



Utah Water Conditions (drought webinar)

The meeting will begin shortly



Thank you to our contributors

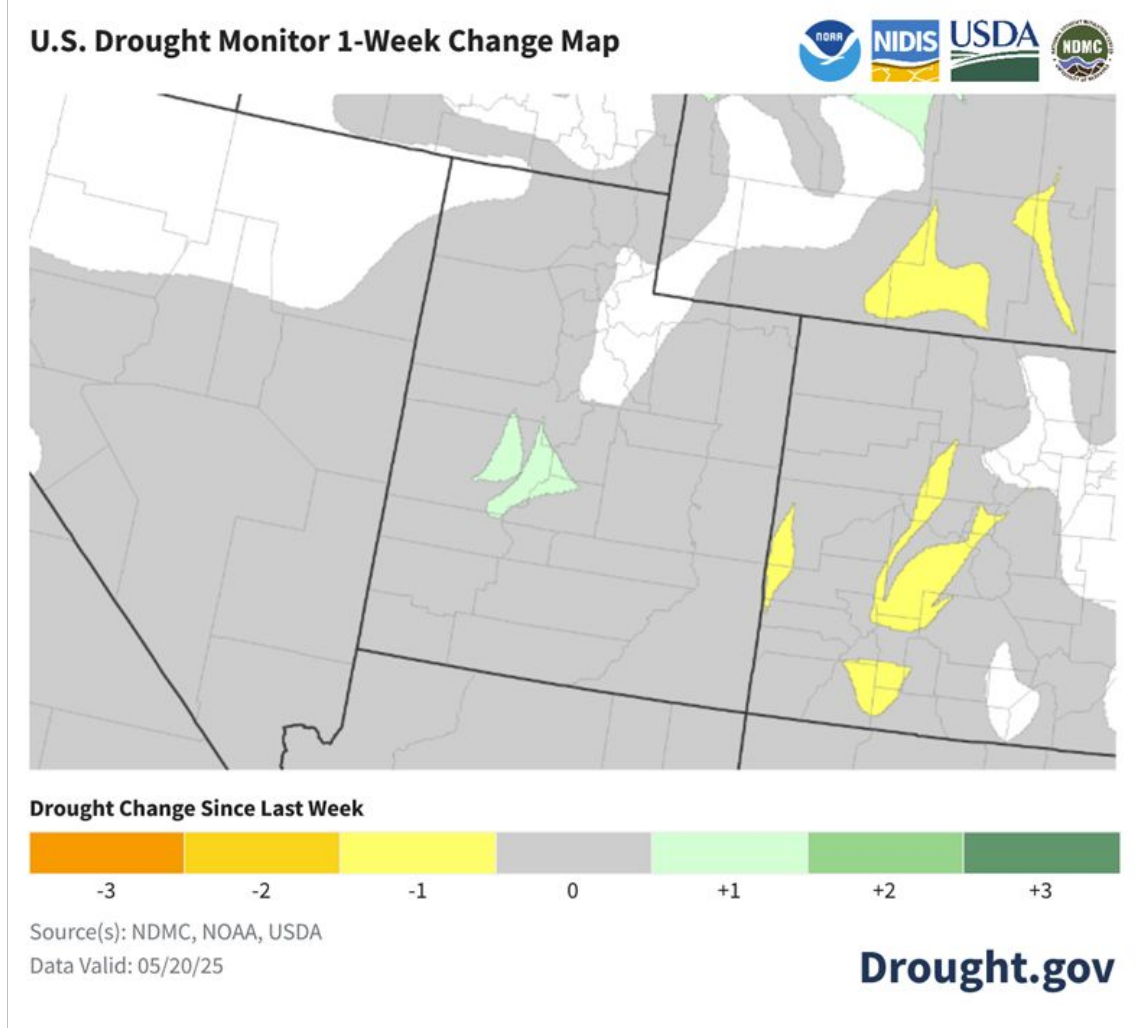
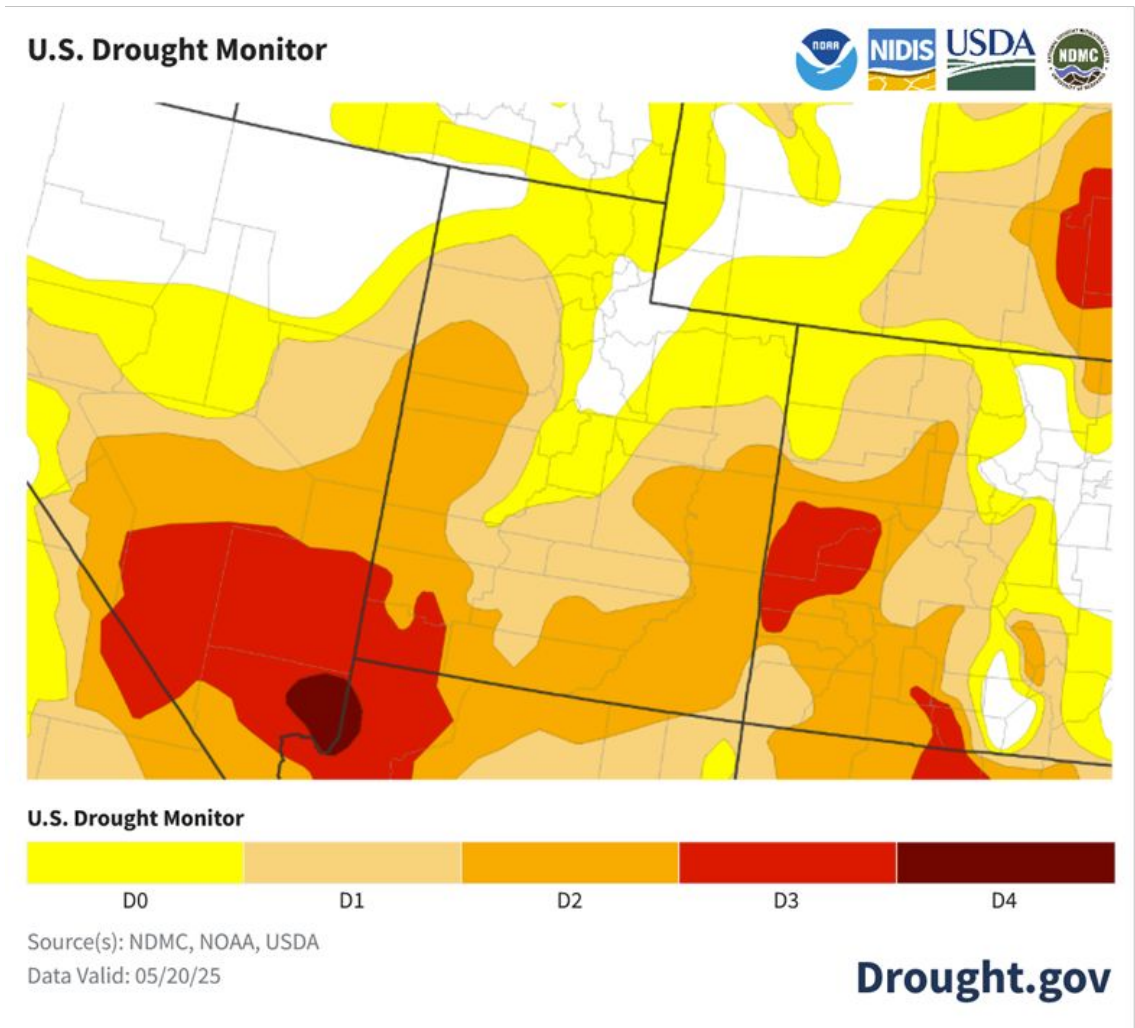




Utah Water Conditions Update

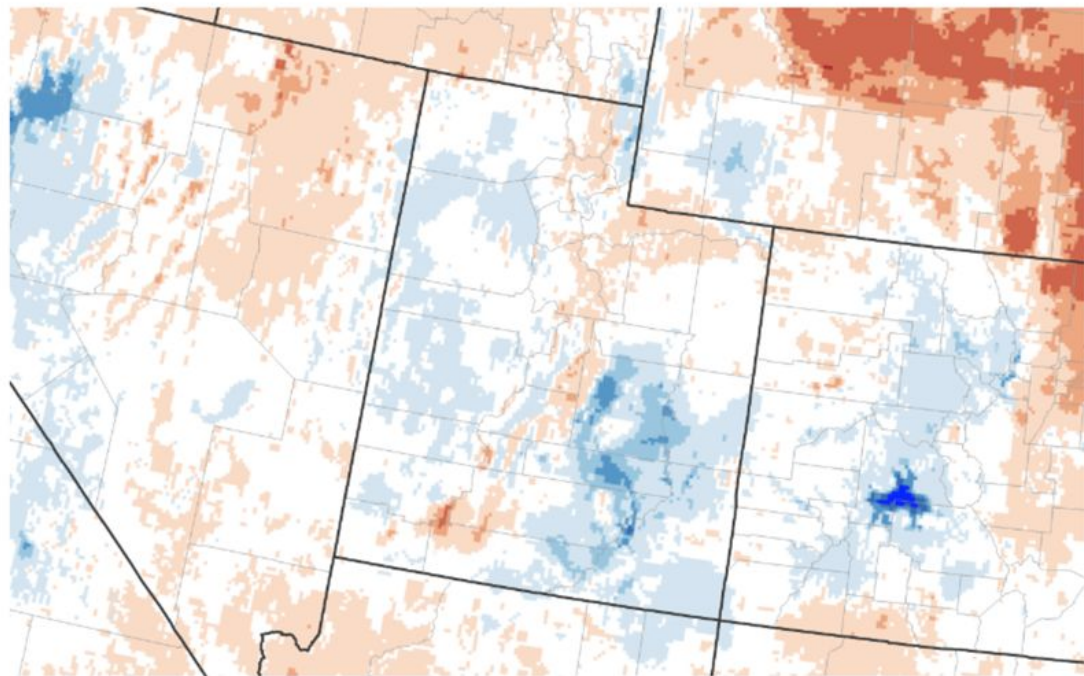
May 27, 2025

Drought Conditions and 1-Week Change Map

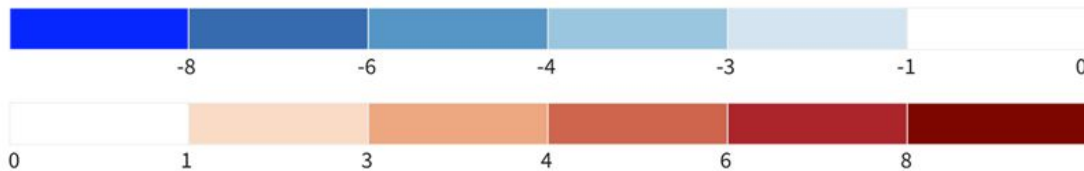


Temperature Summary

30-Day Departure from Normal Maximum Temperature (°F)



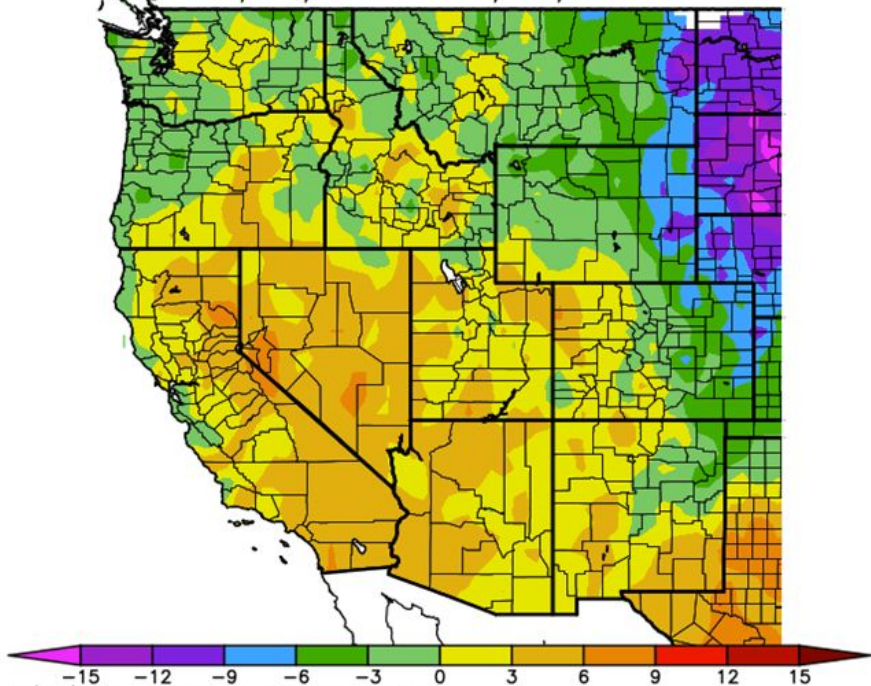
Departure from Normal Max Temperature (°F)



Source(s): UC Merced
Data Valid: 05/24/25

Drought.gov

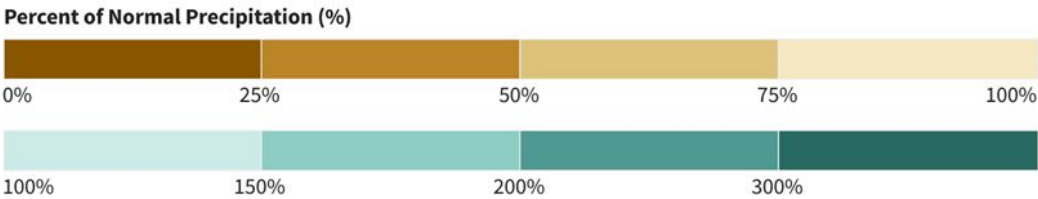
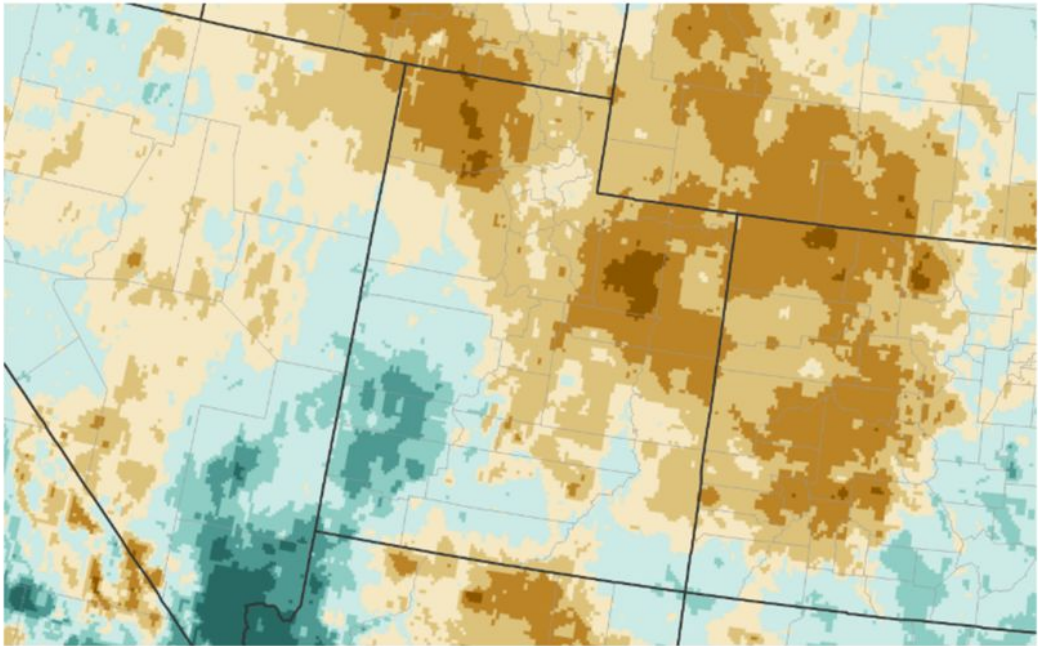
Av. Max. Temperature dep from Ave (deg F)
5/20/2025 – 5/26/2025



Generated 5/27/2025 at WRCC using provisional data.
NOAA Regional Climate Centers

Precipitation Summary

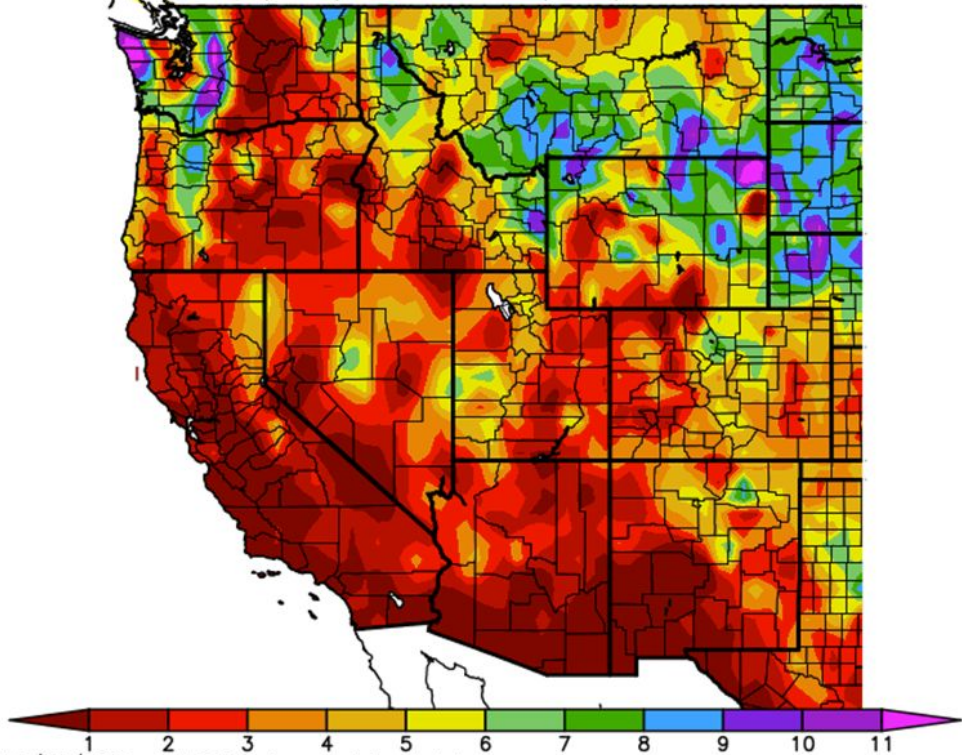
30-Day Percent of Normal Precipitation



Source(s): UC Merced
Data Valid: 05/24/25

Drought.gov

Precipitation # Days > 0.10"
4/27/2025 – 5/26/2025

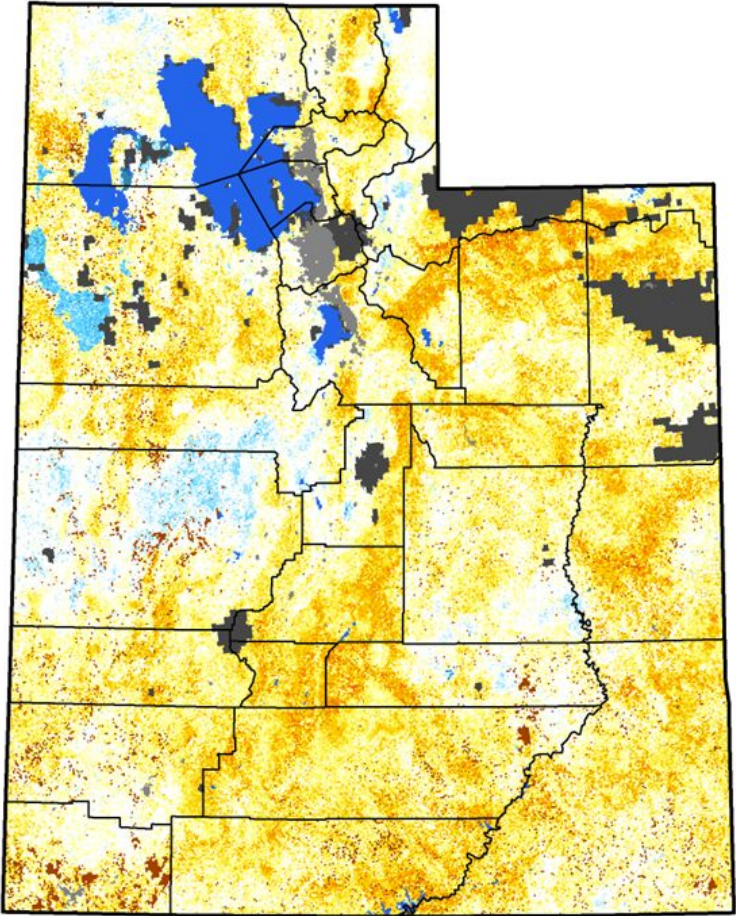


Generated 5/27/2025 at WRCC using provisional data.
AA Regional Climate Centers

Short-term Drought Pressure

Quick Drought Response Index Utah

May 25, 2025
(Week 21)



Conditions Relative to
4-Week Historical Average

- Wetter
- Near Average
- Drier
- Out of Season
- Urban
- No Data
- Water

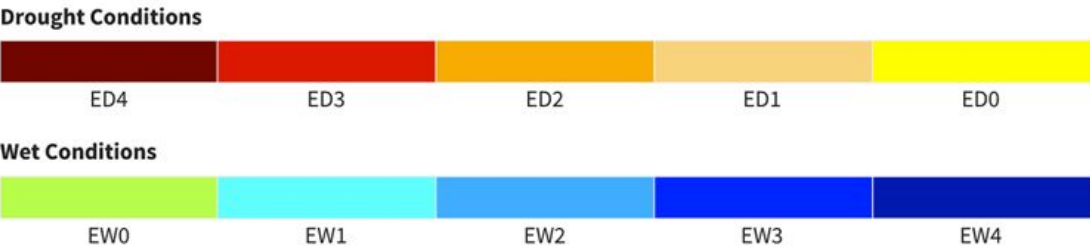
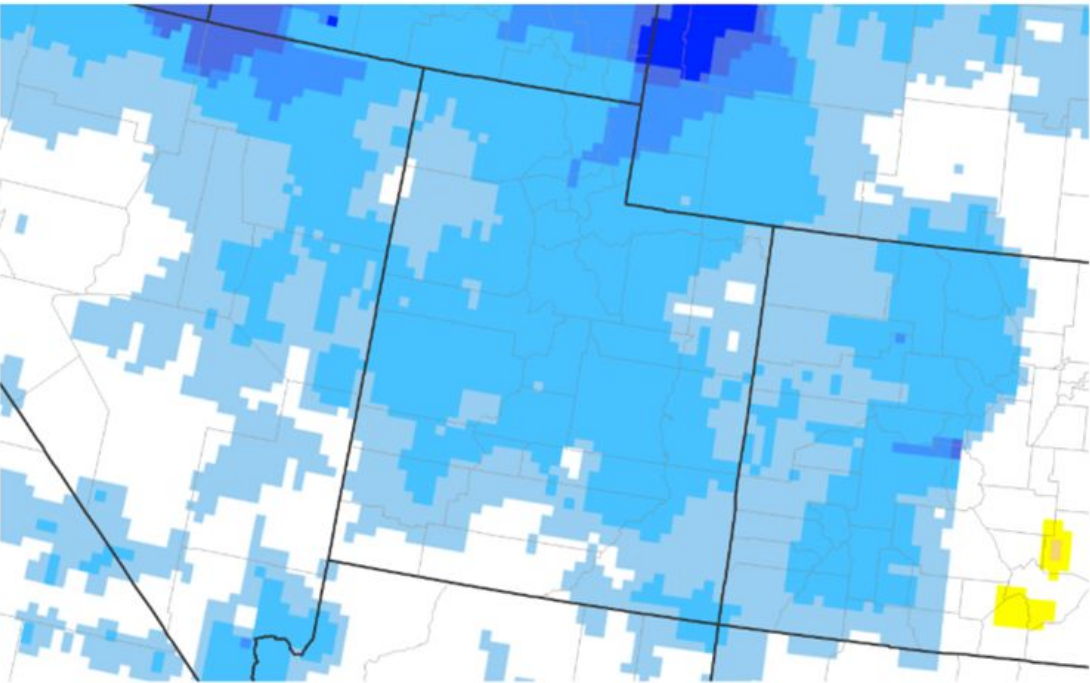


