Utah Water Conditions (drought webinar)

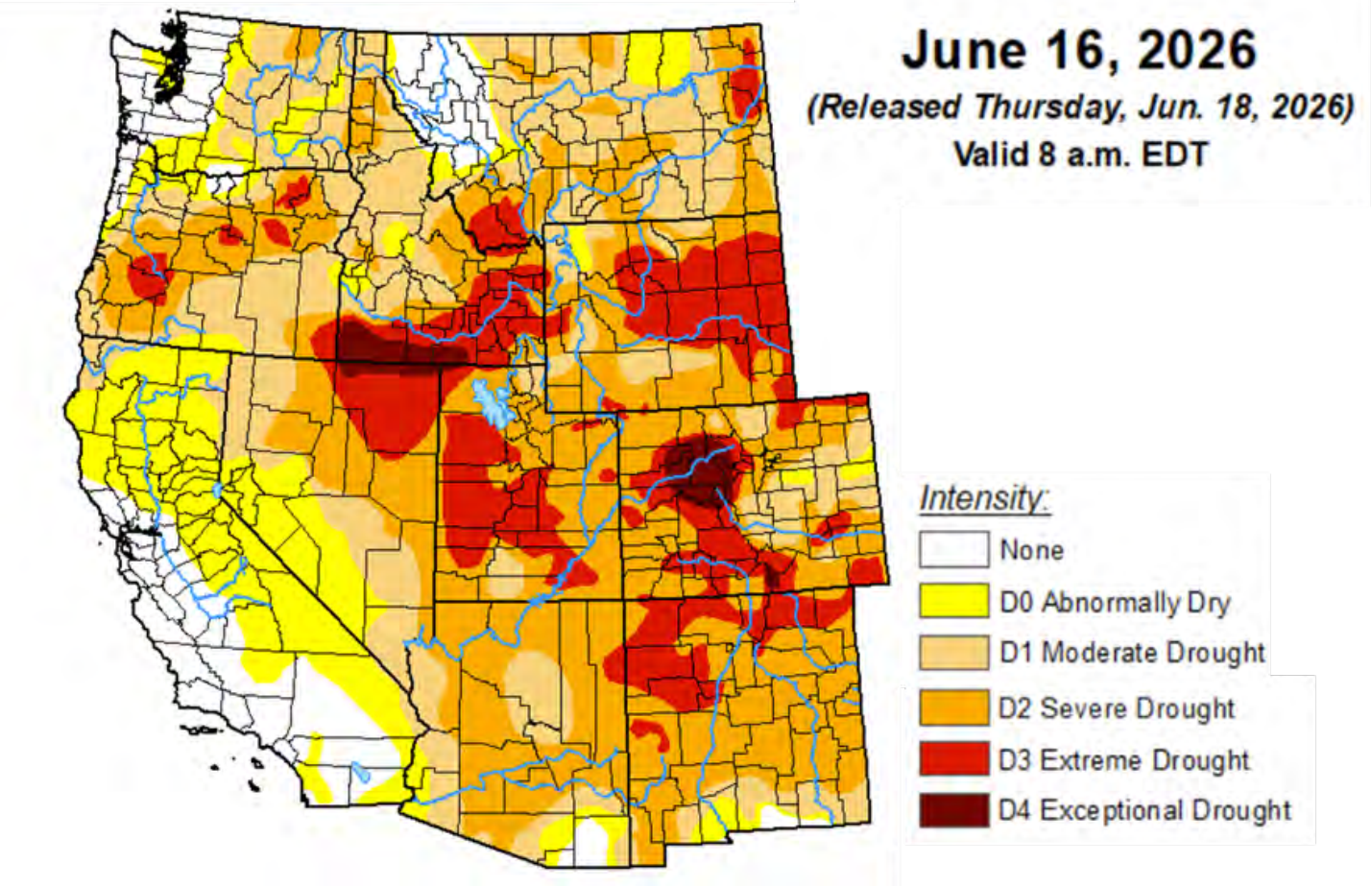
The meeting will begin shortly

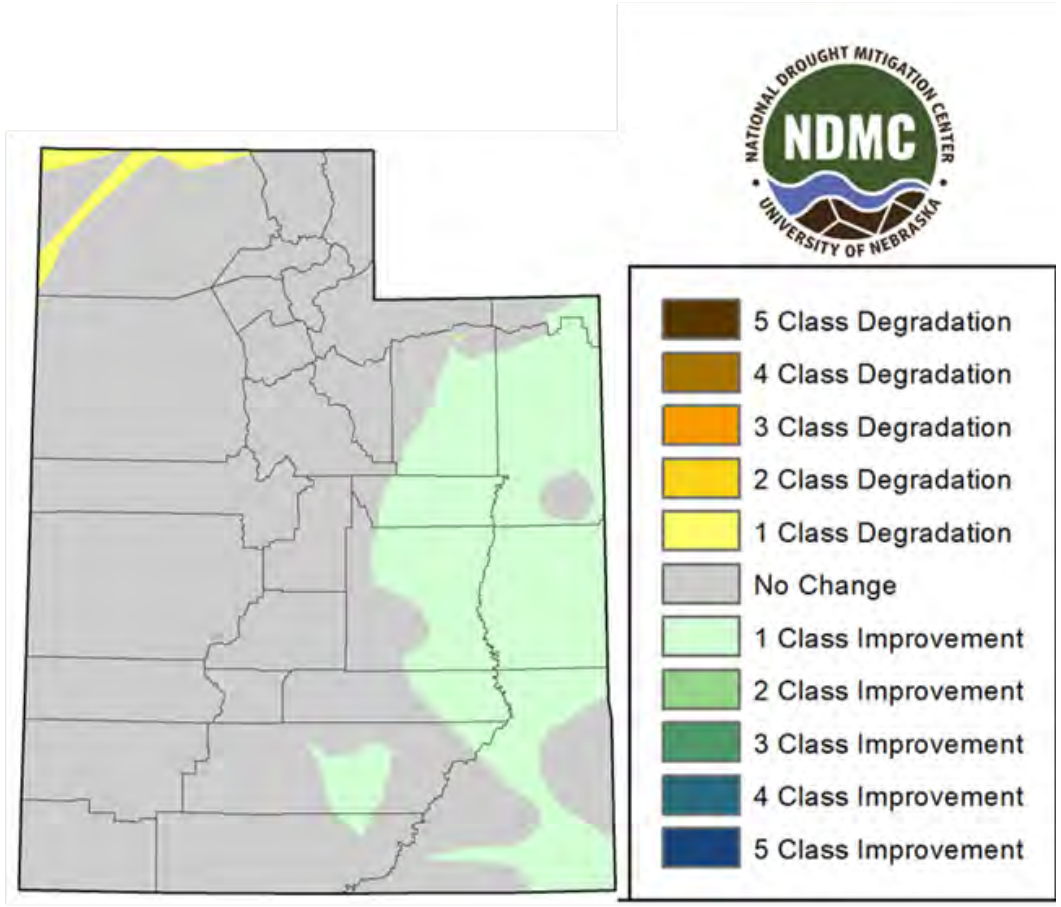
Thank you to our contributors

Utah Water Conditions Update

June 23, 2026

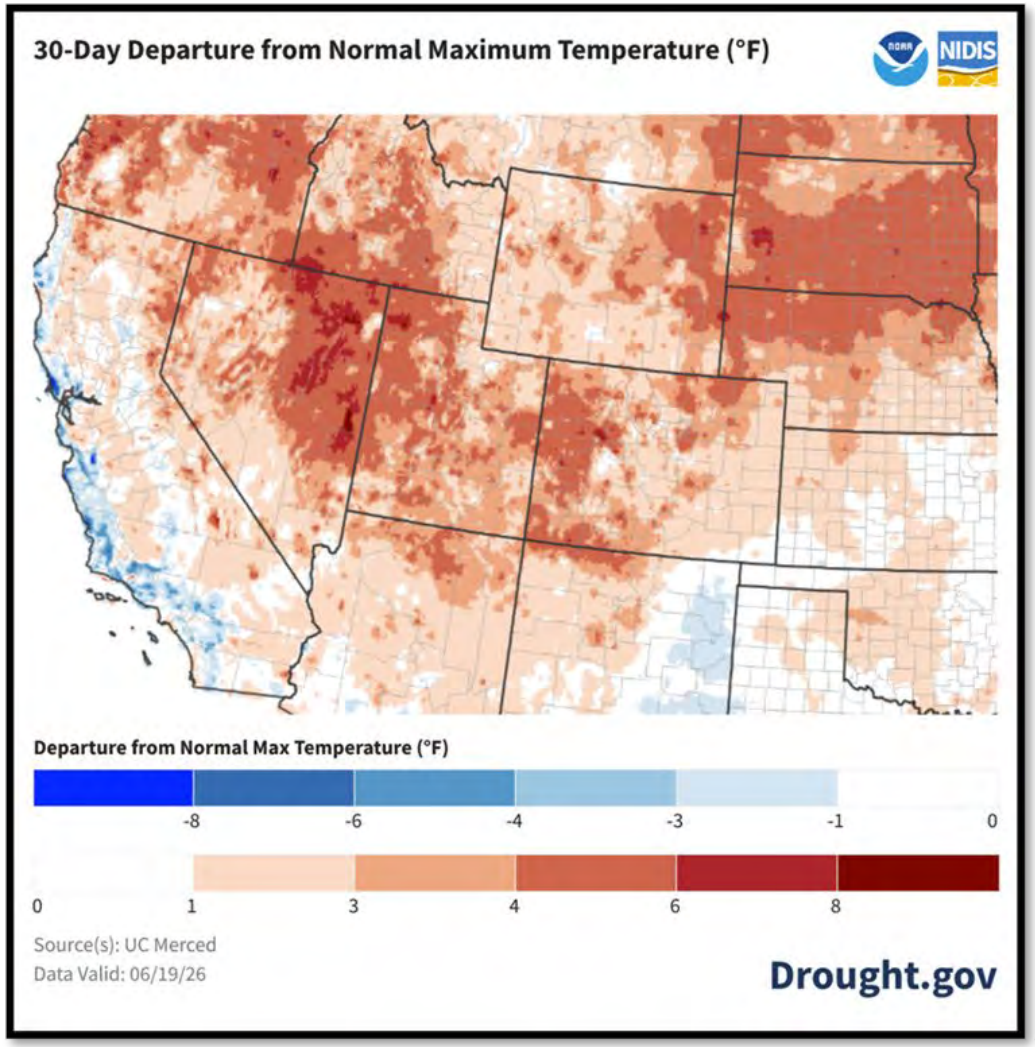
Drought Condition Summary

