Utah Water Conditions
(drought webinar)

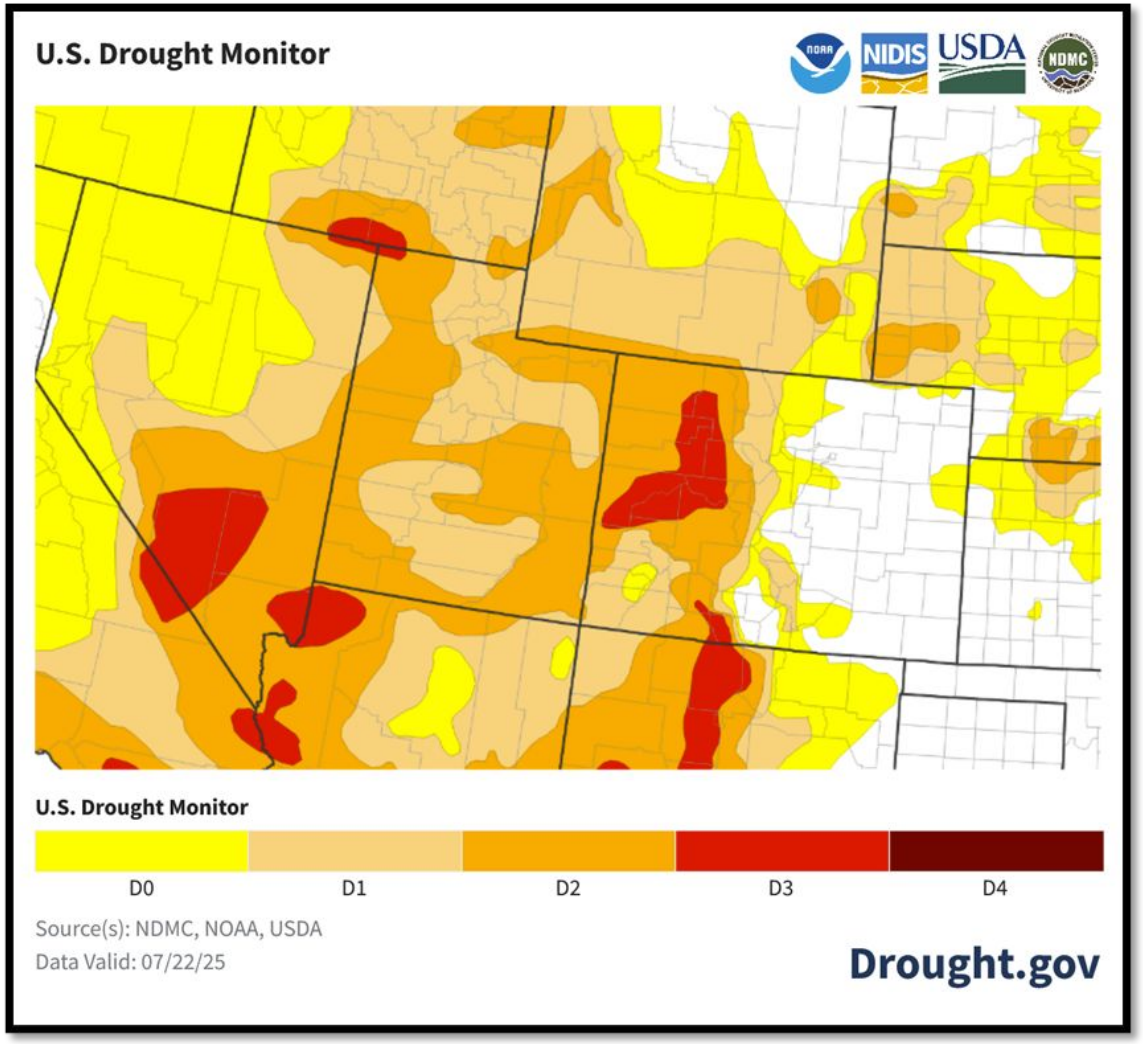
The meeting will begin shortly

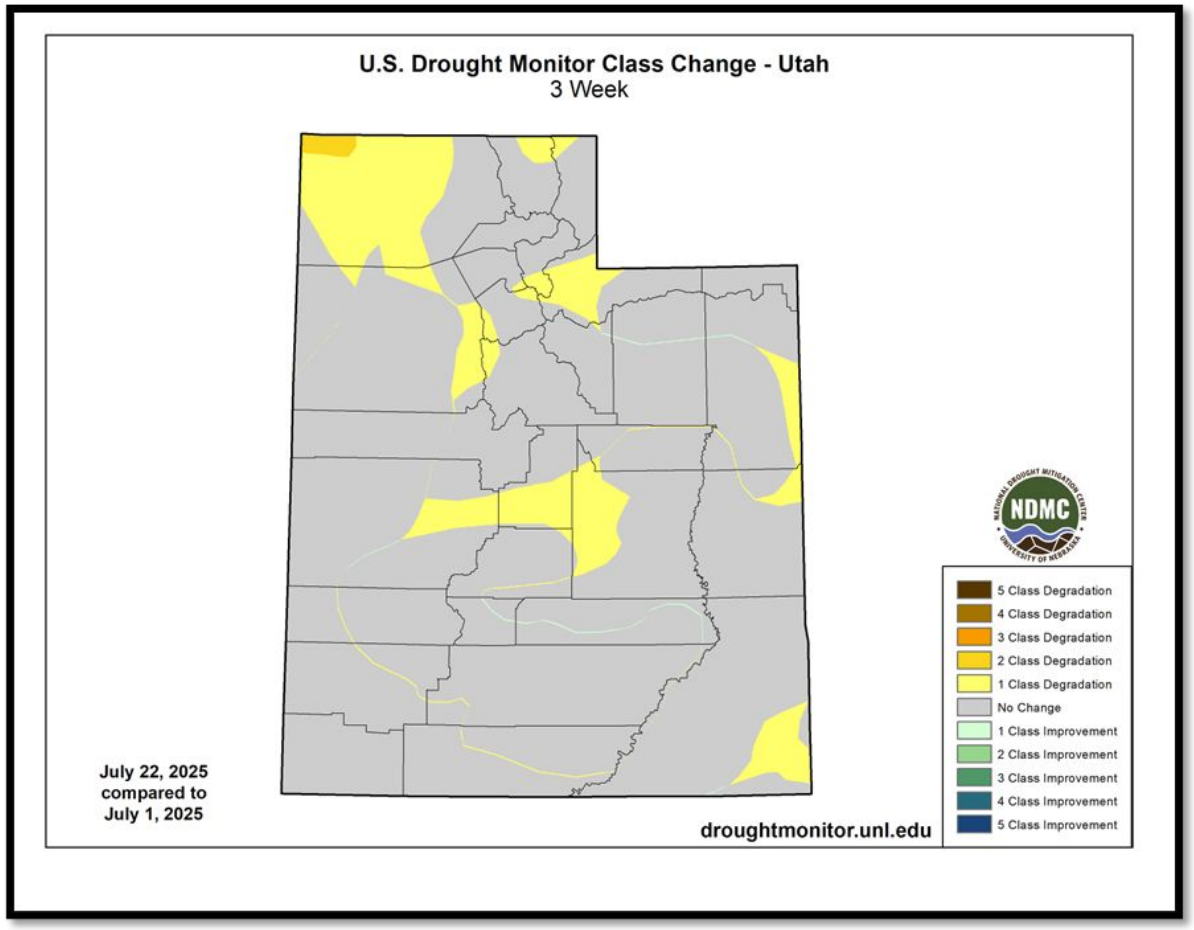
Thank you to our contributors

Utah Water Conditions Update

July 29, 2025

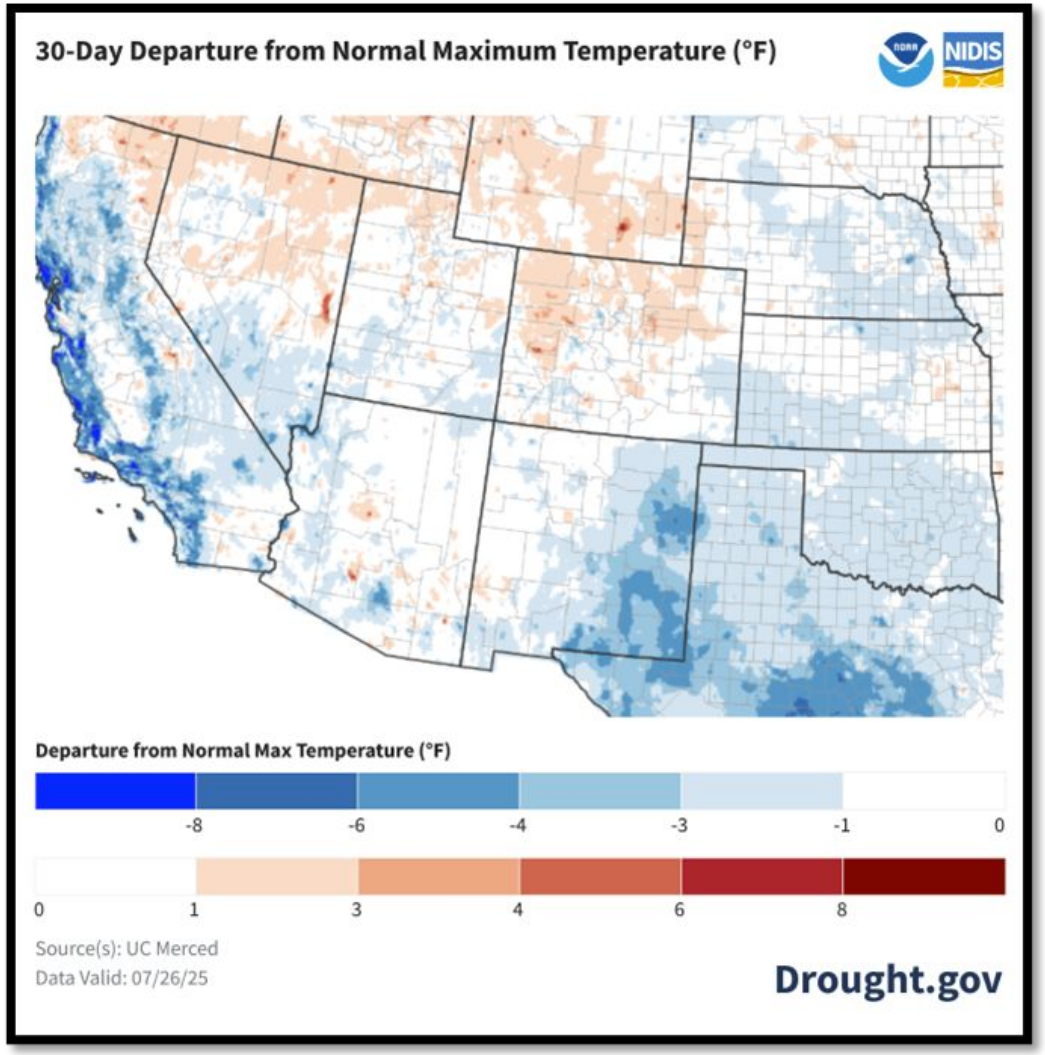
Current Drought Conditions

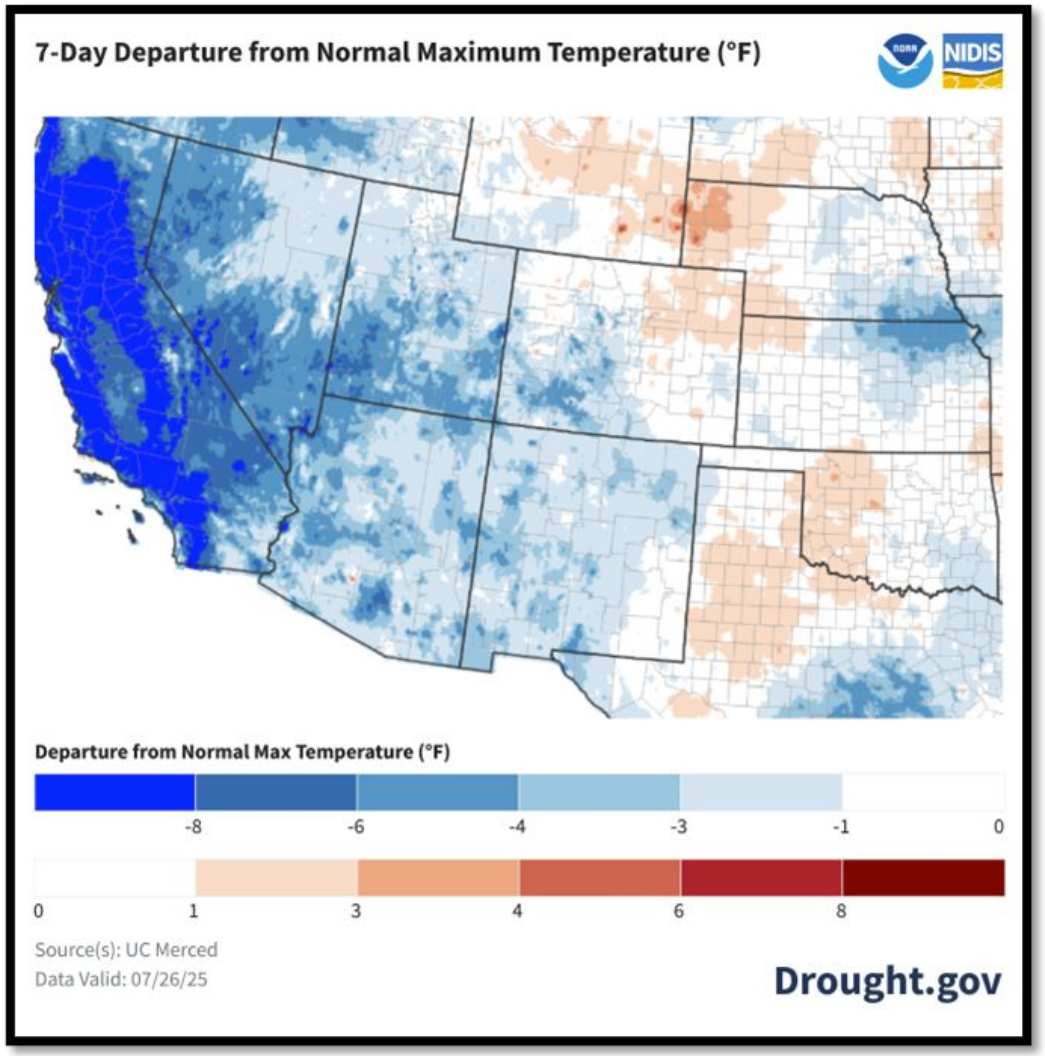




Agency - Utah Climate Center
Presenter - Jon Meyer

Temperature Summary





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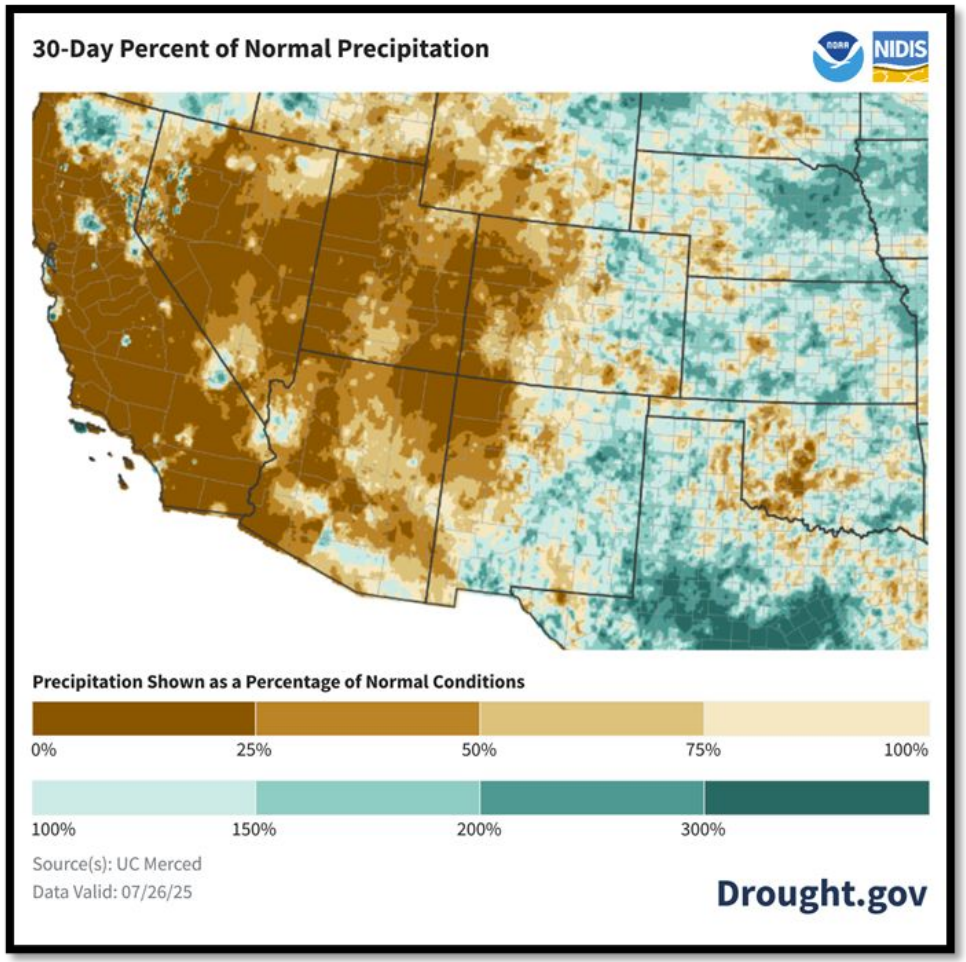
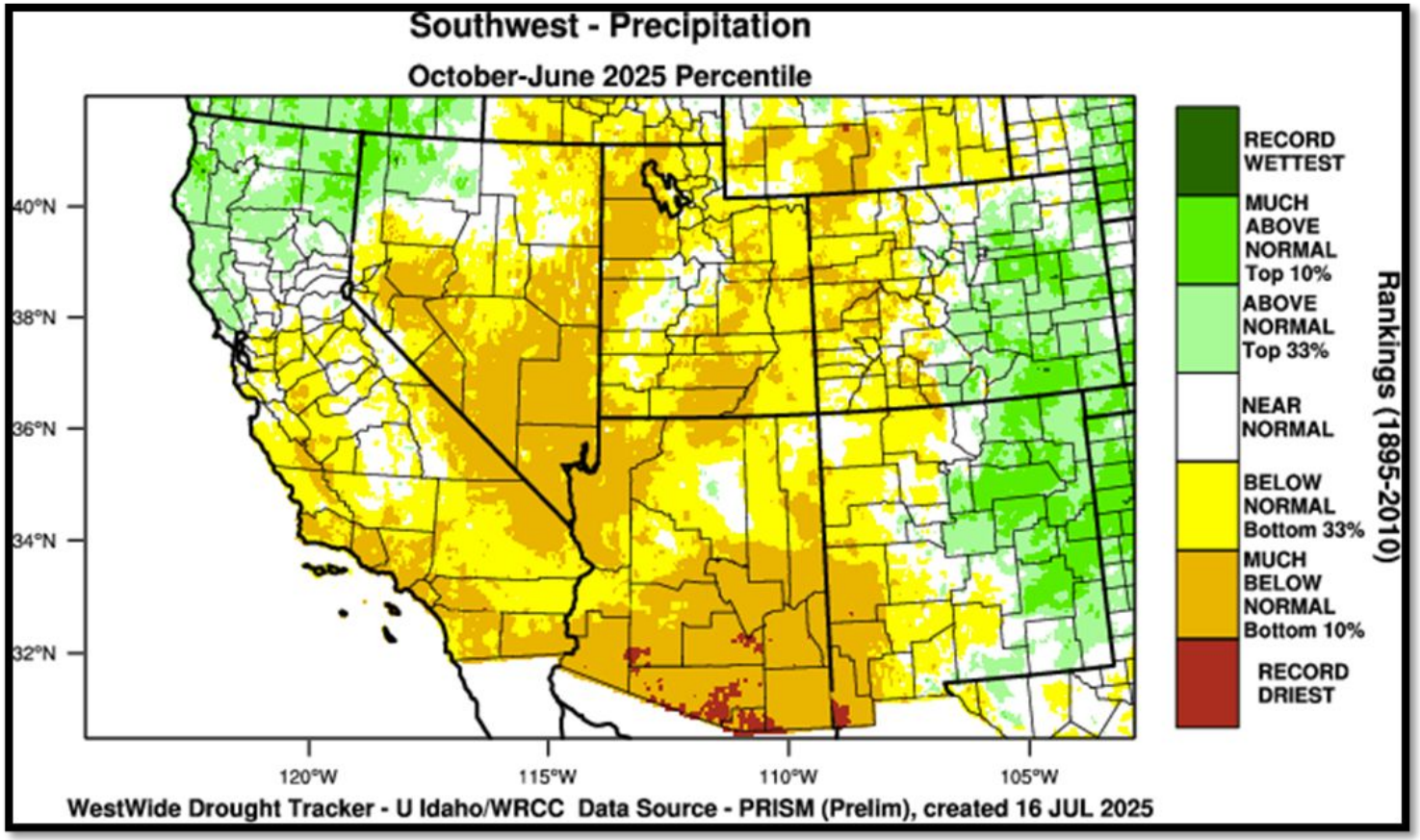
Precipitation Summary





