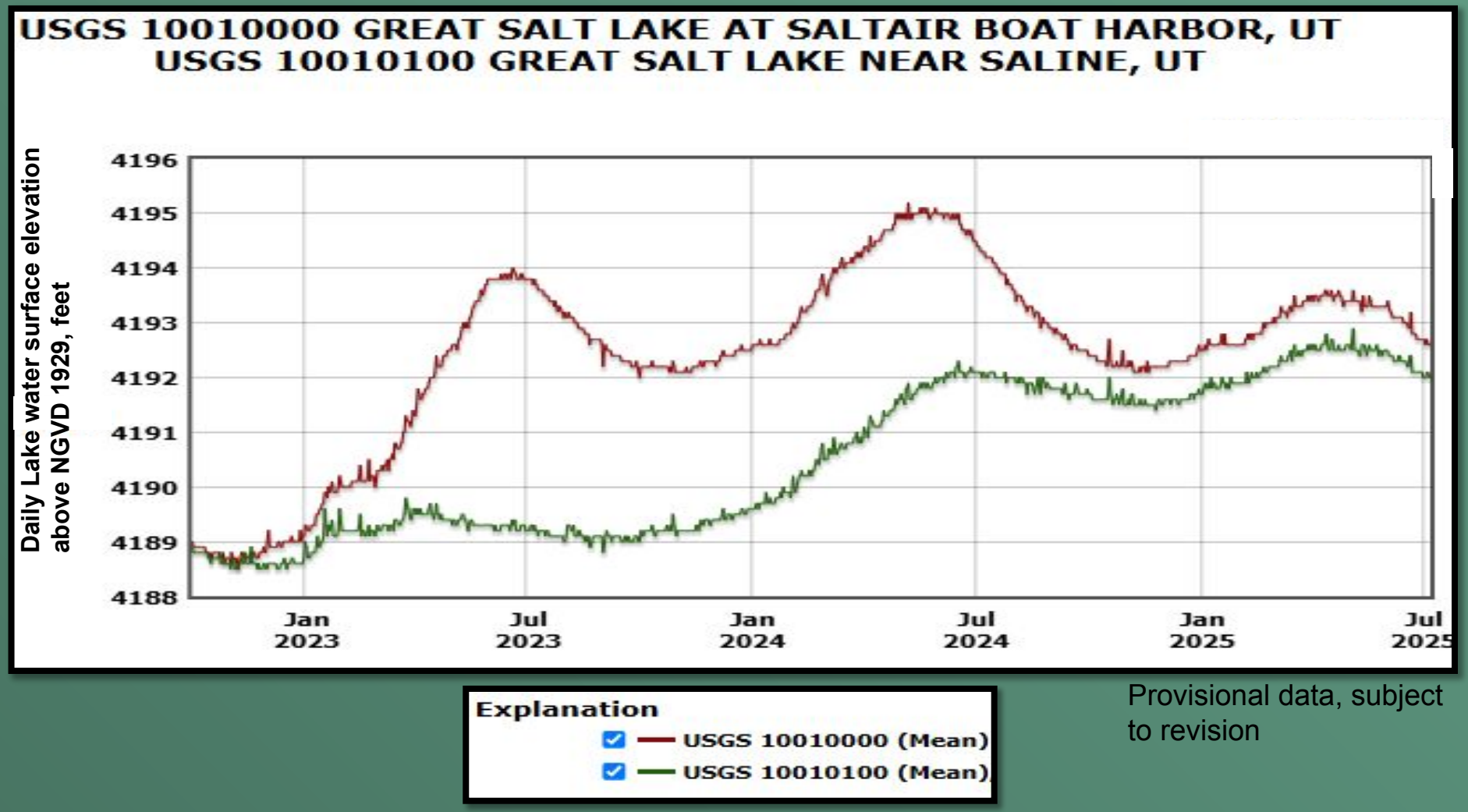


Explanation - Percentile classes							
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below normal	Normal	Above normal	Much above normal		

USGS

Provisional data, subject to revision

Great Salt Lake Water Surface Elevations



Provisional data, subject to revision

Daily Values 7/7/2025

South Arm: 4,192.6’

- **Down 1.0’ since seasonal peak Apr. 2025**

North Arm: 4,192.0’