CALMIT
University of Nebraska - Lincoln
Center for Advanced Land Management Information Technologies



Evaporative Demand Summary

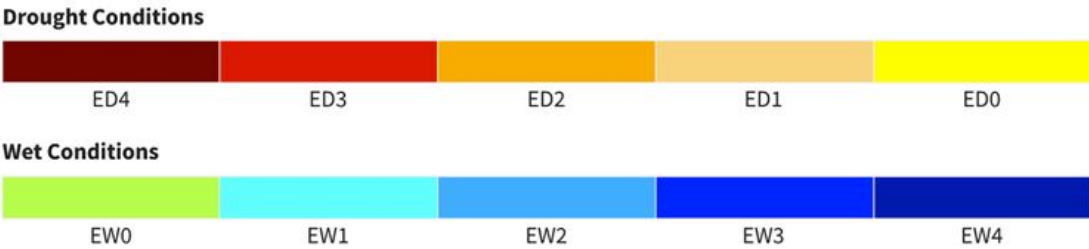
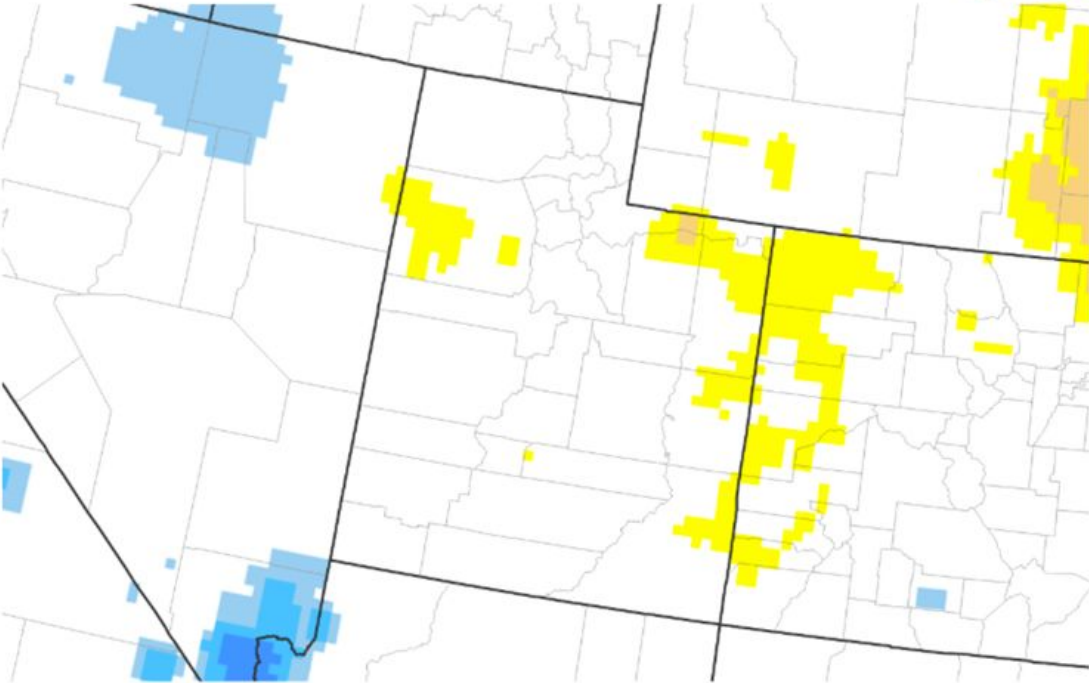
Evaporative Demand Drought Index (EDDI): 1 Week



Source(s): NOAA Physical Sciences Laboratory
Data Valid: 05/21/25

Drought.gov

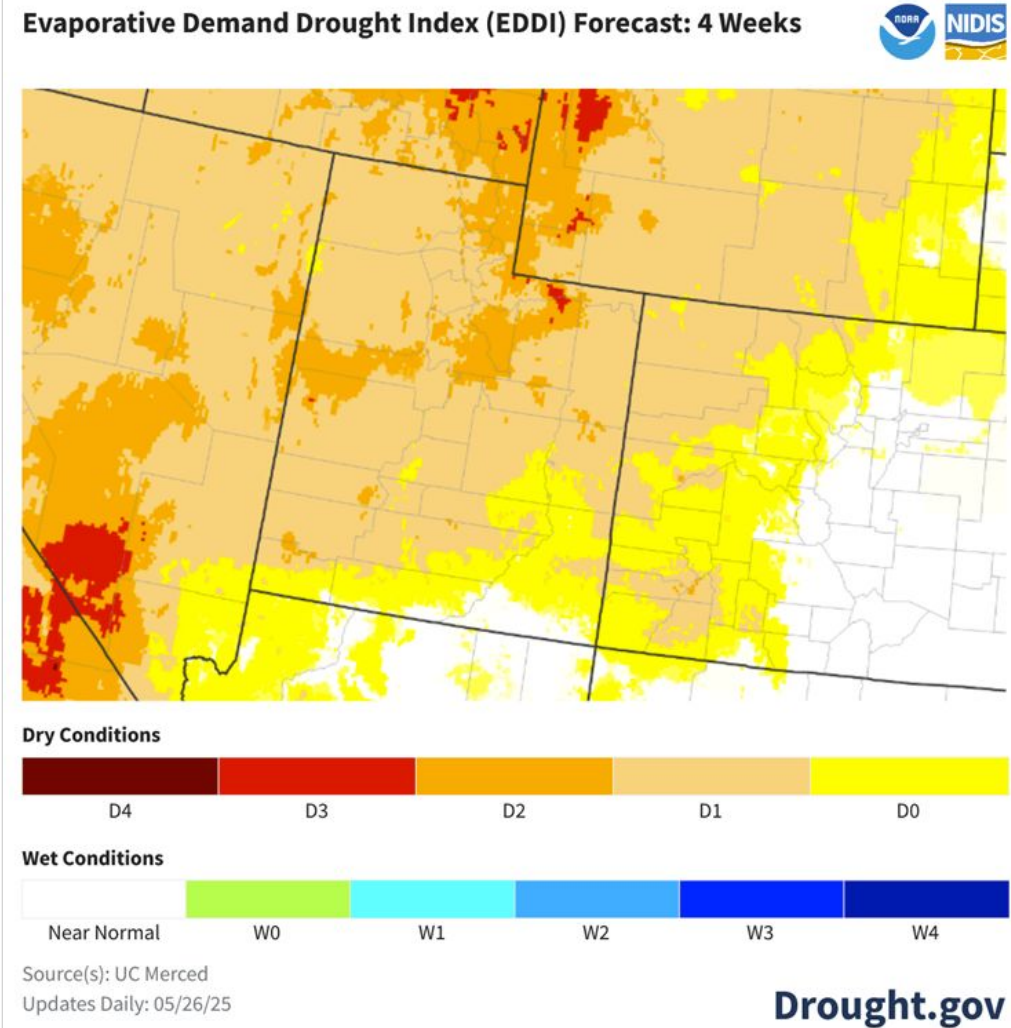
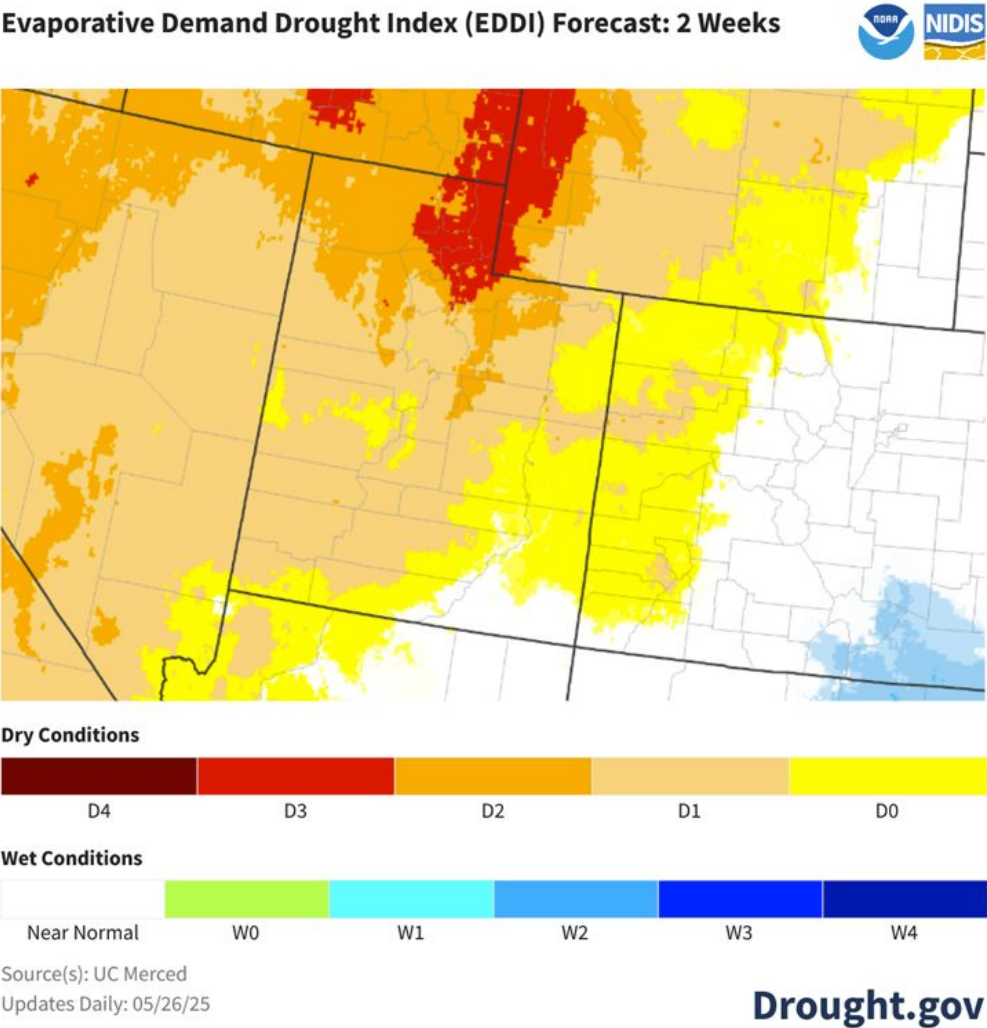
Evaporative Demand Drought Index (EDDI): 4 Week



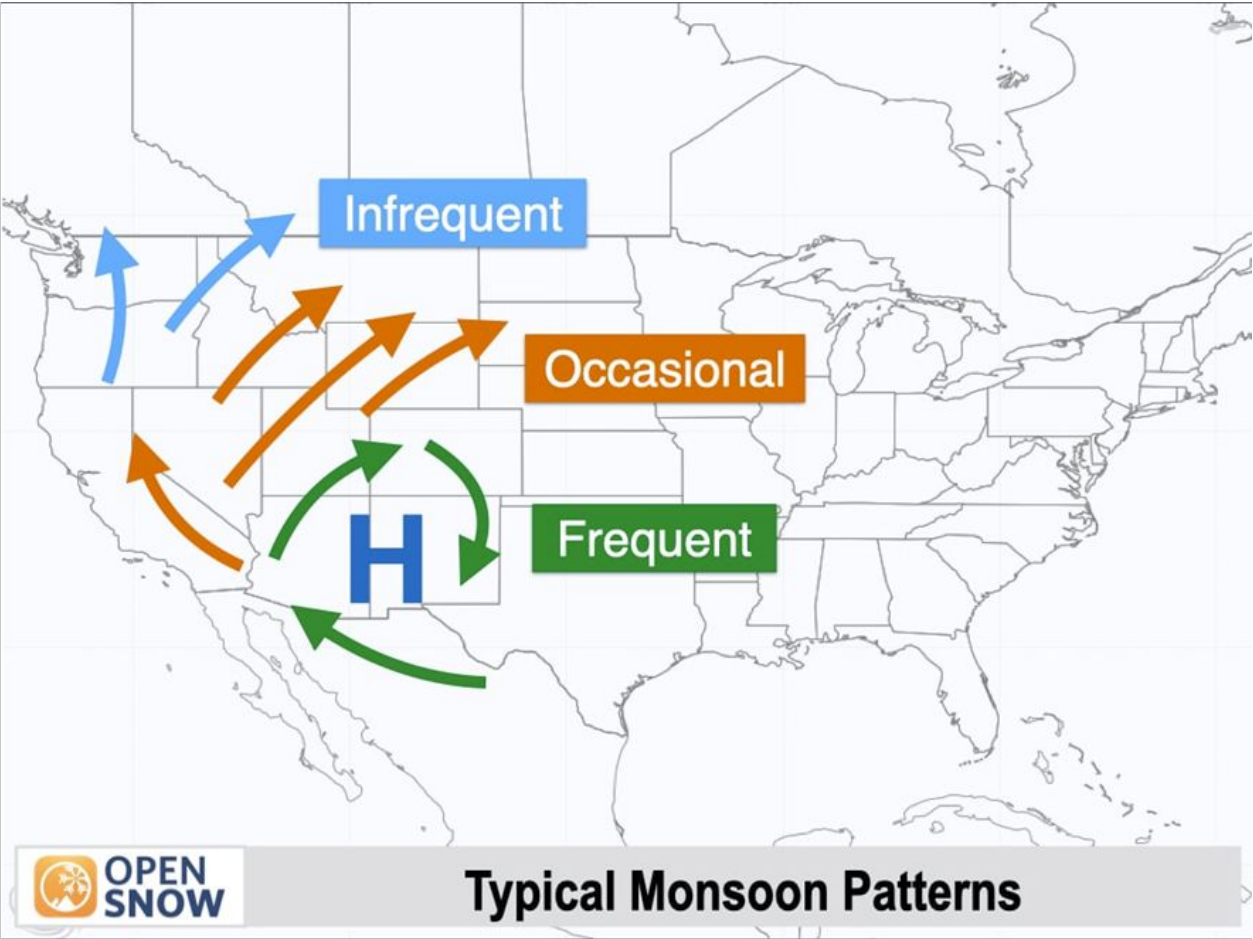
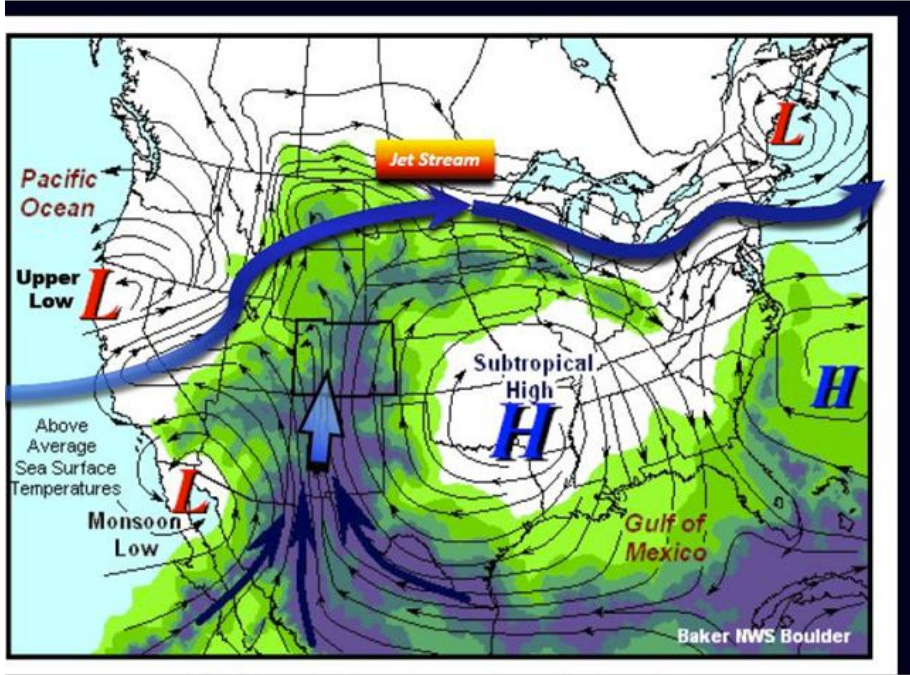
Source(s): NOAA Physical Sciences Laboratory
Data Valid: 05/21/25

Drought.gov

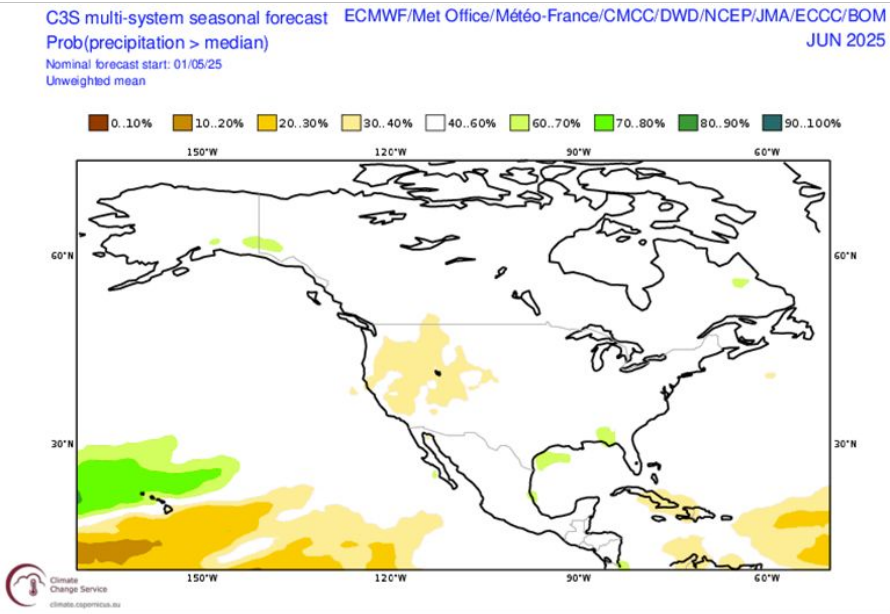
Evaporative Demand Outlook



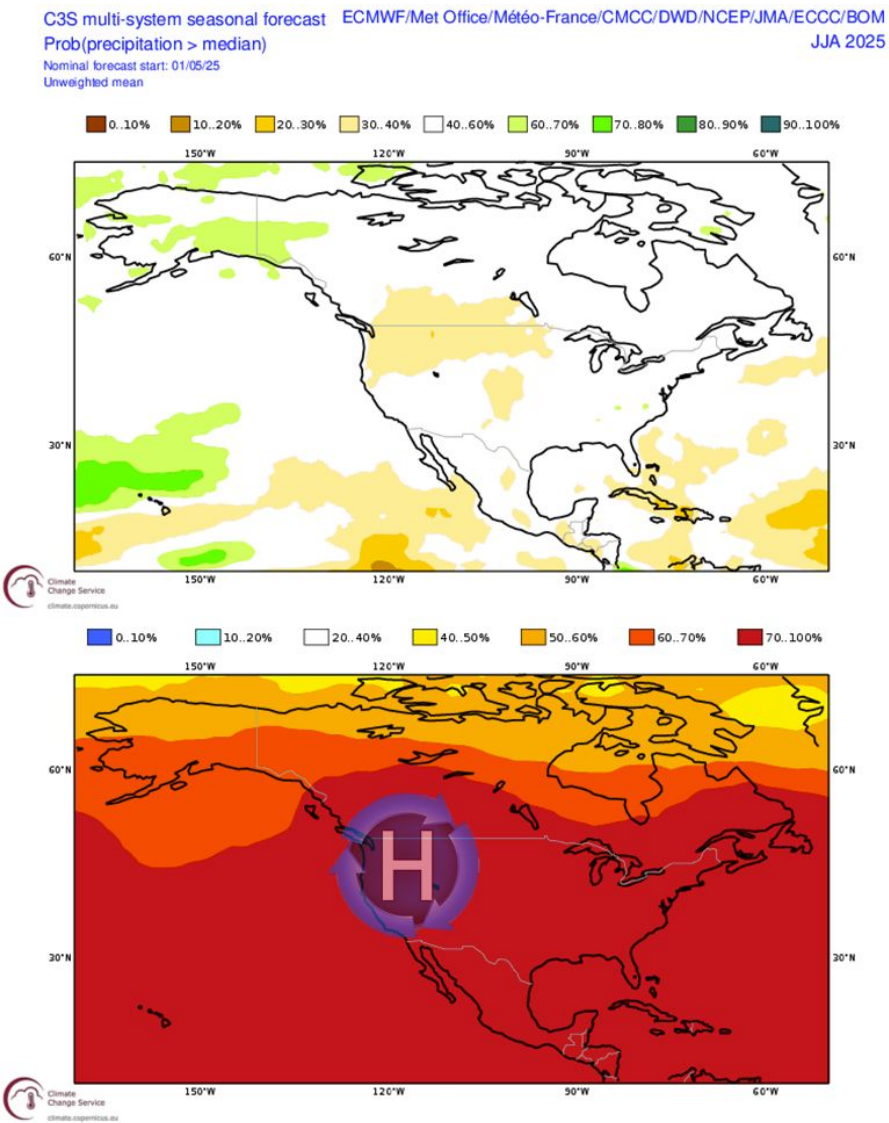
Monsoon Outlook: A look at the role of the upper-level high pressure



Global Seasonal Ensemble Outlooks



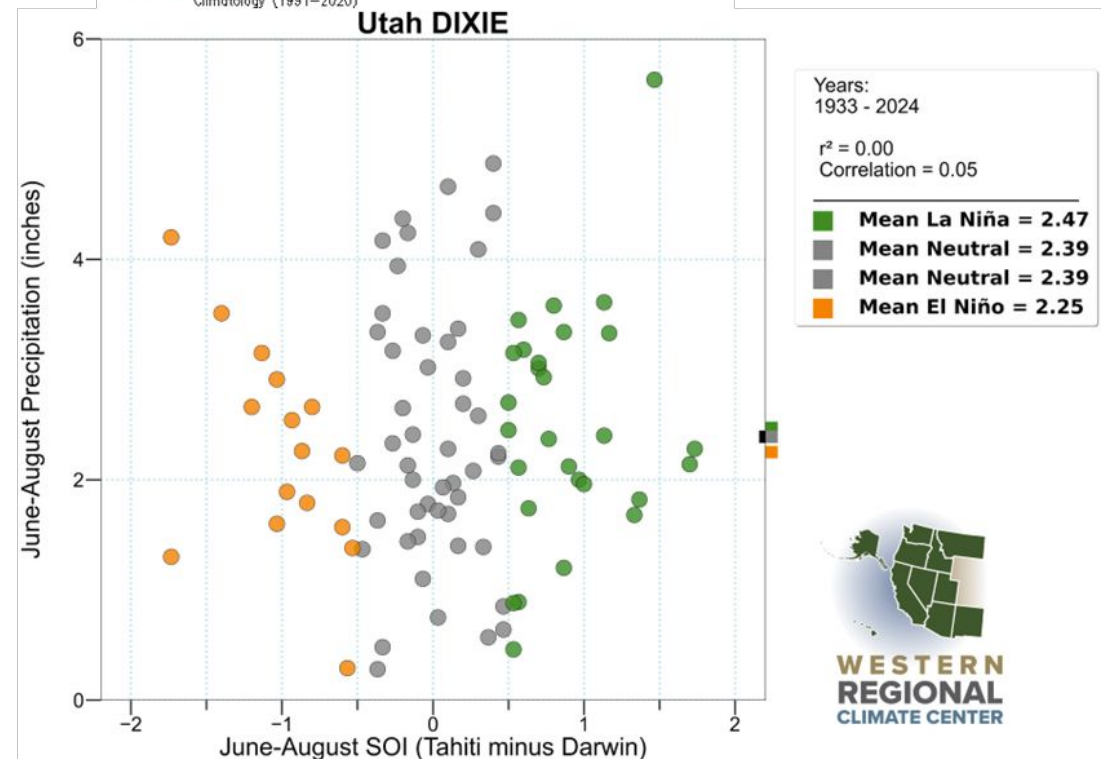
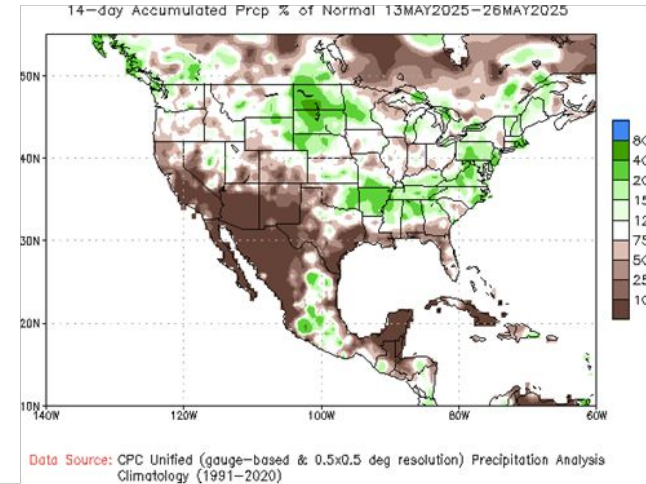
Models continue to place the West under broad high pressure. The northern and western extent is potential cause for concern for Utah’s moisture transport, but much uncertainty of summer event-scale weather patterns vs the seasonal pattern exists.