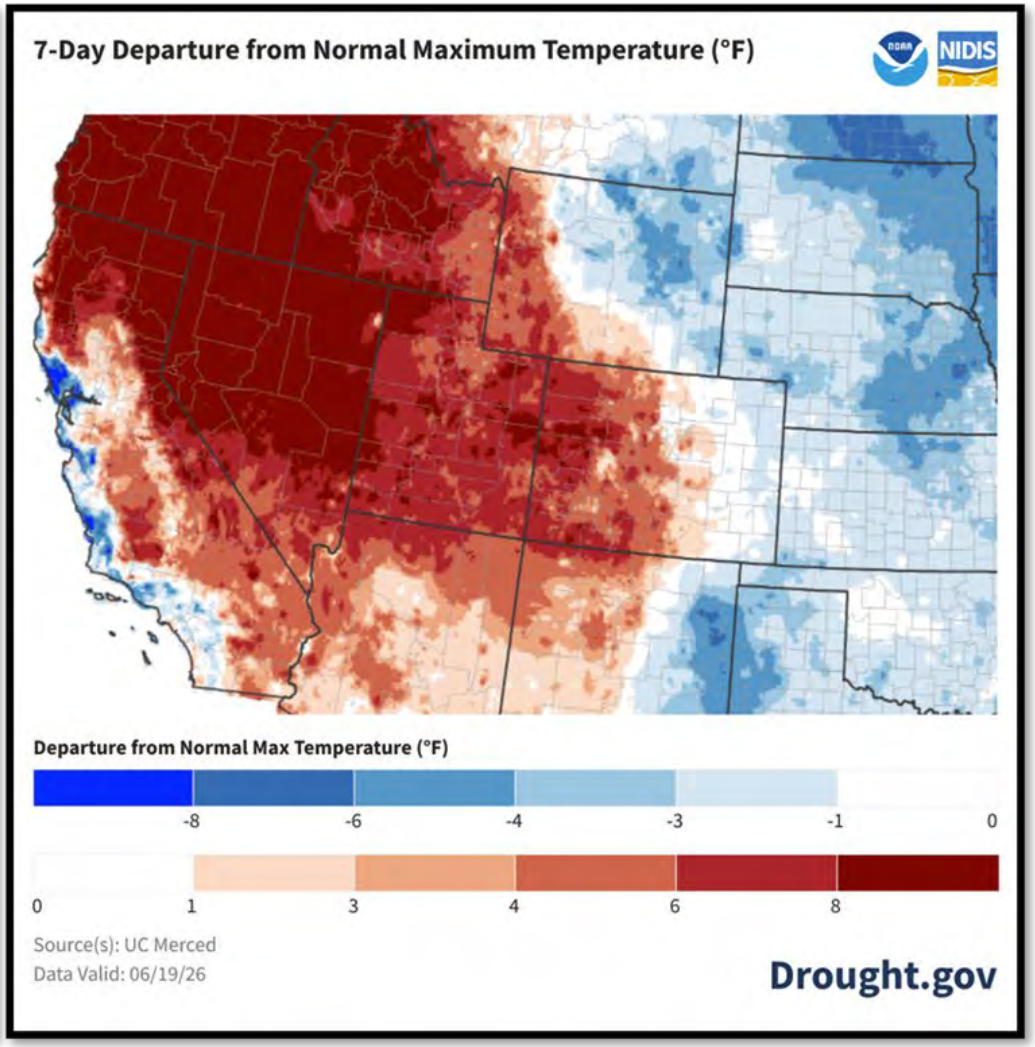




Agency - Utah Climate Center
Presenter - Jon Meyer

Temperature Summary





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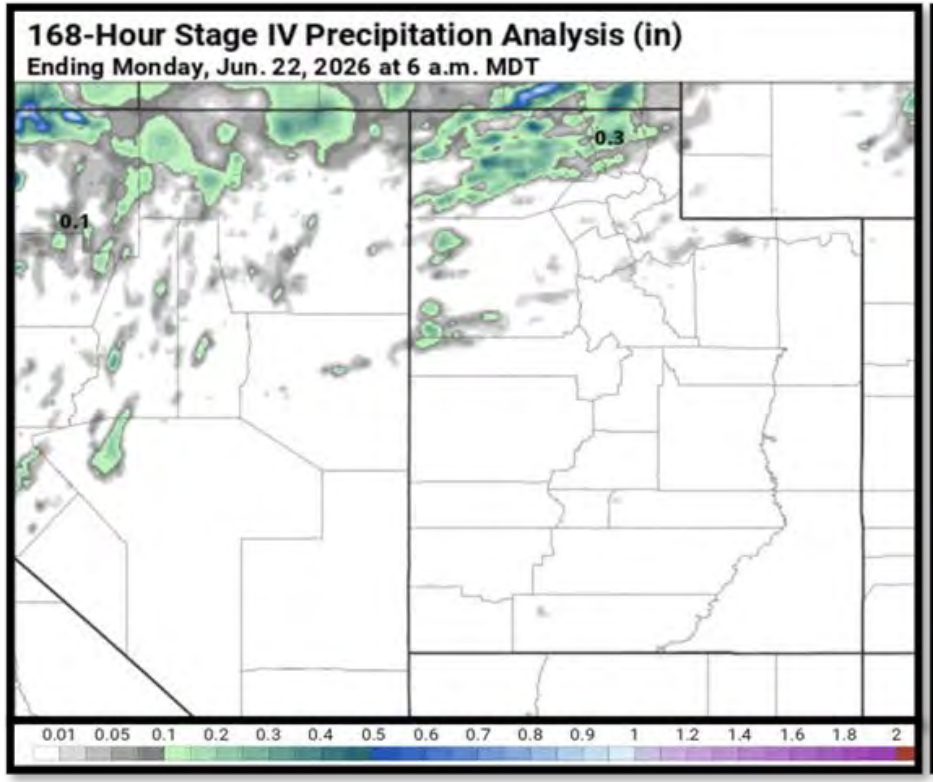
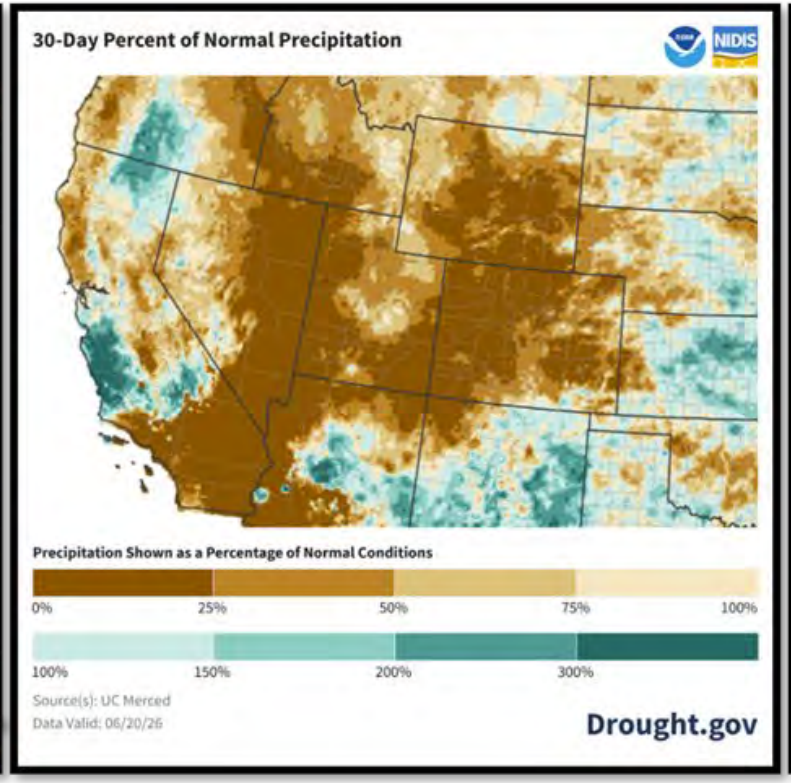
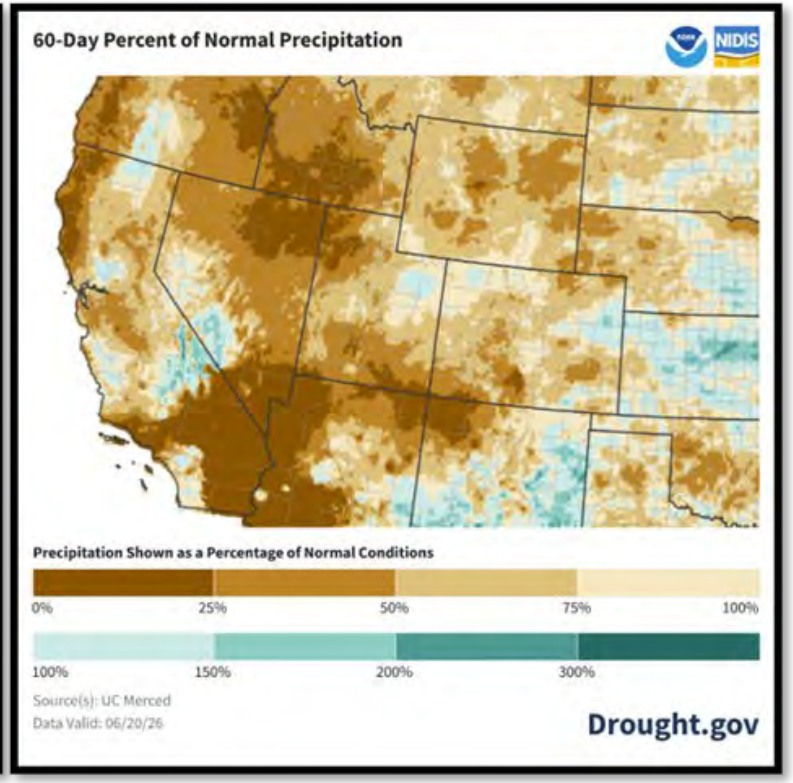
Precipitation Summary