- **Down 0.9’ since seasonal peak in May 2025**

USGS

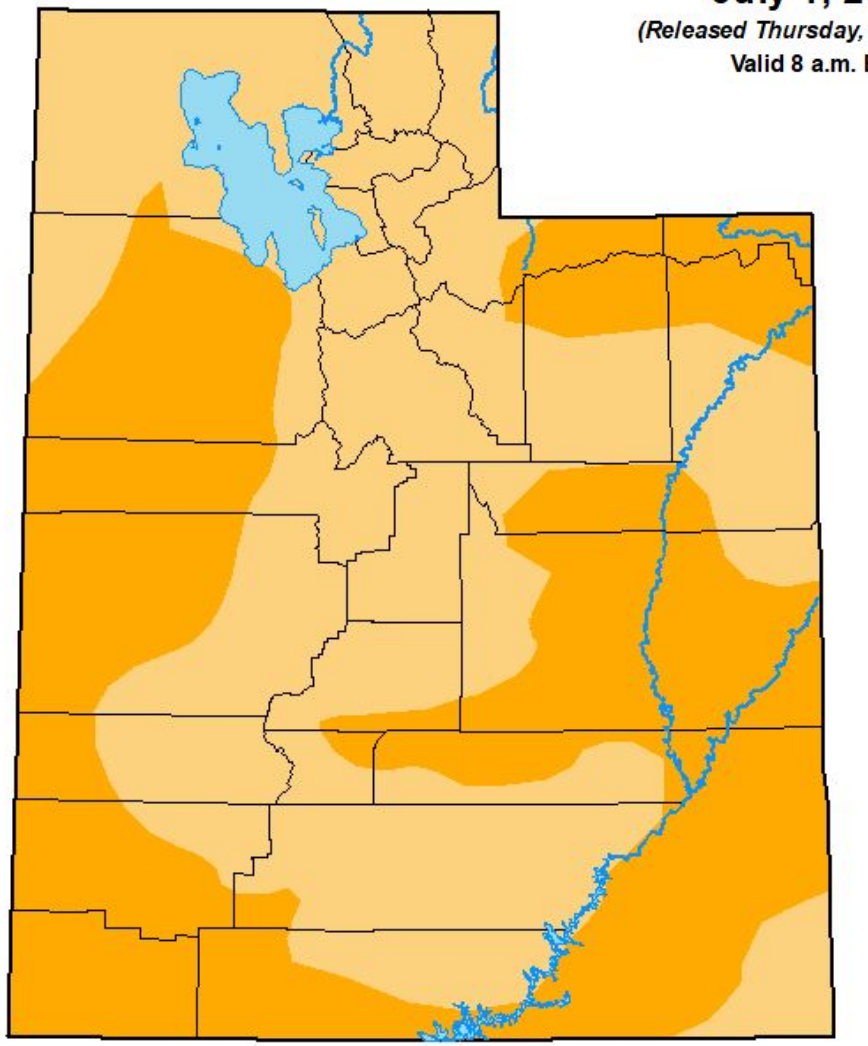
U.S. Drought Monitor

Utah

July 1, 2025

(Released Thursday, Jul. 3, 2025)

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:

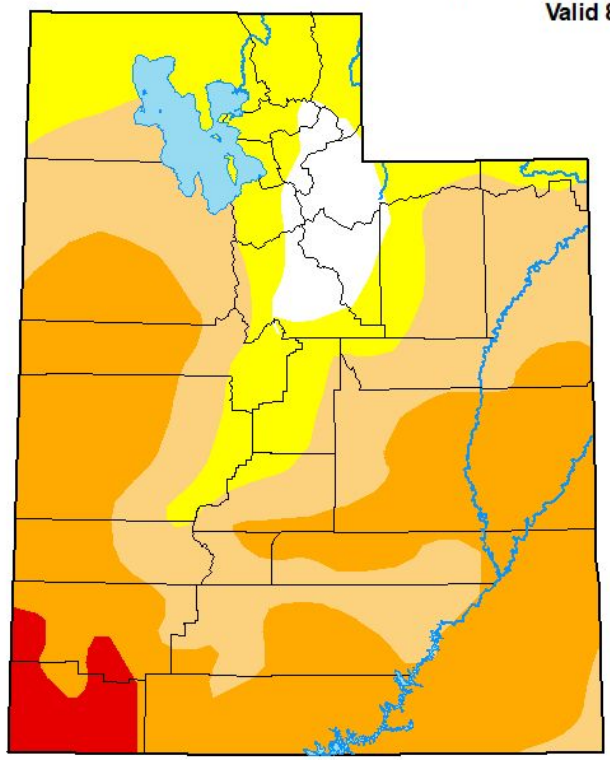
Curtis Riganti
National Drought Mitigation Center

droughtmonitor.unl.edu

June 3, 2025

(Released Thursday, Jun. 5, 2025)

Valid 8 a.m. EDT



To report on conditions between meetings:

Submit a report on CMOR drought website
Email Lhaskell@utah.gov
email drought@utah.gov