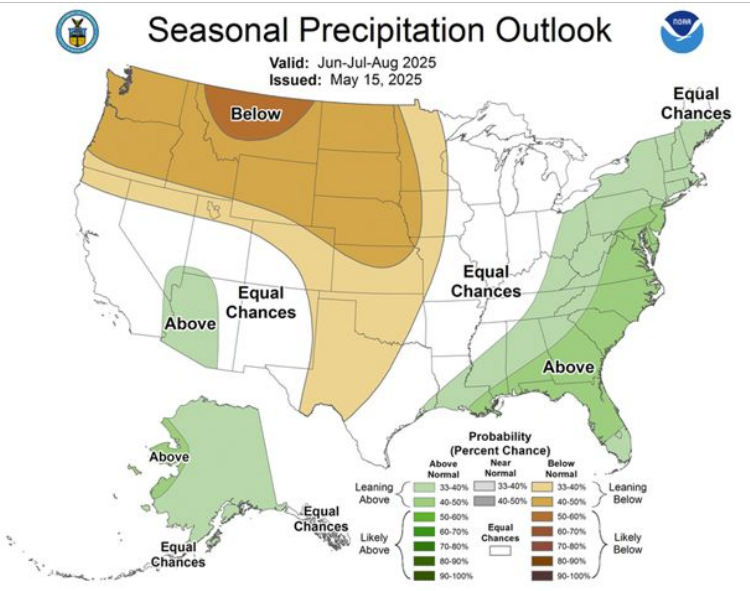
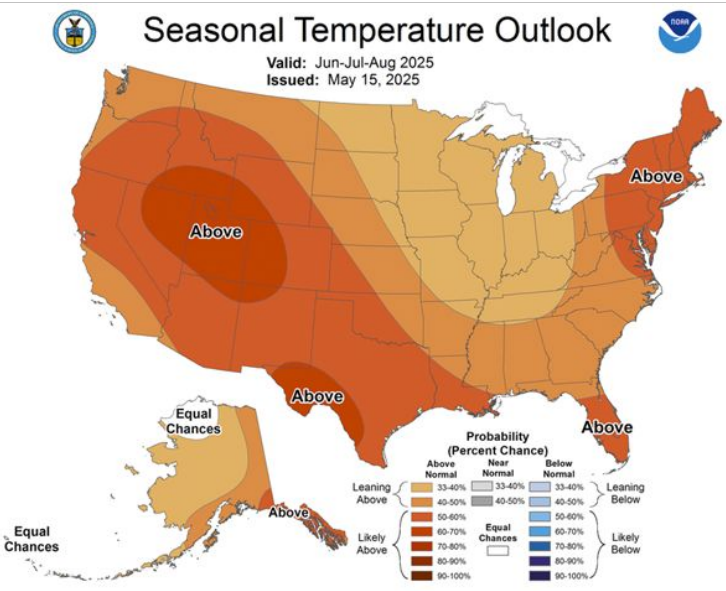
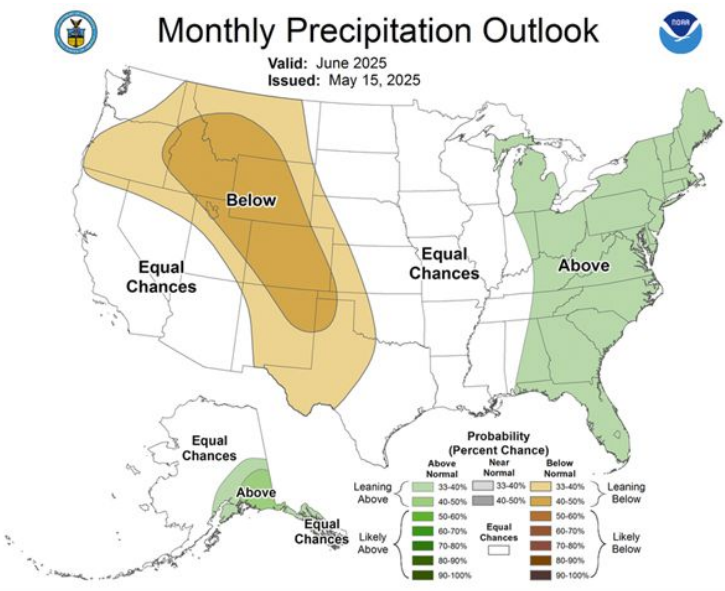
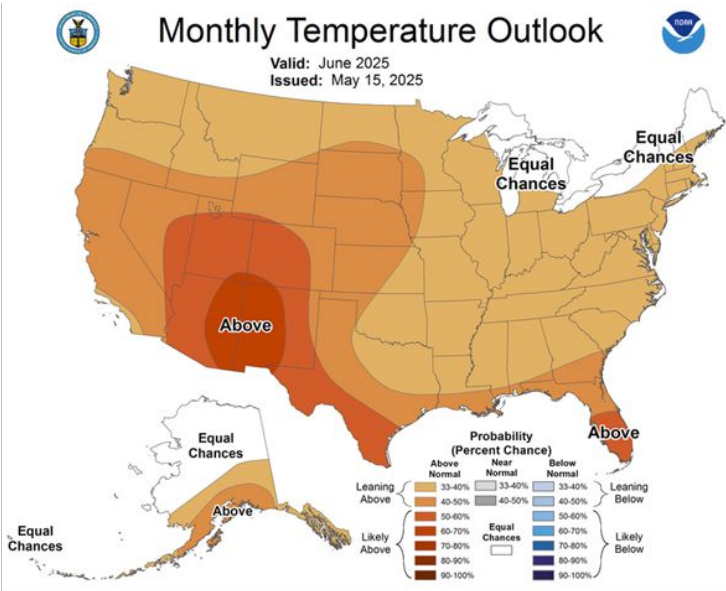
Global Seasonal Ensemble Outlooks

Considerations for Monsoon outlook:

1. Dry soils in the region will generally allow early onset; -> potential for longer season and more daily chances for monsoon humidity to move into Utah
2. ENSO Neutral conditions expected this summer, but no relationship even in southern Utah!
3. Tropical oscillations (MJO) not presently expected to influence onset.
4. Cool start to eastern Pacific SST's can pump the brakes on large-scale ocean evaporation; could limit early-intensity.

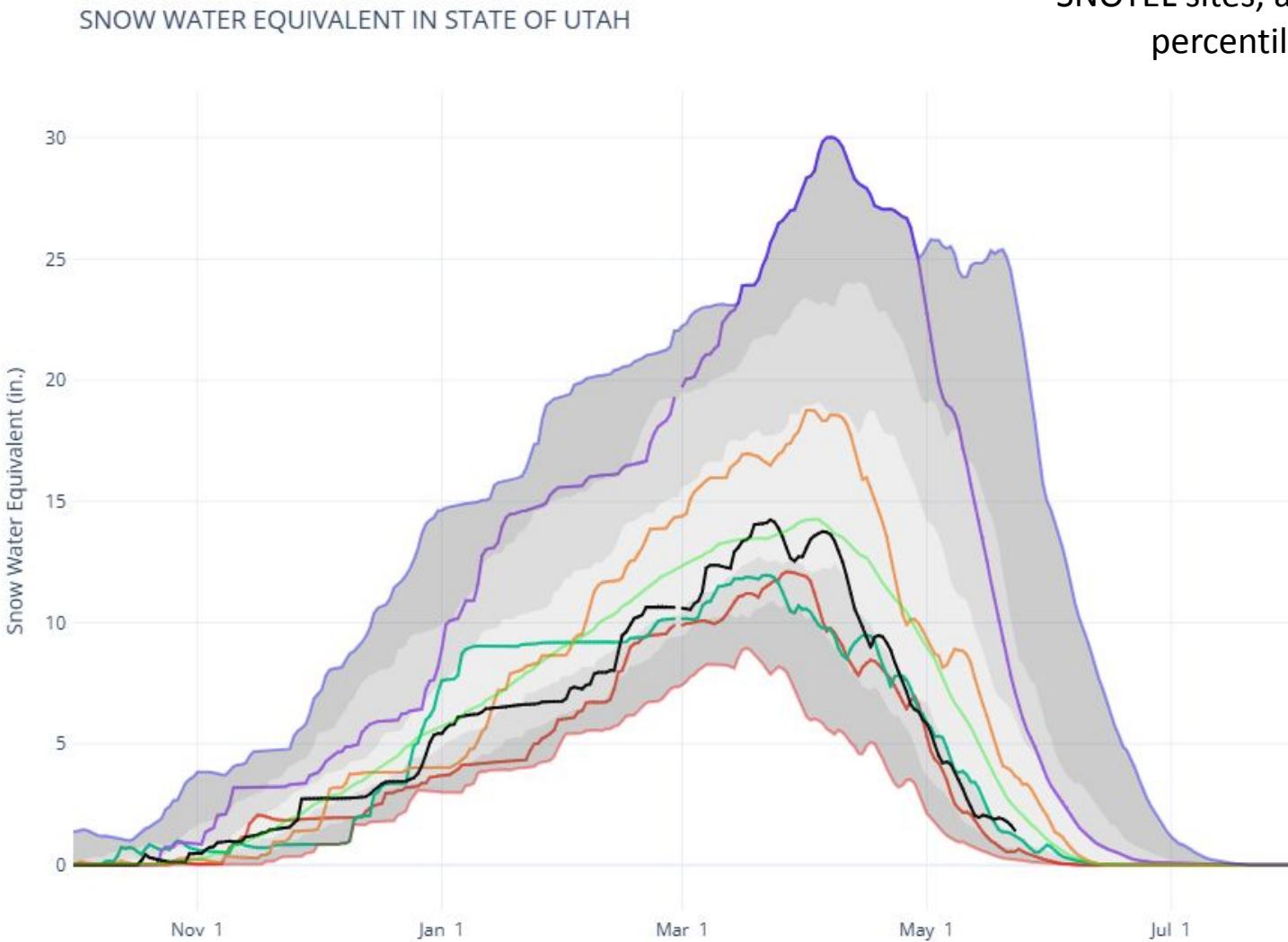


CPC June and June-August Outlooks

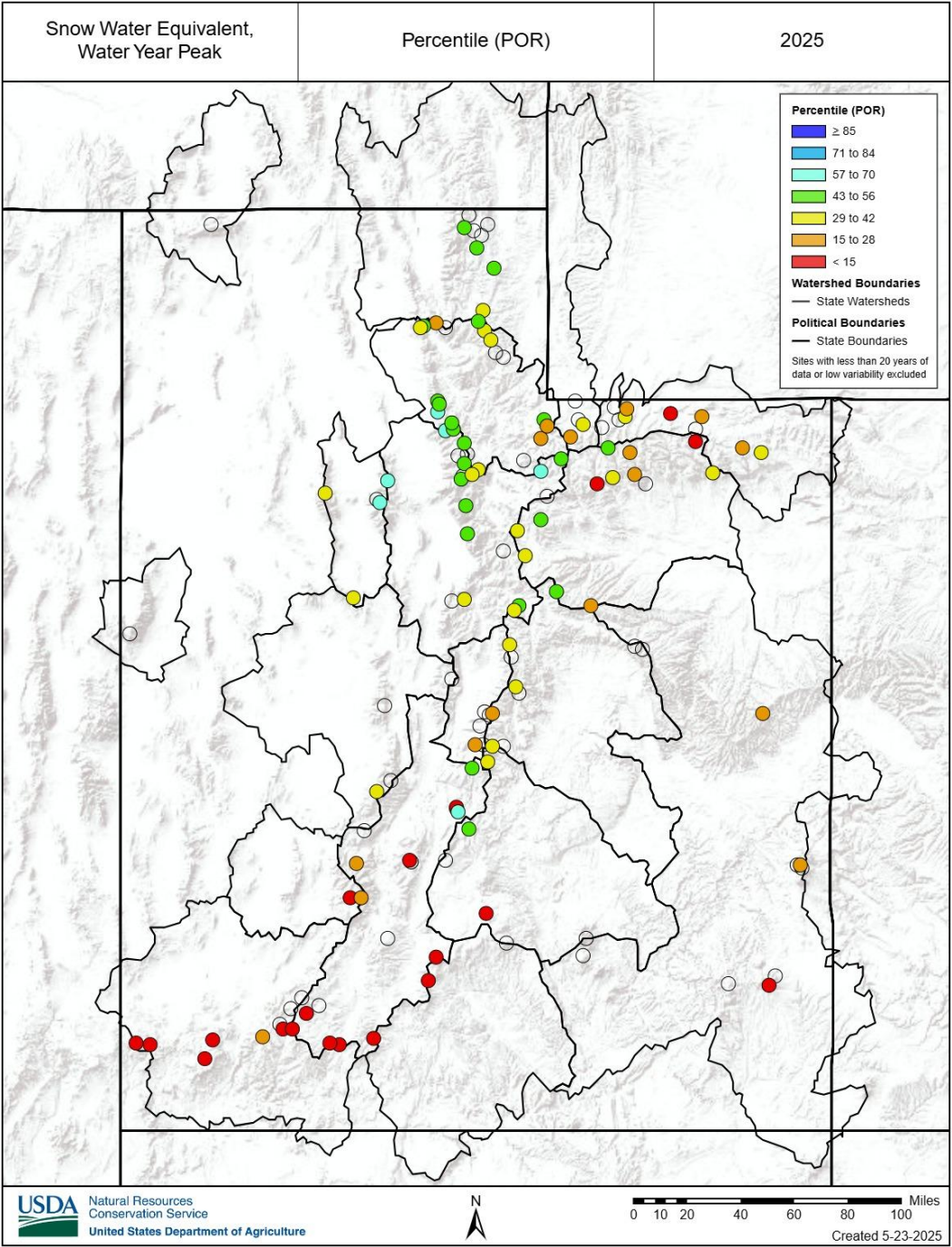


Snowpack

Peak 2025 SWE at
SNOTEL sites, as
percentile

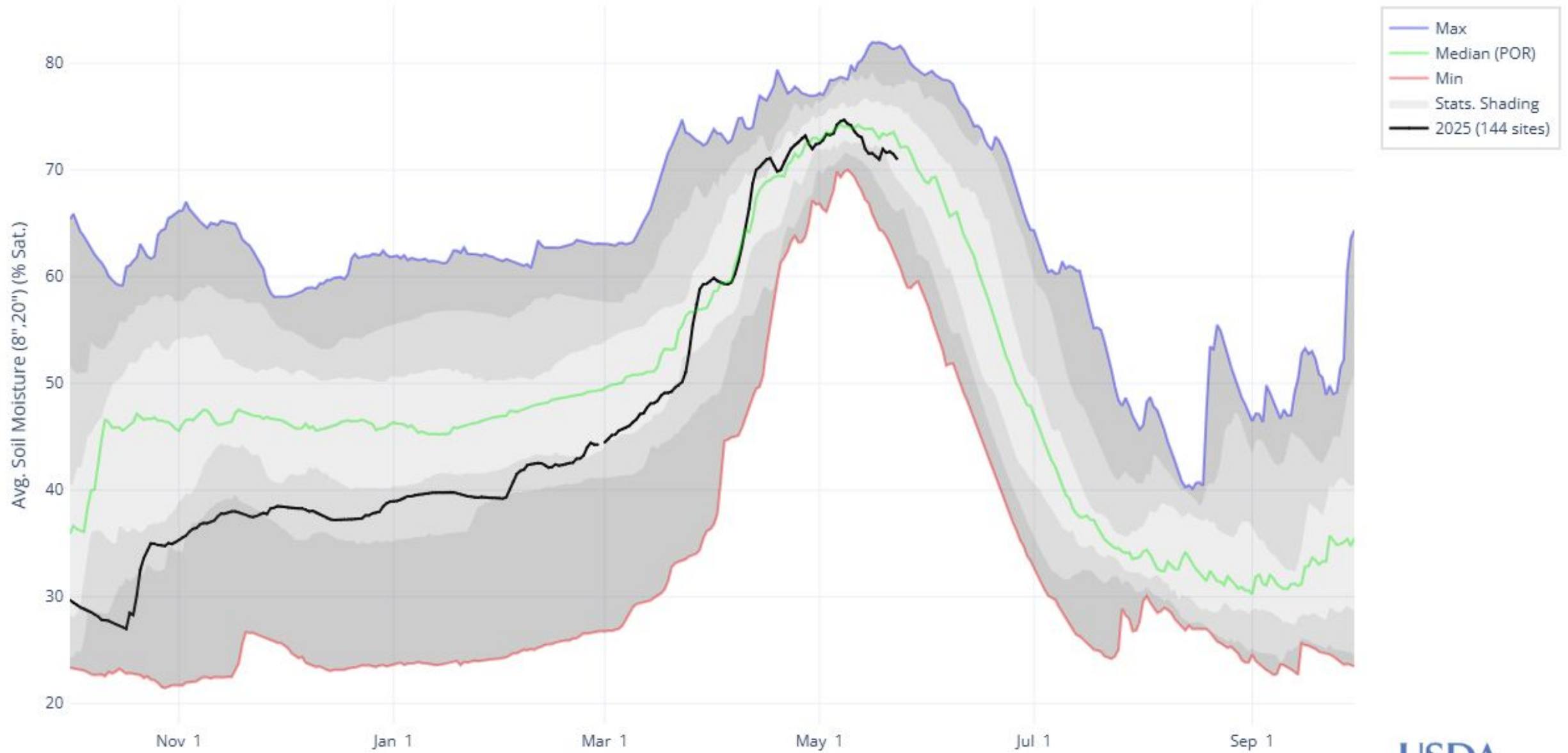


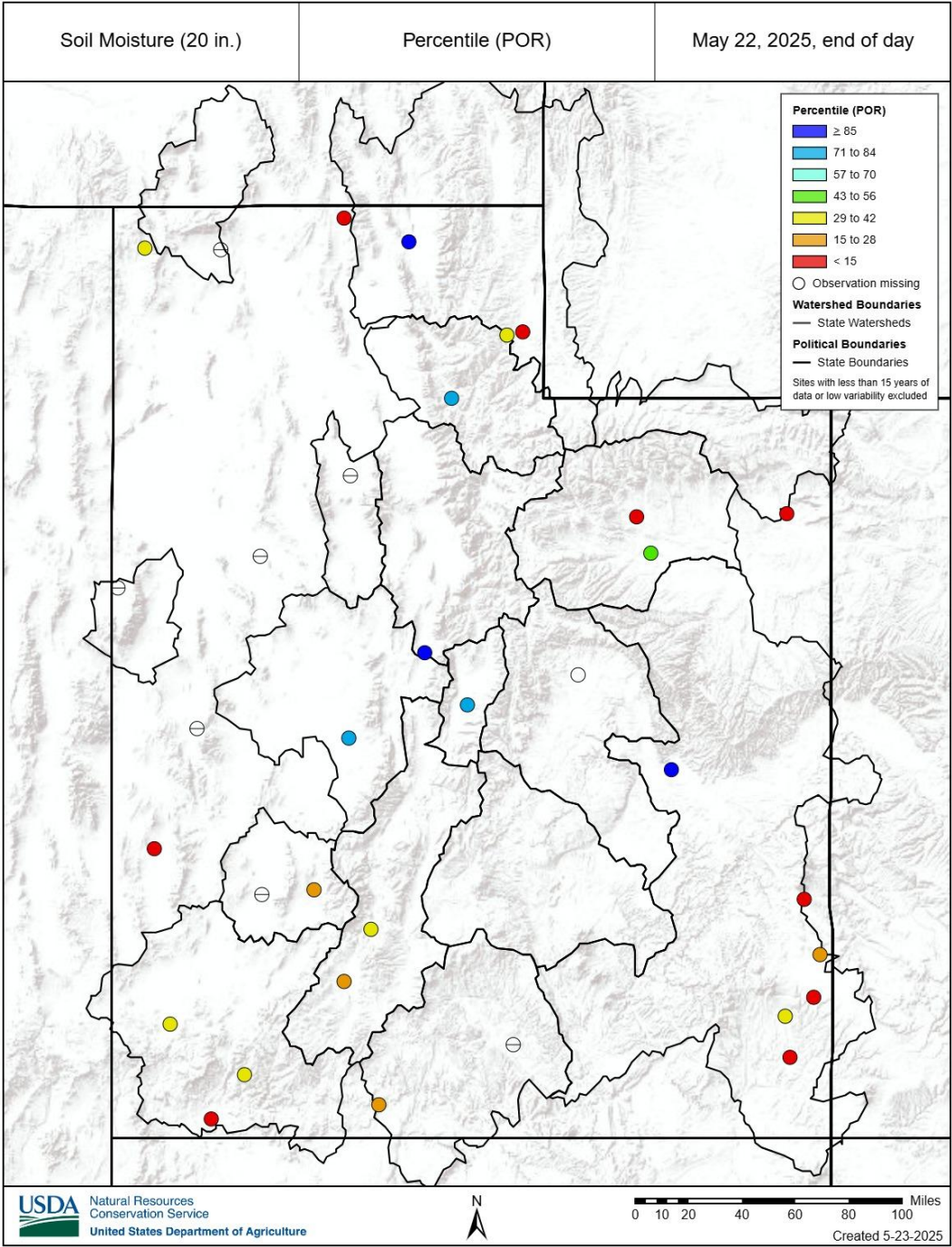
Agency - NRCS Snow Survey
Presenter - Jordan Clayton