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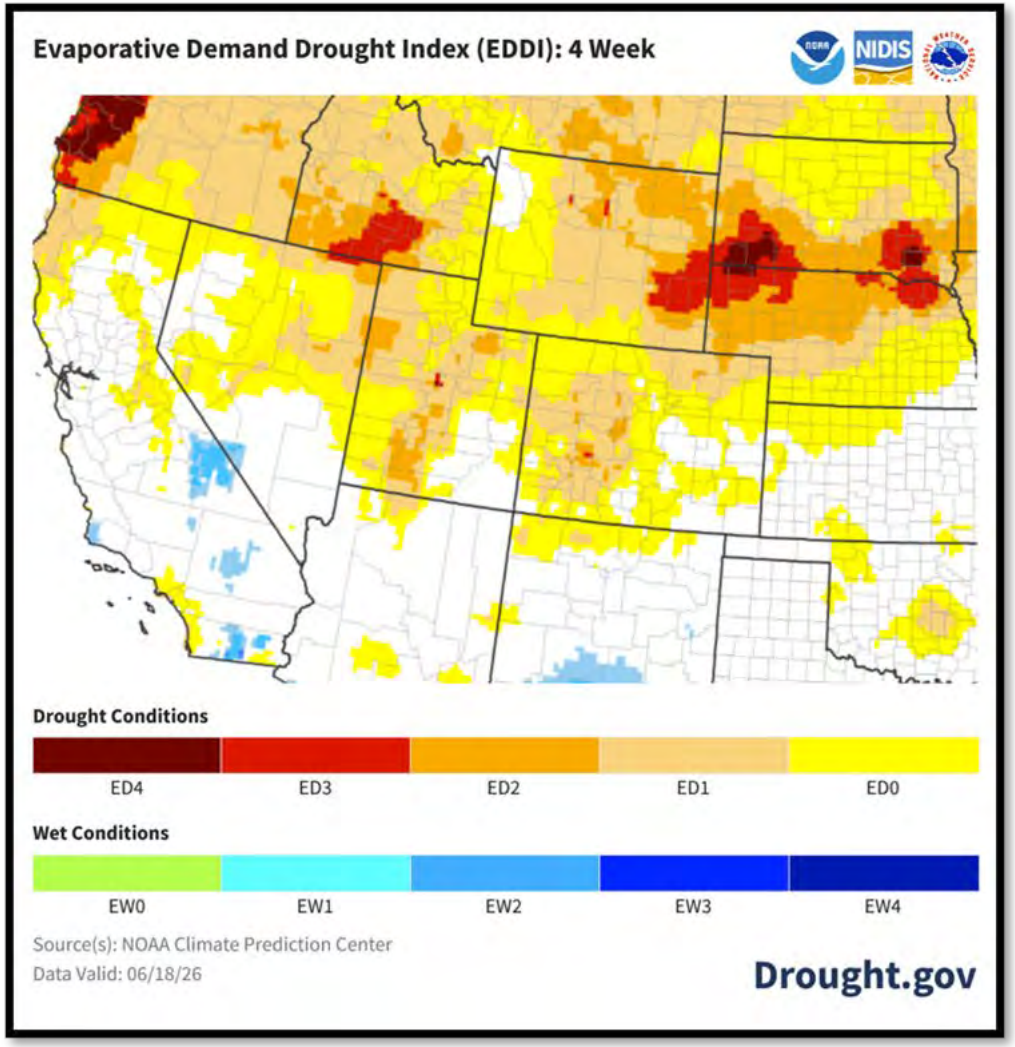
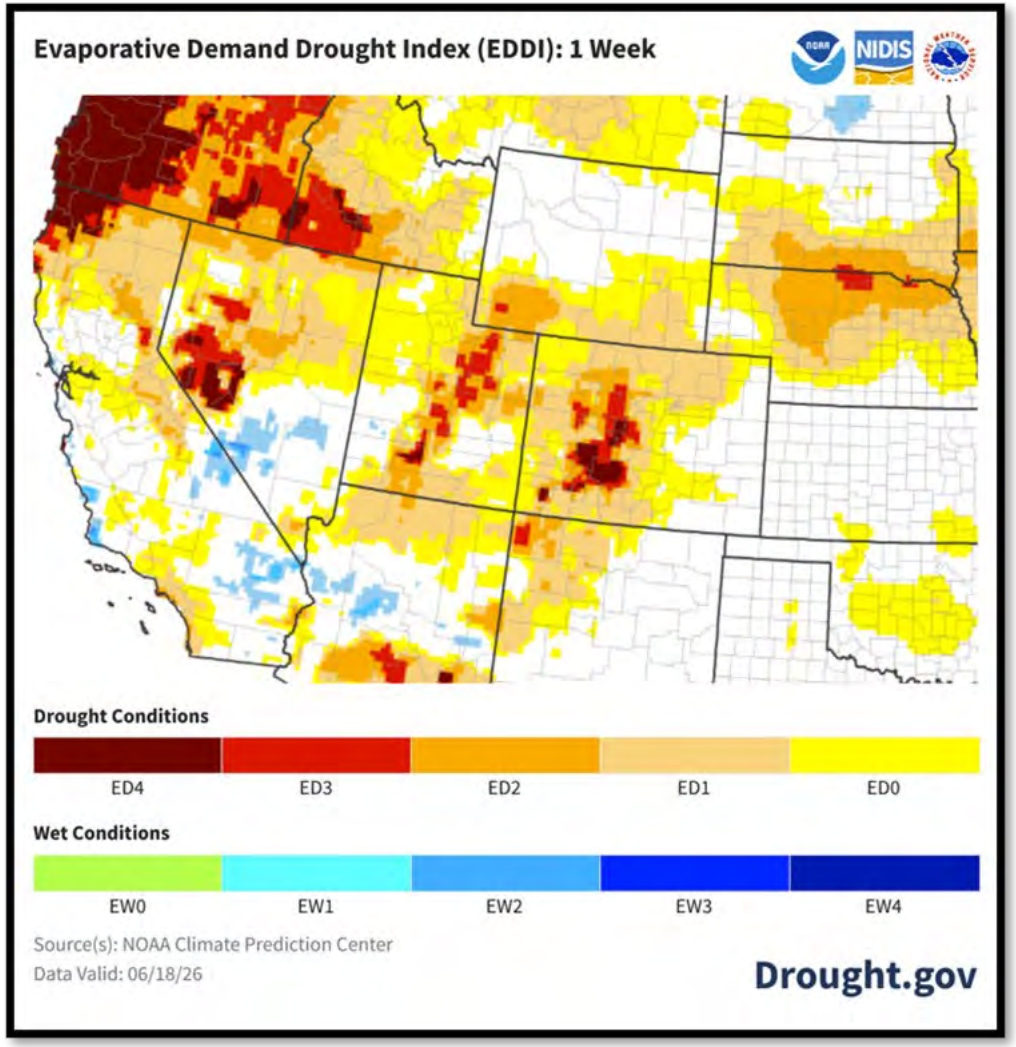
Recent Evaporative Demand