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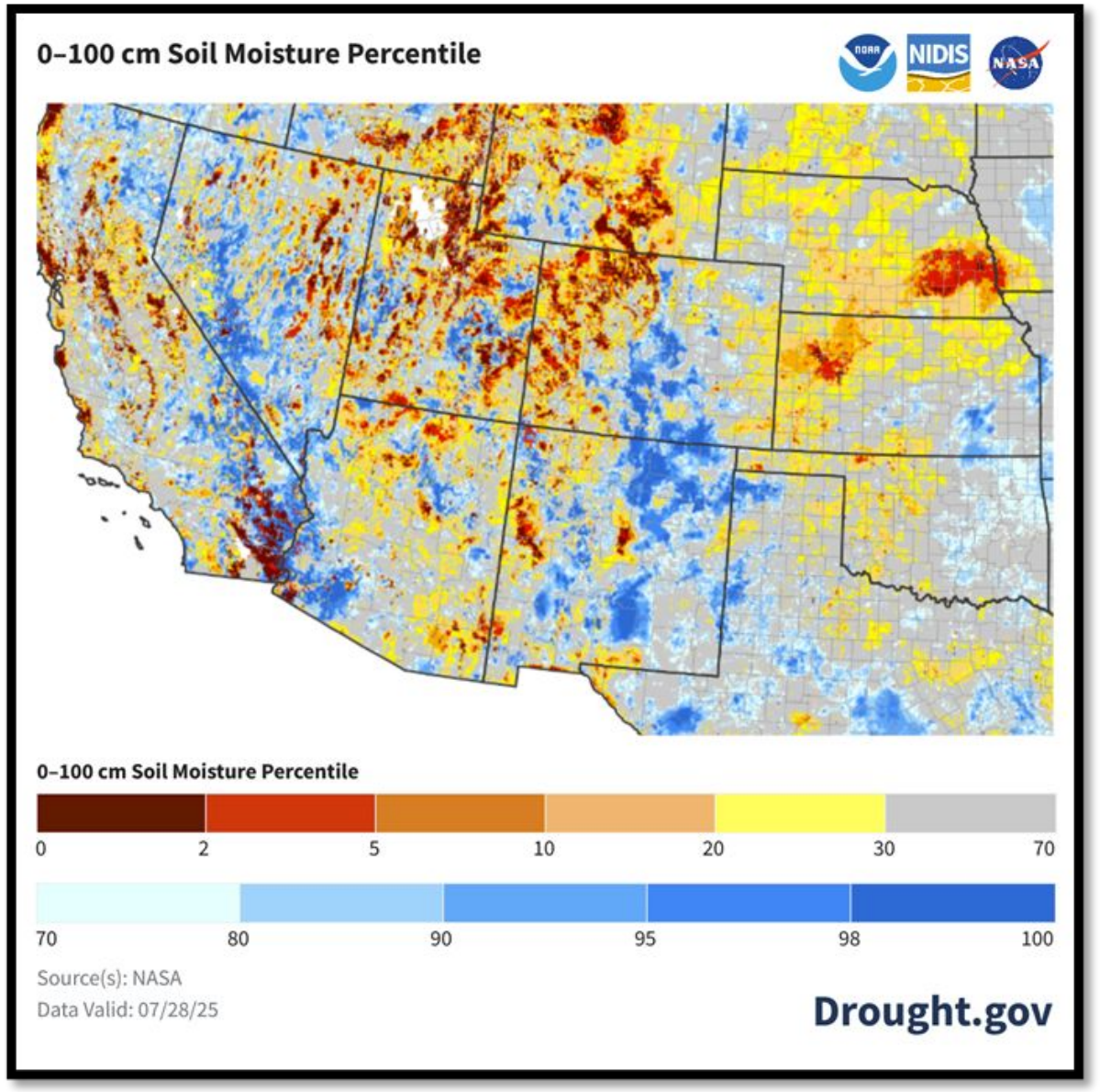
NASA SpoRT Soil Moisture (modeled + observed)



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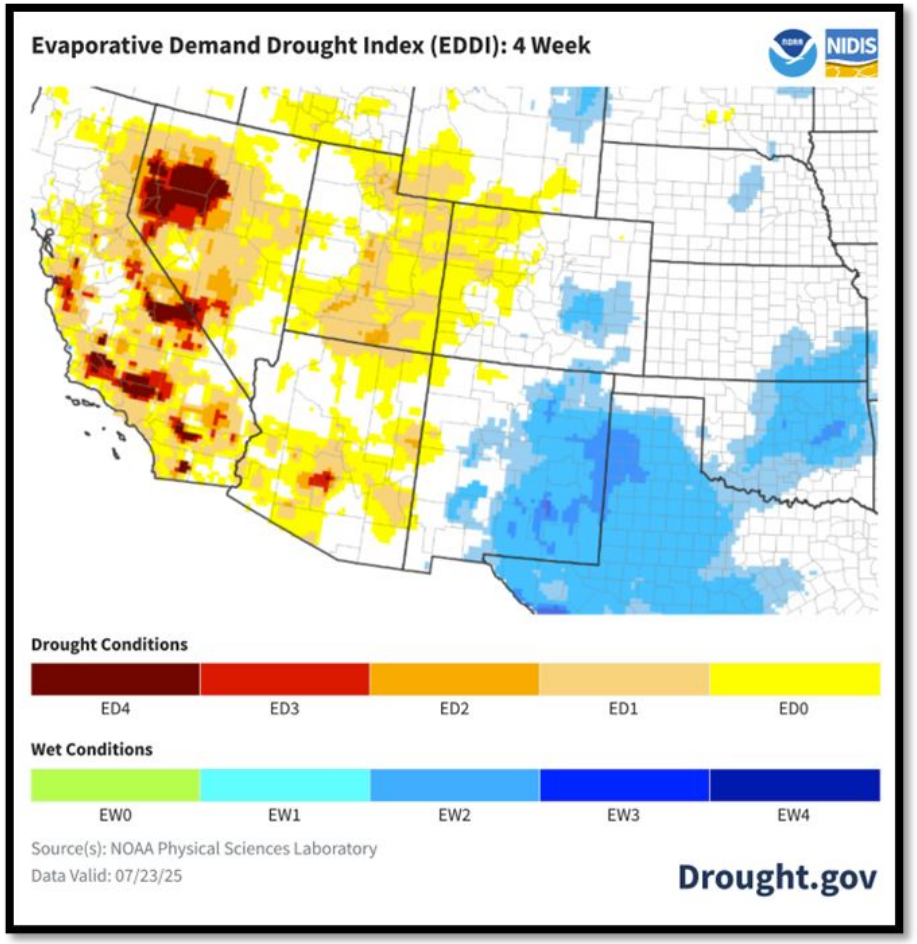
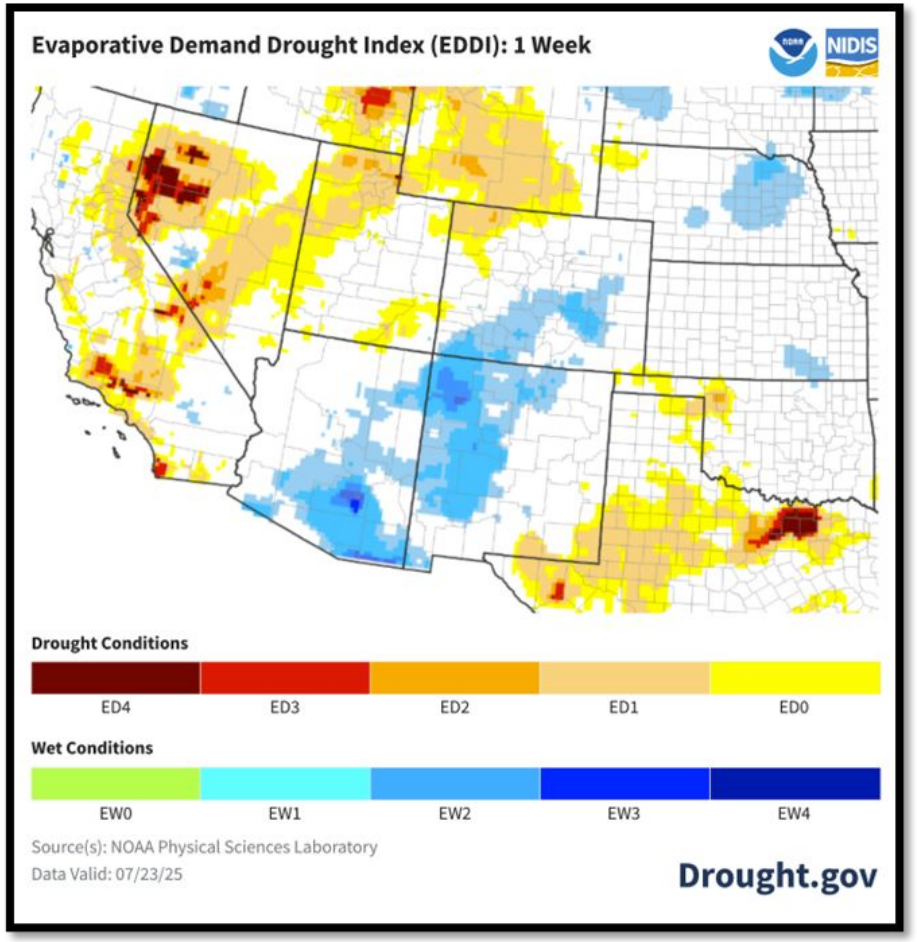
Evaporative Demand





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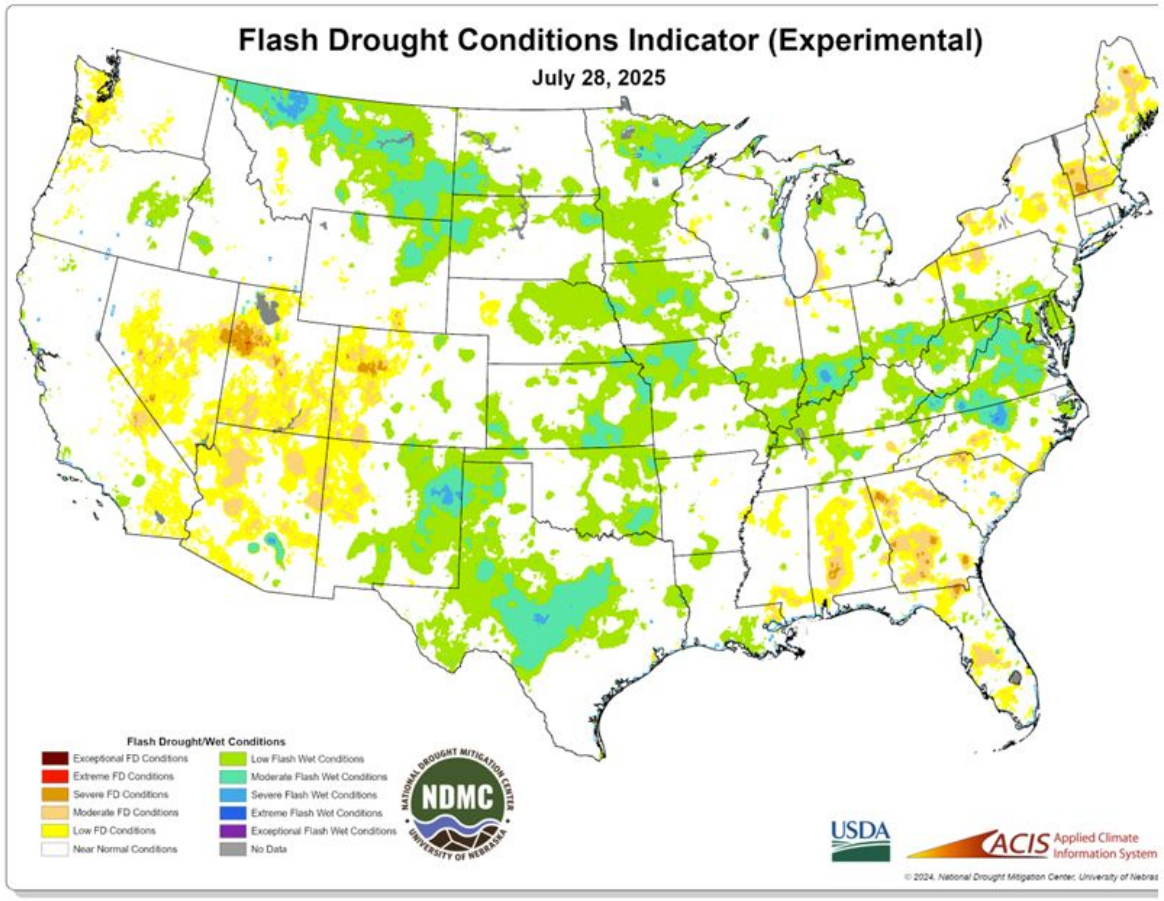
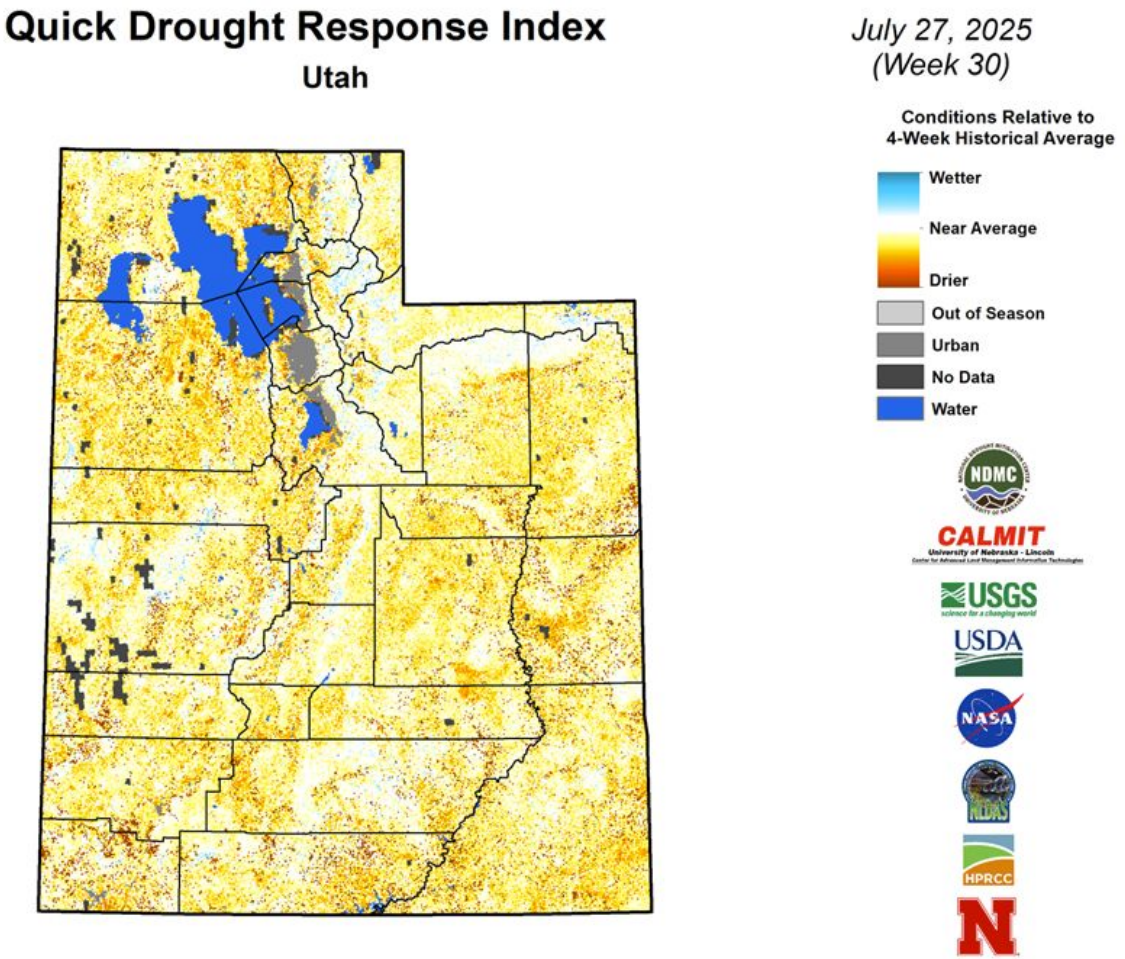
Presenter - Jon Meyer