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

Agency - NRCS Snow Survey
Presenter - Jordan Clayton

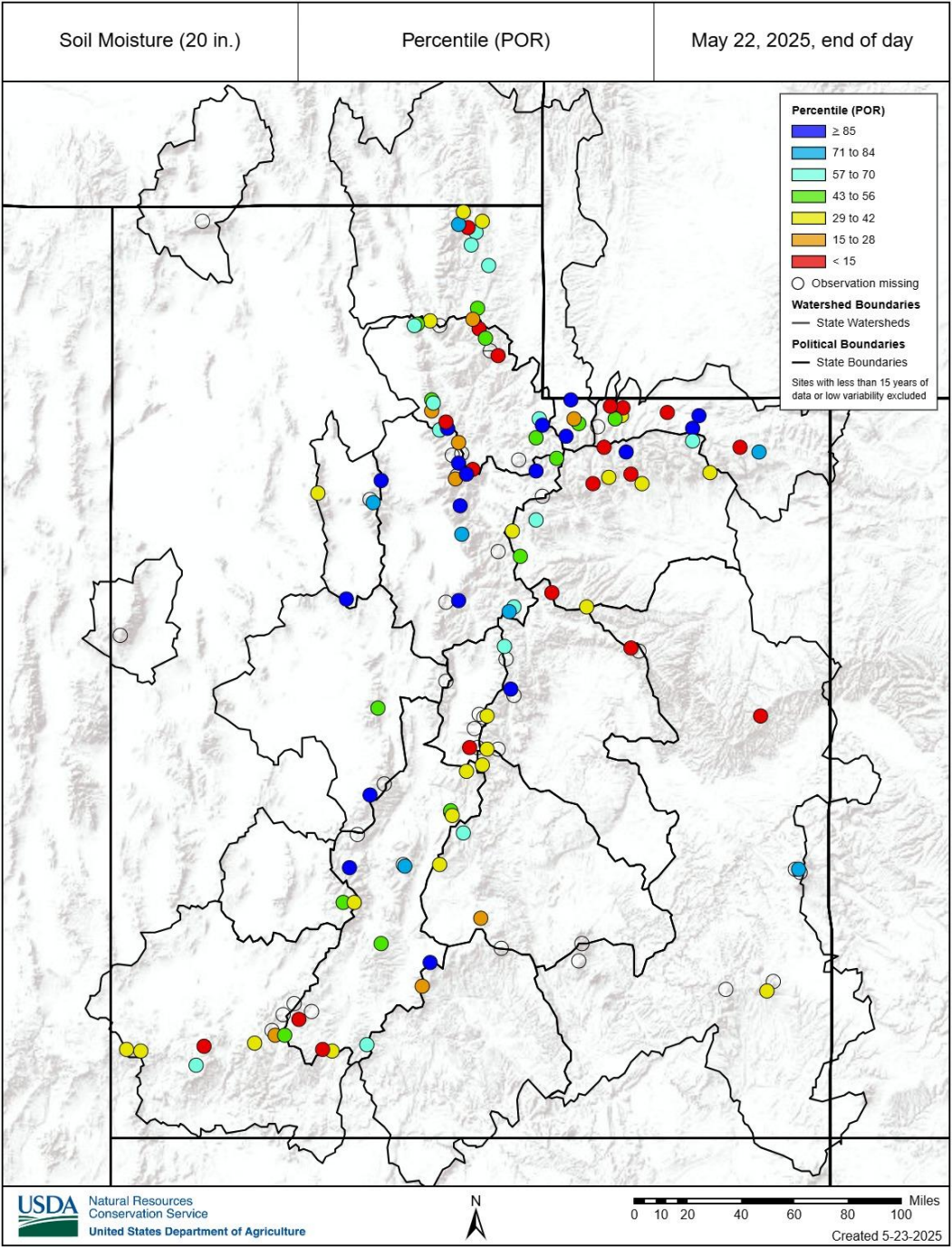




20" soil moisture, as percentile

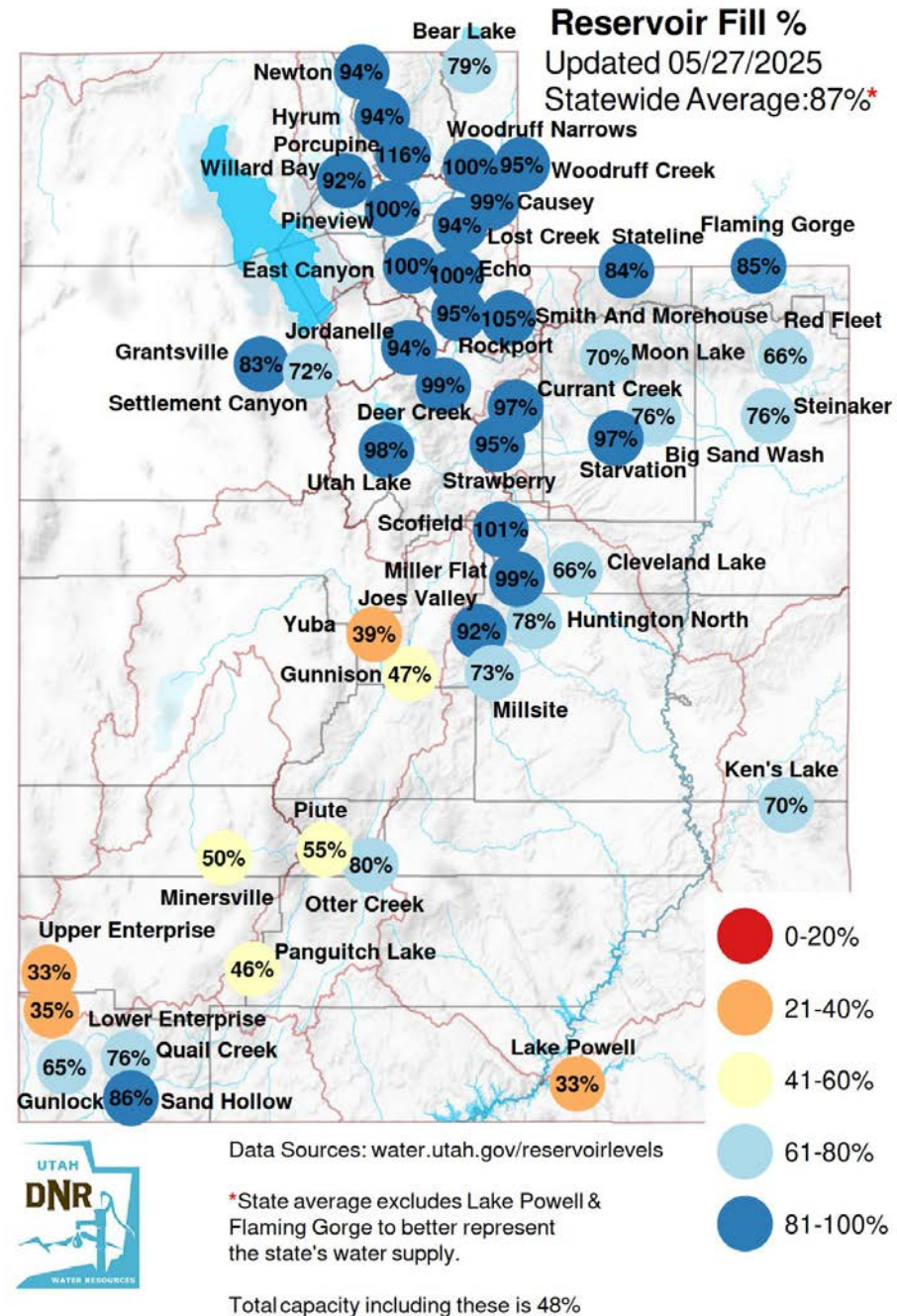
SNOTEL

SCAN



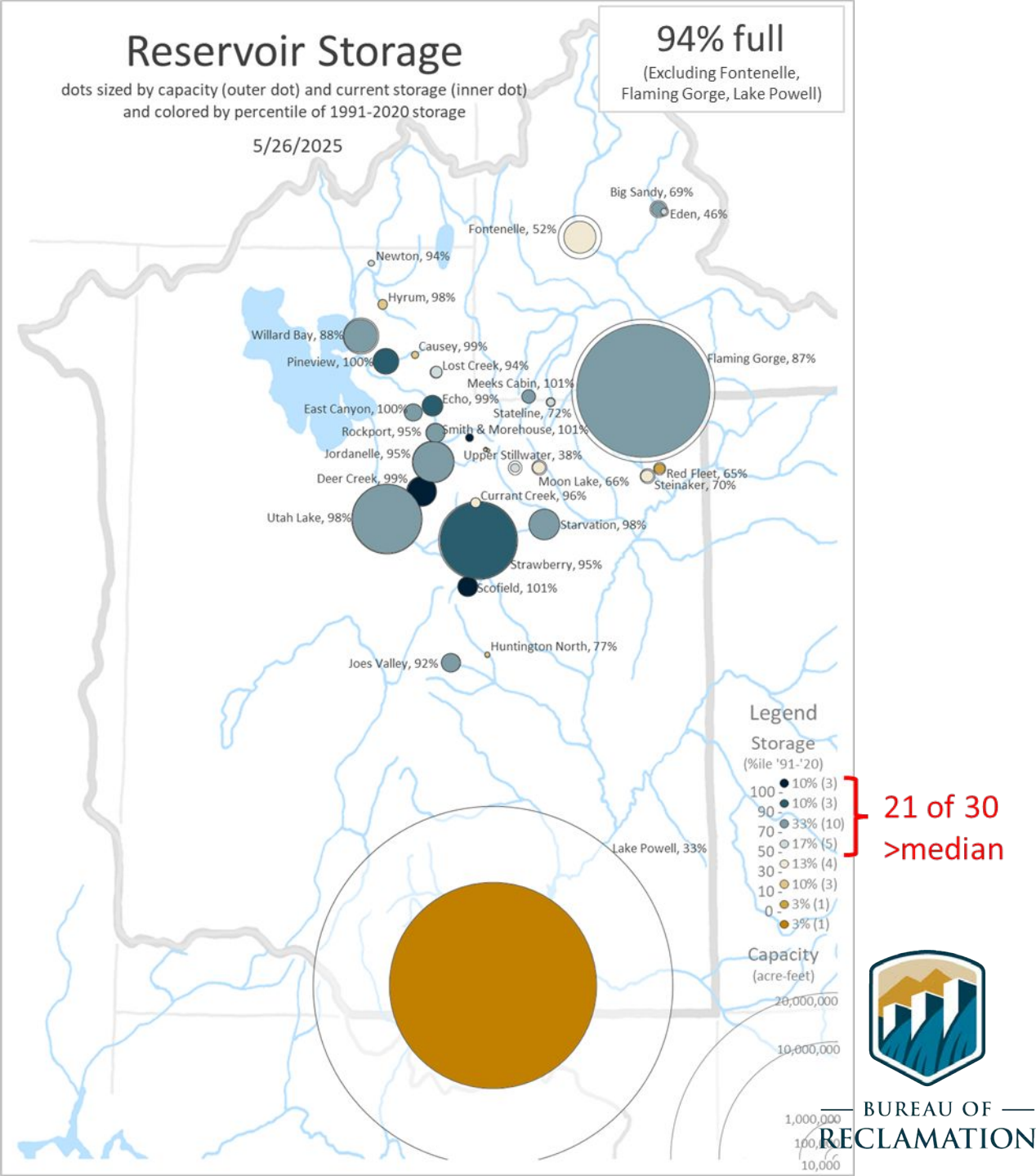
Northern reservoirs doing well

Southern/central reservoirs are lower comparatively

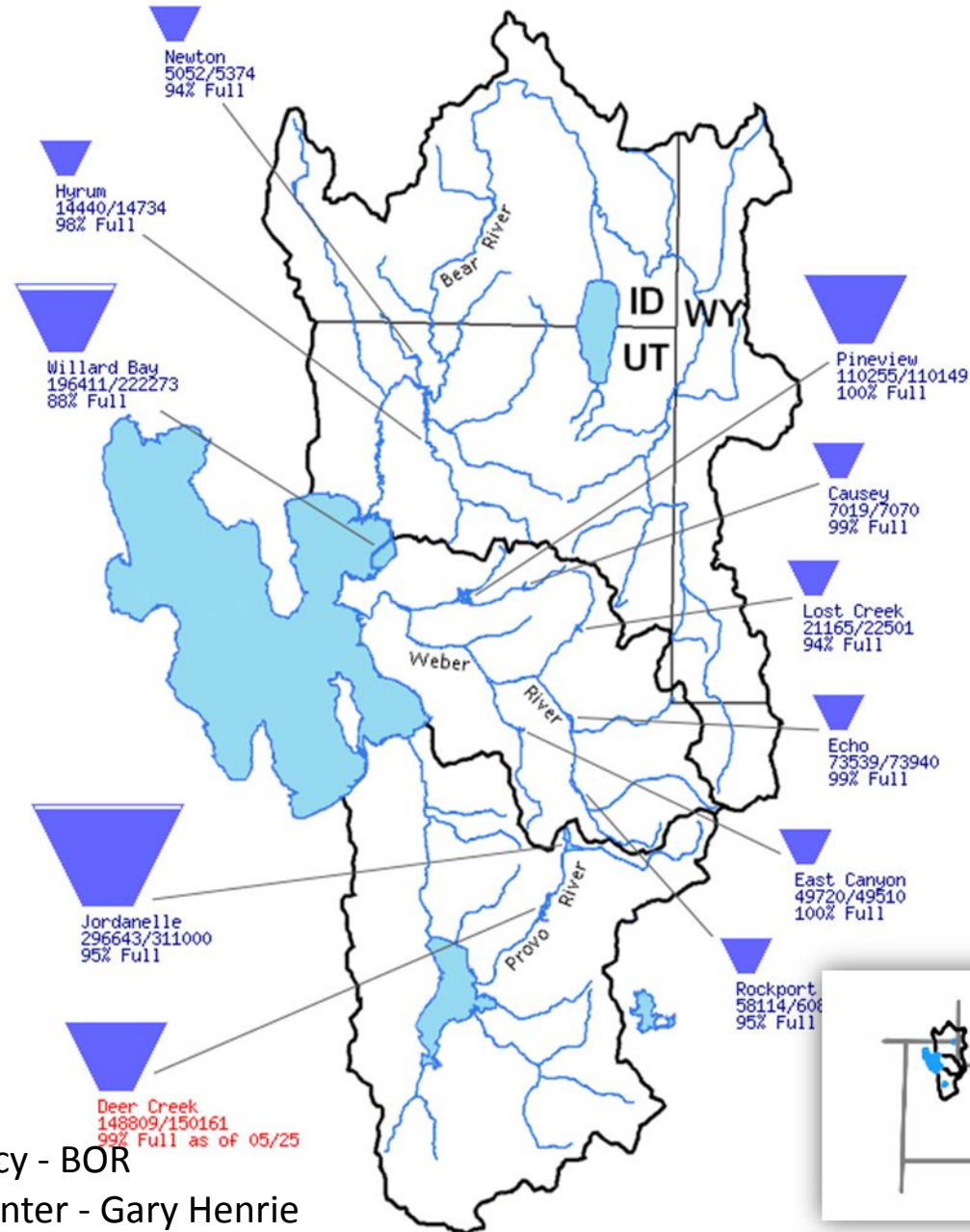


Reservoir Levels

- Overall reservoir storage is at 94% full
(Excluding Powell, Flaming Gorge, Fontenelle)
- Individual reservoirs range from 46-100% full
 - 21/30 are above the 30-year median
- Outlook
 - storage is near peak



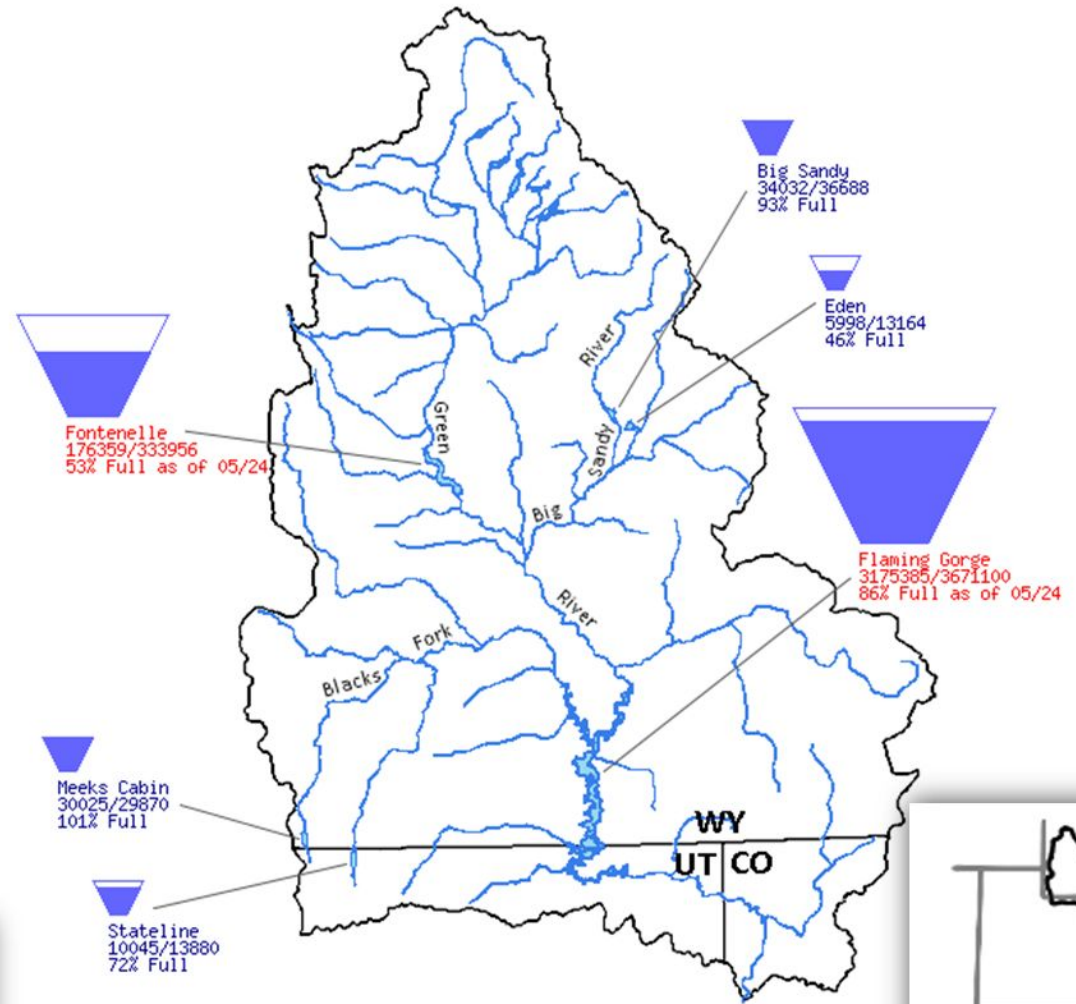
Bear, Weber, and Provo Reservoir Levels River Basins