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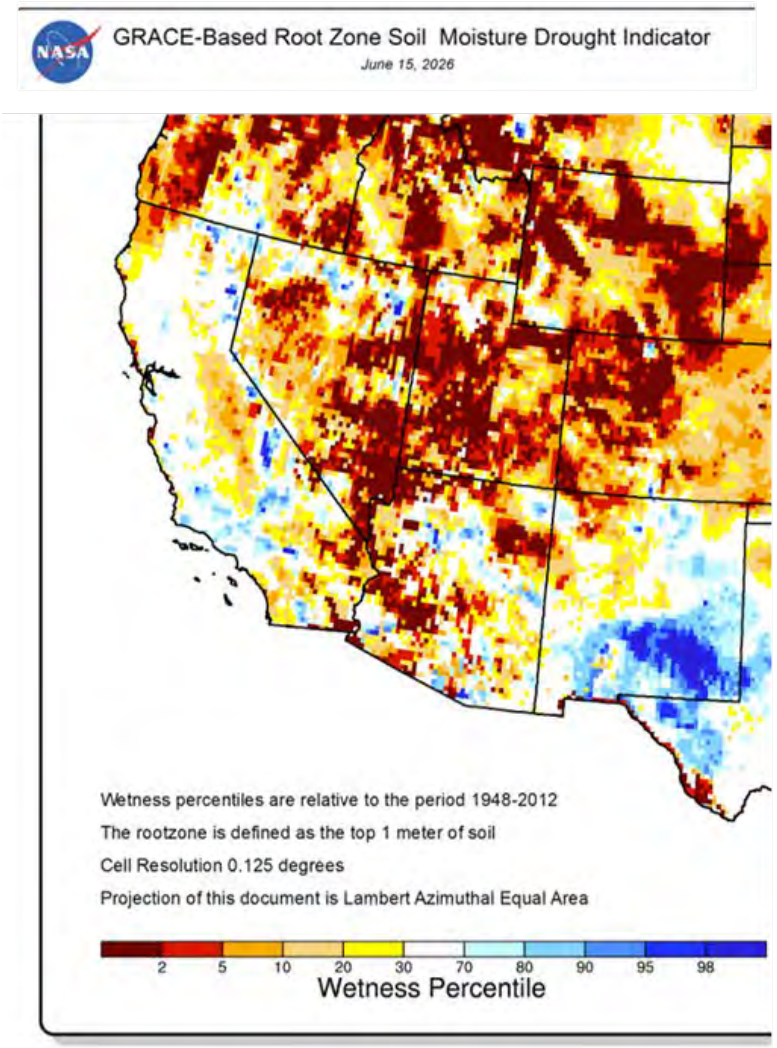
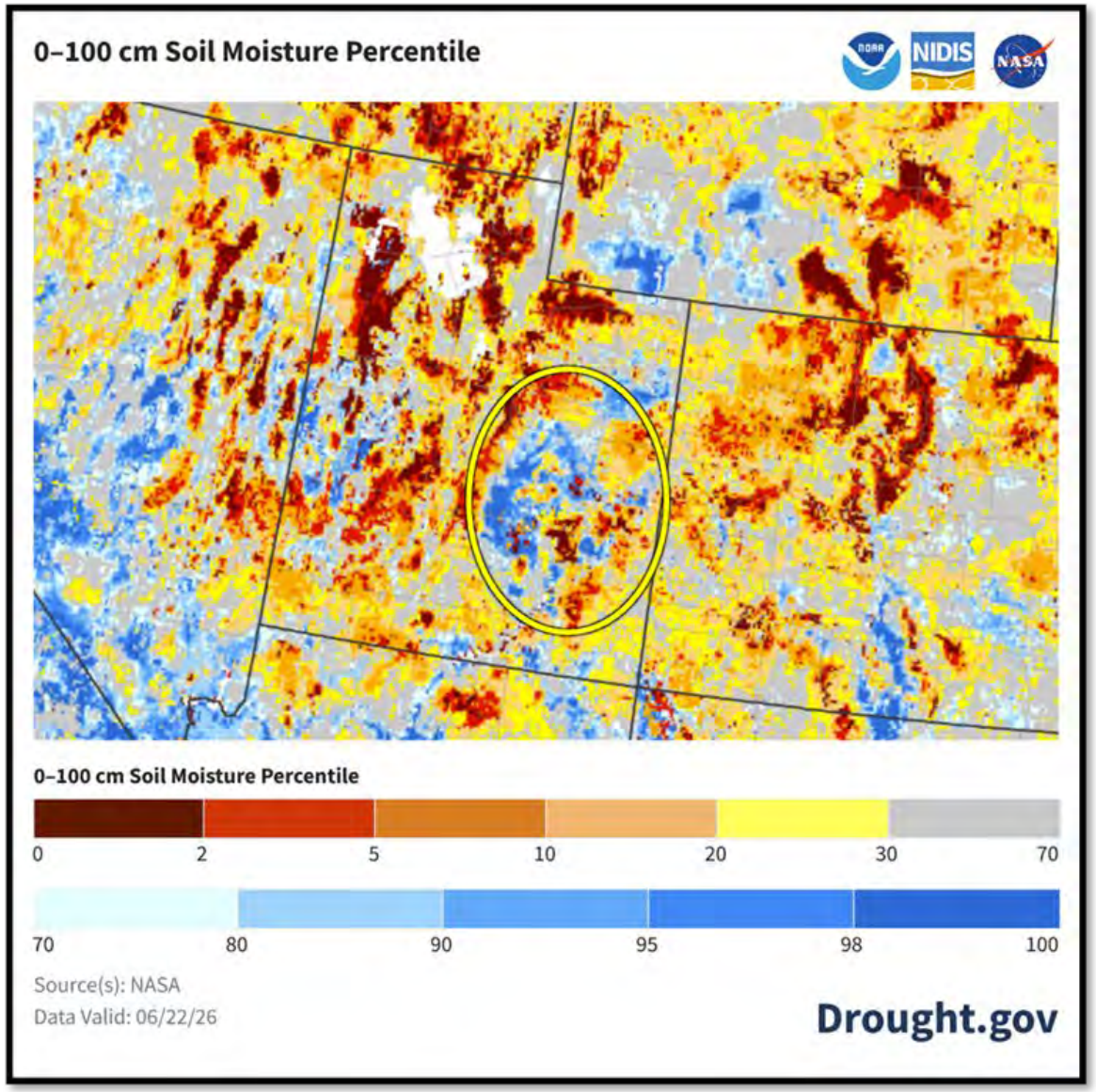
Soil Moisture Perspectives