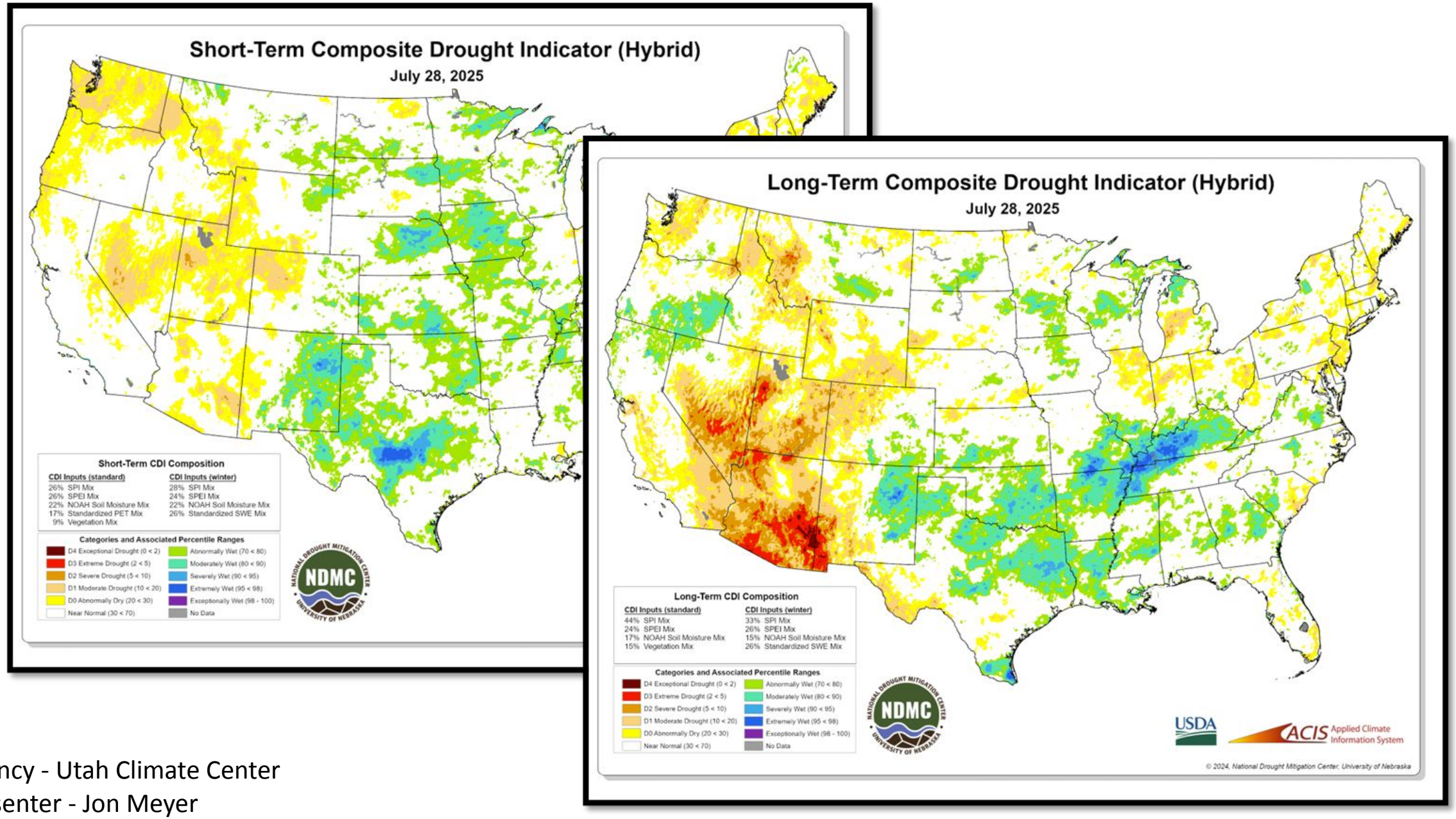
Quick Dri





Agency - Utah Climate Center
Presenter - Jon Meyer

Drought Composite Blends



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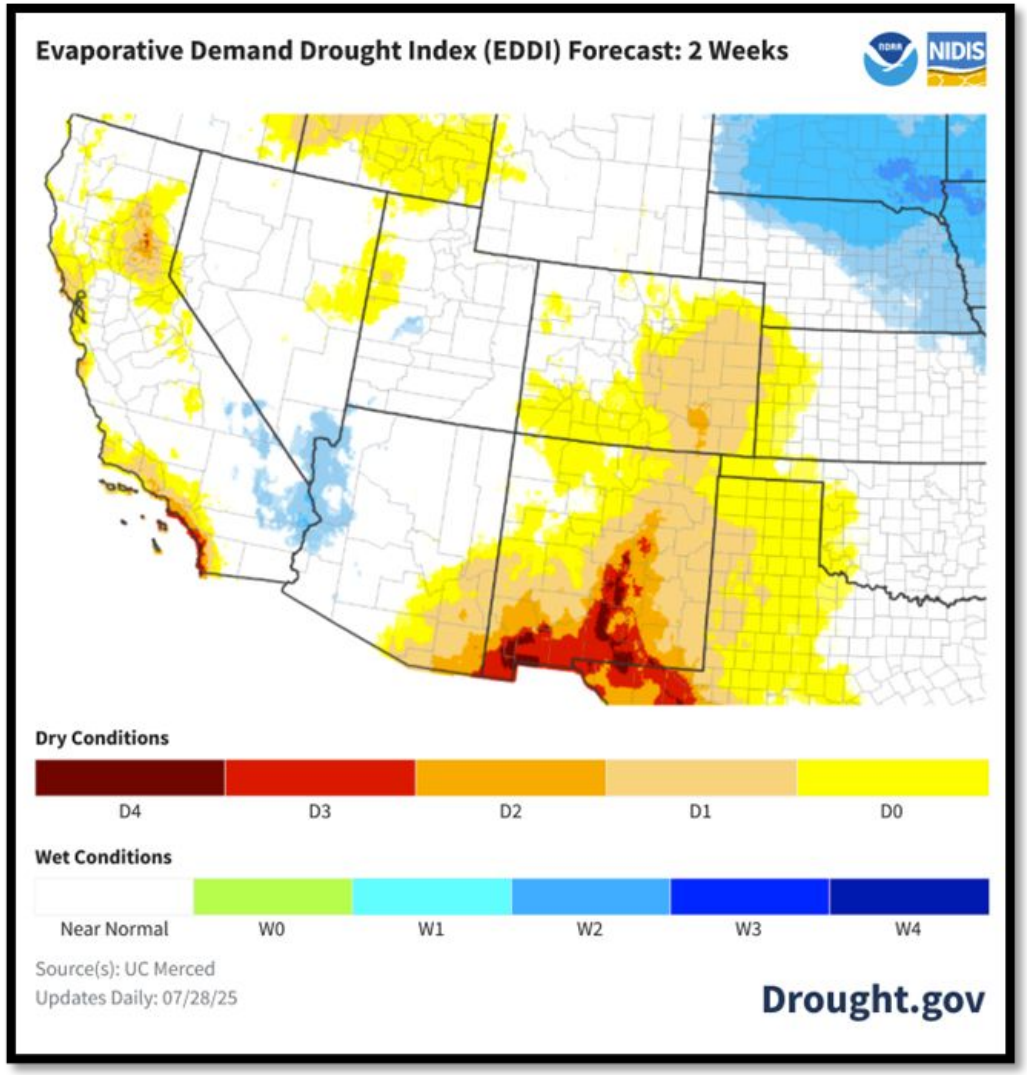
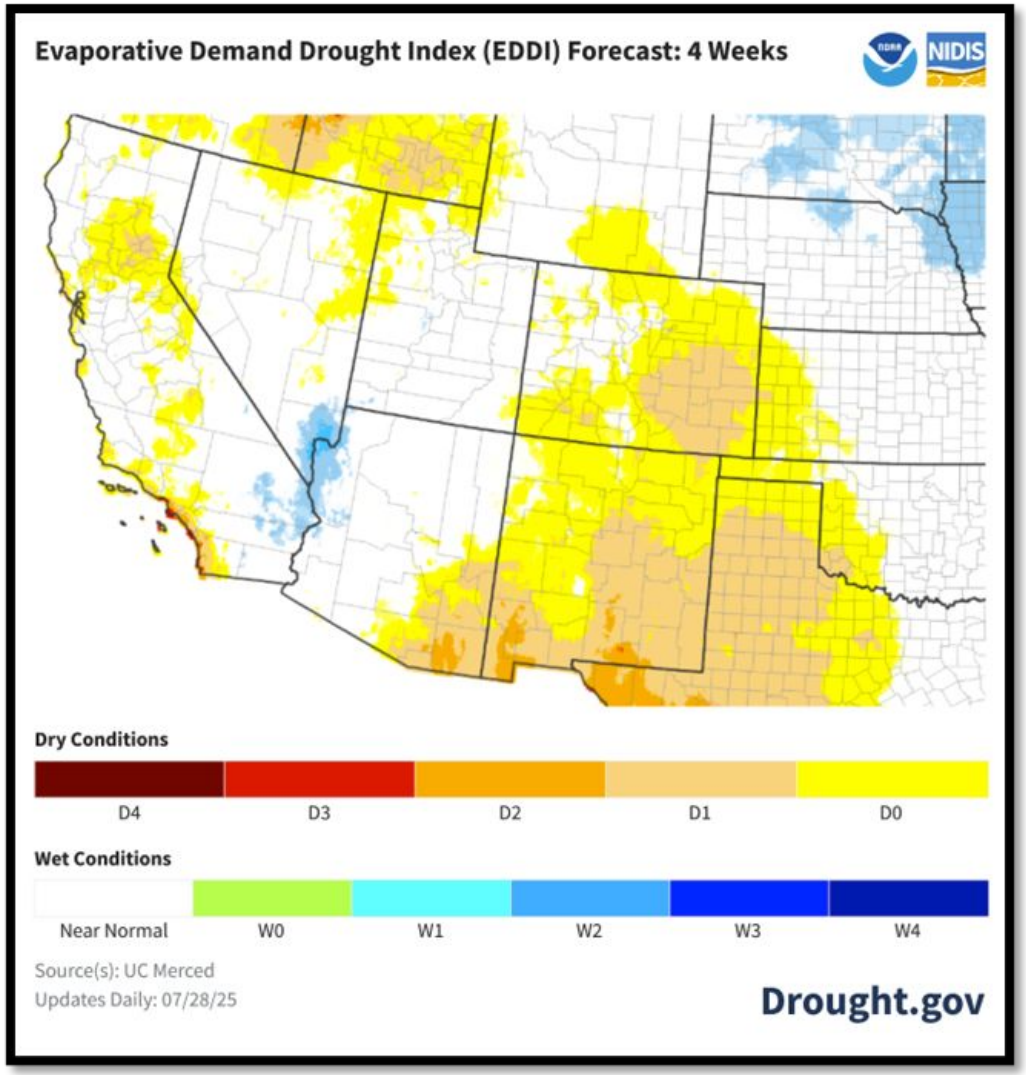
Presenter - Jon Meyer

EDDI Forecasts





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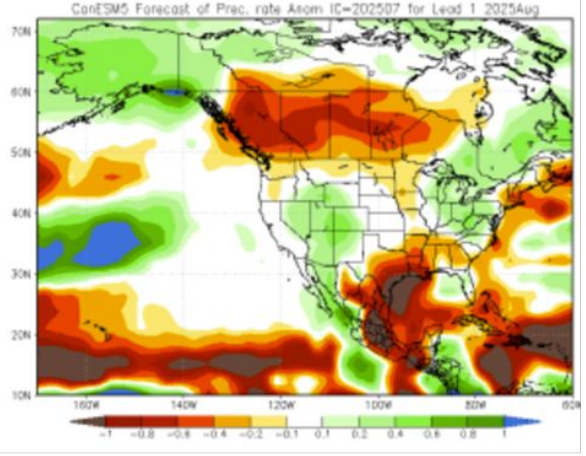
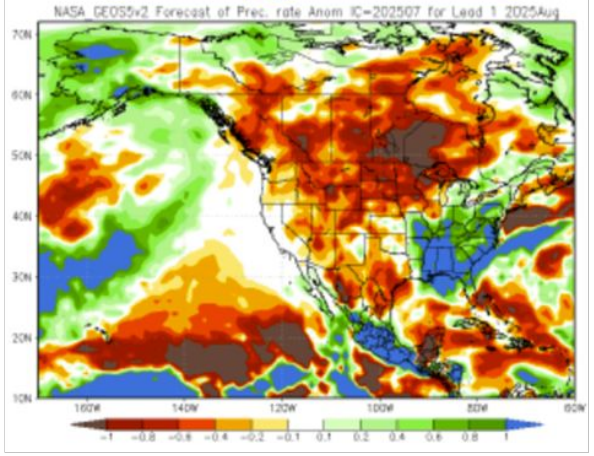
Presenter - Jon Meyer

North American Multi-Model Ensemble (NMME)

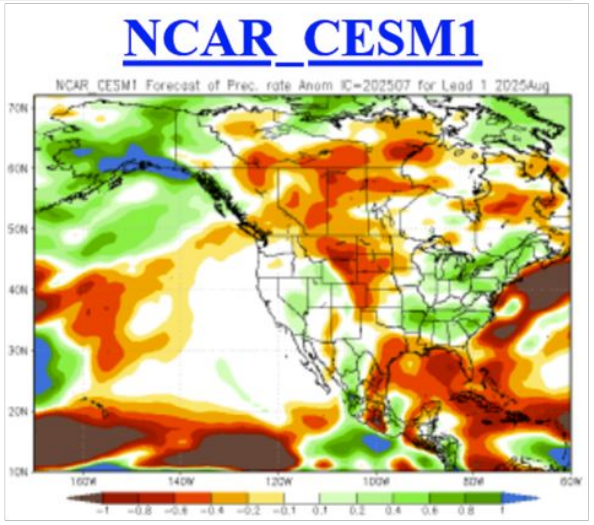
CanESM5



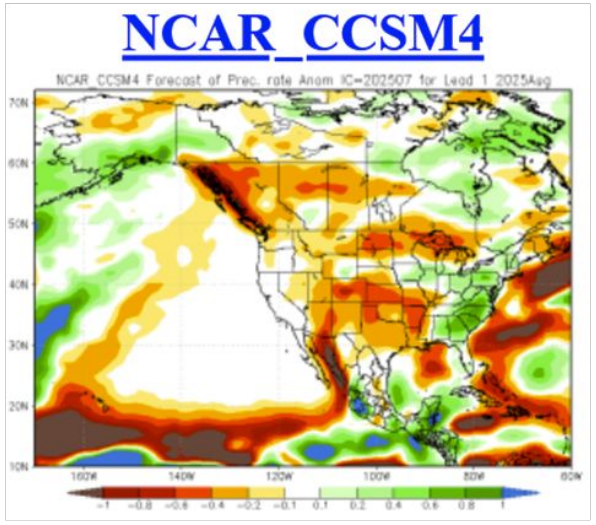
NASA_GEOS5v2



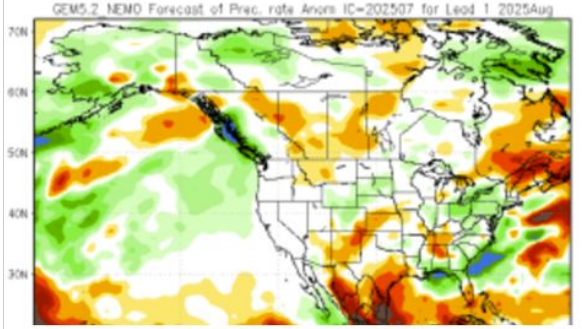
NCAR_CESM1



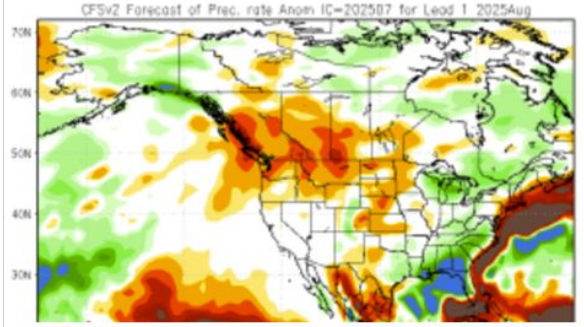
NCAR_CCSM4



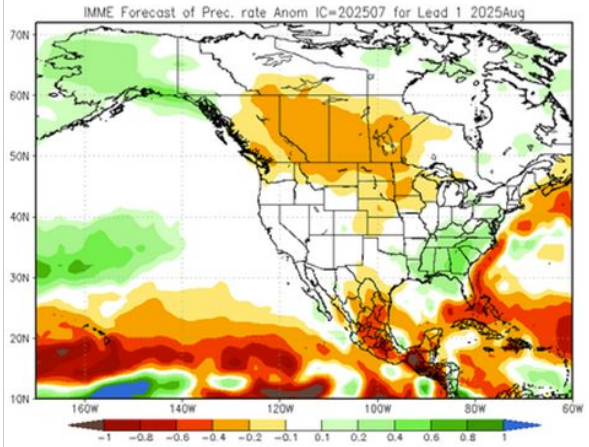
GEM5.2_NEMO



NCEP_CFSv2

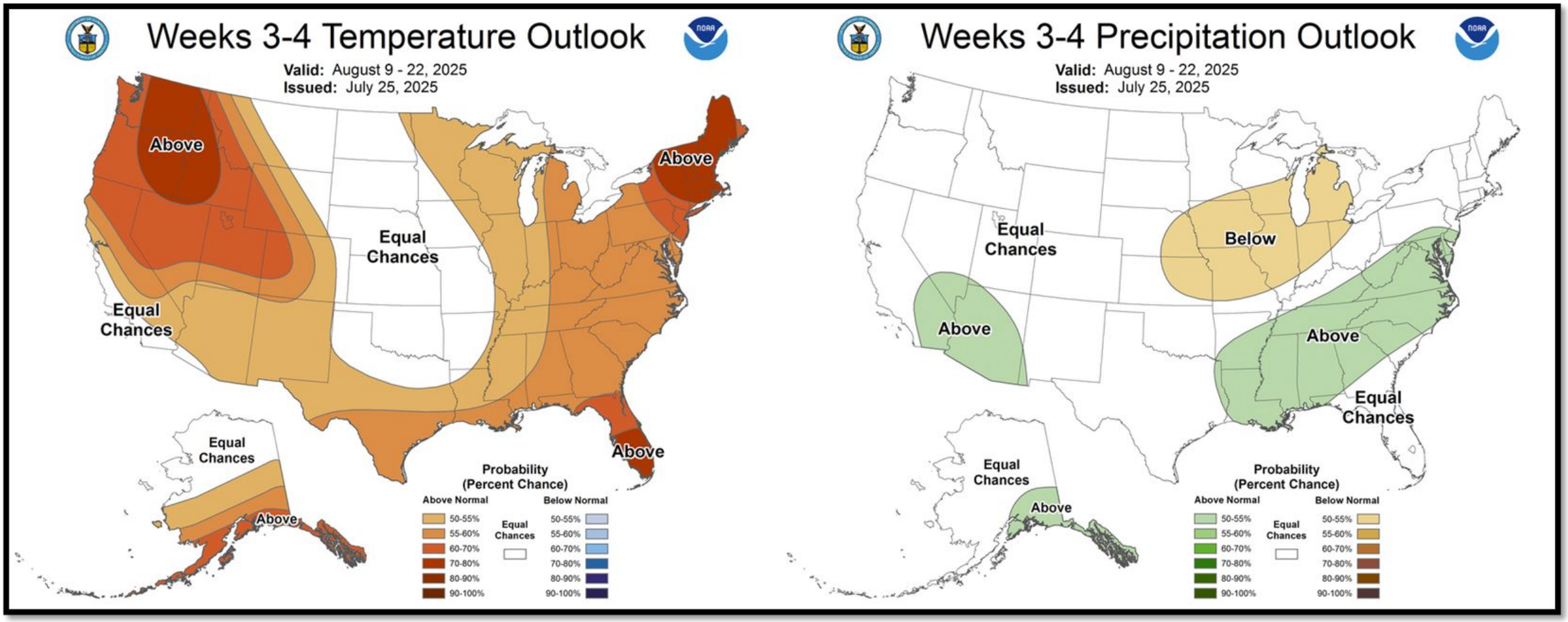


IMME



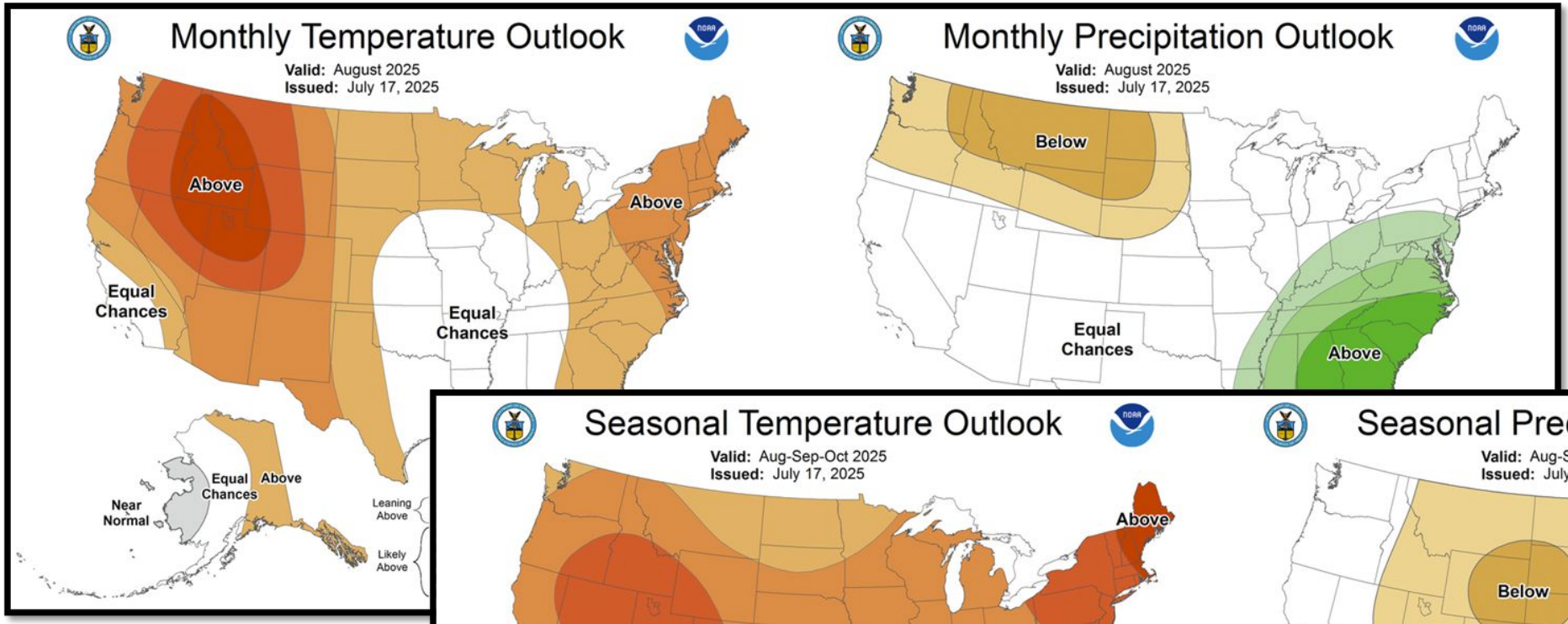
Agency - Utah Climate Center
Presenter - Jon Meyer