Agency - BOR
Presenter - Gary Henrie

Data Current as of:
05/26/2025

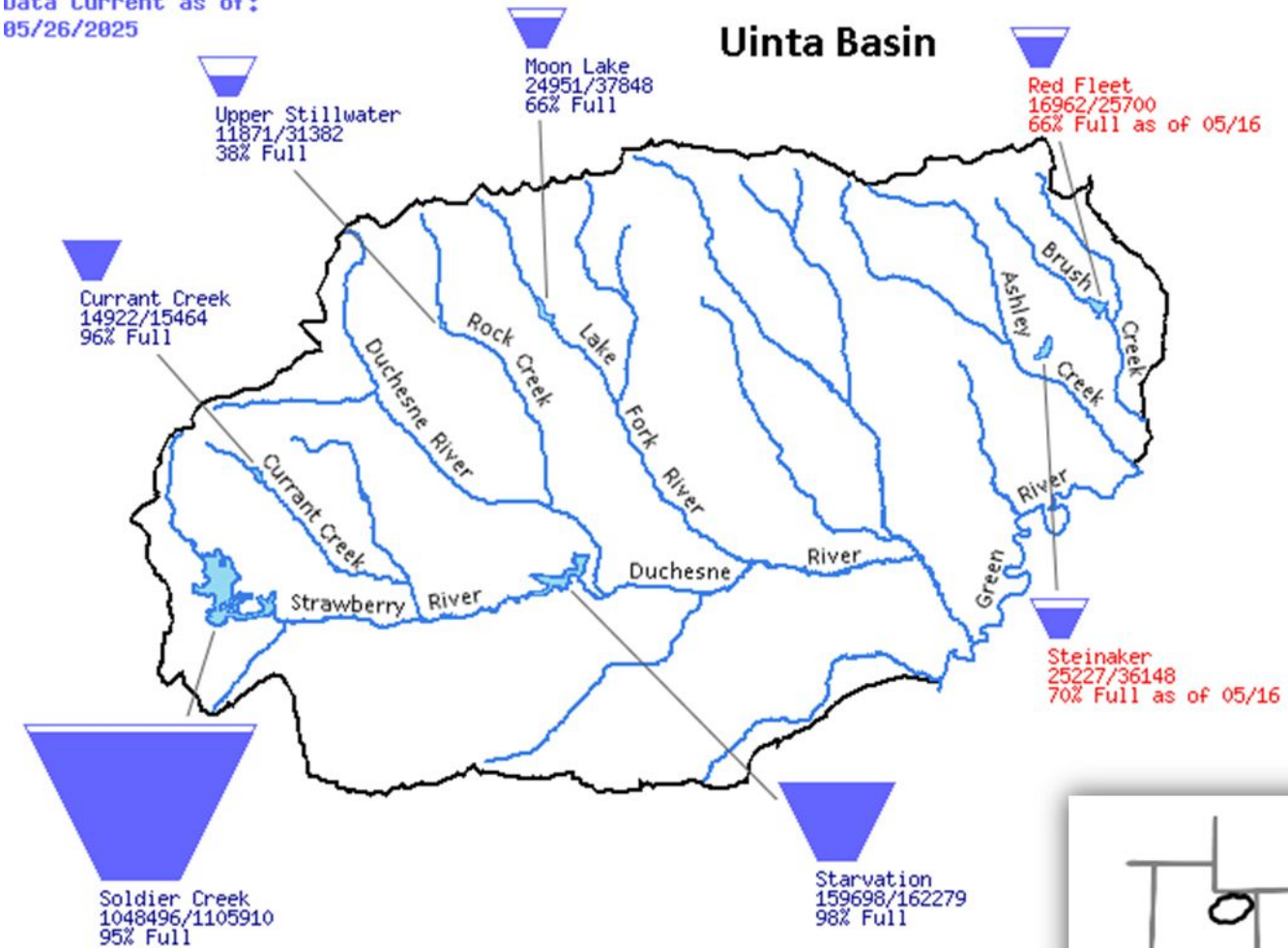
Upper Green River Basin



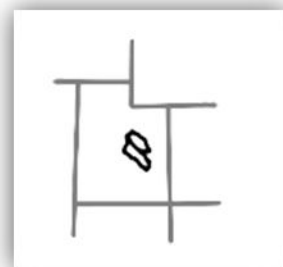
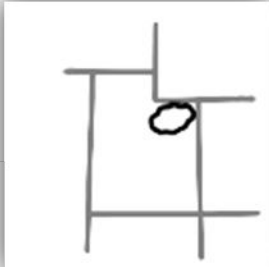
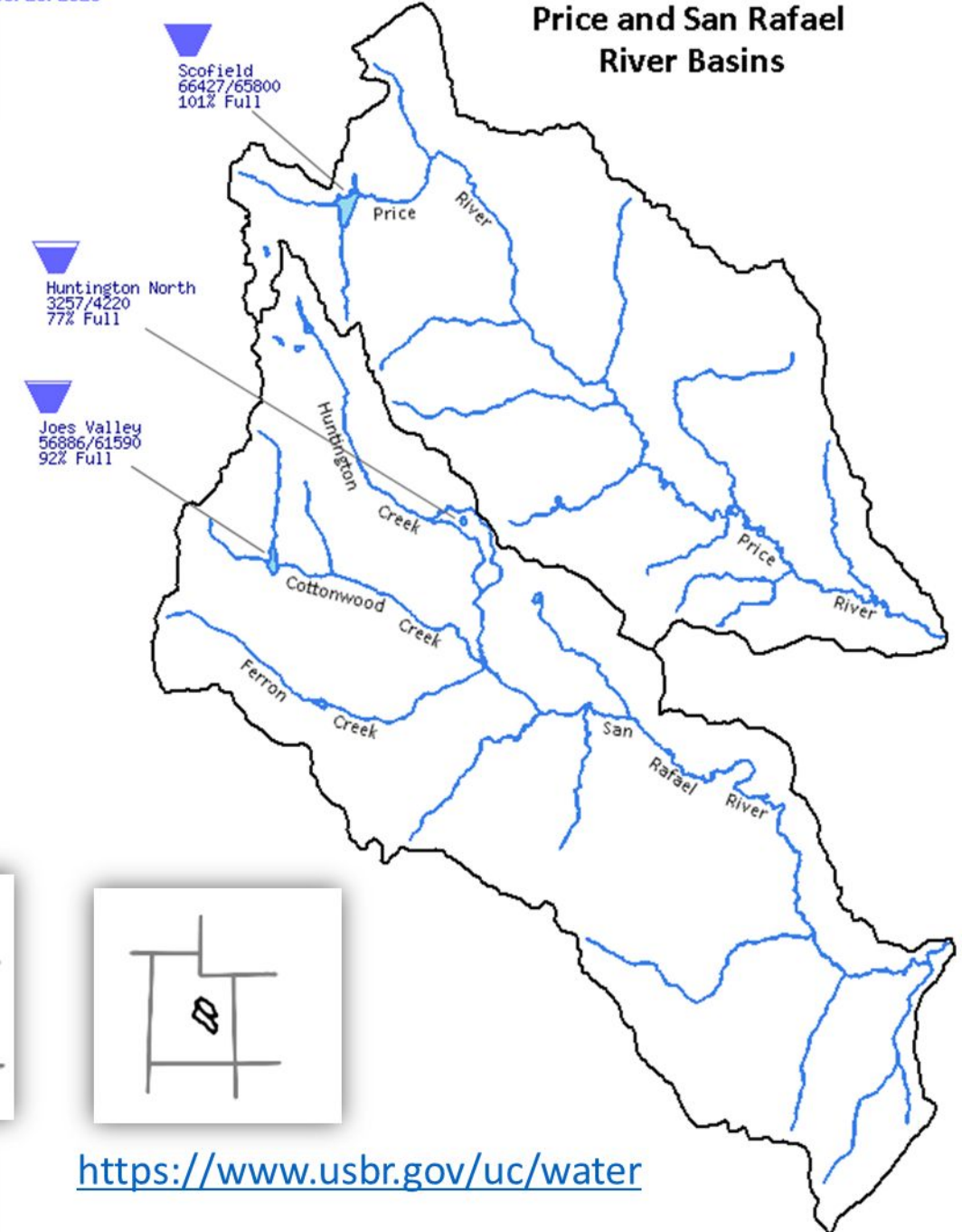
<https://www.usbr.gov/uc/water>

Reservoir Levels

Data Current as of:
05/26/2025



Data Current as of:
05/26/2025

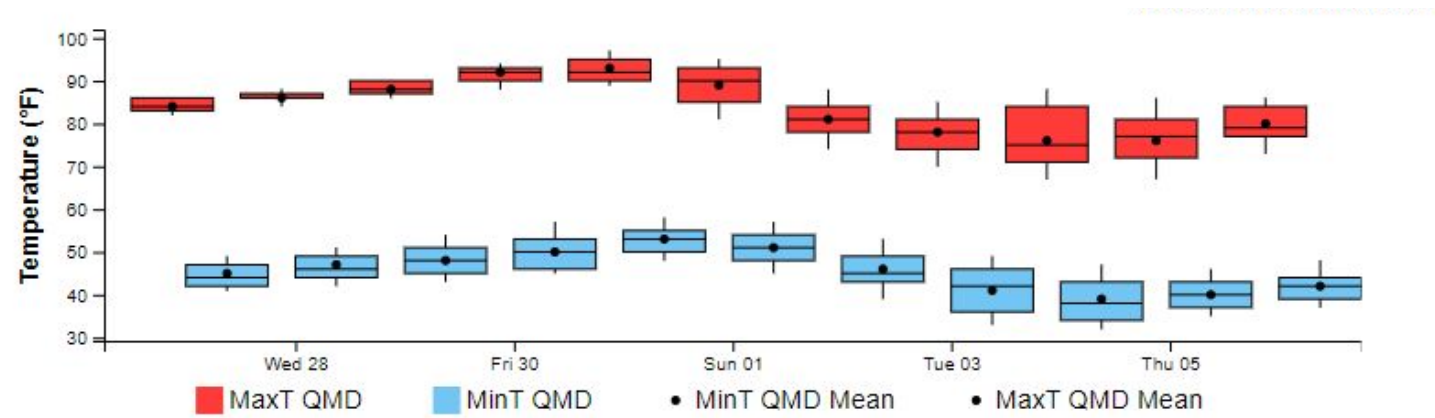




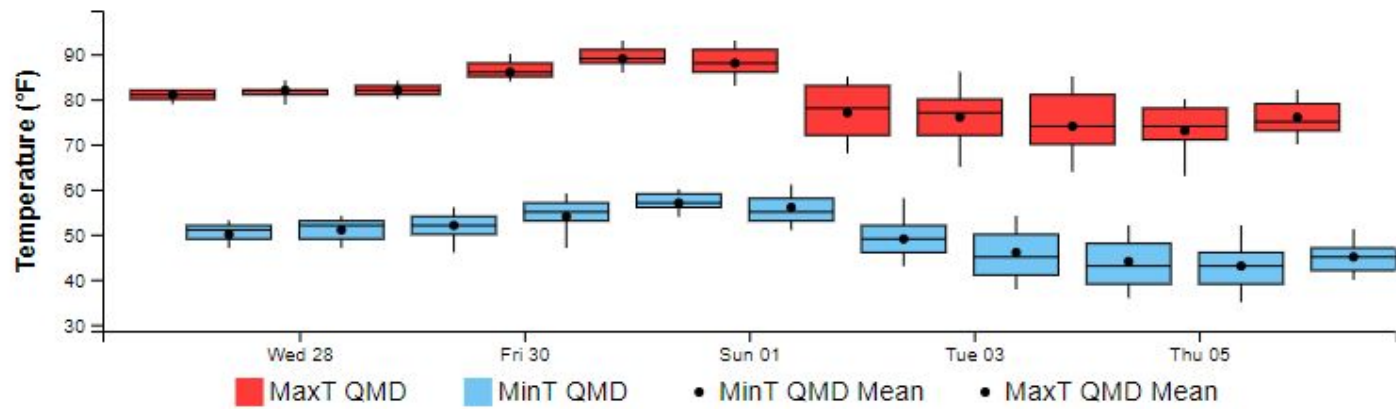
Weather Forecast Office Utah Day 1-7 Outlook



Milford



Price



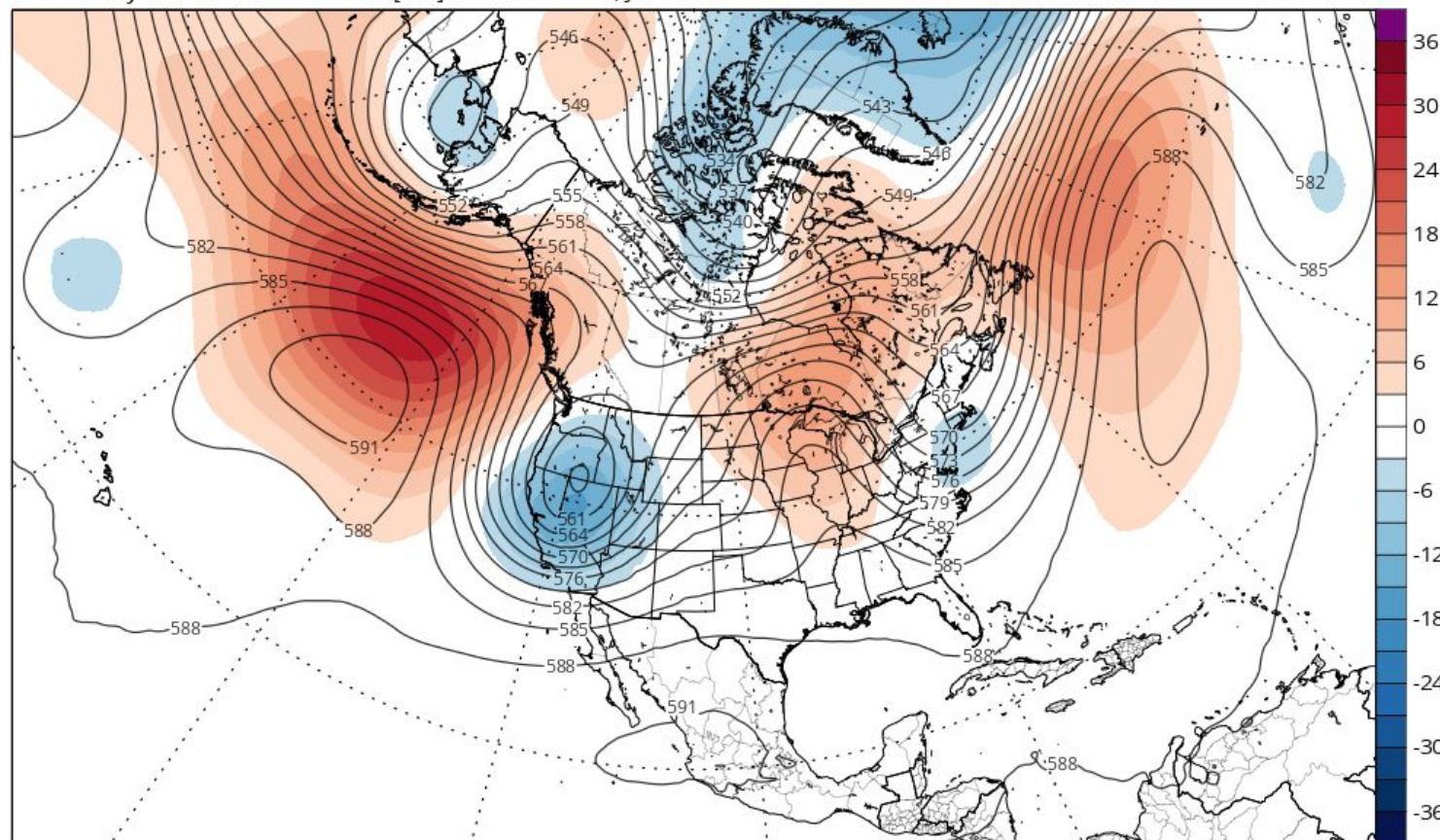
Weather Forecast Office Utah Day 1-7 Outlook



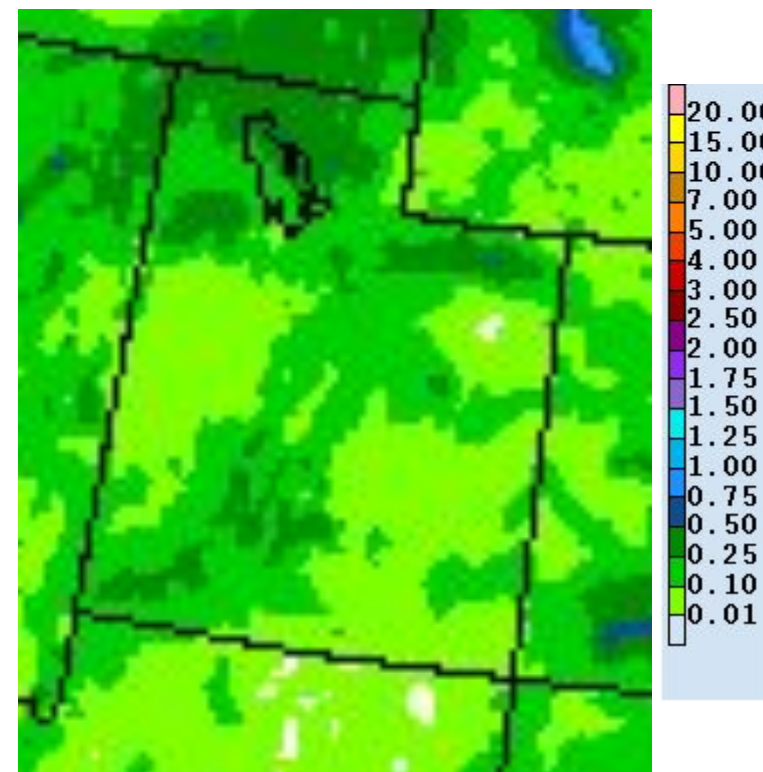
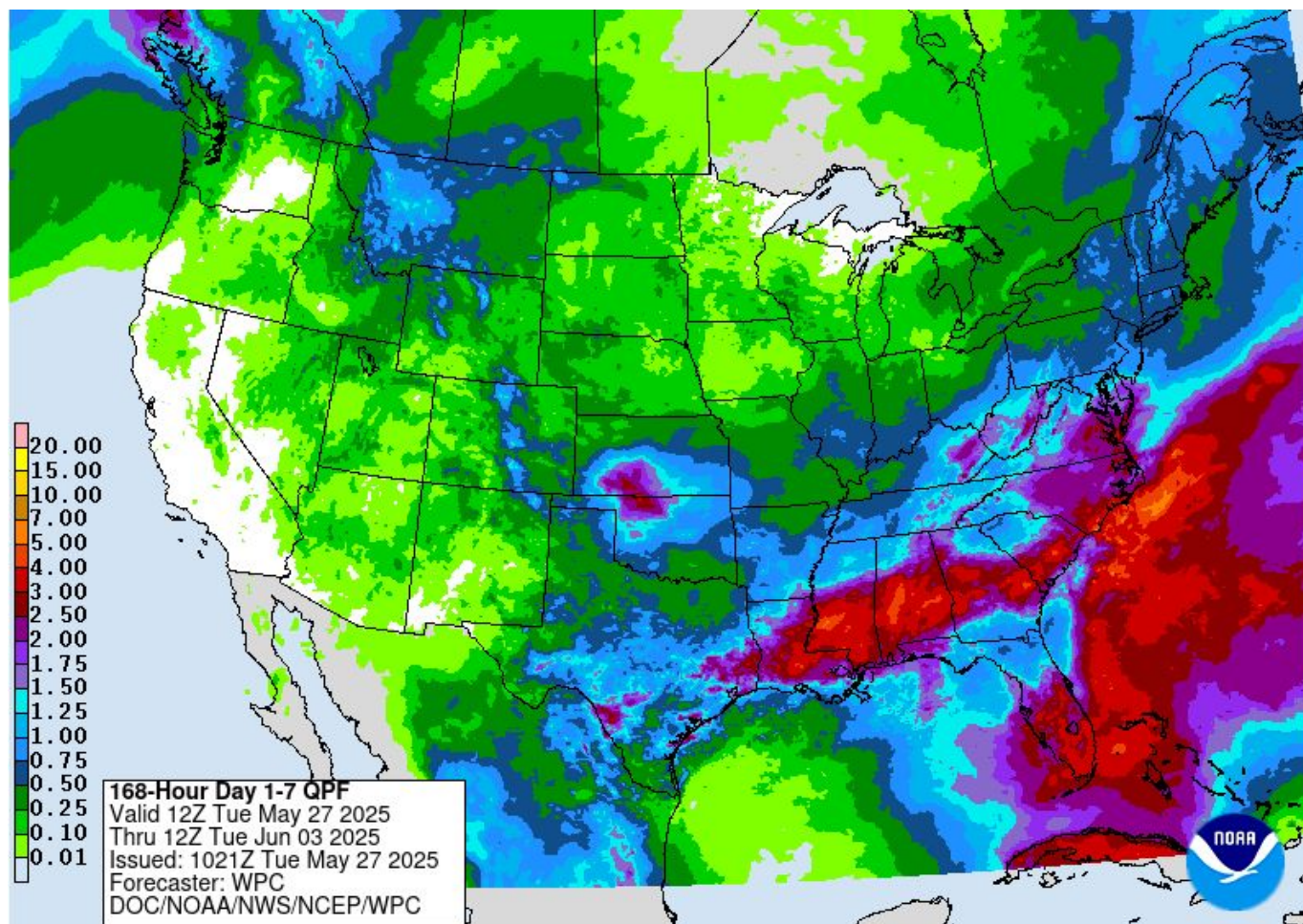
GEFS 500mb Geopotential Height & Anomaly (dam) (based on CFSR 1981-2010 Climatology)