Feedback on soil moisture conditions in Emery, Wayne, Garfield Counties

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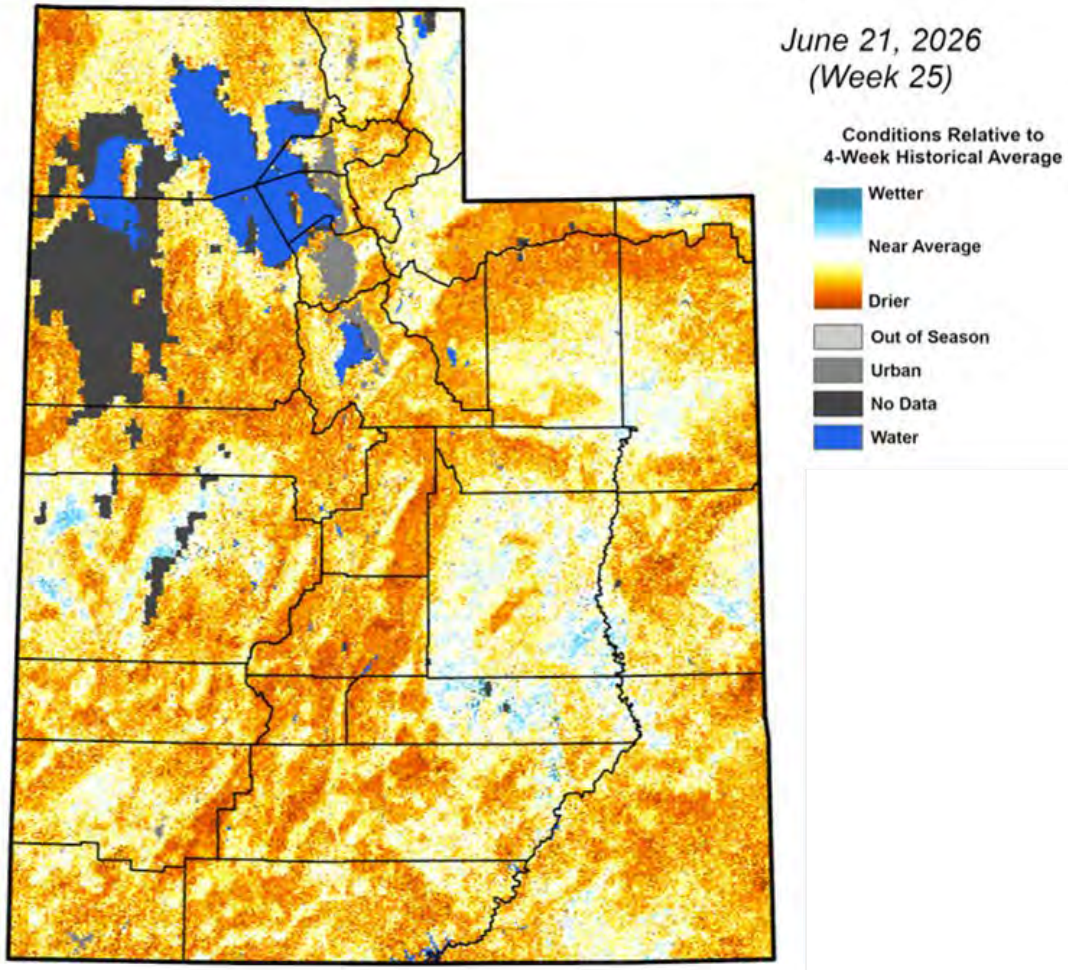
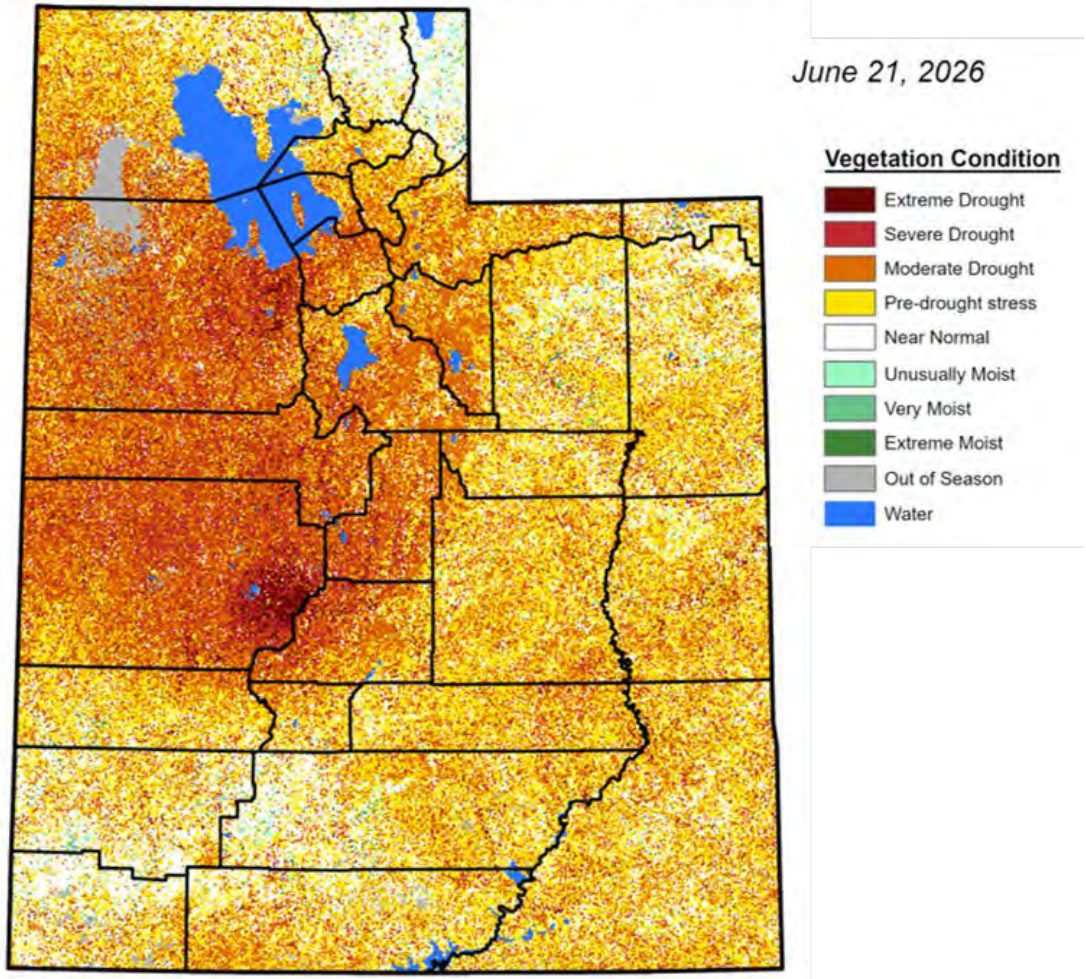
Presenter - Jon Meyer