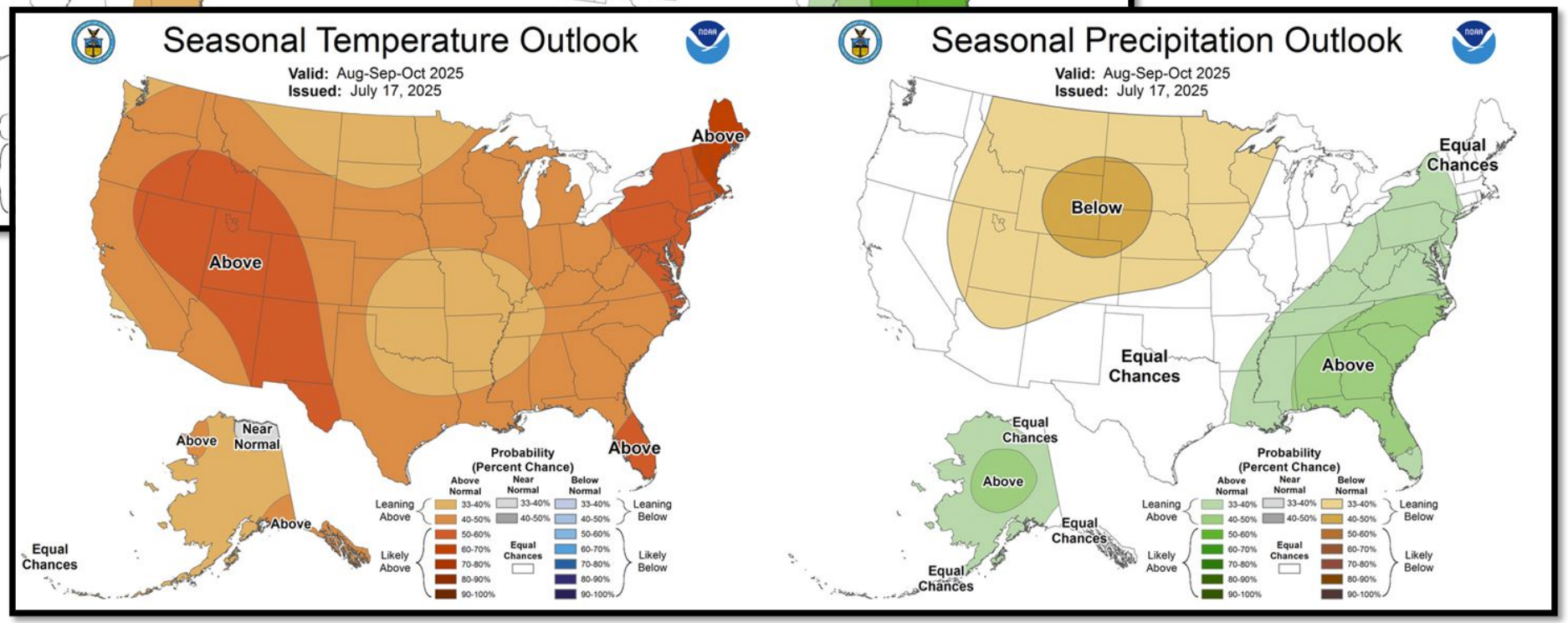
Climate Prediction Center Outlook



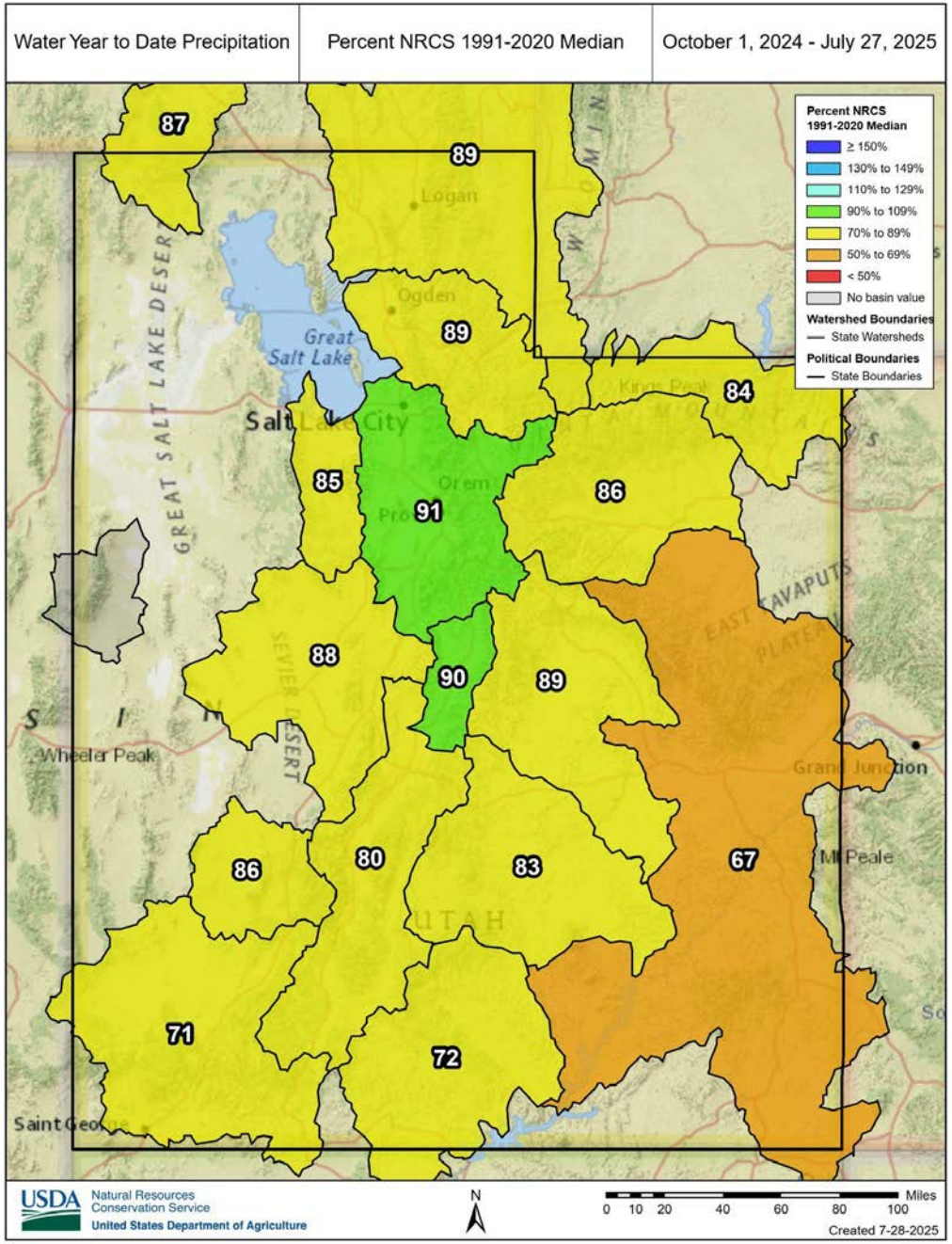
Agency - Utah Climate Center
Presenter - Jon Meyer

Climate Prediction Center Outlook

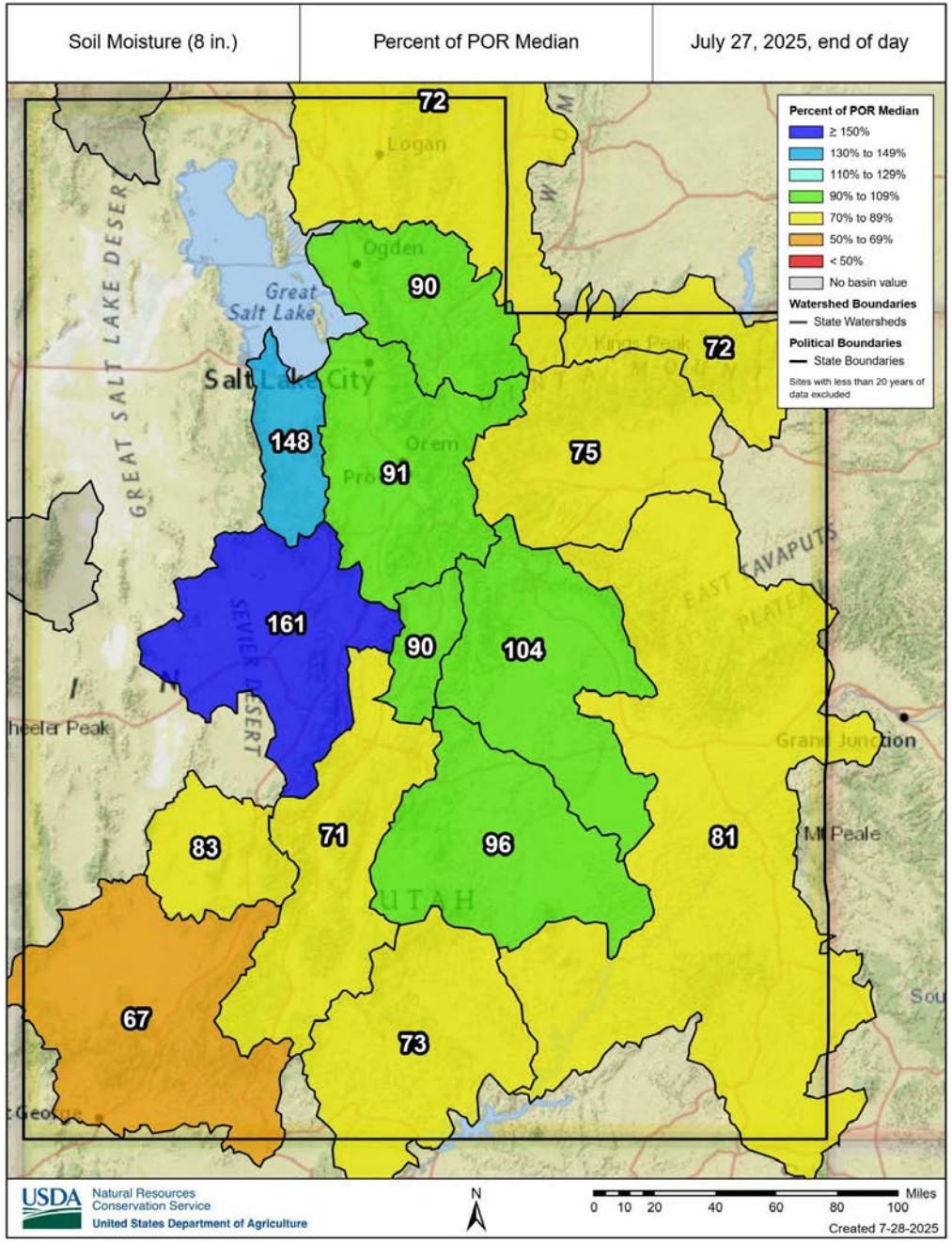


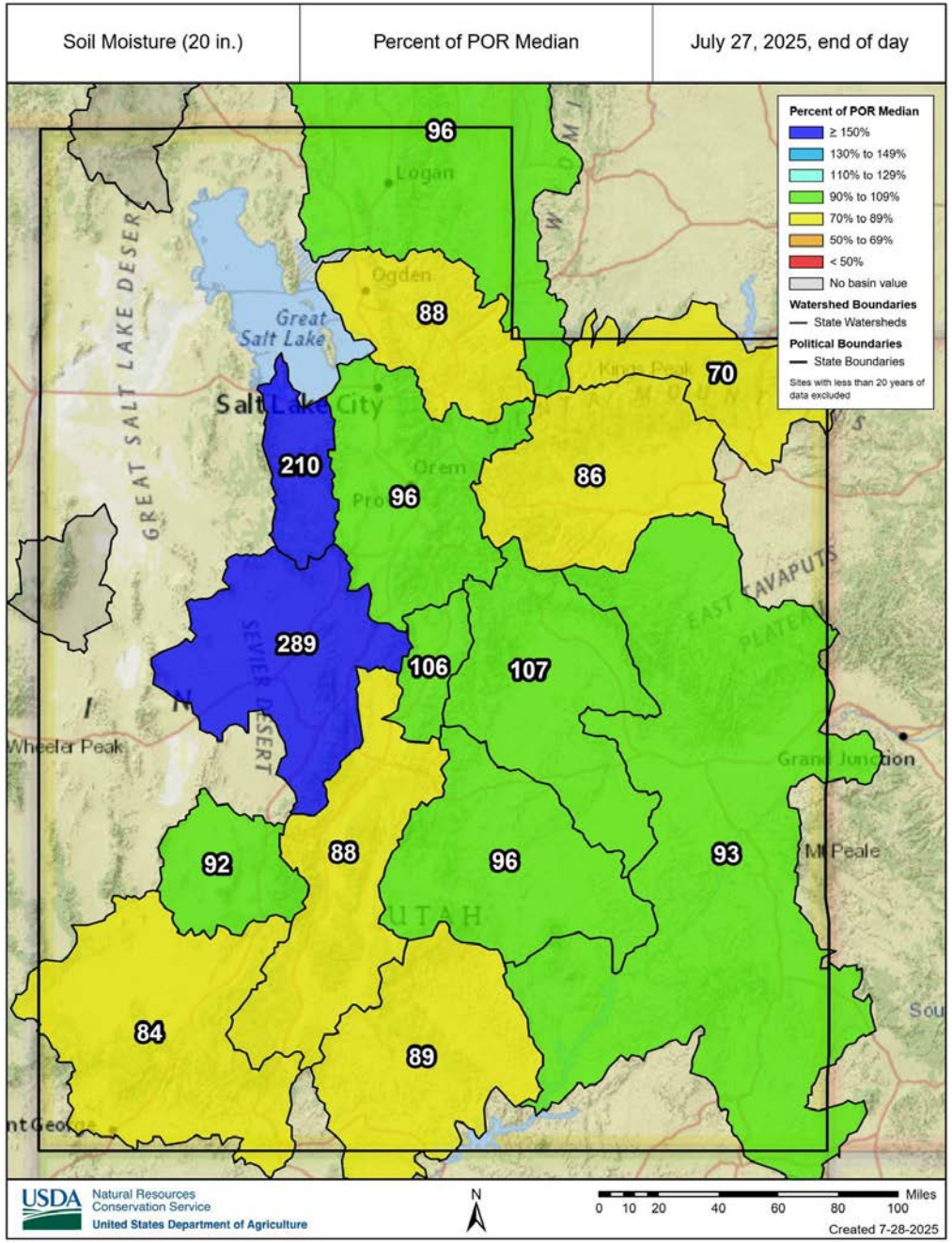


Agency - Utah Climate Center
Presenter - Jon Meyer

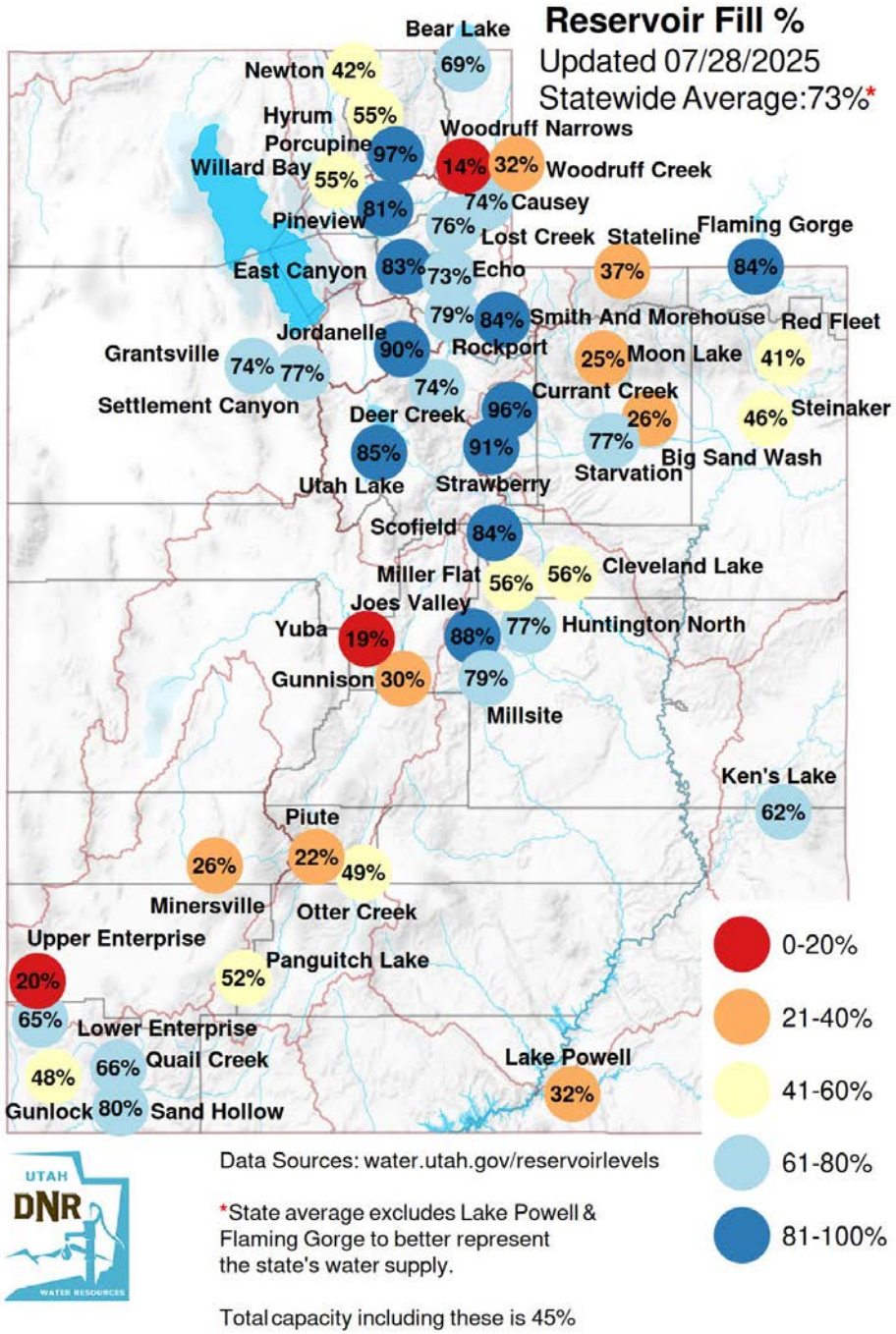


Agency -
Presenter -





NRCS
Presenter -



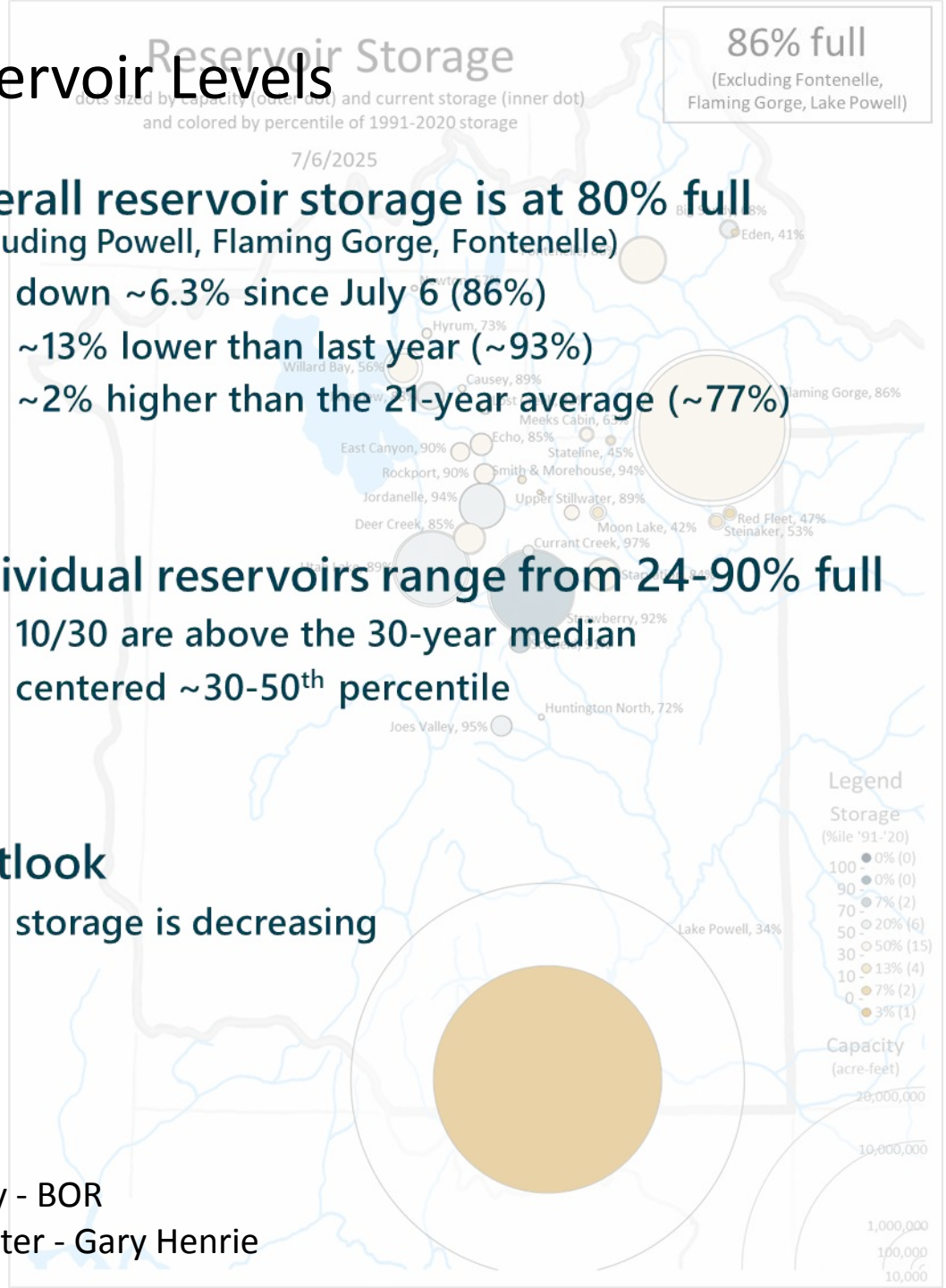
Agency - Division of Water Resources
Presenter - Laura Haskell