Init: 12z May 27 2025 Forecast Hour: [174] valid at 18z Tue, Jun 03 2025

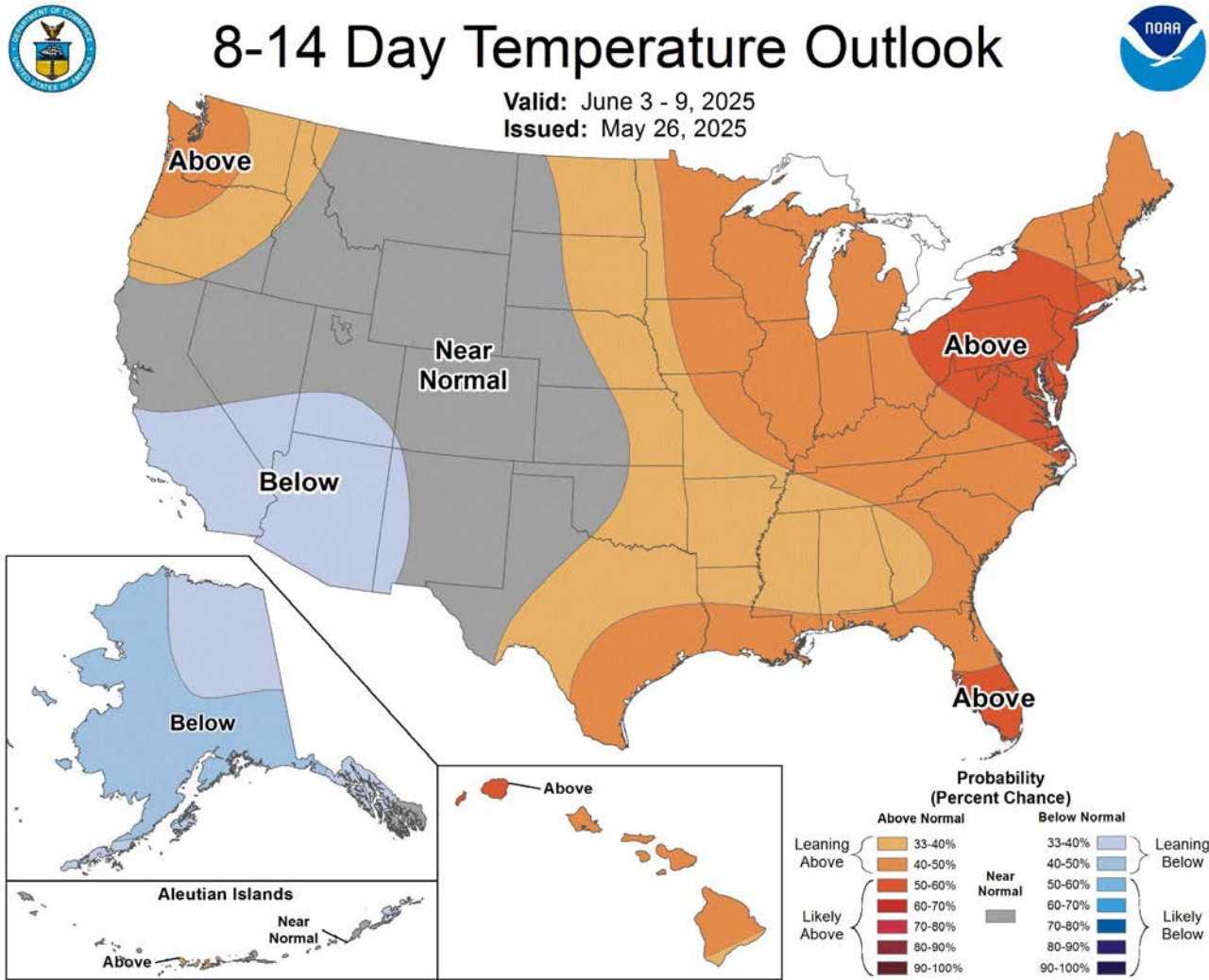
TROPICALTIDBITS.COM



Weather Forecast Office Utah Day 1-7 Outlook



Climate Prediction Center 8 to 14 Day Outlooks - Temperature



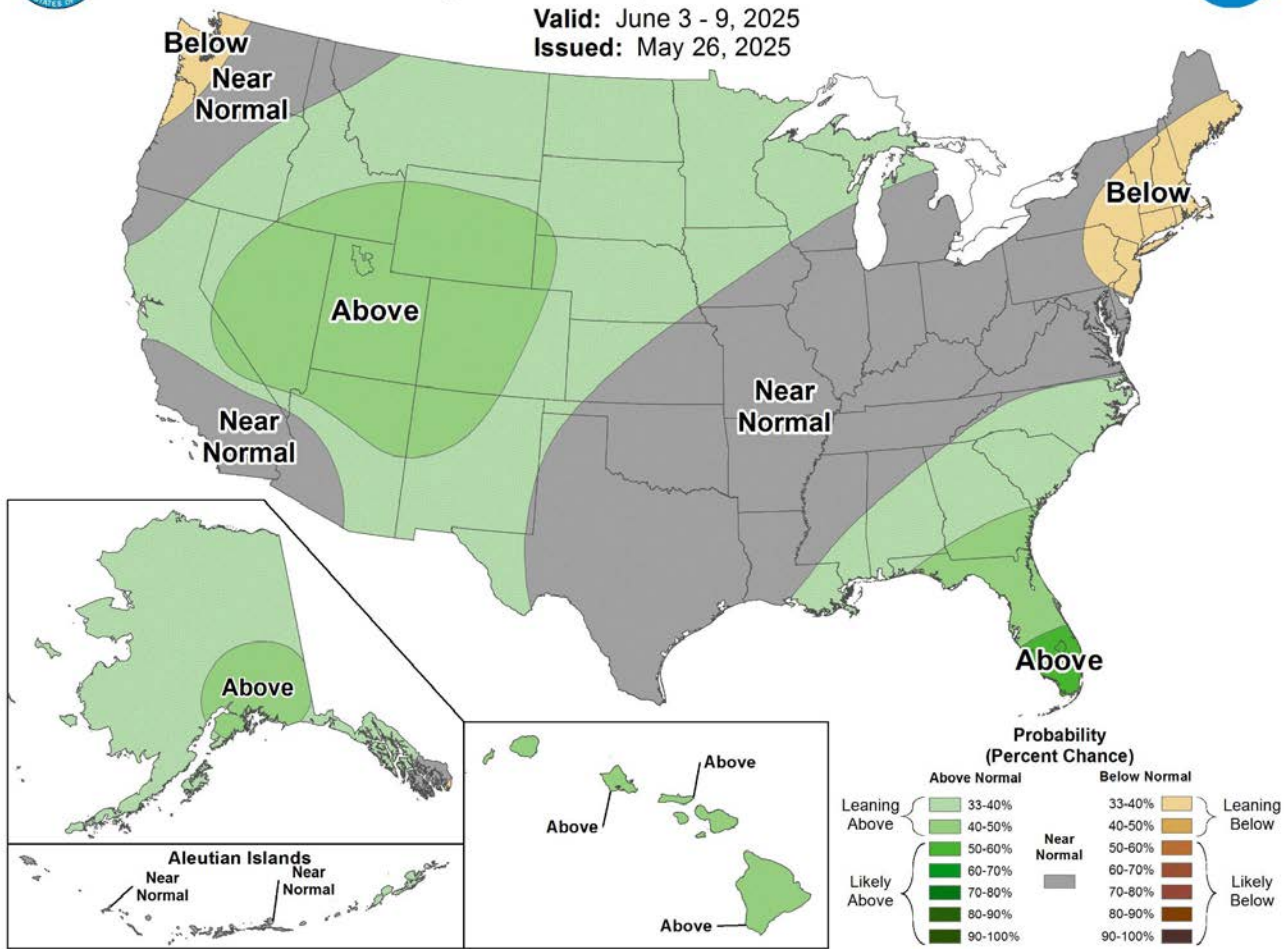
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



8-14 Day Precipitation Outlook

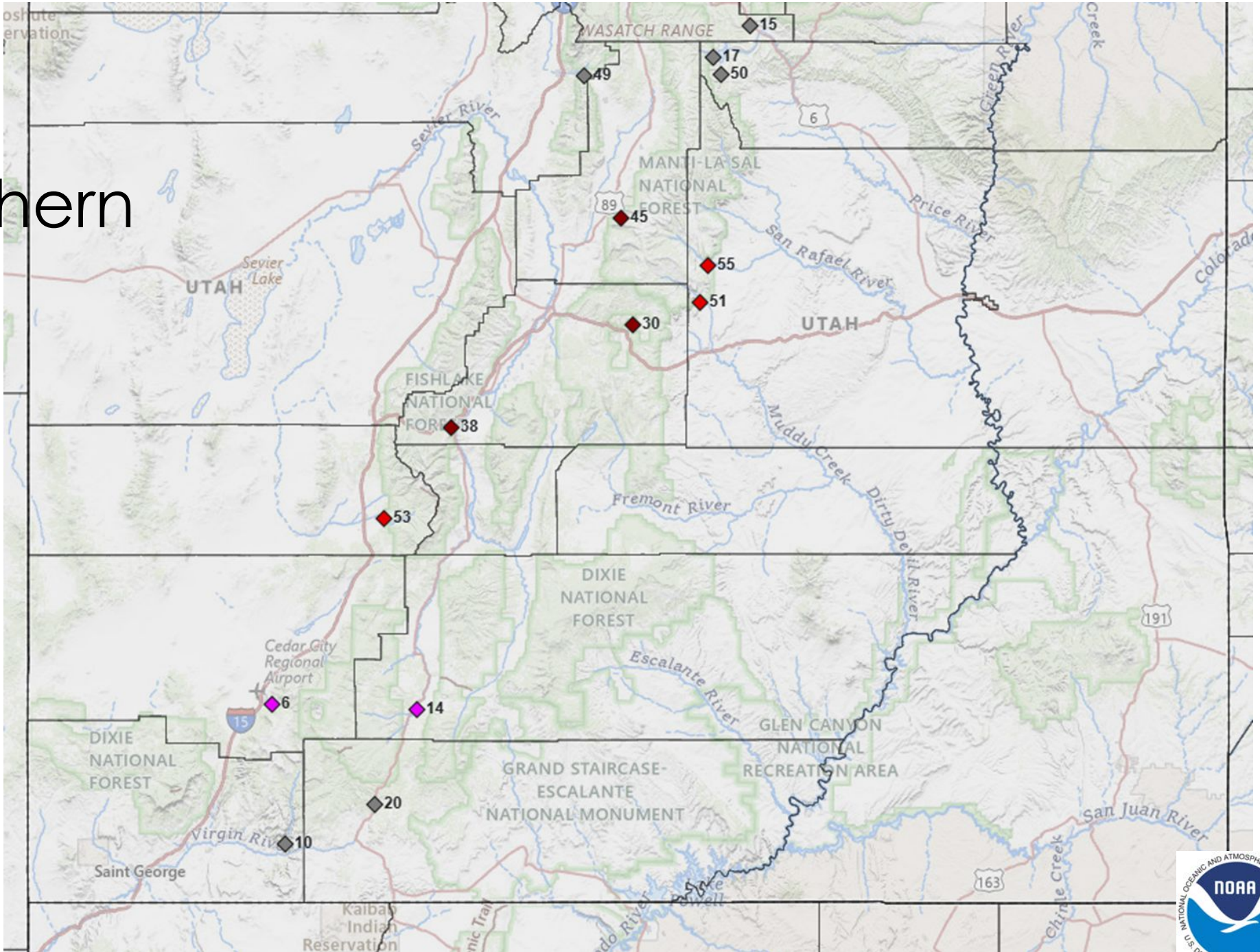


Valid: June 3 - 9, 2025
Issued: May 26, 2025

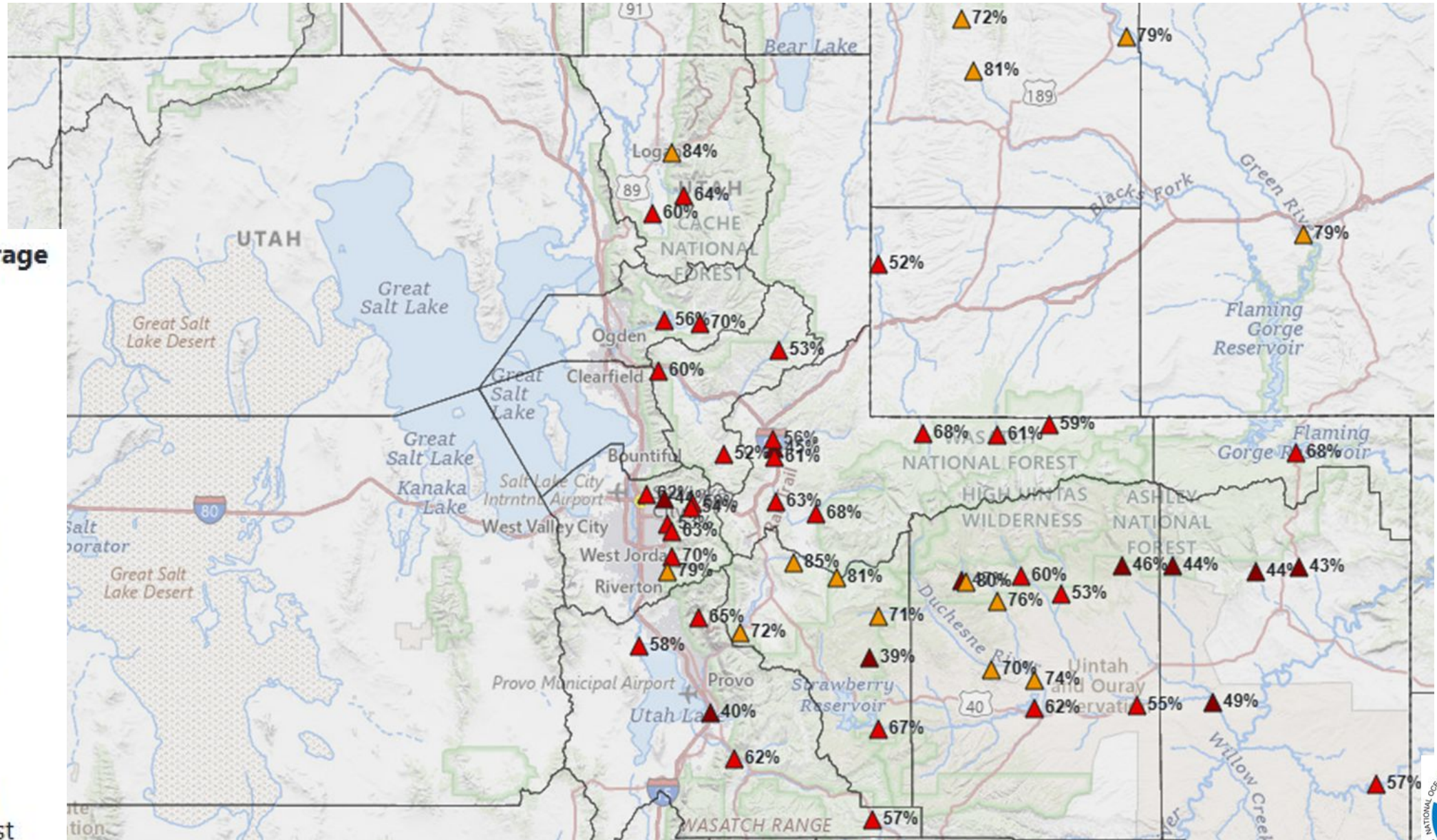


- ◇ No Forecast
- ◆ No Stats/Already Peak(ed/ing)
- ◆ < 30%
- ◆ 30-50%
- ◆ 50-70%
- ◆ 70-90%
- ◆ 90-100%
- ◆ 100-110%
- ◆ 110-130%
- ◆ 130-150%
- ◆ 150-200%
- ◆ 200-300%
- ◆ 300-500
- ◆ >500%

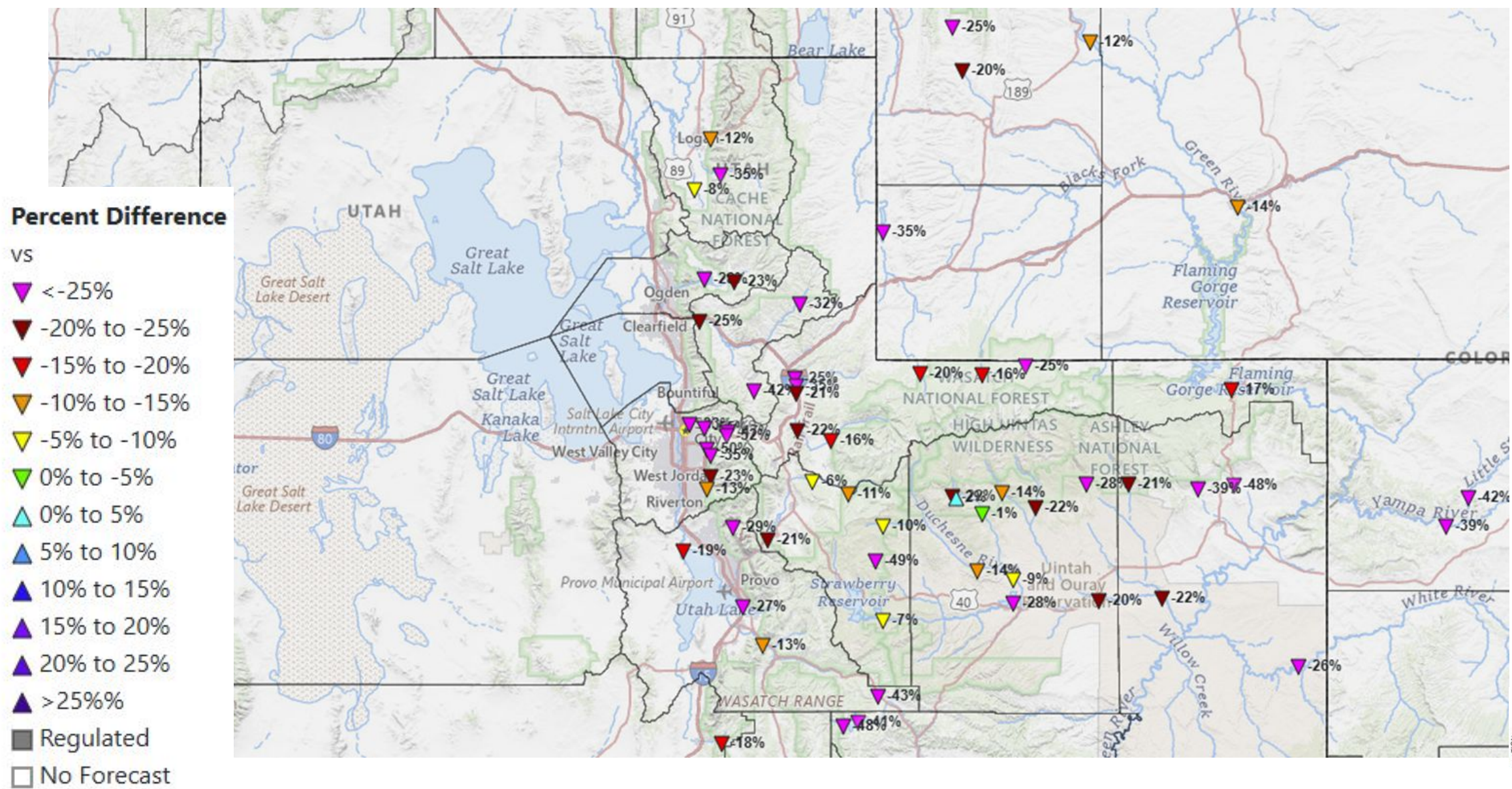
- ◇ No Forecast
- ◆ No Stats/Already Peak(ed/ing)
- ◆ < 30%
- ◆ 30-50%
- ◆ 50-70%
- ◆ 70-90%
- ◆ 90-100%
- ◆ 100-110%
- ◆ 110-130%
- ◆ 130-150%
- ◆ 150-200%
- ◆ 200-300%
- ◆ 300-500
- ◆ > 500%



Percent Average



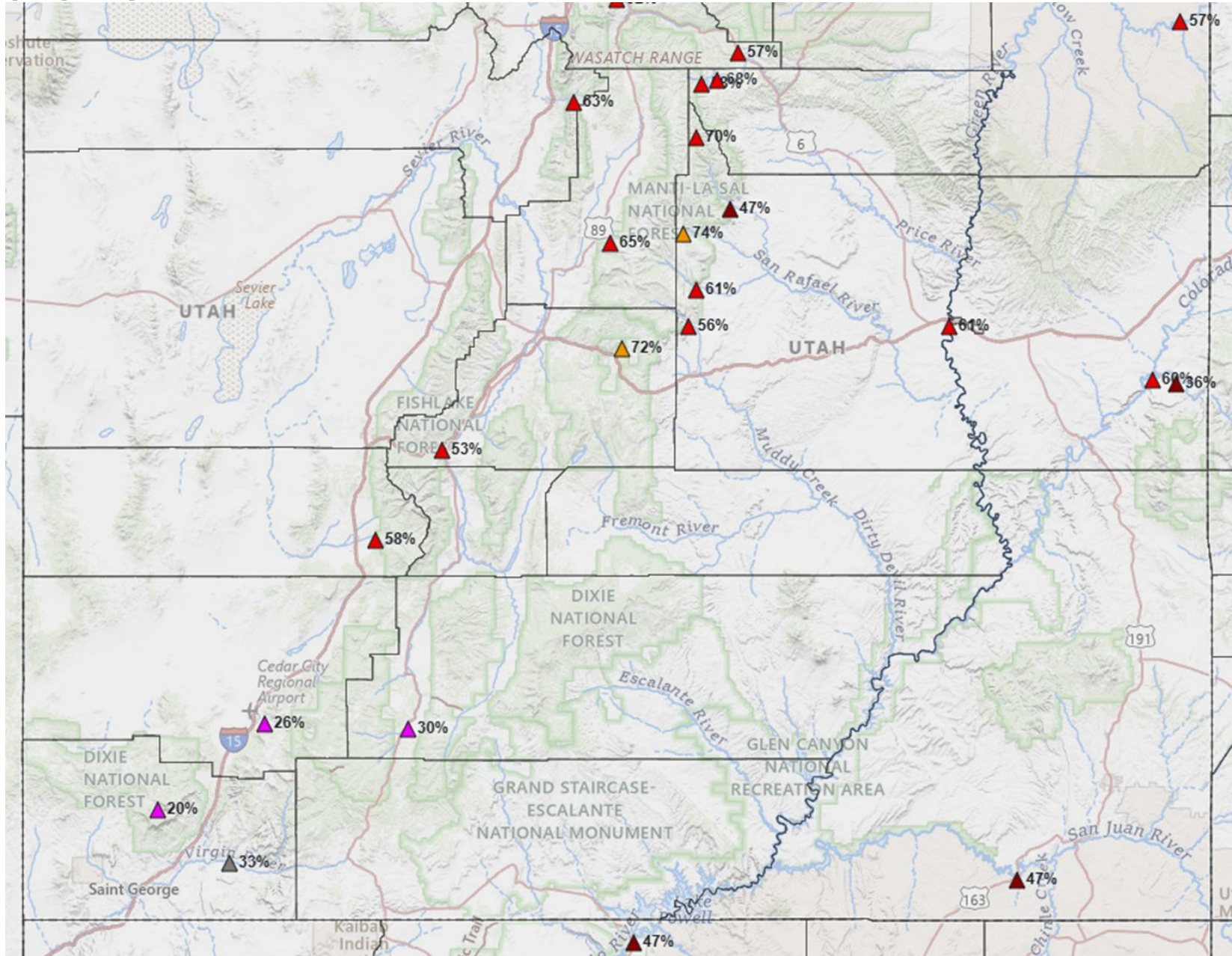
Water Supply Forecast: Change From April 1



Water Supply Forecast – Central/Southern Utah

Percent Average

- ▲ < 30%
- ▲ 30-50%
- ▲ 50-70%
- ▲ 70-90%
- ▲ 90-100%
- ▲ 100-110%
- ▲ 110-130%
- ▲ 130-150%
- ▲ 150-200%
- ▲ 200-300%
- ▲ 300-500%
- ▲ > 500%
- ▲ Regulated
- △ No Forecast