Short-Term Drought Pressure

Quick-Drought Response Index



Vegetation-Drought Response Index
Complete: Range + Crop



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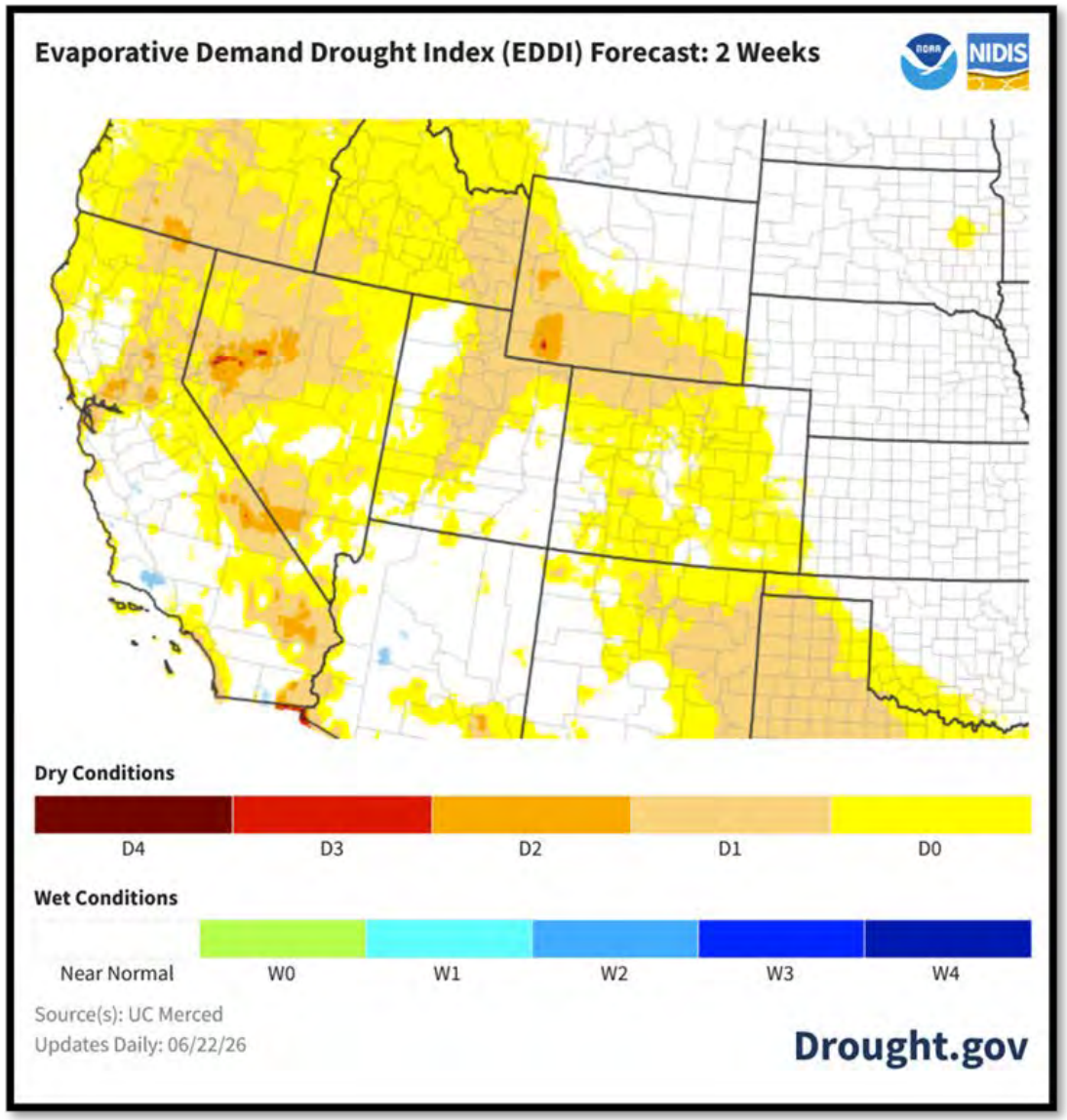
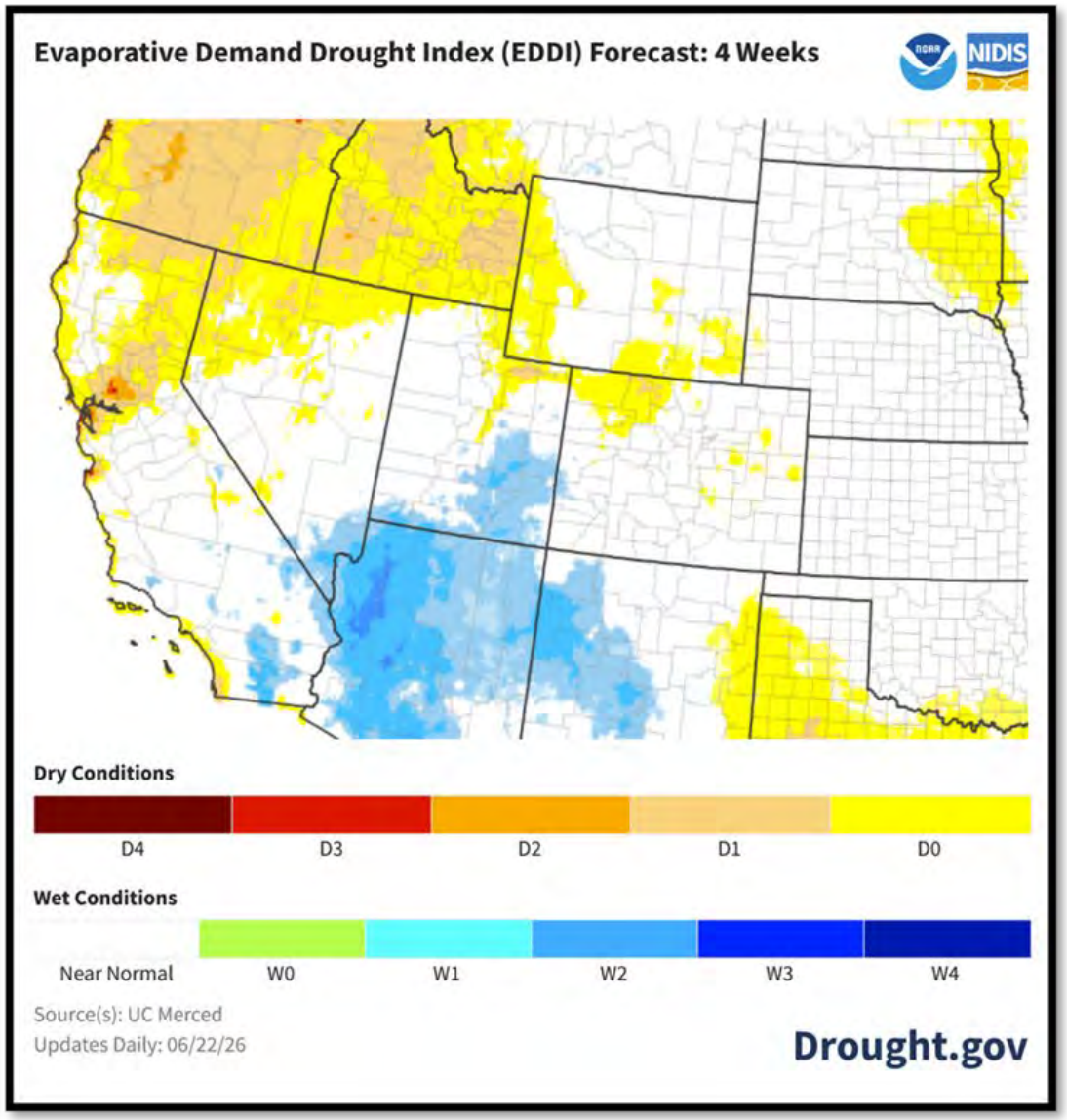
Presenter - Jon Meyer

EDDI Outlook





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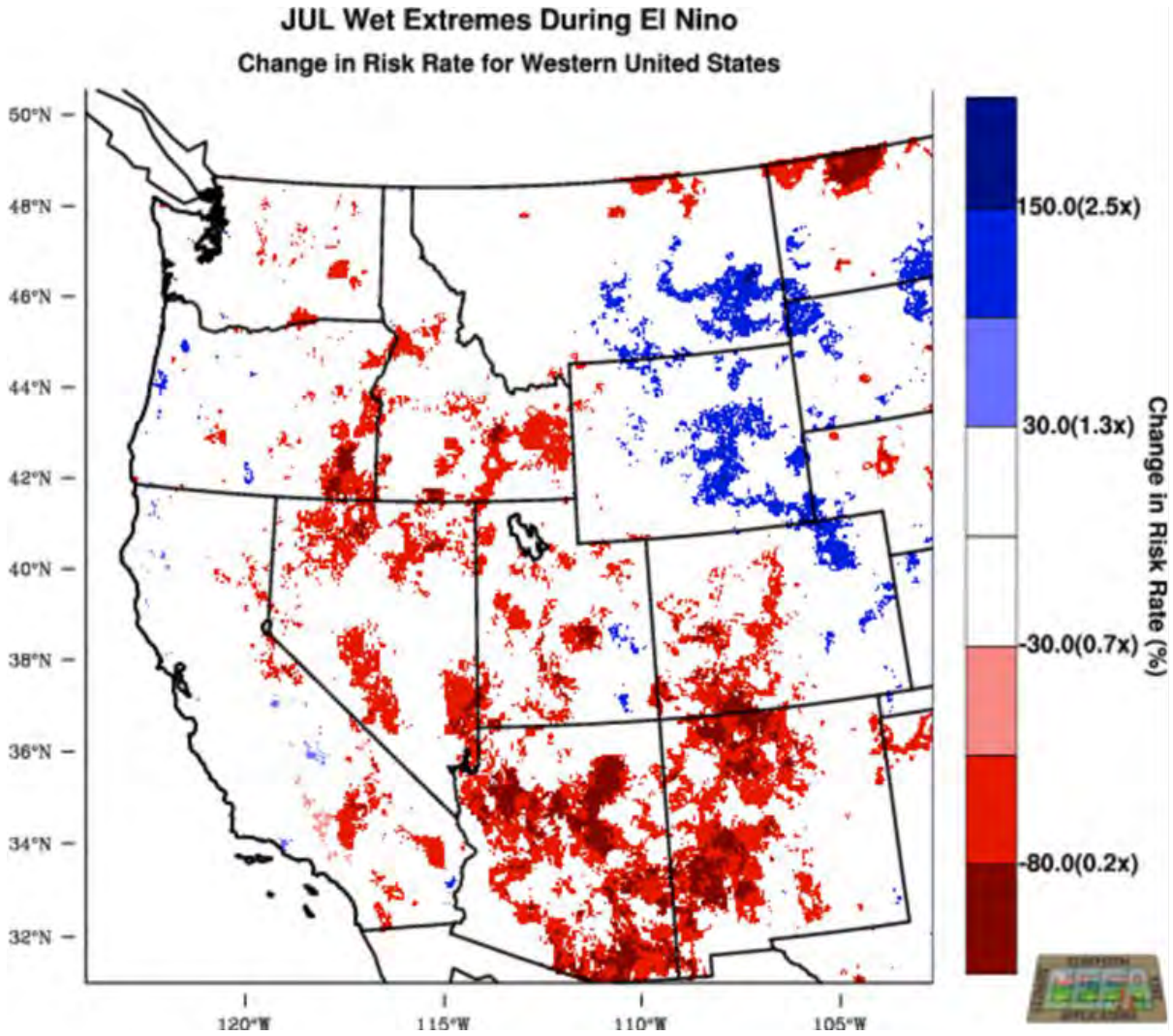
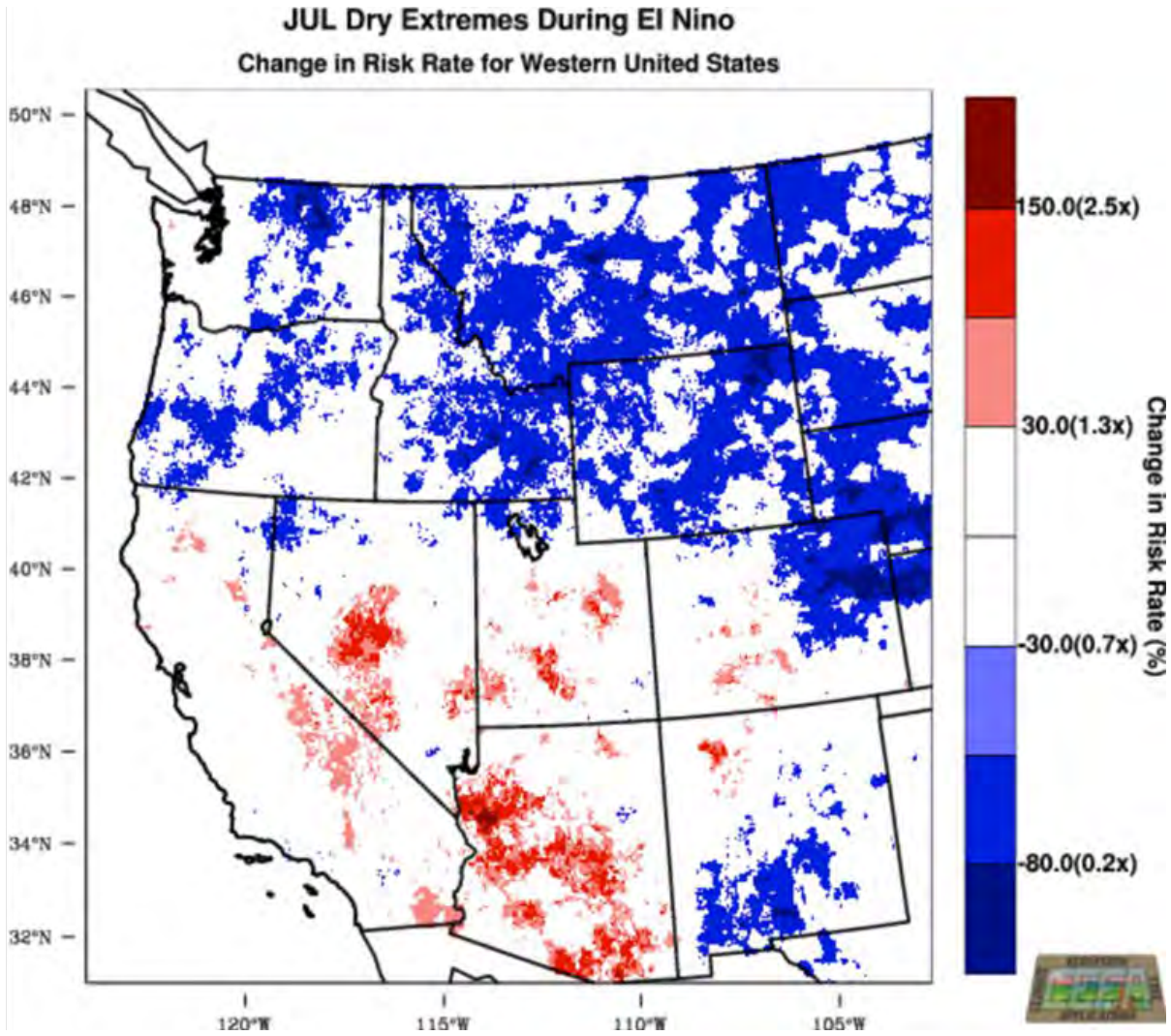
July Monsoon vs El Nino