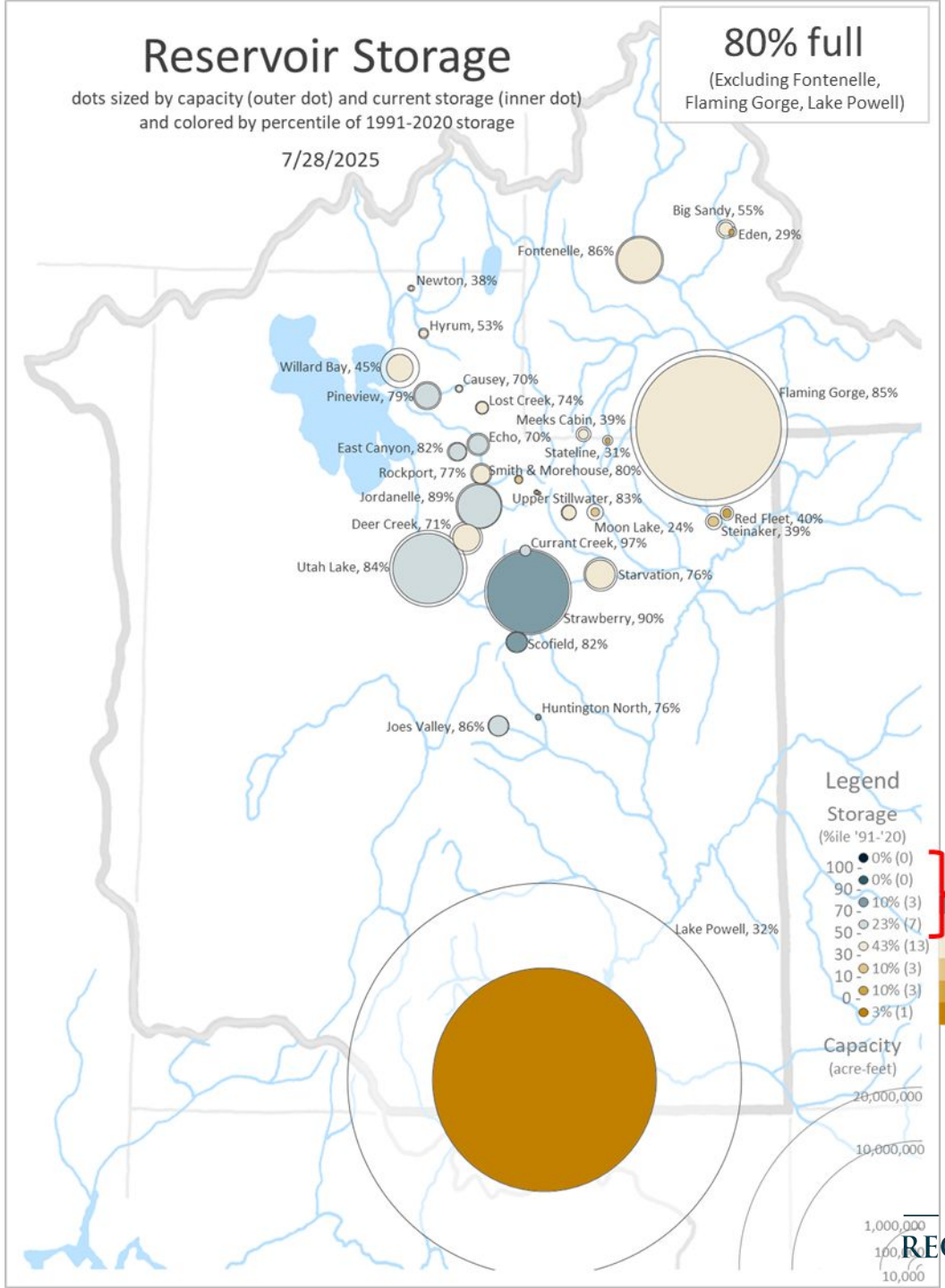
Reservoir Levels

- **Overall reservoir storage is at 80% full**
  (Excluding Powell, Flaming Gorge, Fontenelle)
  - down ~6.3% since July 6 (86%)
  - ~13% lower than last year (~93%)
  - ~2% higher than the 21-year average (~77%)

- **Individual reservoirs range from 24-90% full**
  - 10/30 are above the 30-year median
  - centered ~30-50th percentile

- **Outlook**
  - storage is decreasing

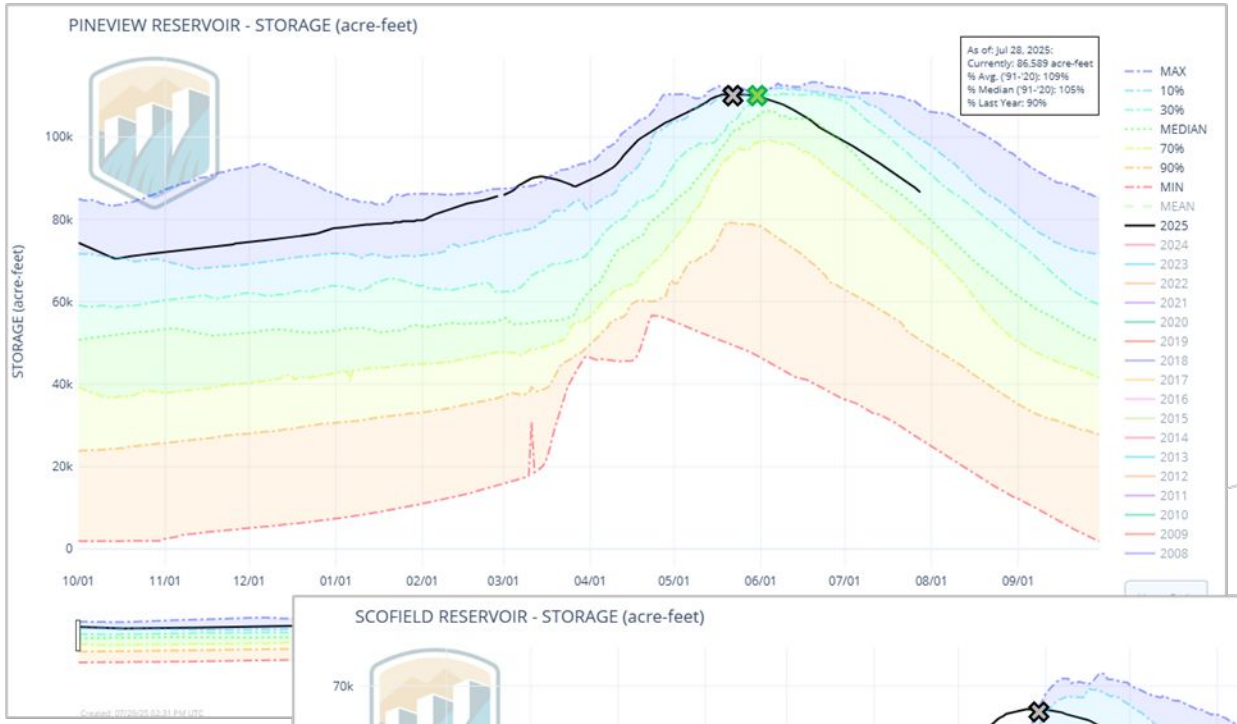


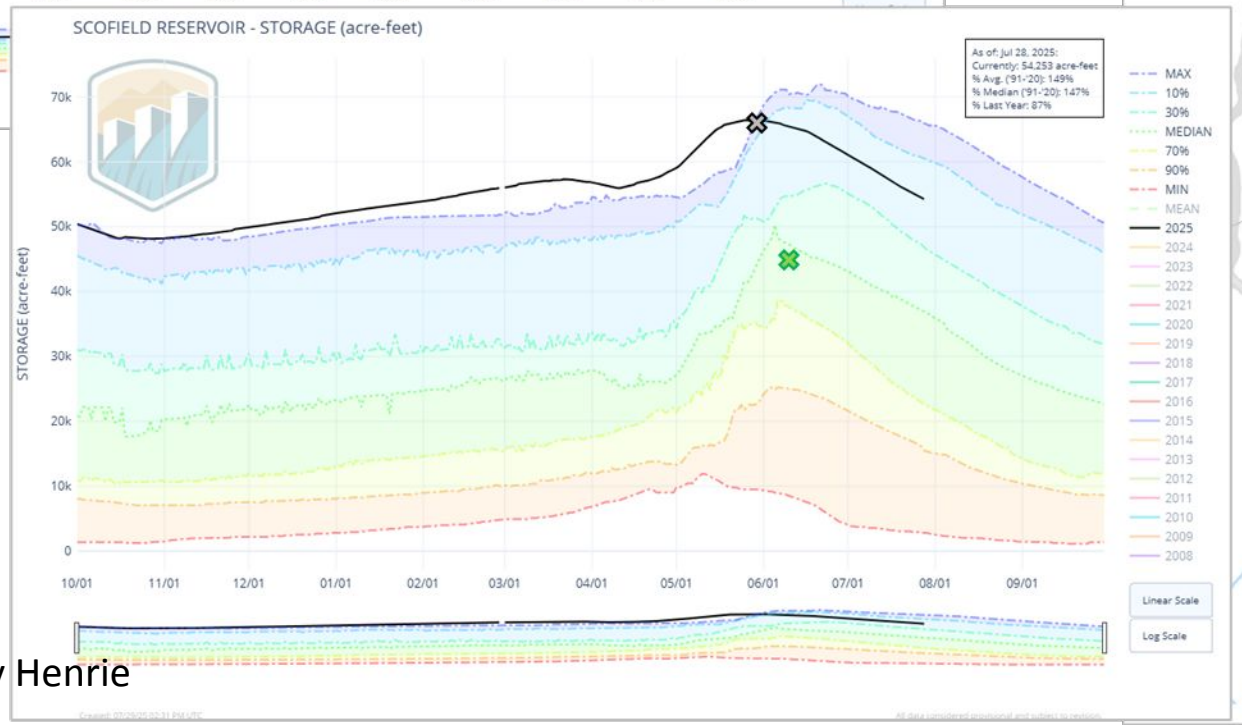


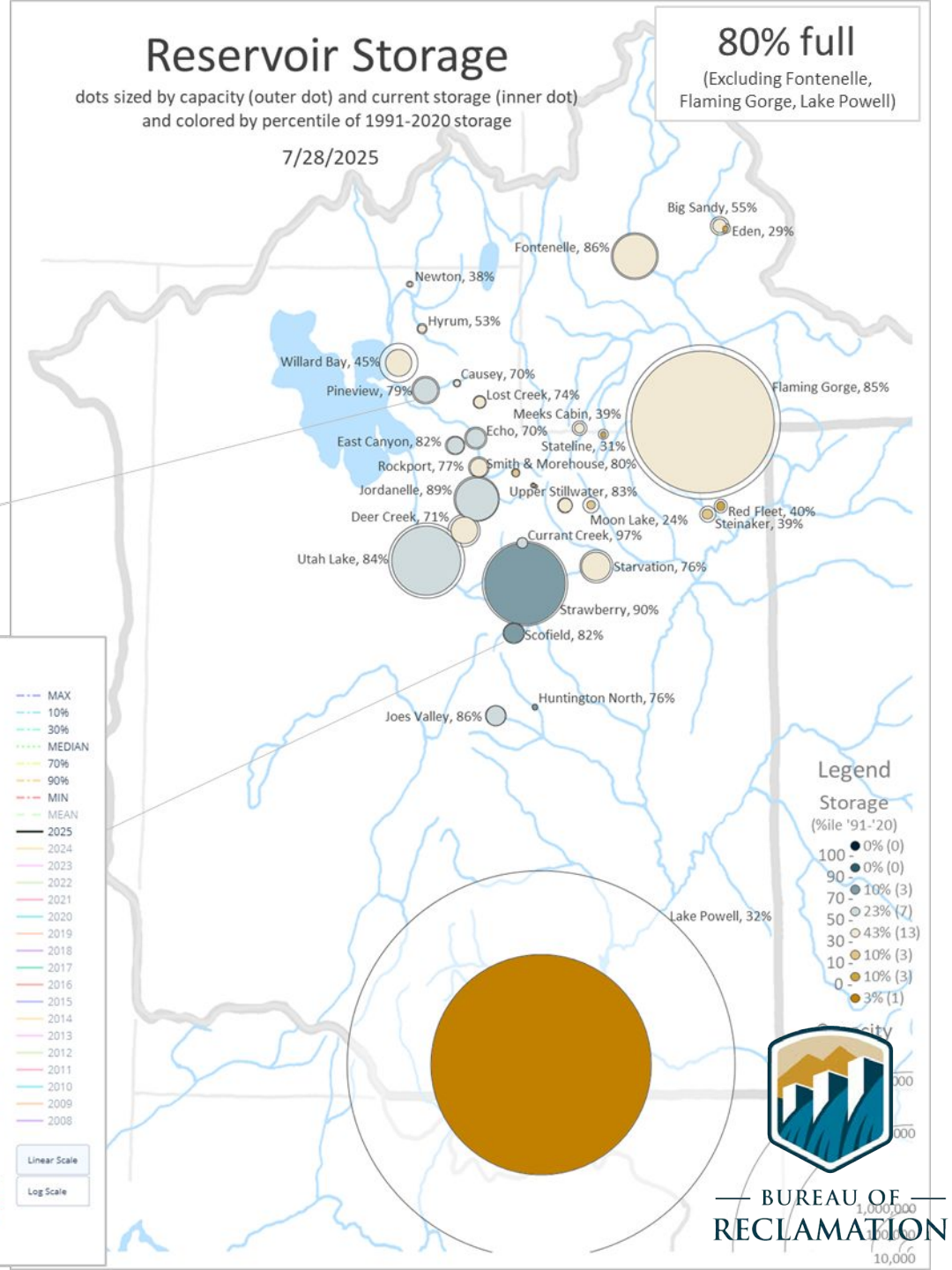
Agency - BOR
Presenter - Gary Henrie

BUREAU OF RECLAMATION

Reservoir Levels



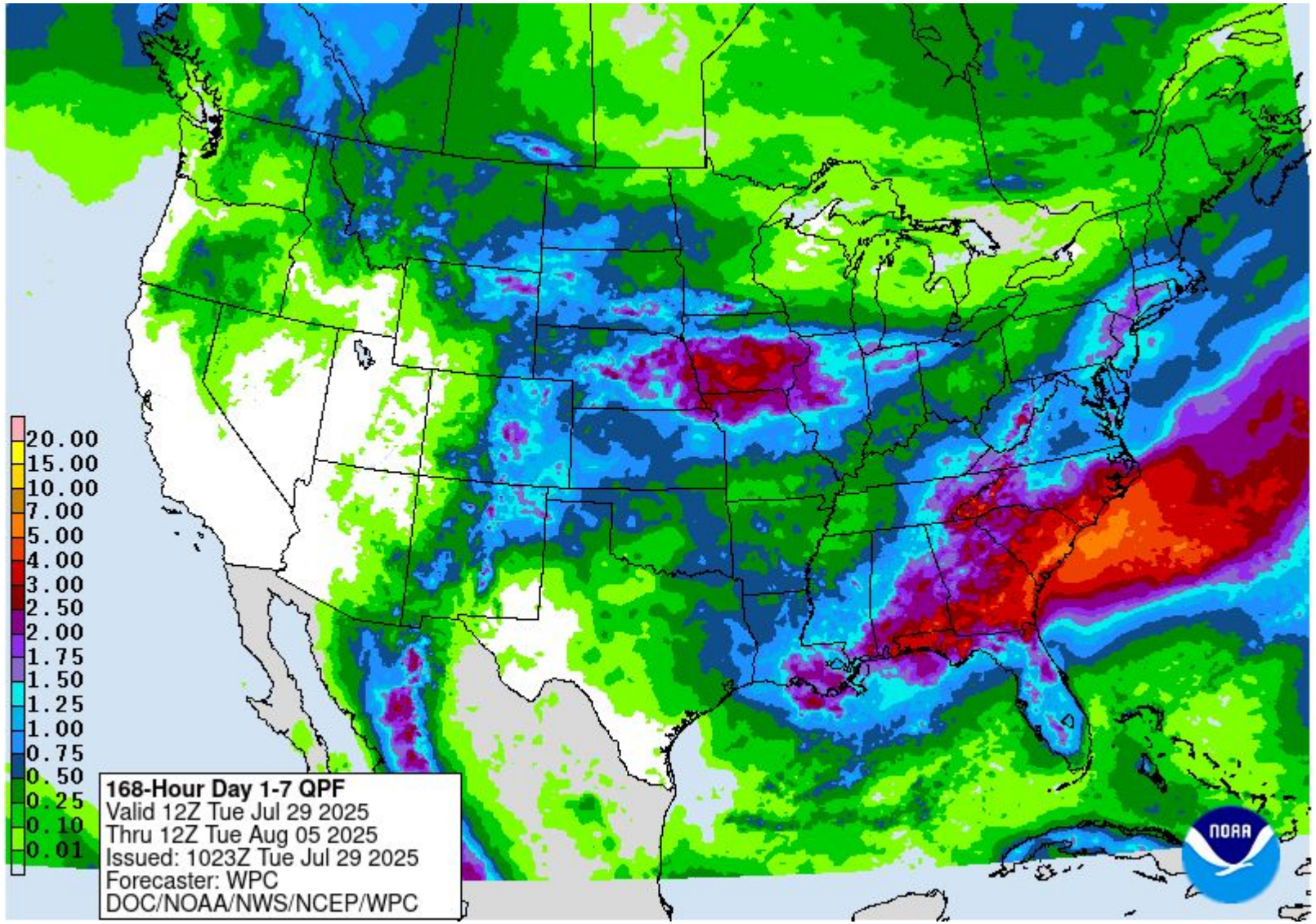


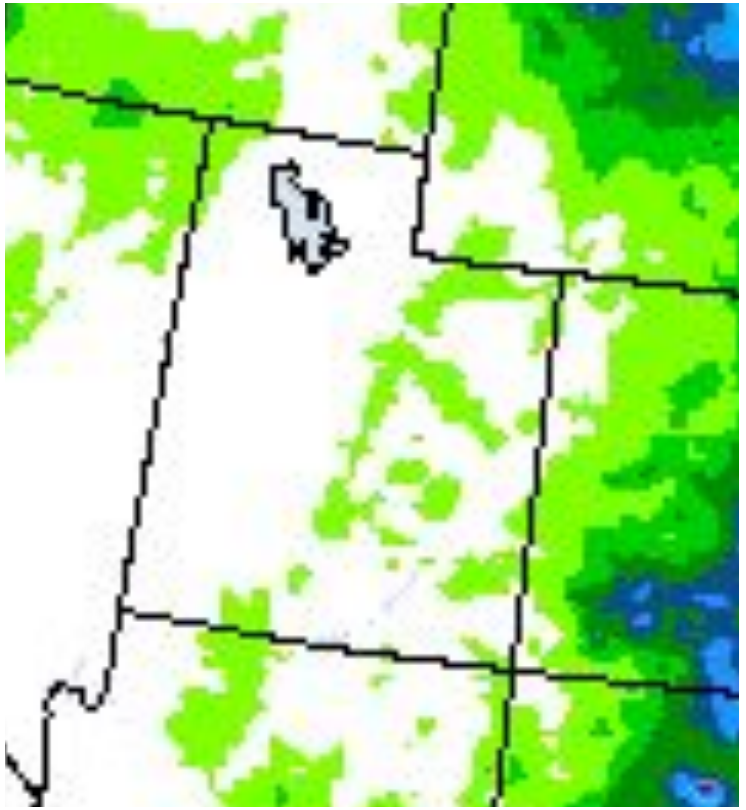


Agency - BOR
Presenter - Gary Henrie

BUREAU OF RECLAMATION

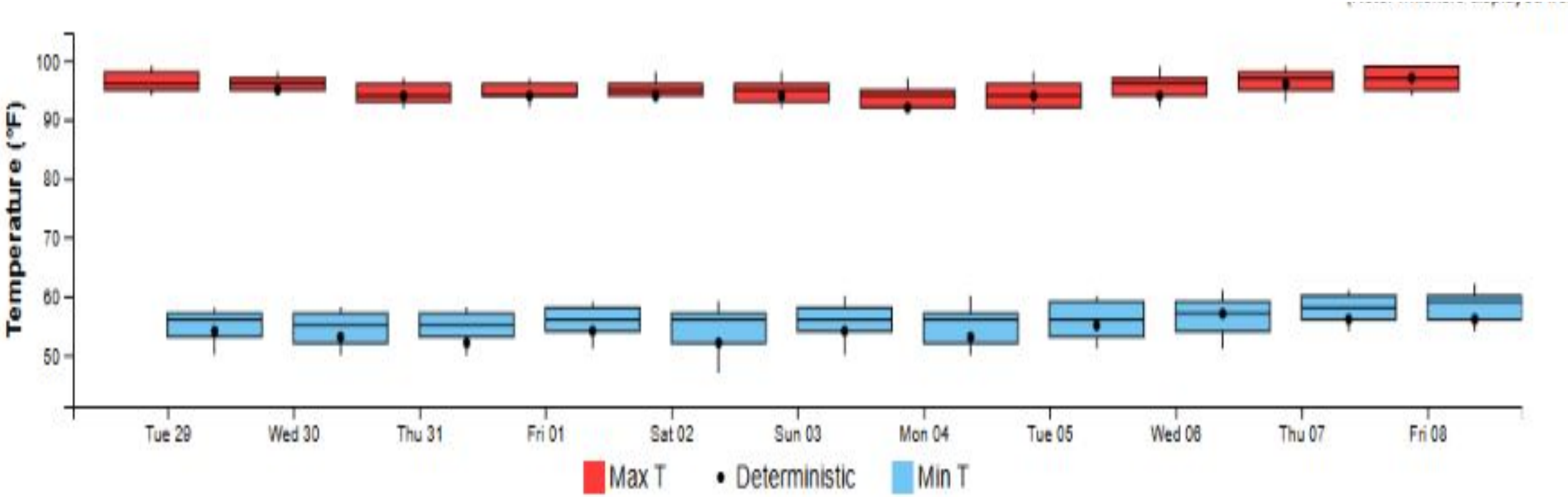
Weather Forecast Office Utah Day 1-7 Outlook