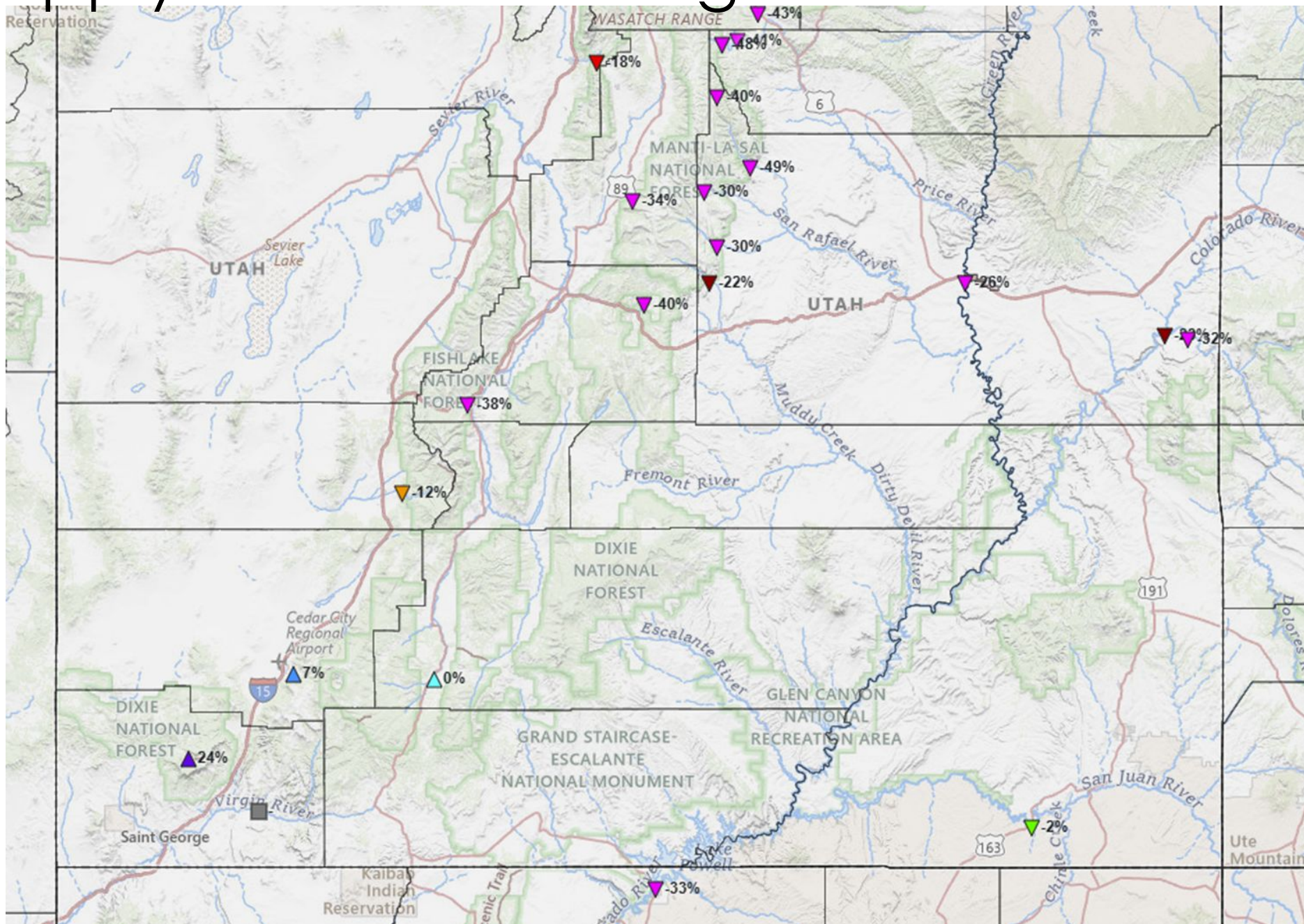


Water Supply Forecast: Change From Previous Meeting

Percent Difference

vs

- ▼ < -25%
- ▼ -20% to -25%
- ▼ -15% to -20%
- ▼ -10% to -15%
- ▼ -5% to -10%
- ▼ 0% to -5%
- ▲ 0% to 5%
- ▲ 5% to 10%
- ▲ 10% to 15%
- ▲ 15% to 20%
- ▲ 20% to 25%
- ▲ > 25%
- Regulated
- No Forecast



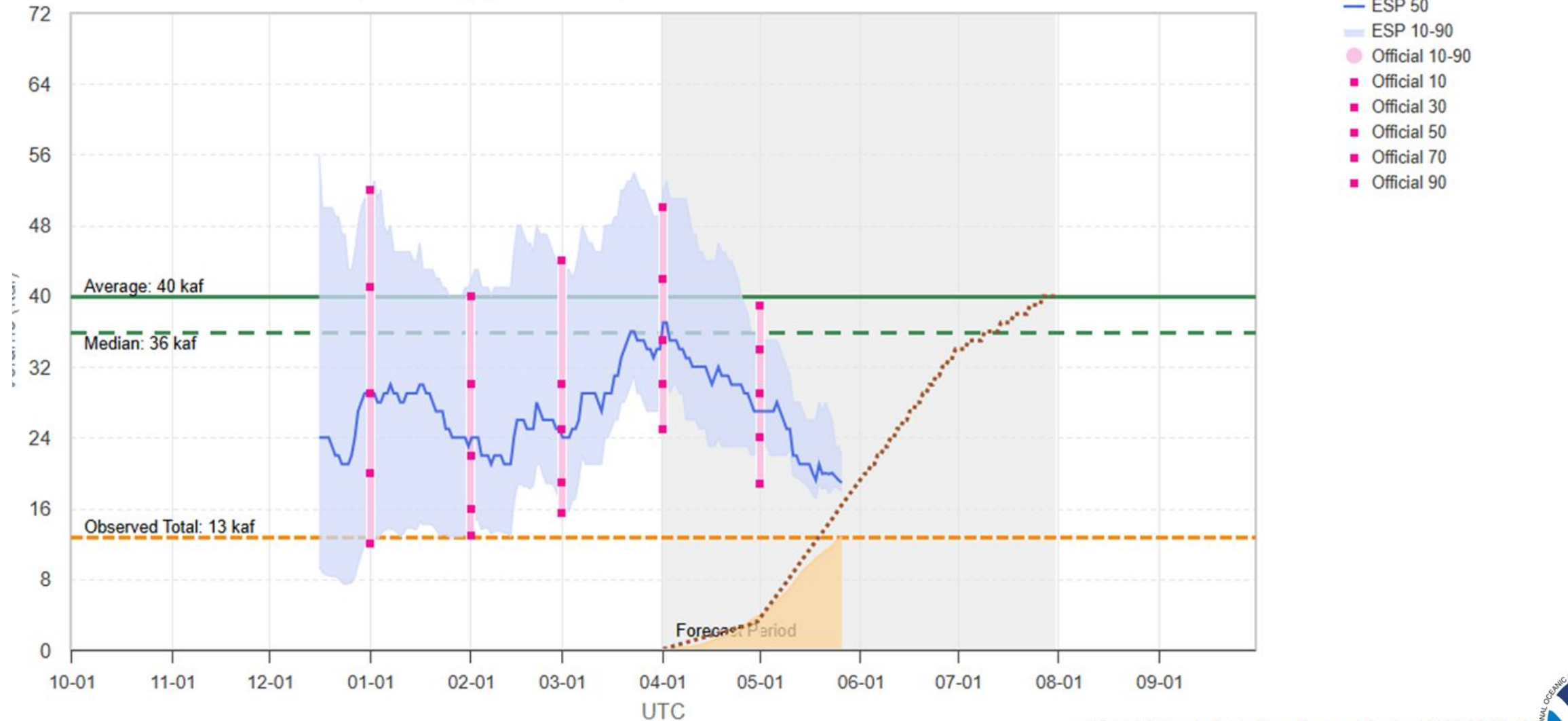
2025 Water Supply Forecast - Huntington Ck - Power Plant, Blo -Huntington, Nr (HPBU1)

ESP is Unregulated and No Precipitation Forecast Included

Official 50% Fcst (2025-05-01): 29 kaf (72% Avg, 81% Med), (41% of Yrs Below Fcst, 21 Highest Flow / 34 Tot Yrs)

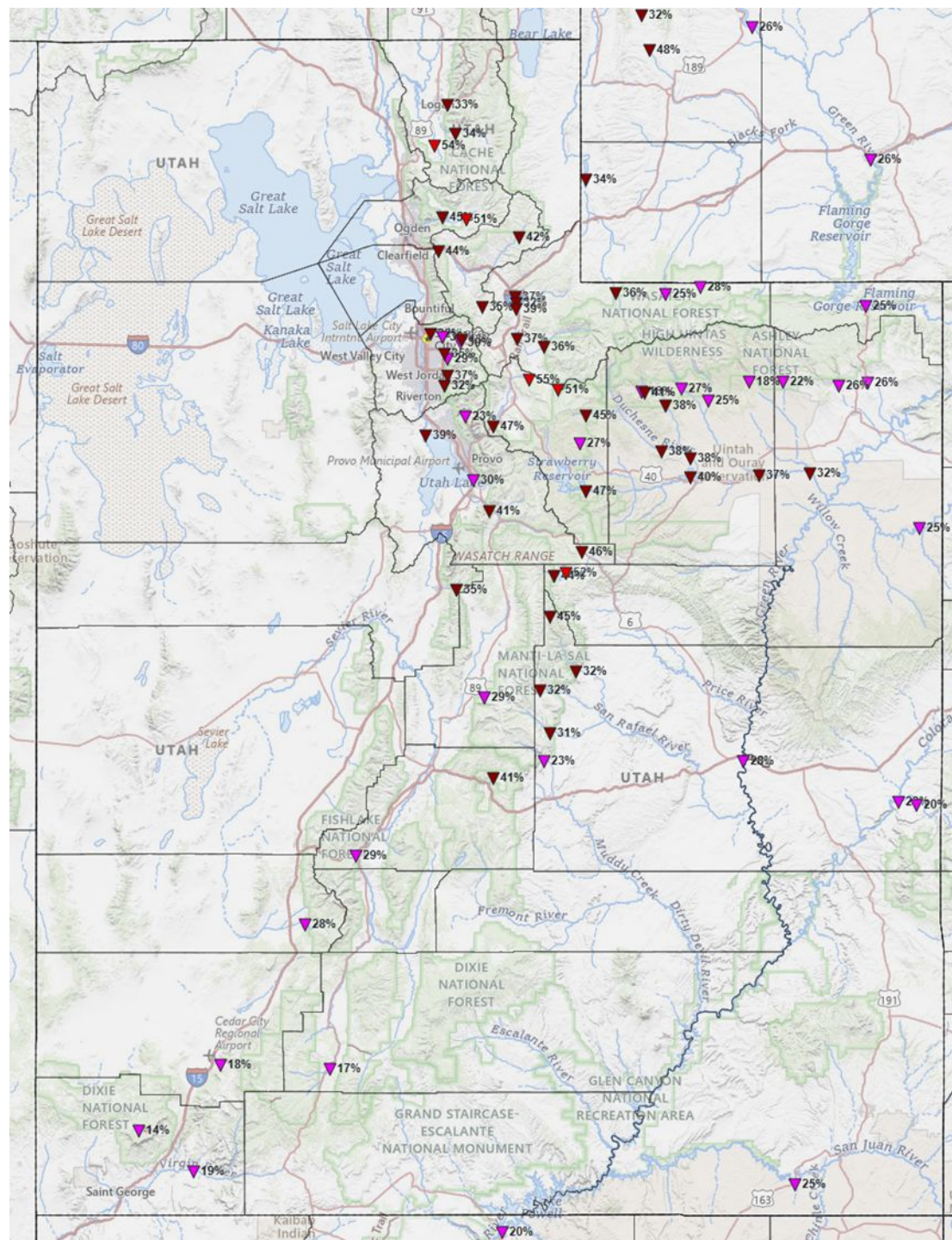
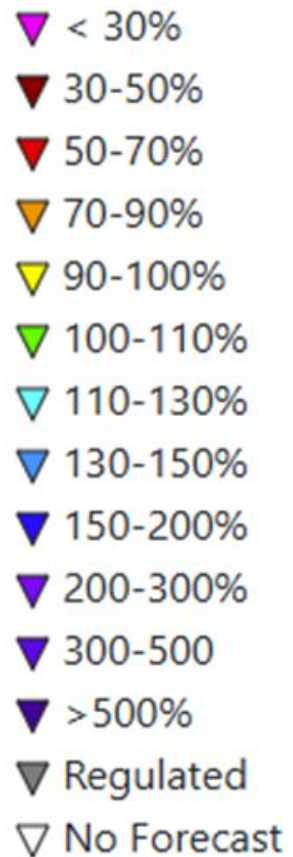
ESP 50% Fcst (2025-05-26): 18.9 kaf (47% Avg, 52% Med), (11% of Yrs Below Fcst, 31 Highest Flow / 34 Tot Yrs)

Observed Volume: 12.8 kaf (32% Average, 36% Median)

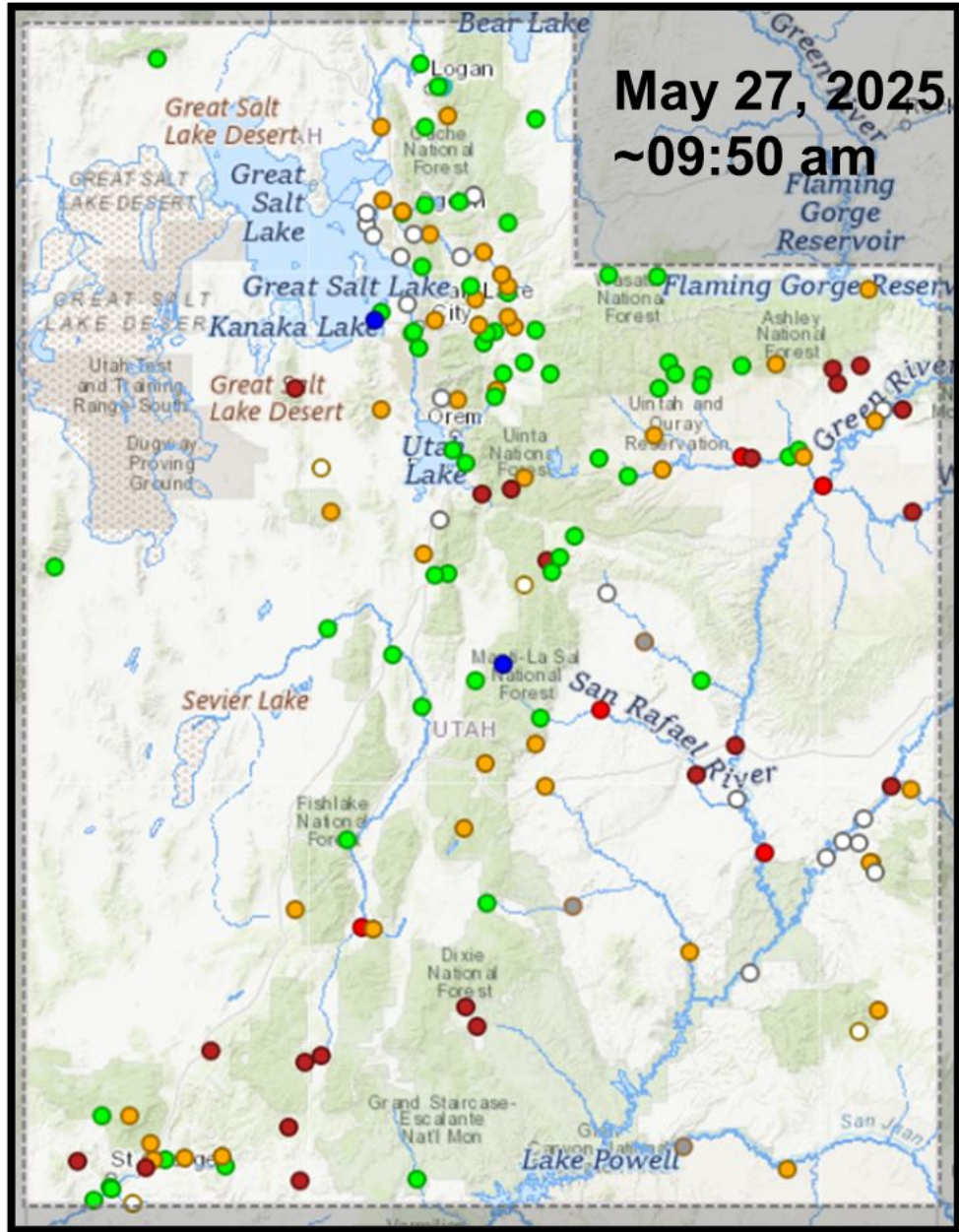


Observed:
Percent of Average

Percent Period Average



Current Streamflow Conditions



*Sites must have at least 10 years of streamflow record to be ranked on this graphic

Day-of-Year Status	May 6	May 27
All-time high for this day-of-year	0.6%	0.0%
Much above normal for this day-of-year	3.8%	1.3%
Above normal for this day-of-year	3.8%	0.6%
Normal for this day-of-year	53.5%	38.4%
Below normal for this day-of-year	15.9%	26.4%
Much below normal for this day-of-year	5.7%	13.8%
All-time low for this day-of-year	0.6%	3.1%
Not ranked - insufficient record	12.1%	13.2%
Not ranked - stream not flowing	1.9%	2.5%

Streamflow: Status

Above flood stage

All-time high for this day

Much above normal

Above normal

Normal

Below normal

Much below normal

All-time low for this day

Not flowing

Not ranked

Measurement flag

Recent measurement unavailable

100th percentile (maximum)

>90th percentile

76th – 90th percentile

25th – 75th percentile

10th – 24th percentile

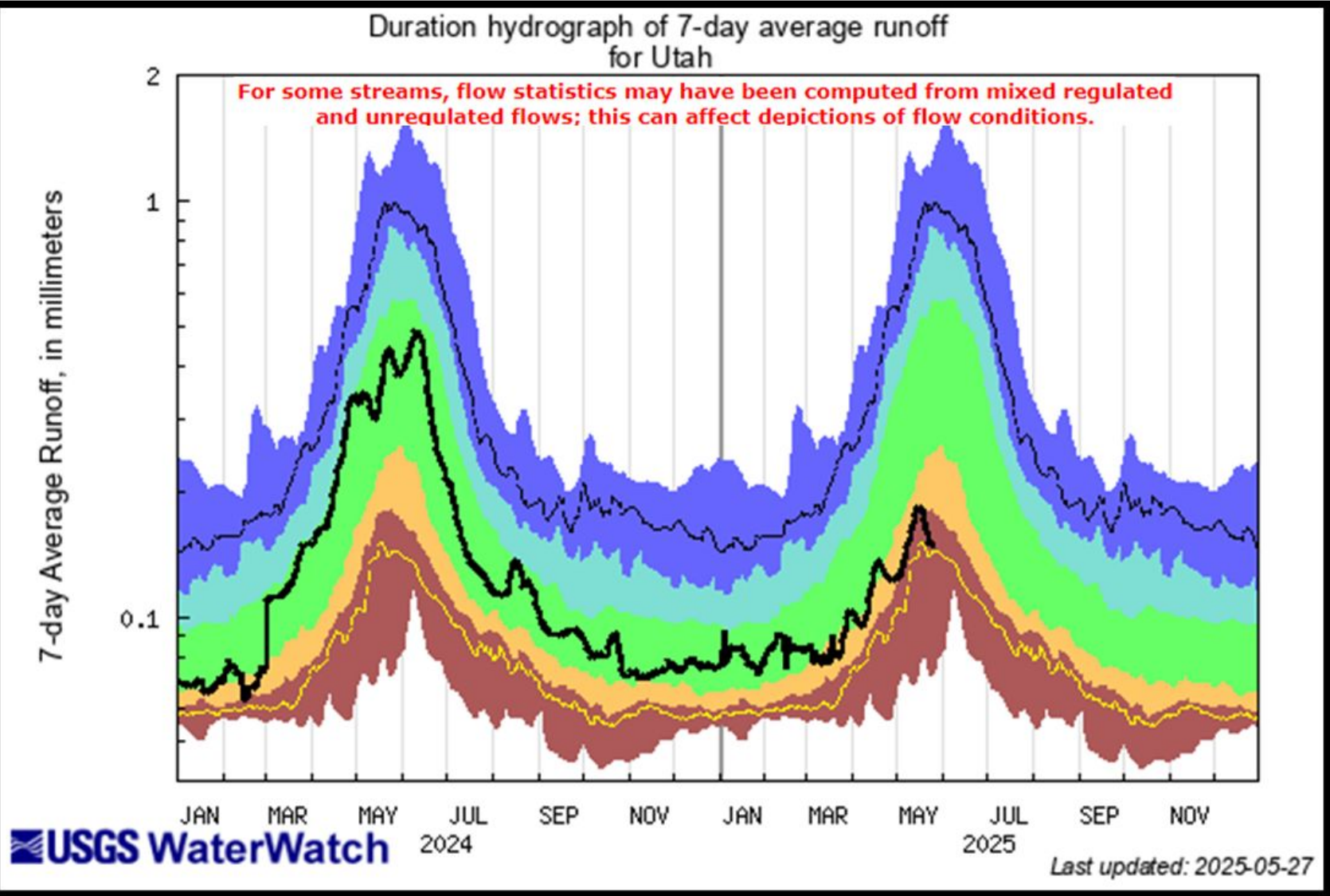
<10th percentile

0th percentile (minimum)

Provisional data, subject to revision

Agency - USGS Utah WSC
Presenter - Ryan Rowland

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.