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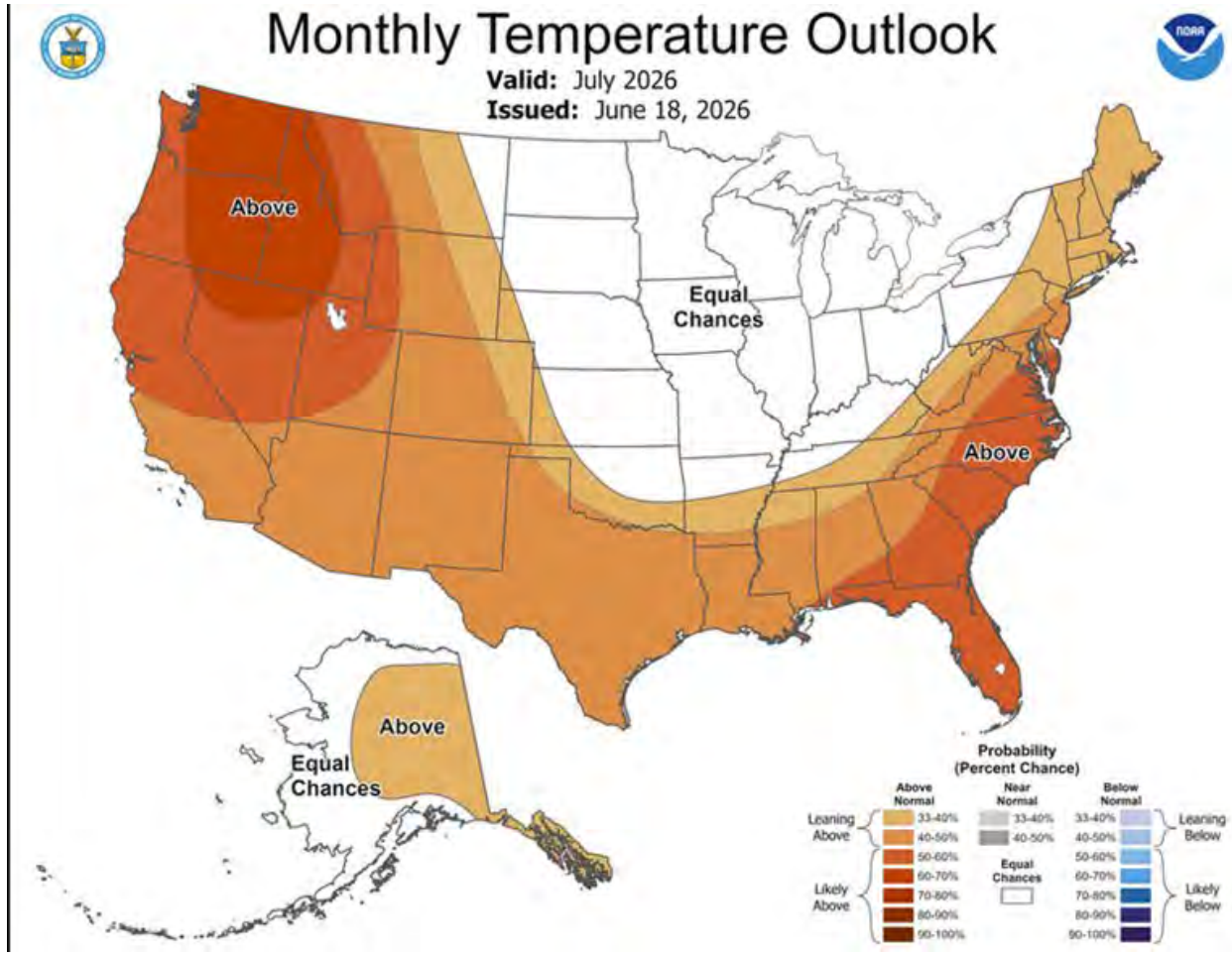
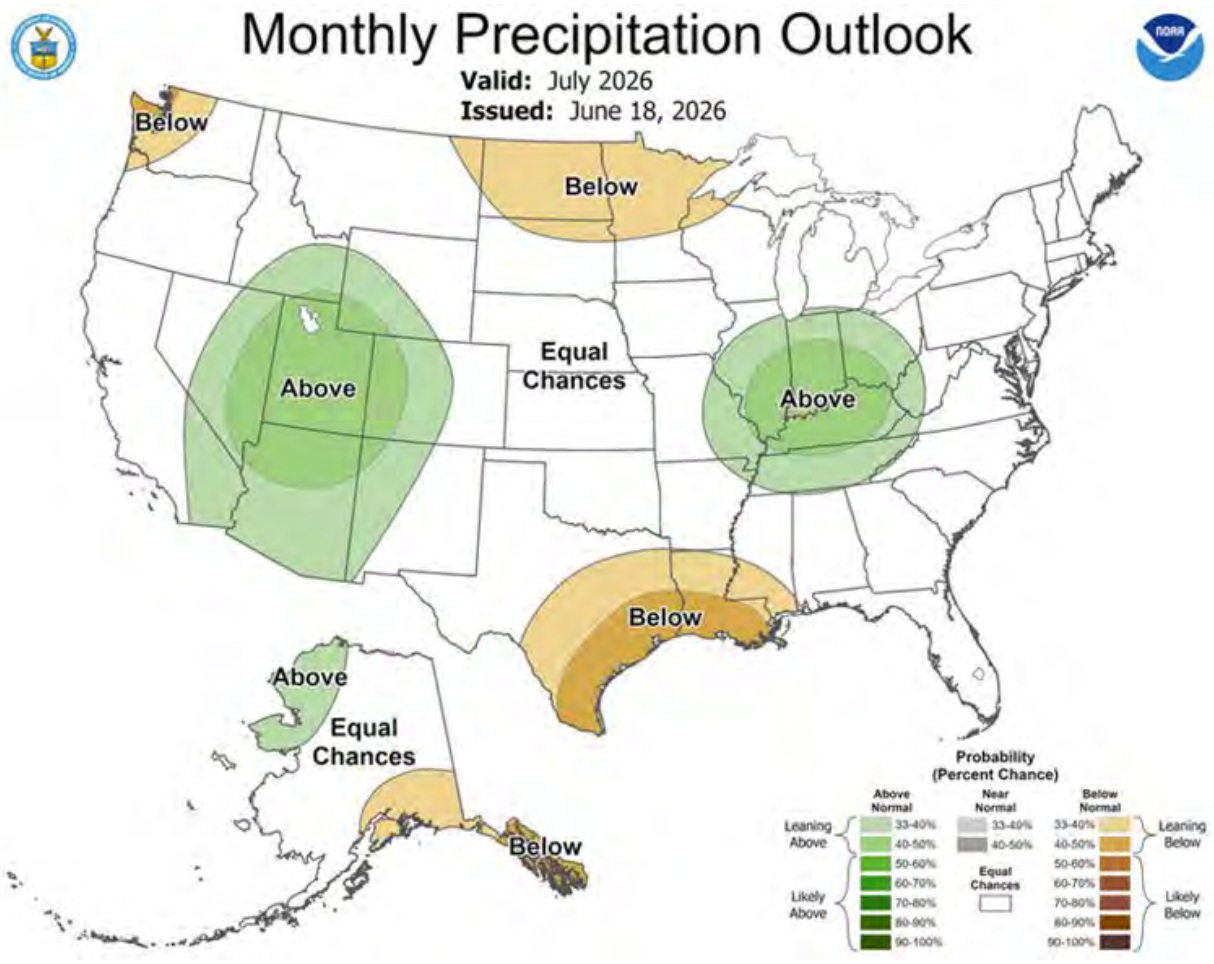
Presenter - Jon Meyer