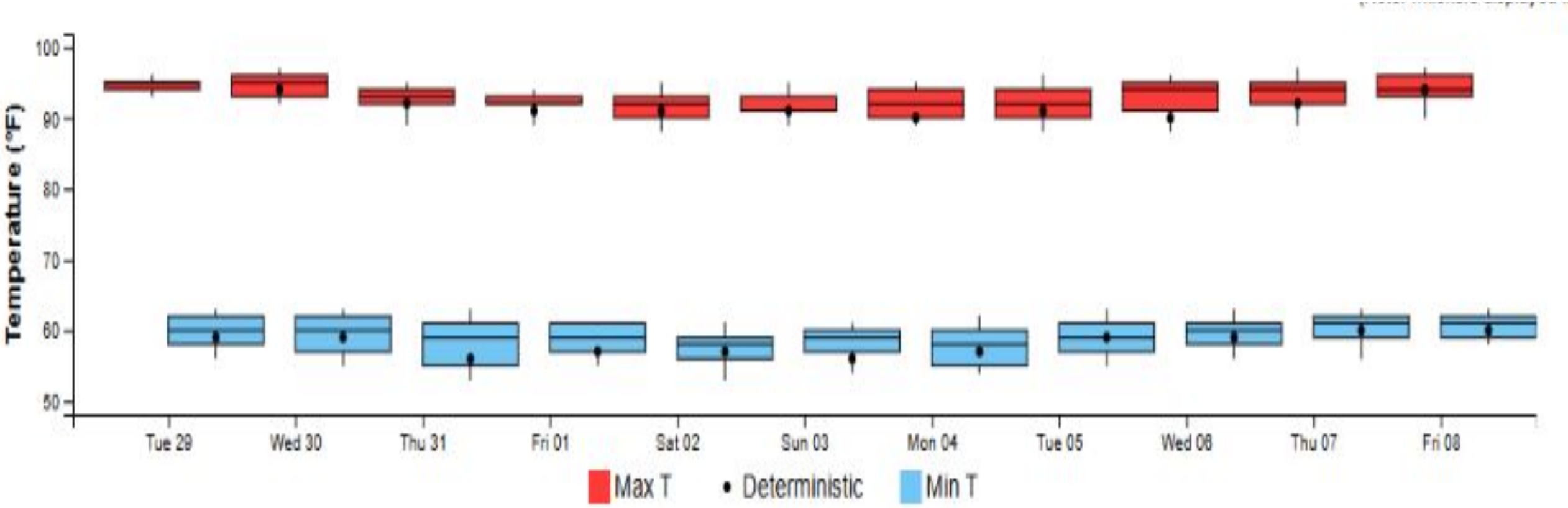
Agency - National Weather Service Weather Forecast Office
Presenter - Glen Merrill

Temperatures - Milford



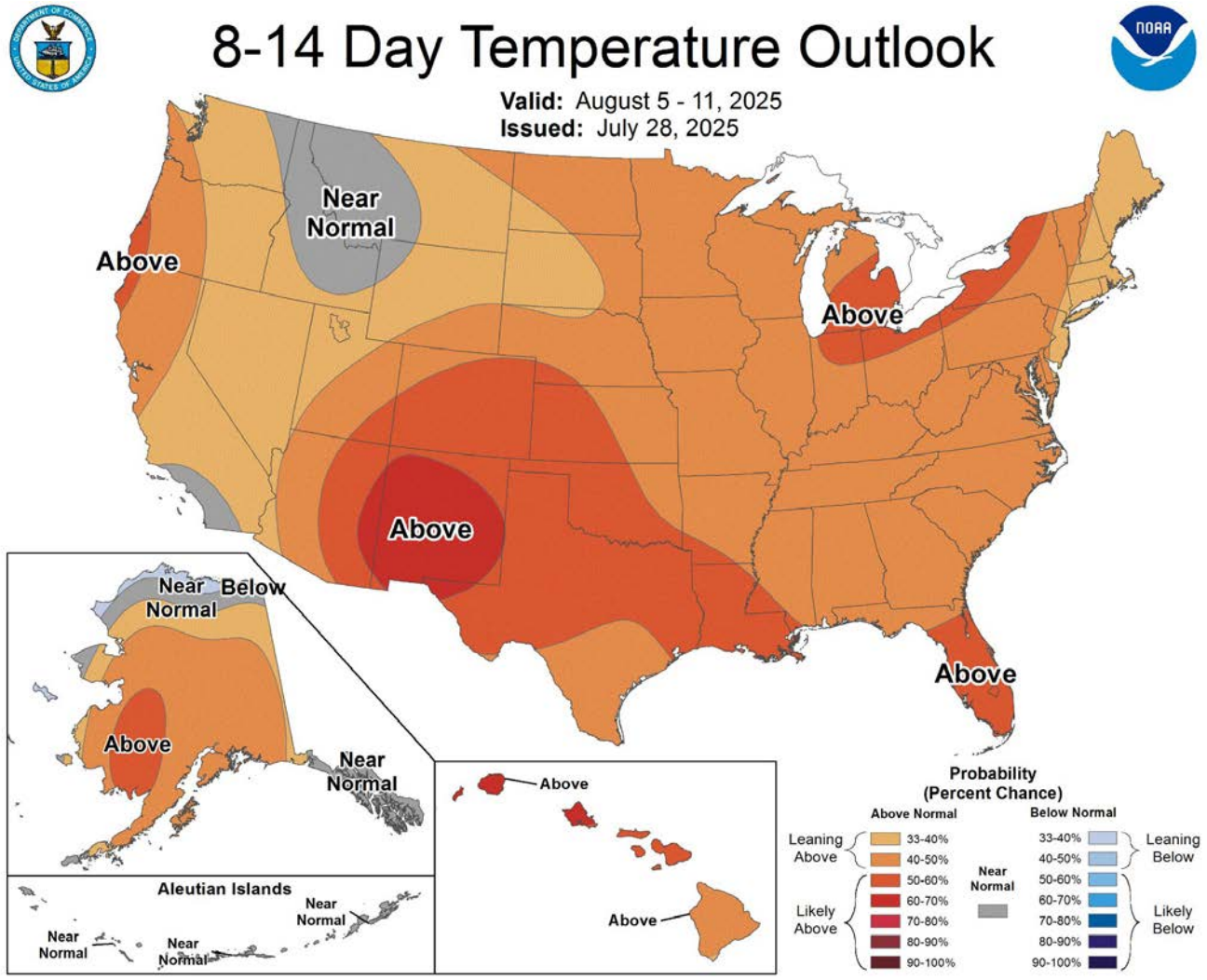
Agency - National Weather Service Weather Forecast Office
Presenter - Glen Merrill

Temperatures - Price



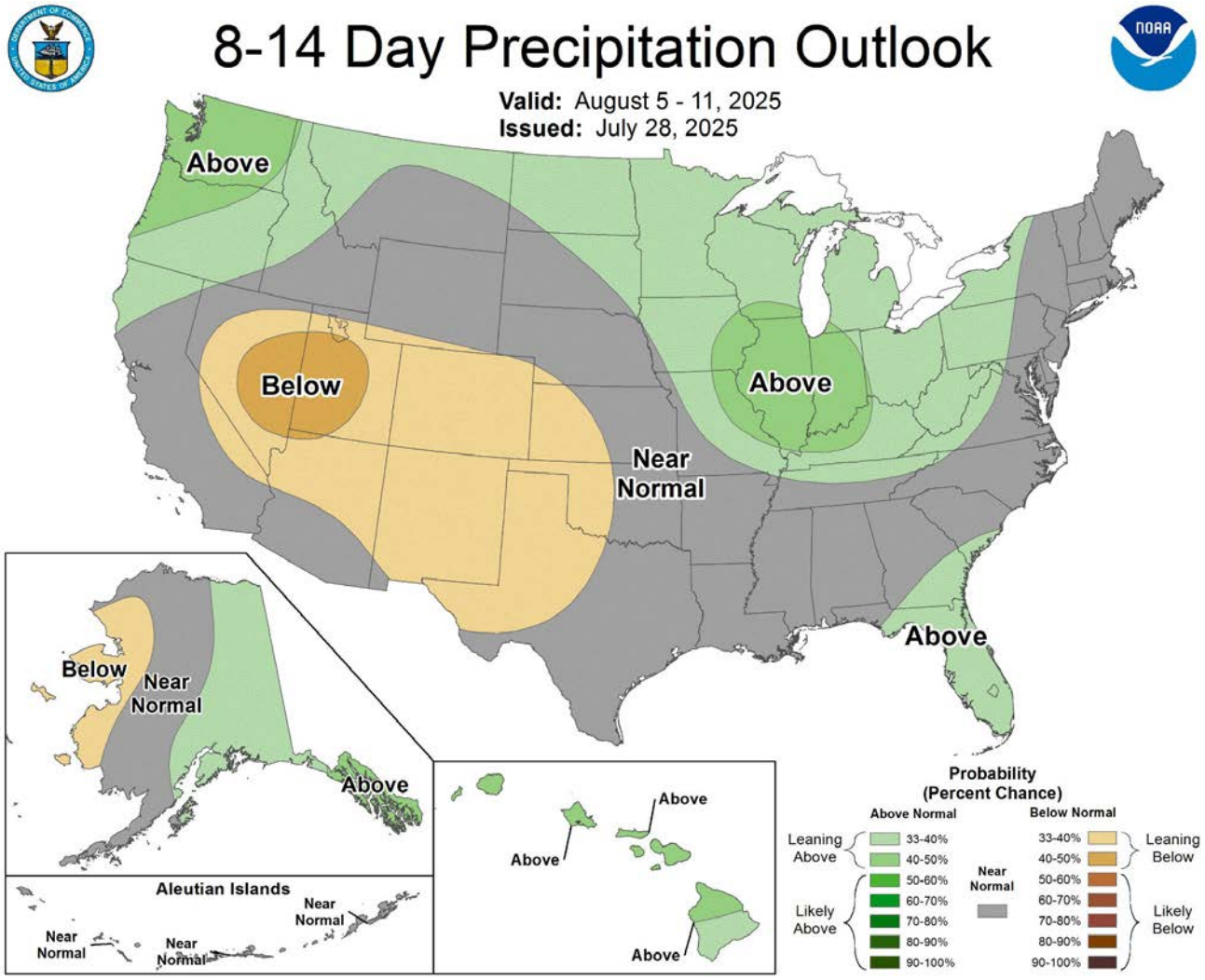
Agency - National Weather Service Weather Forecast Office
Presenter - Glen Merrill

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

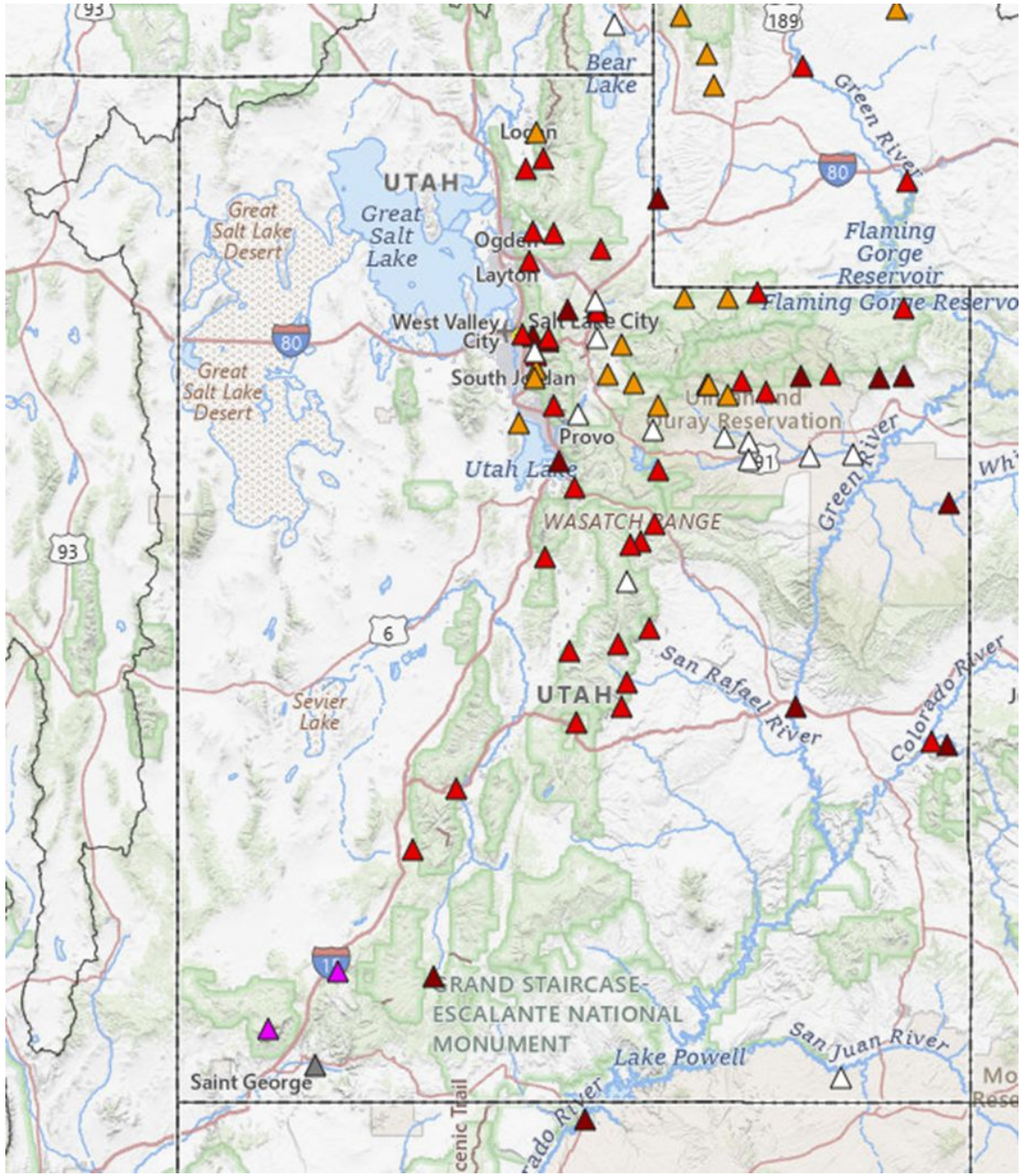


Agency - National Weather Service Weather Forecast Office
Presenter - Glen Merrill

Observed:
Percent of Average

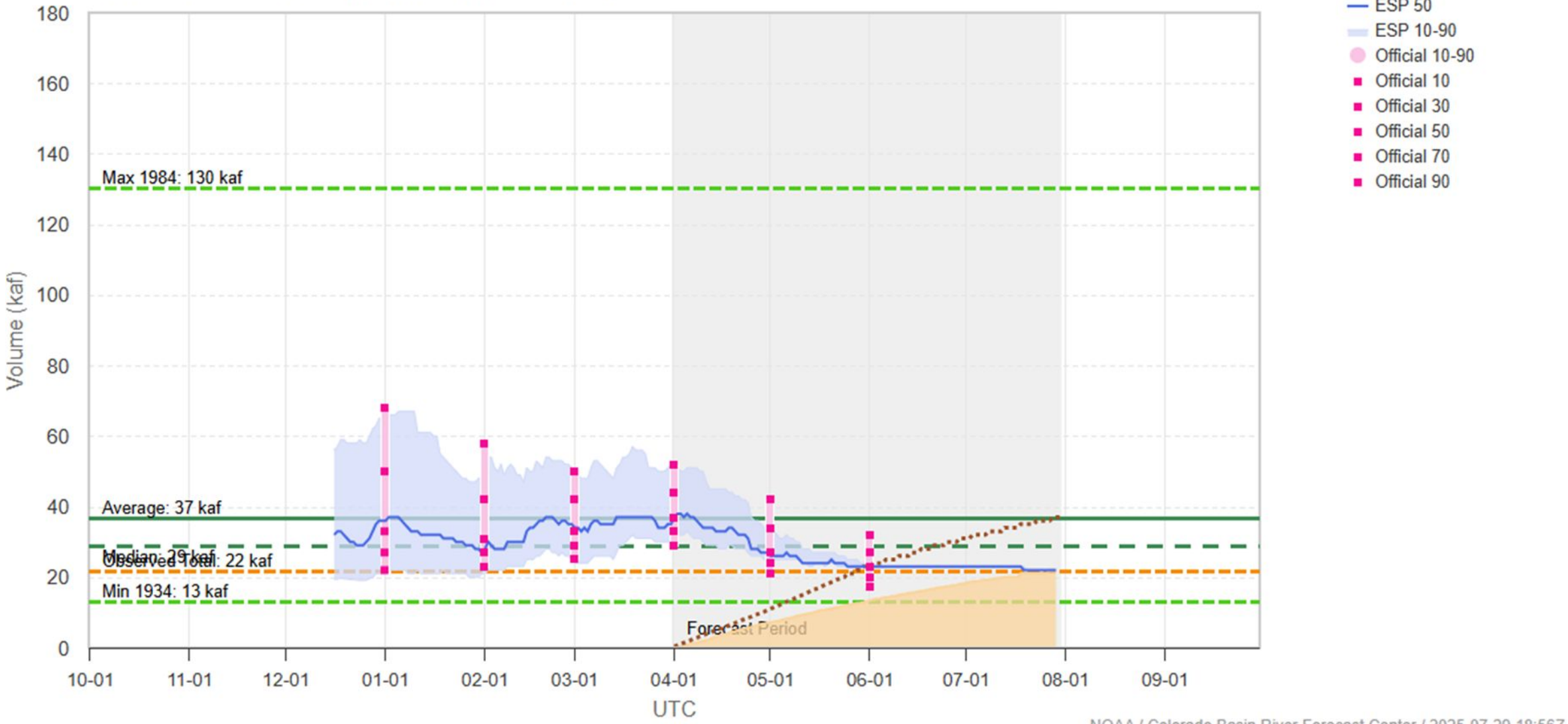
Percent Period Average

- < 30%
- 30-50%
- 50-70%
- 70-90%
- 90-100%
- 100-110%
- 110-130%
- 130-150%
- 150-200%
- 200-300%
- 300-500
- >500%