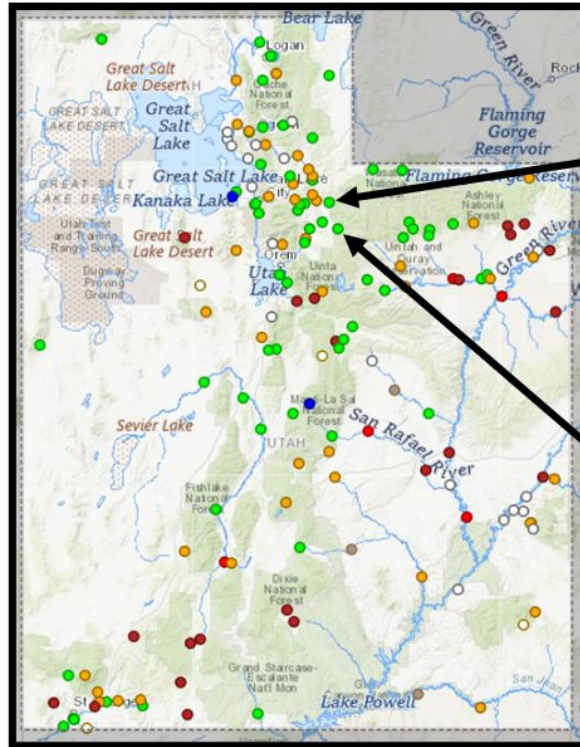
Provisional data,
subject to revision

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

Agency - USGS Utah WSC
Presenter - Ryan Rowland

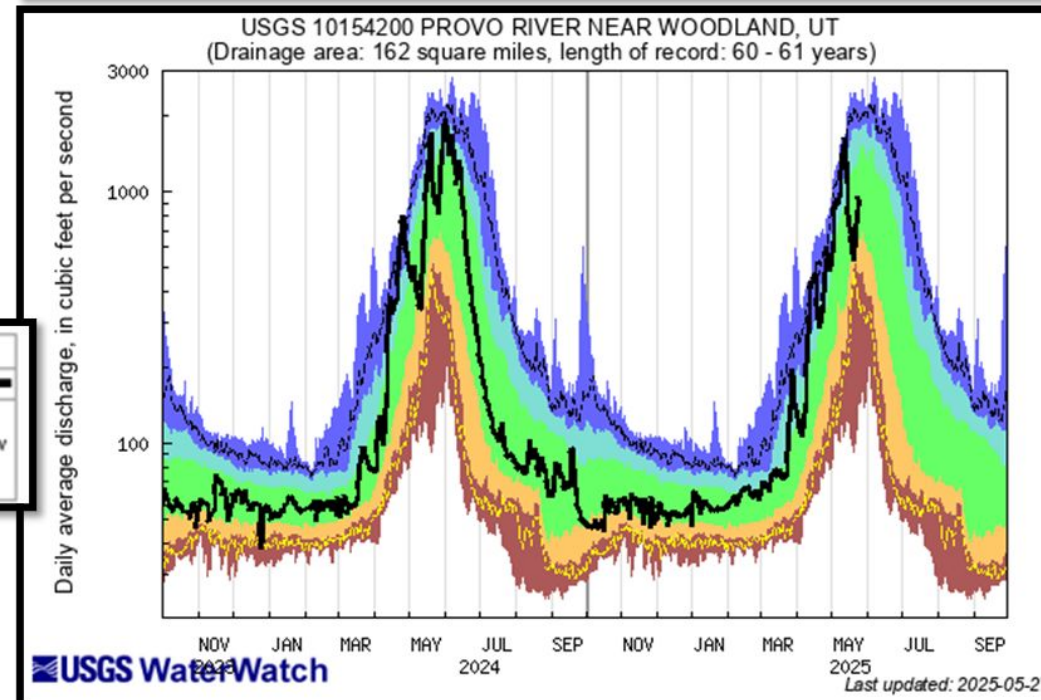
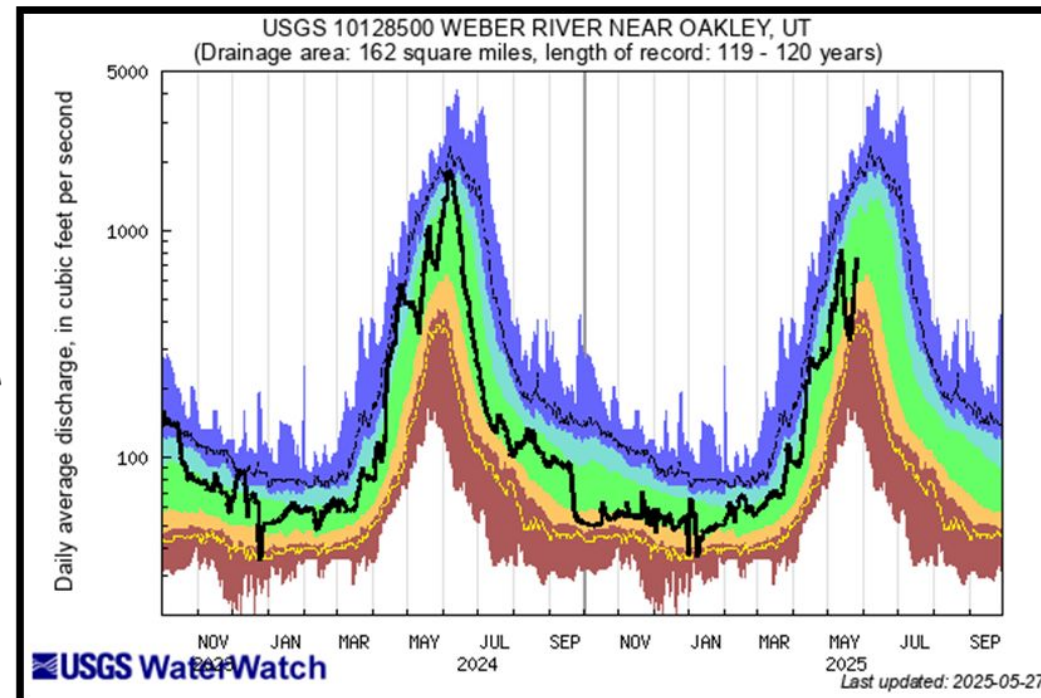


Streamflow at Selected Gages

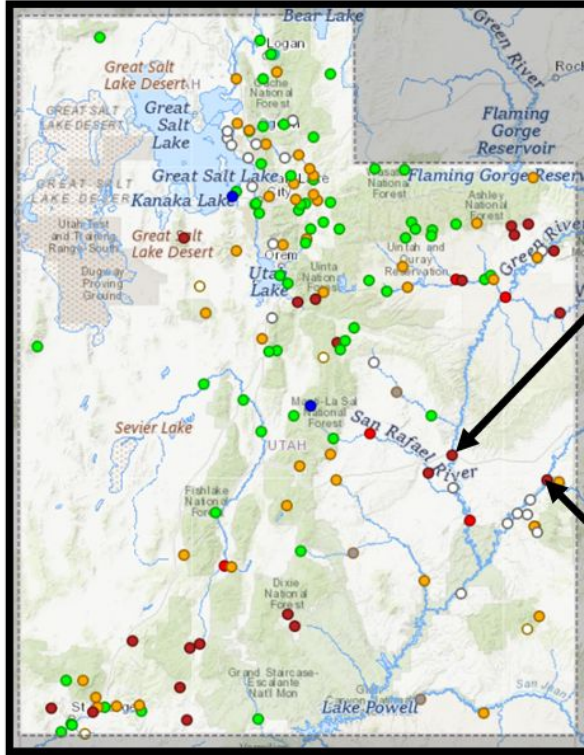


Explanation - Percentile classes							Flow
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile - highest	
Much below Normal	Below normal	Normal	Above normal	Much above normal			

Provisional data,
subject to revision

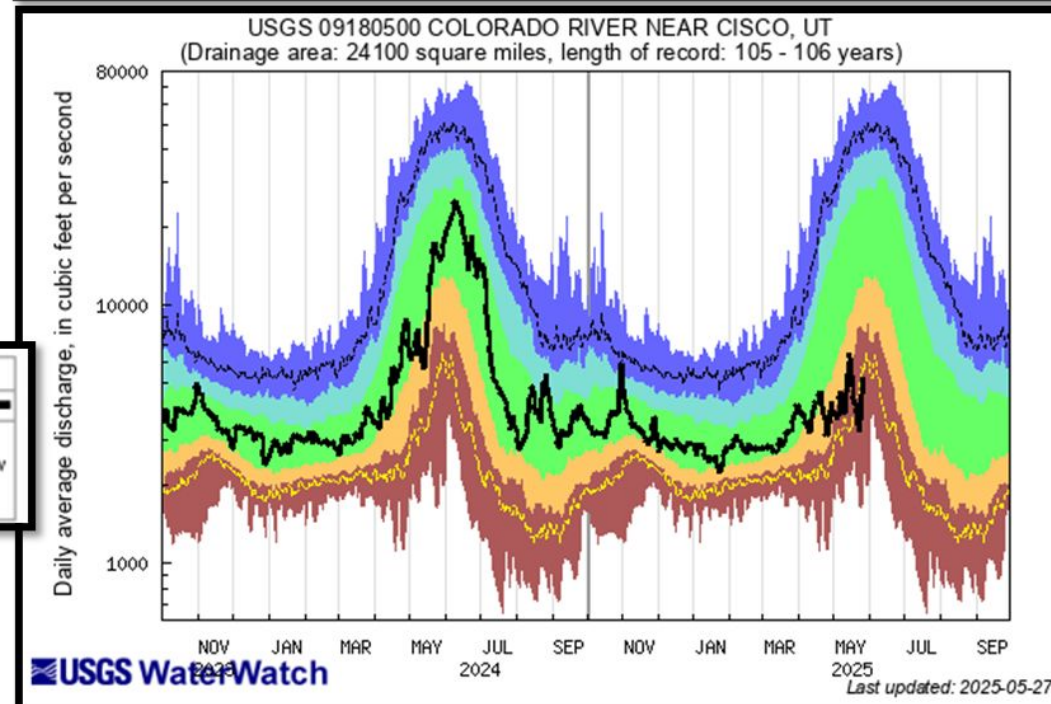
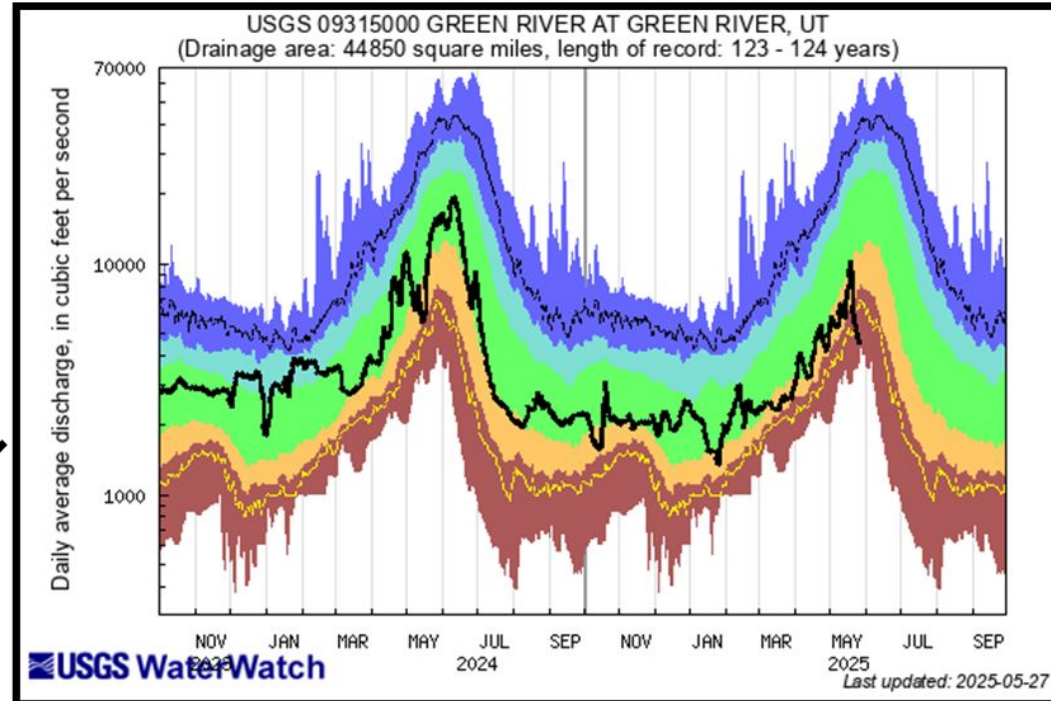


Streamflow at Selected Gages

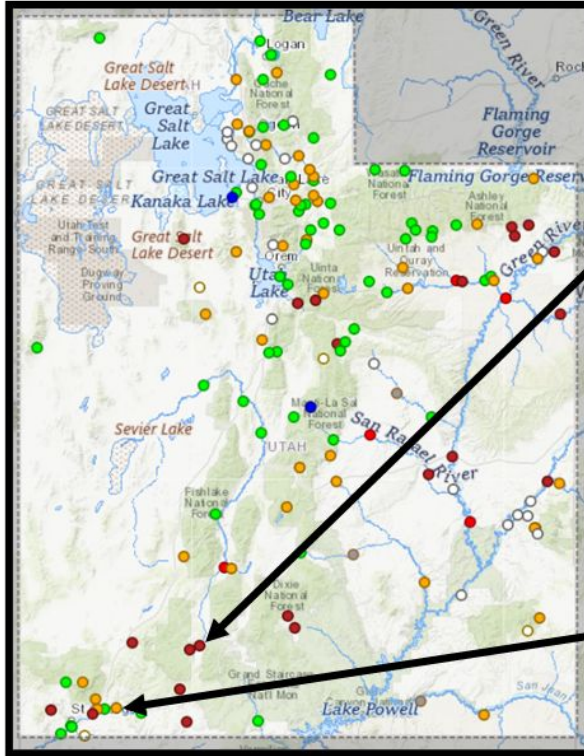


Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile-highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		
						Flow

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subject to revision

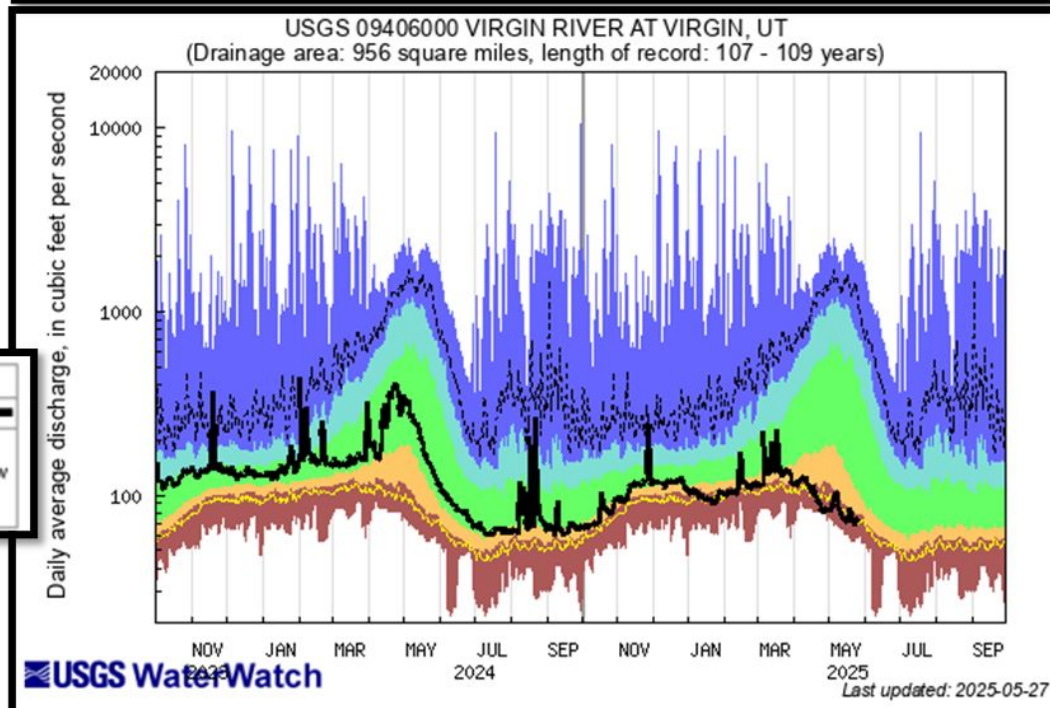
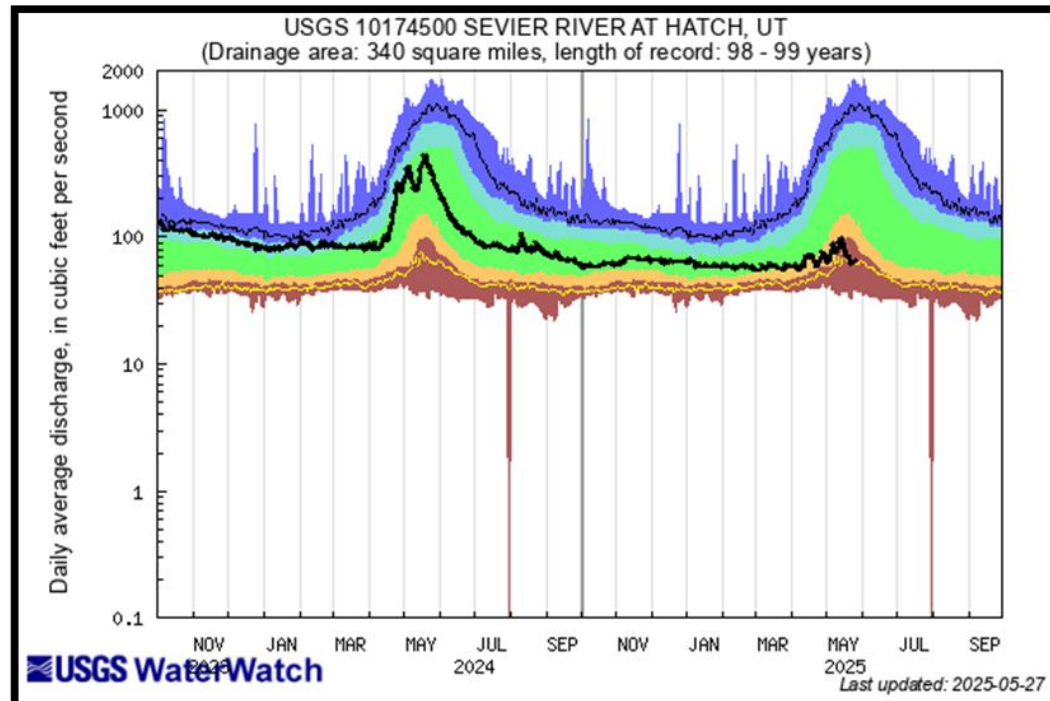


Streamflow at Selected Gages



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

Provisional data,
subject to revision



Great Salt Lake Water Surface Elevations

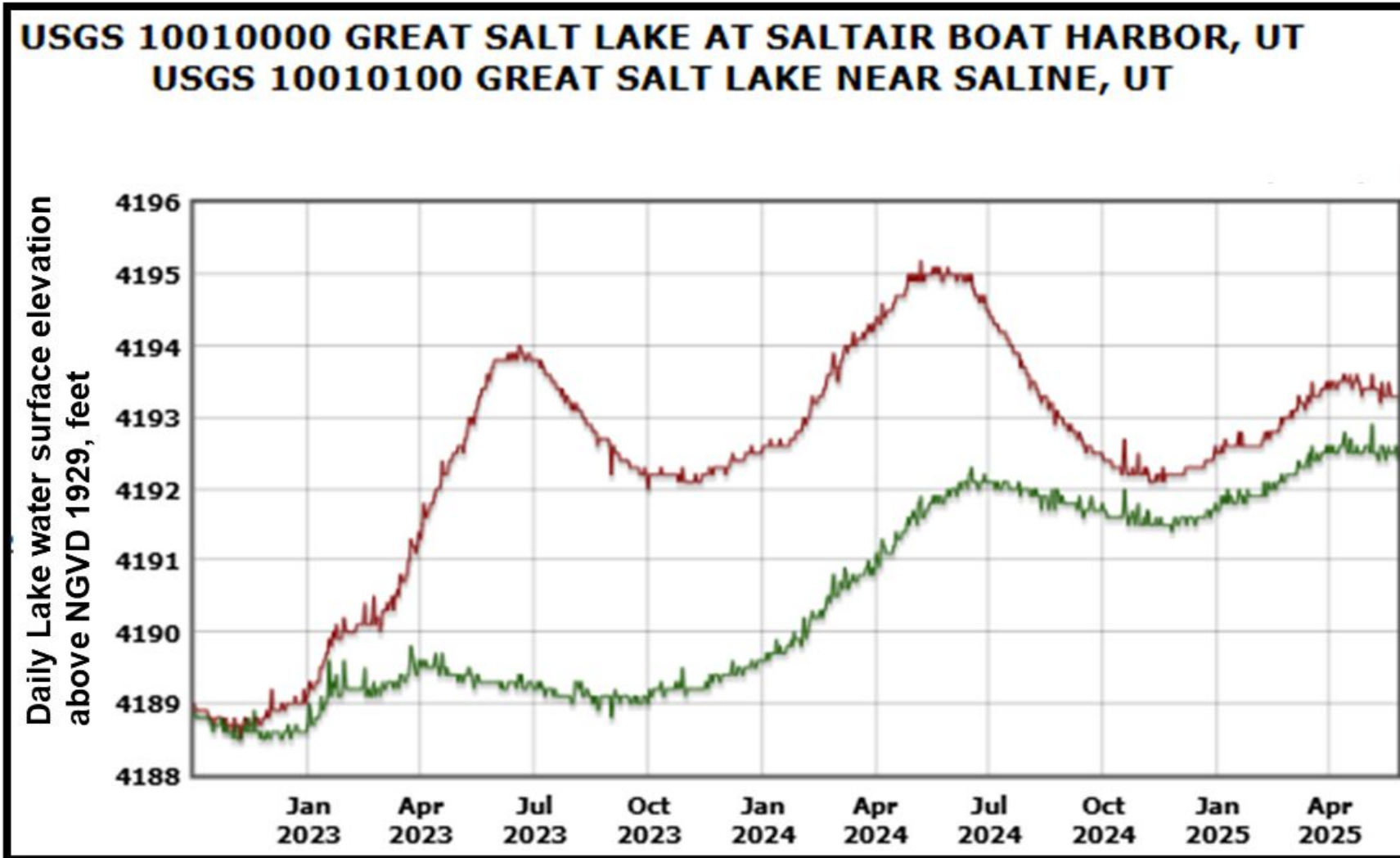
Daily Values
5/26/2025

❑ **South Arm:**
4,193.3'

❑ **Down 0.3'**
since
seasonal
peak Apr.
2025

❑ **North Arm:**
4,192.4'

❑ **Down 0.5'**
since
seasonal
peak in May
2025



Explanation

- ✓ — USGS 10010000 (Mean)
- ✓ — USGS 10010100 (Mean), elevation

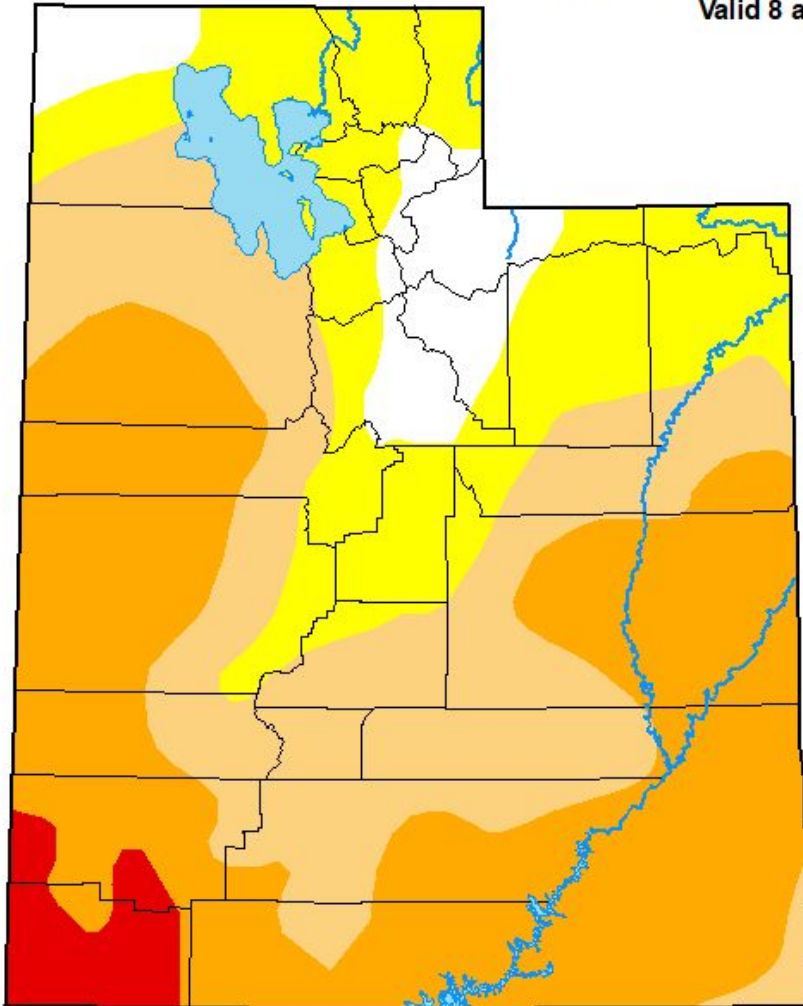
Provisional data,
subject to revision

U.S. Drought Monitor Utah

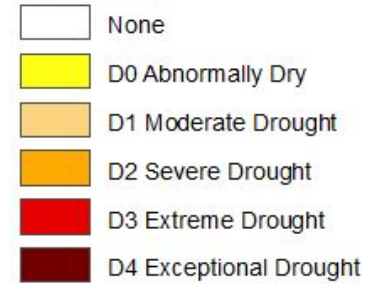
May 20, 2025

(Released Thursday, May. 22, 2025)

Valid 8 a.m. EDT



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:

Rocky Bilotta
NCEI/NOAA



droughtmonitor.unl.edu

To report on conditions between meetings:

Submit a report on CMOR drought website

Email Lhaskell@utah.gov

email drought@utah.gov