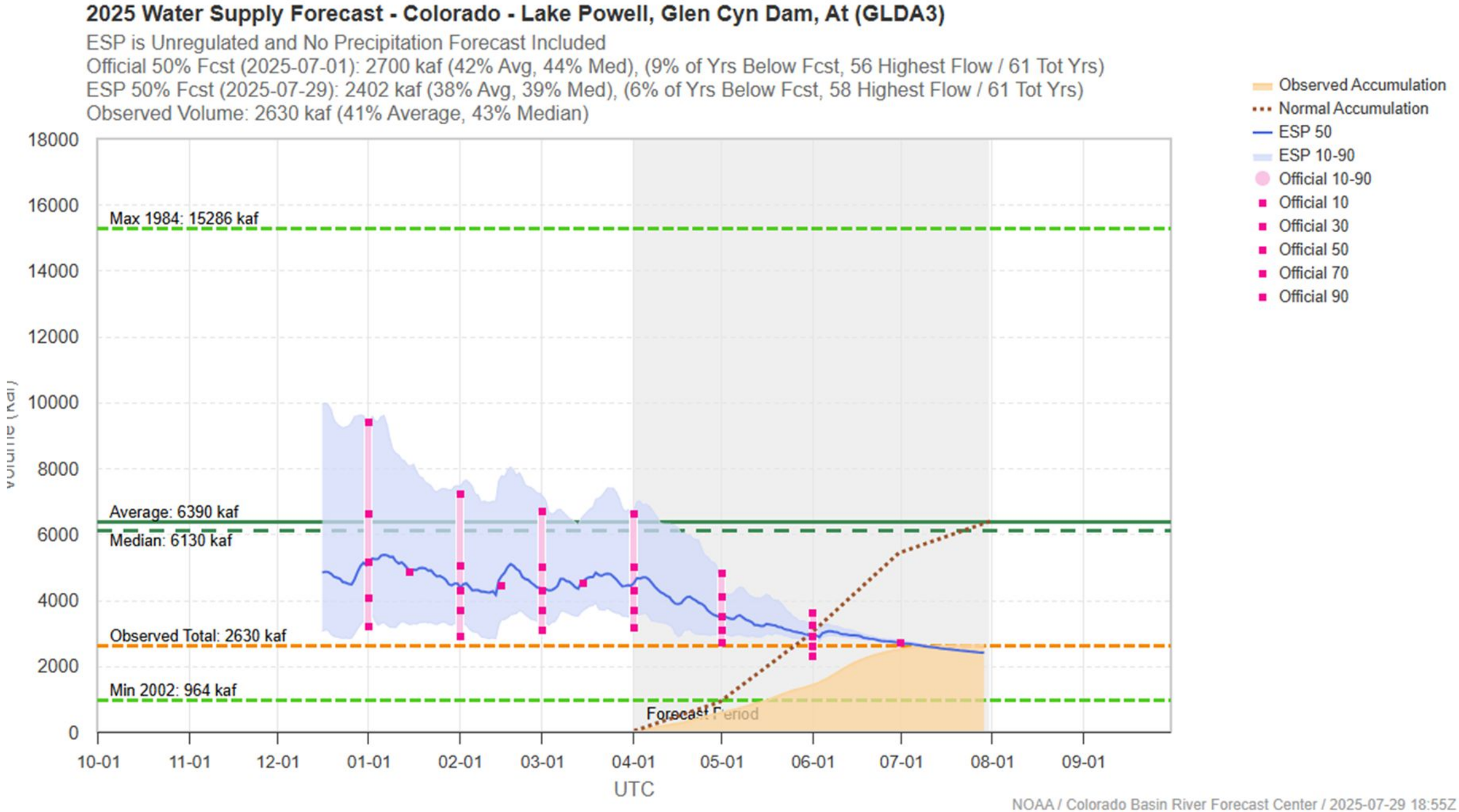


2025 Water Supply Forecast - Blacksmith Fork - Hyrum, Nr, Upnl Dam, Abv (HRMU1)

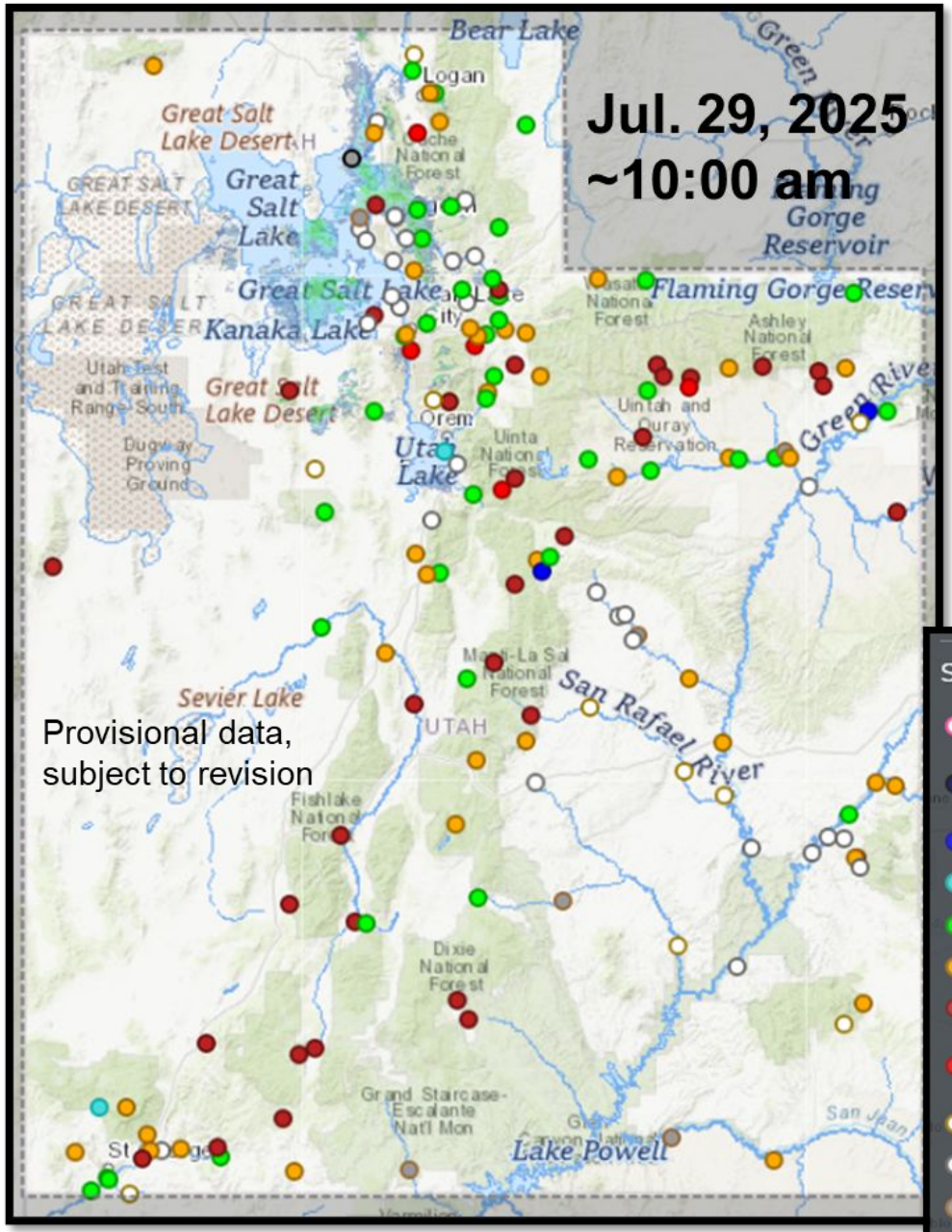
ESP is Unregulated and No Precipitation Forecast Included
Official 50% Fcst (2025-06-01): 23 kaf (62% Avg, 79% Med), (17% of Yrs Below Fcst, 89 Highest Flow / 107 Tot Yrs)
ESP 50% Fcst (2025-07-29): 22 kaf (60% Avg, 77% Med), (17% of Yrs Below Fcst, 89 Highest Flow / 107 Tot Yrs)
Observed Volume: 22 kaf (59% Average, 75% Median)



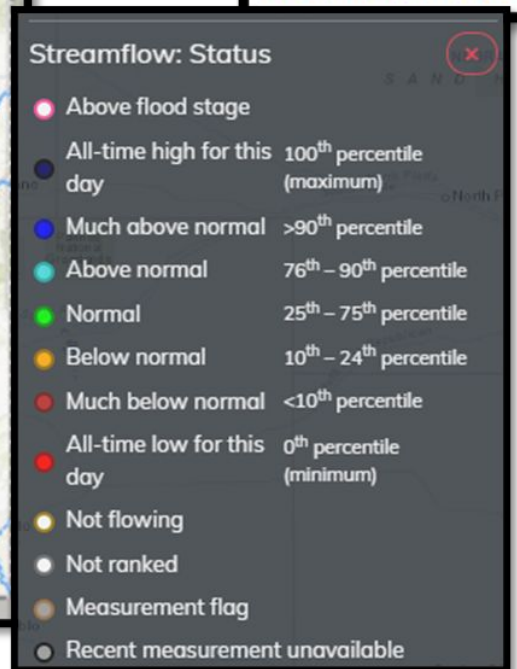
NOAA / Colorado Basin River Forecast Center / 2025-07-29 18:56Z


2025 Water Supply Forecast - Colorado - Lake Powell, Glen Cyn Dam, At (GLDA3)
ESP is Unregulated and No Precipitation Forecast Included
Official 50% Fcst (2025-07-01): 2700 kaf (42% Avg, 44% Med), (9% of Yrs Below Fcst, 56 Highest Flow / 61 Tot Yrs)
ESP 50% Fcst (2025-07-29): 2402 kaf (38% Avg, 39% Med), (6% of Yrs Below Fcst, 58 Highest Flow / 61 Tot Yrs)
Observed Volume: 2630 kaf (41% Average, 43% Median)
Observed Accumulation
Normal Accumulation
ESP 50
ESP 10-90
Official 10-90
Official 10
Official 30
Official 50
Official 70
Official 90
Max 1984: 15286 kaf
Average: 6390 kaf
Median: 6130 kaf
Observed Total: 2630 kaf
Min 2002: 964 kaf
Forecast Period
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
10-01
11-01
12-01
01-01
02-01
03-01
04-01
05-01
06-01
07-01
08-01
09-01
UTC
NOAA / Colorado Basin River Forecast Center / 2025-07-29 18:55Z

Current Streamflow Conditions



Day-of-Year Status	# Gages	% Gages
All-time high for this day-of-year	0	0.0%
Much above normal for this day-of-year	2	1.2%
Above normal for this day-of-year	2	1.2%
Normal for this day-of-year	39	23.5%
Below normal for this day-of-year	39	23.5%
Much below normal for this day-of-year	33	19.9%
All-time low for this day-of-year	5	3.0%
Not ranked - insufficient record	37	22.3%
Not ranked - no measurement	2	1.2%

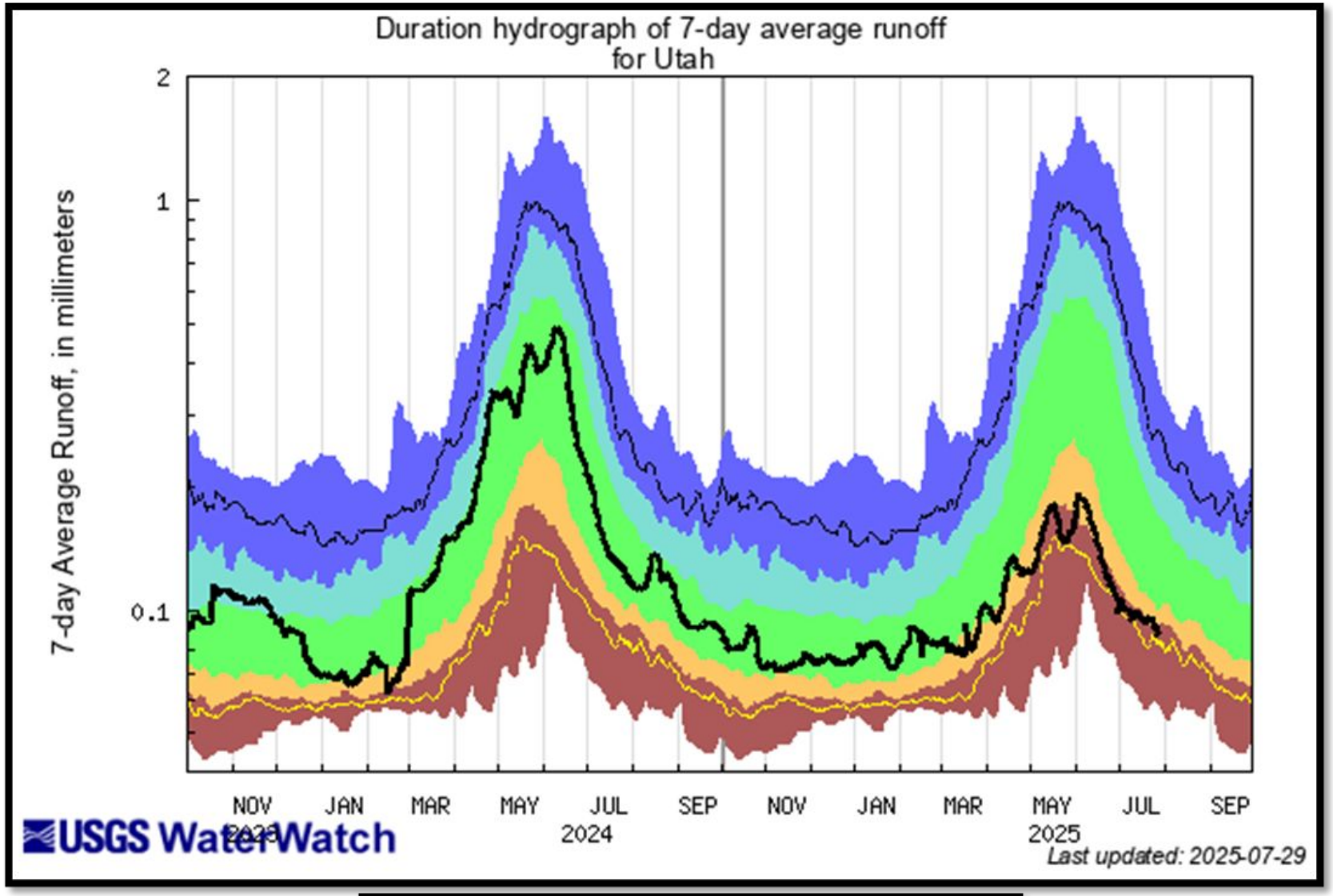


***Major update: sites now must have at least 20 years of streamflow record to be ranked on this graphic. Previously it was 10 years of record.**

Agency - USGS Utah WSC
Presenter - Ryan Rowland

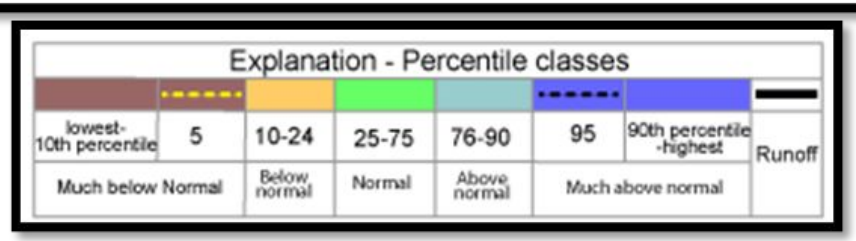
USGS science for a changing world

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



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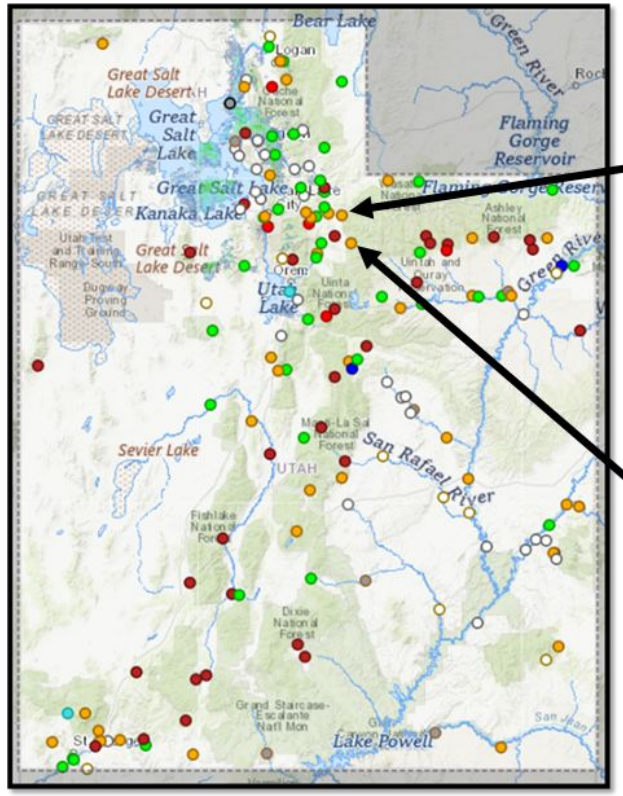
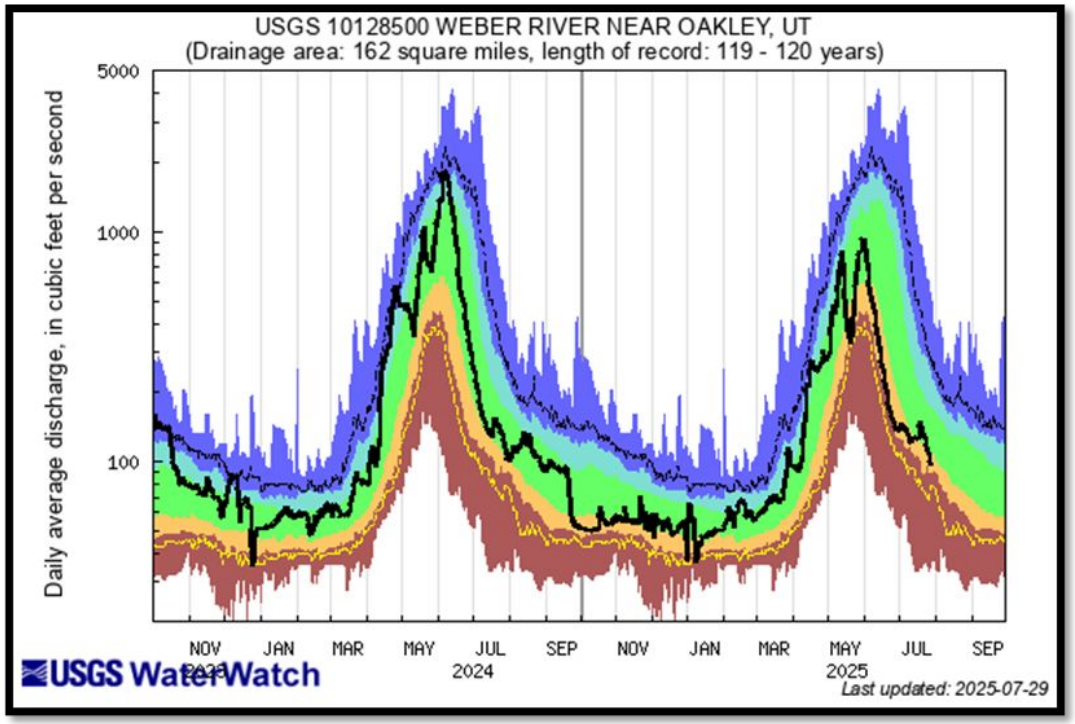
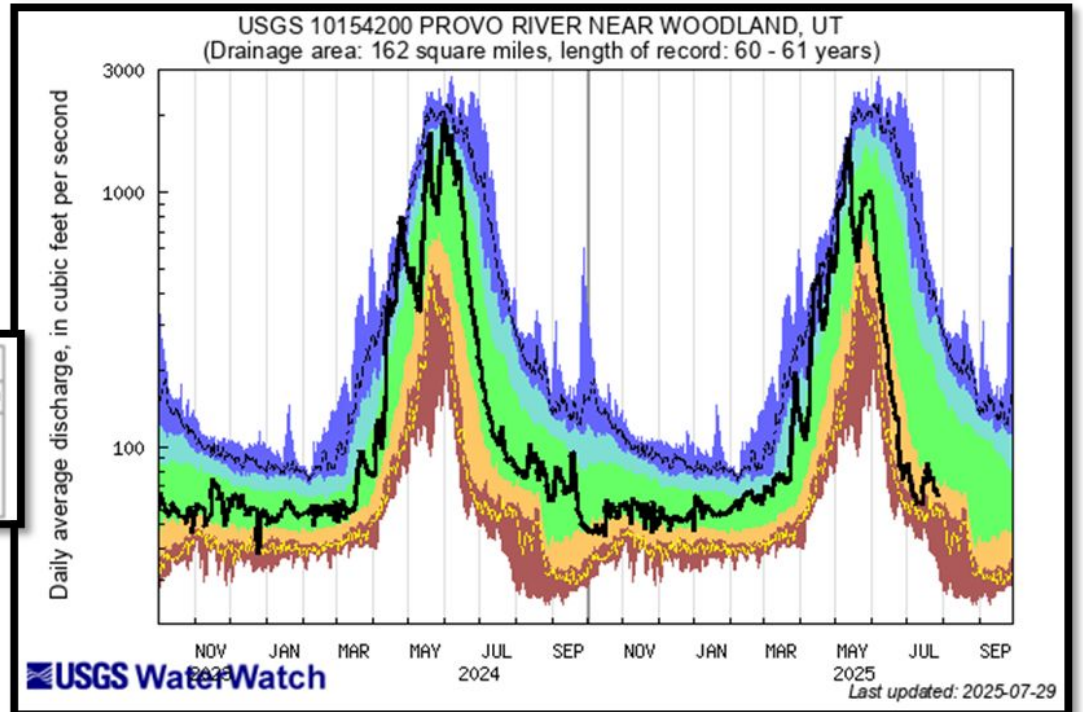
USGS science for a changing world

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		

Provisional data, subject to revision

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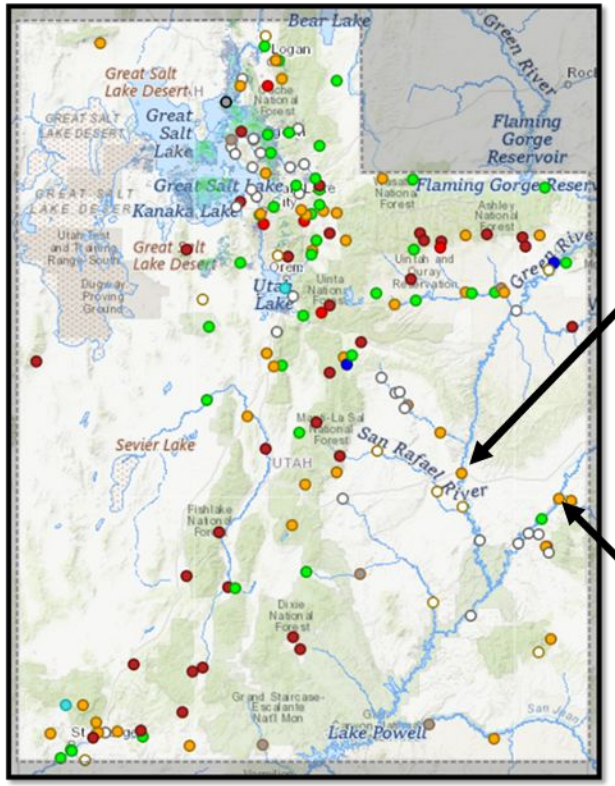
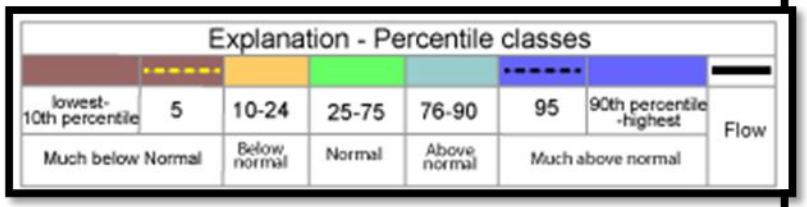
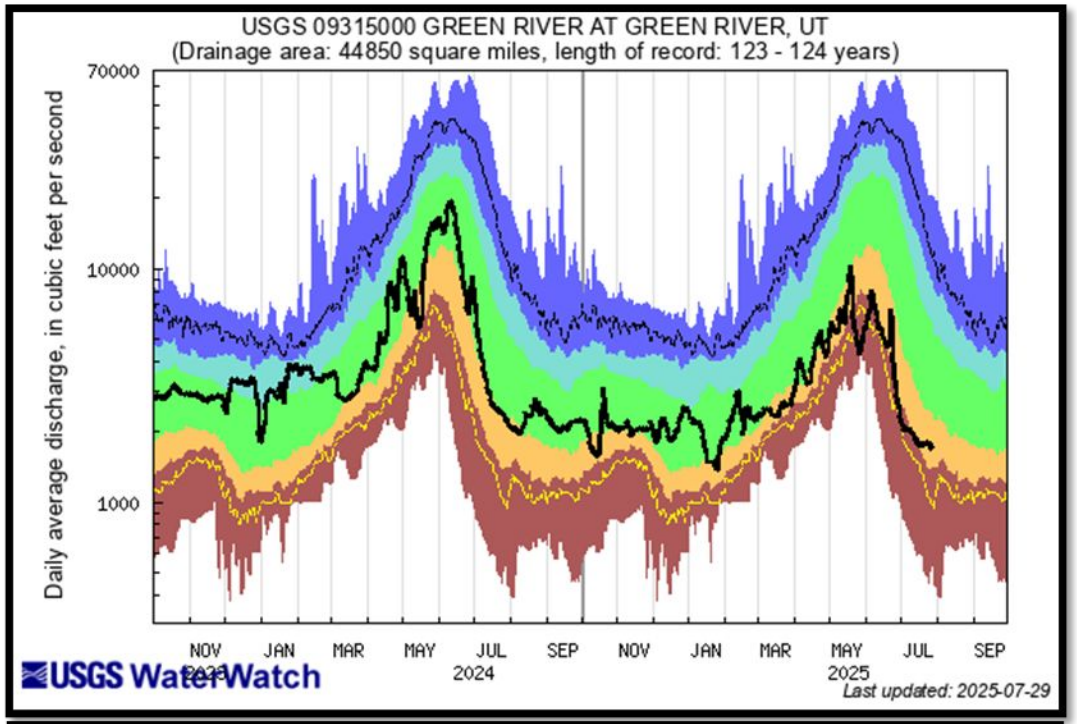
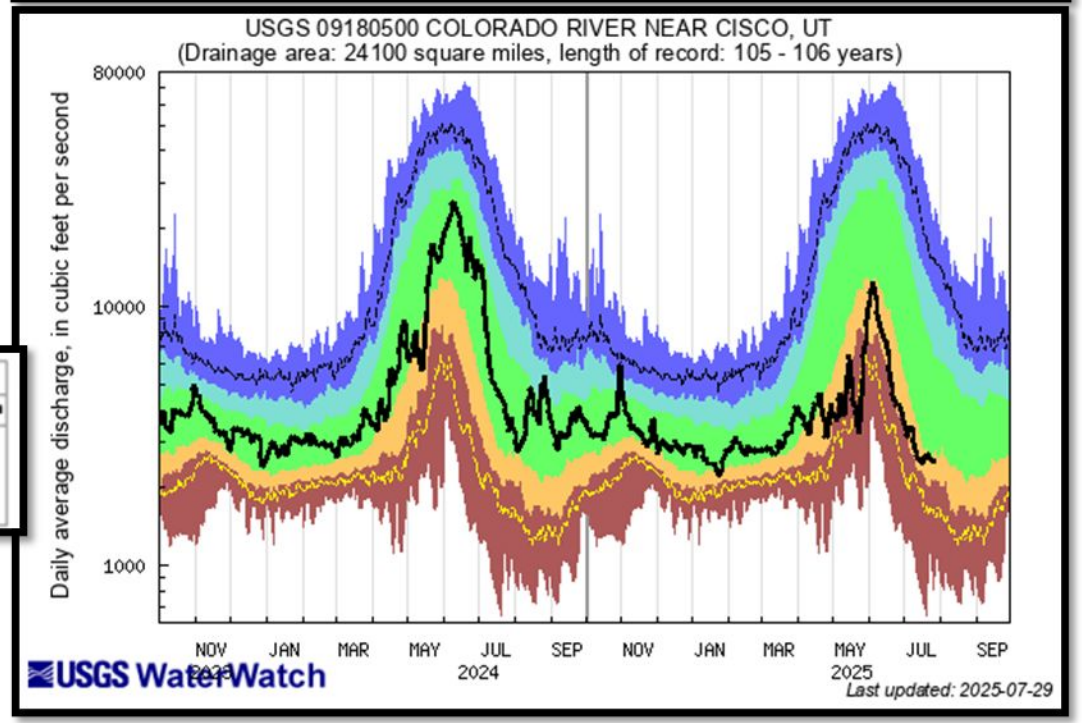
Streamflow at Selected Gages









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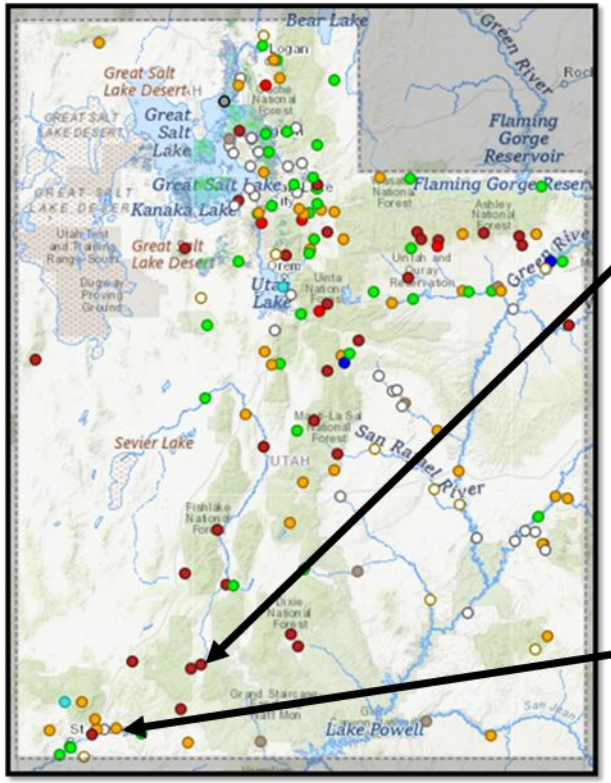
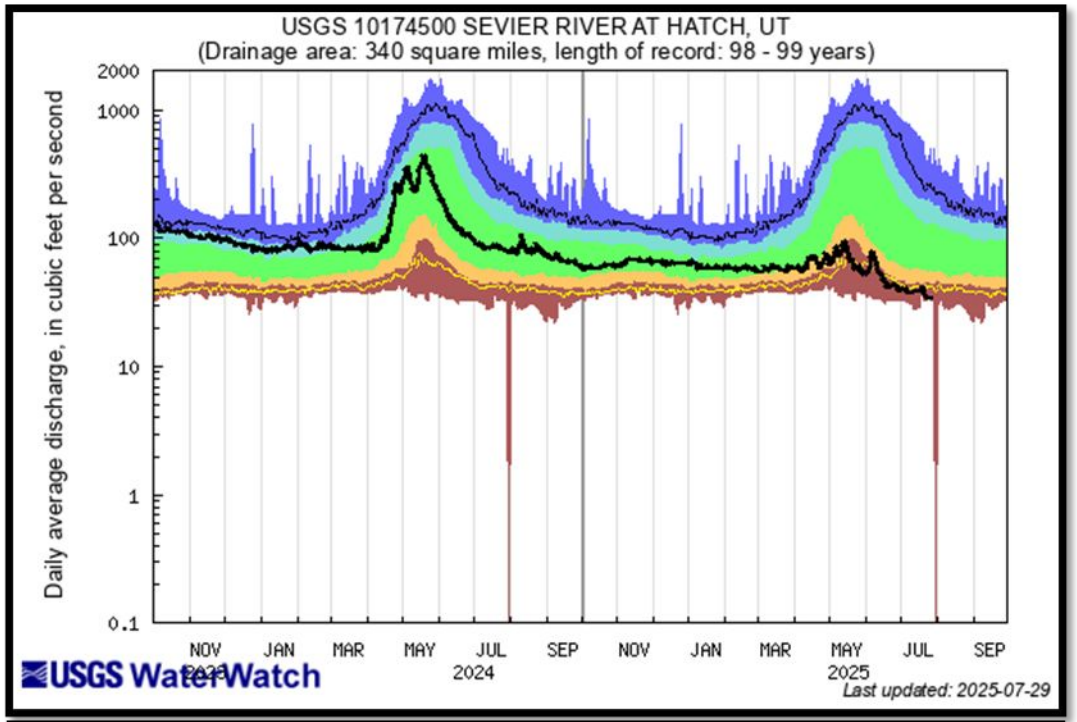
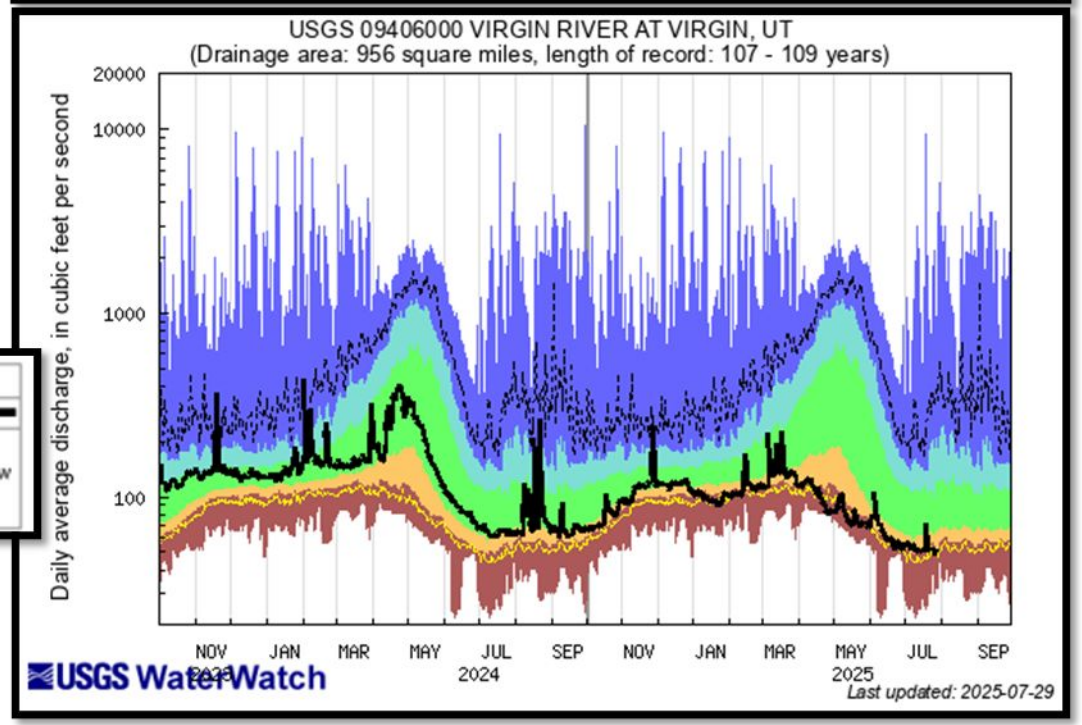
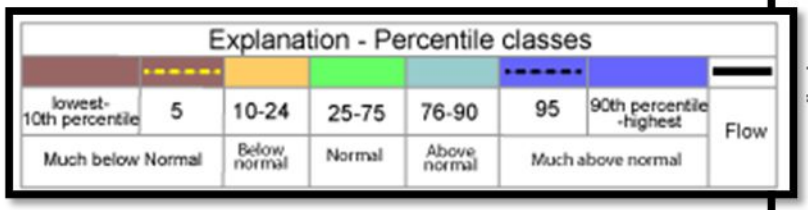
Streamflow at Selected Gages









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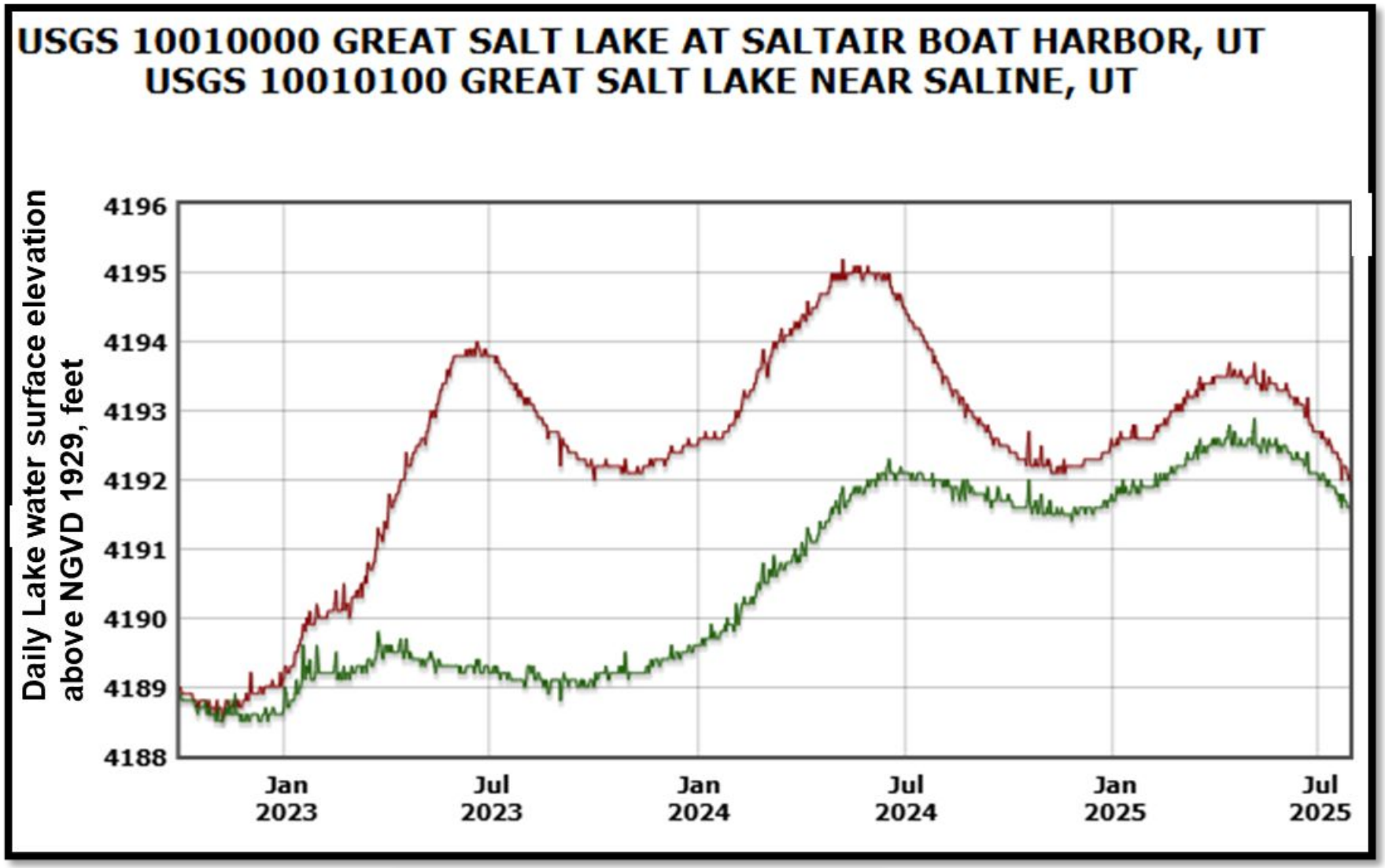
Great Salt Lake Water Surface Elevations



Provisional data, subject to revision

Daily Values 7/28/2025

- **South Arm: 4,192.1’**
  - **Down 1.6’ since seasonal peak Apr. 2025**
- **North Arm: 4,191.6’**
  - **Down 1.3’ since seasonal peak in May 2025**

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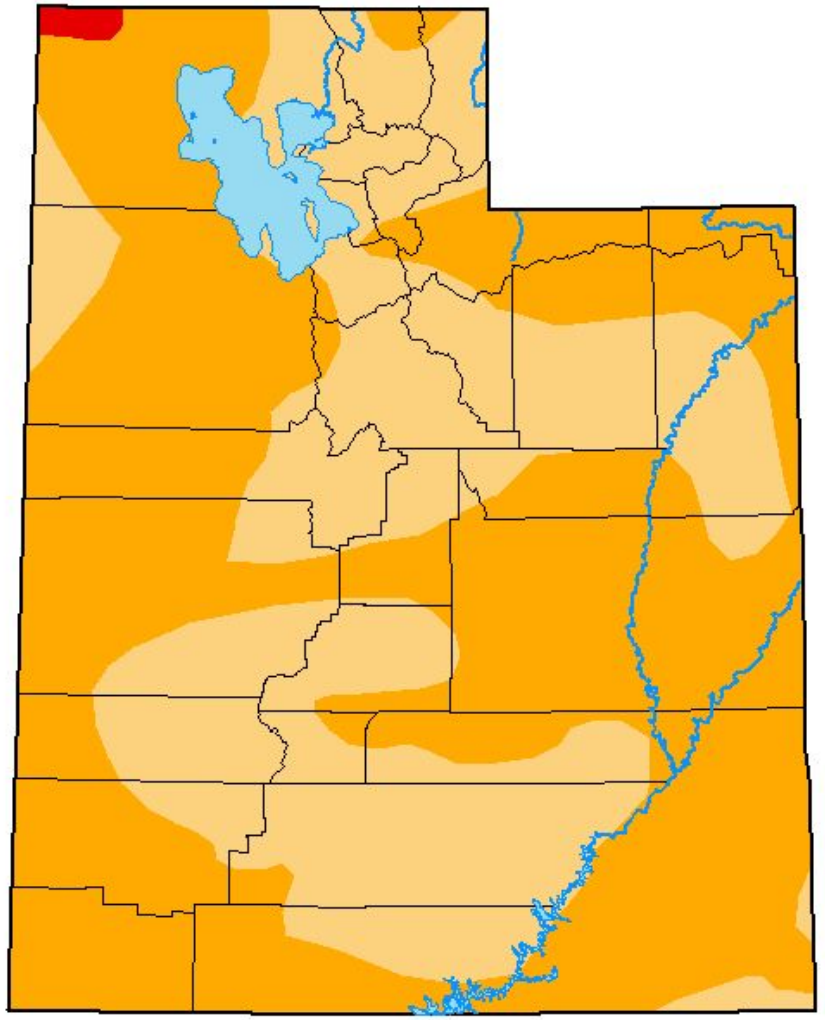
U.S. Drought Monitor

Utah

July 22, 2025

(Released Thursday, Jul. 24, 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:

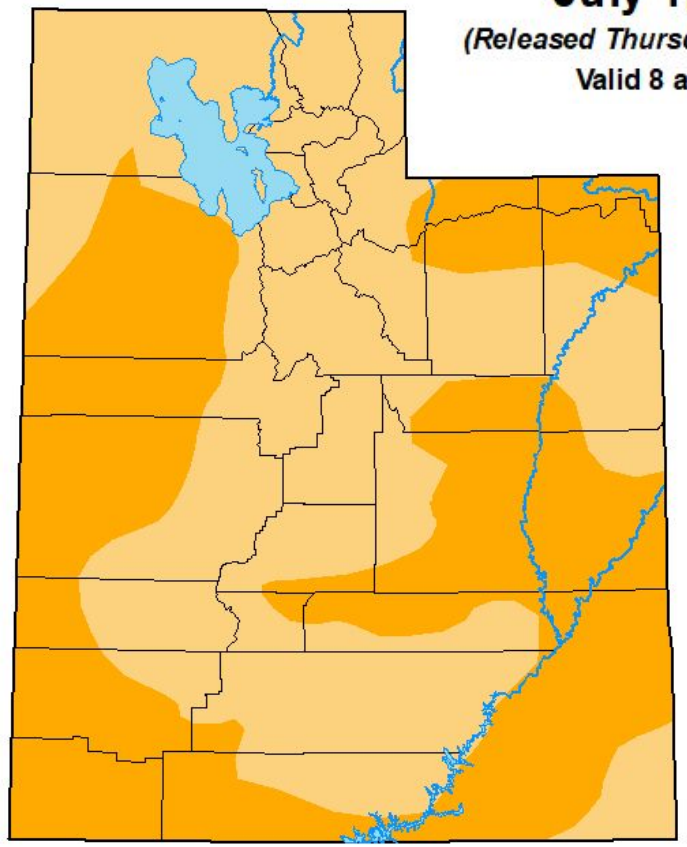
David Simeral
Western Regional Climate Center

droughtmonitor.unl.edu

July 1, 2025

(Released Thursday, Jul. 3, 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