July Outlook





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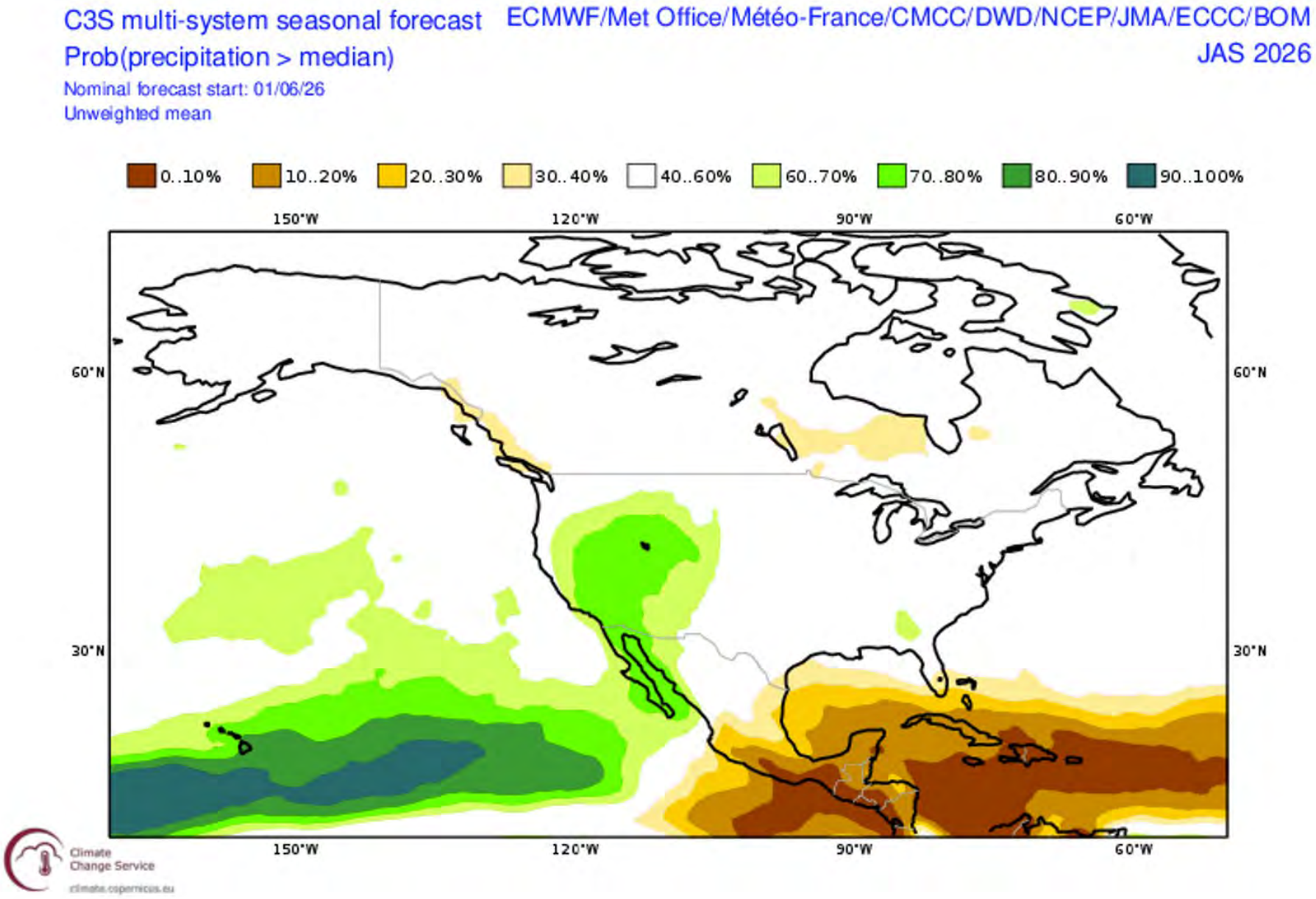
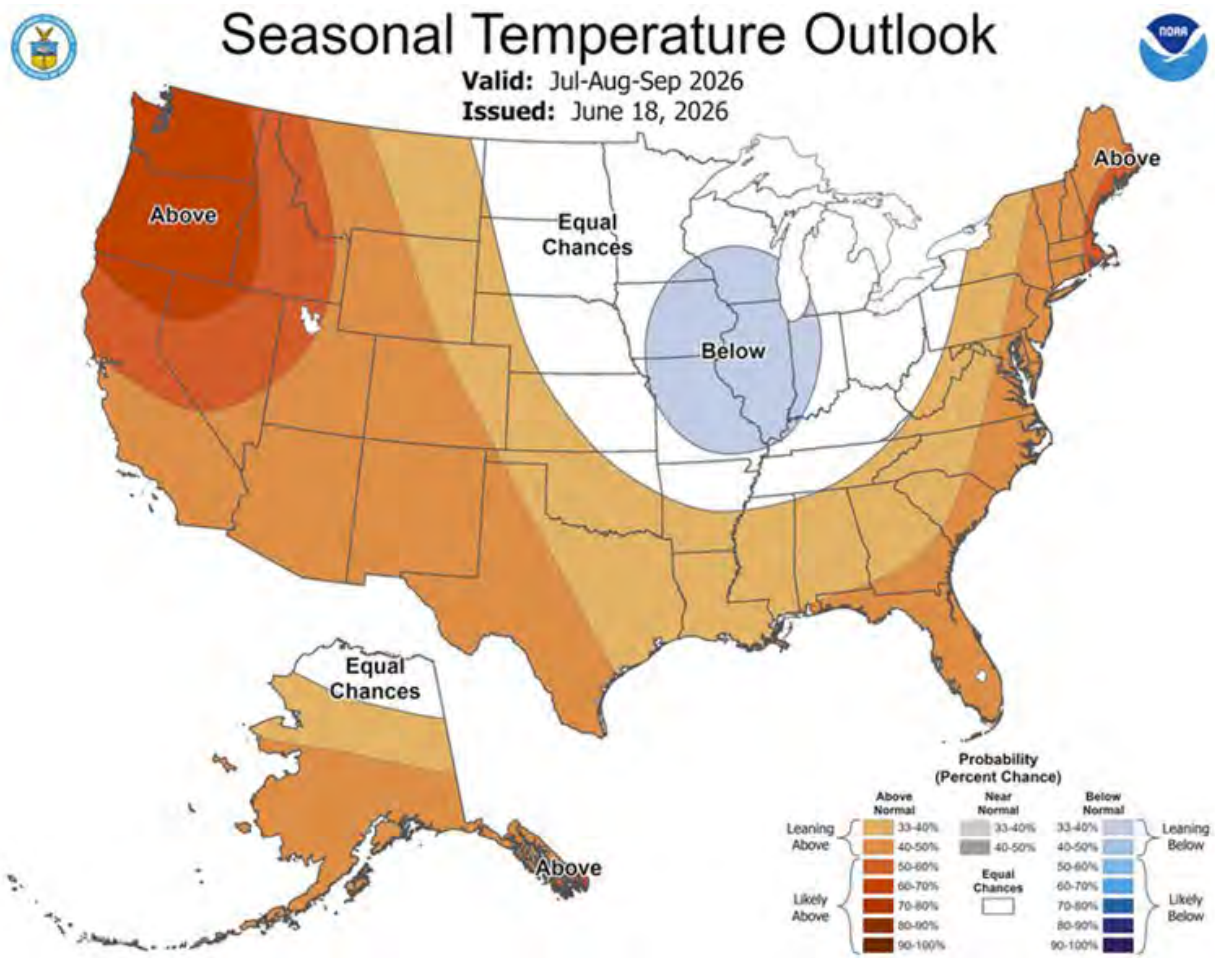
Presenter - Jon Meyer

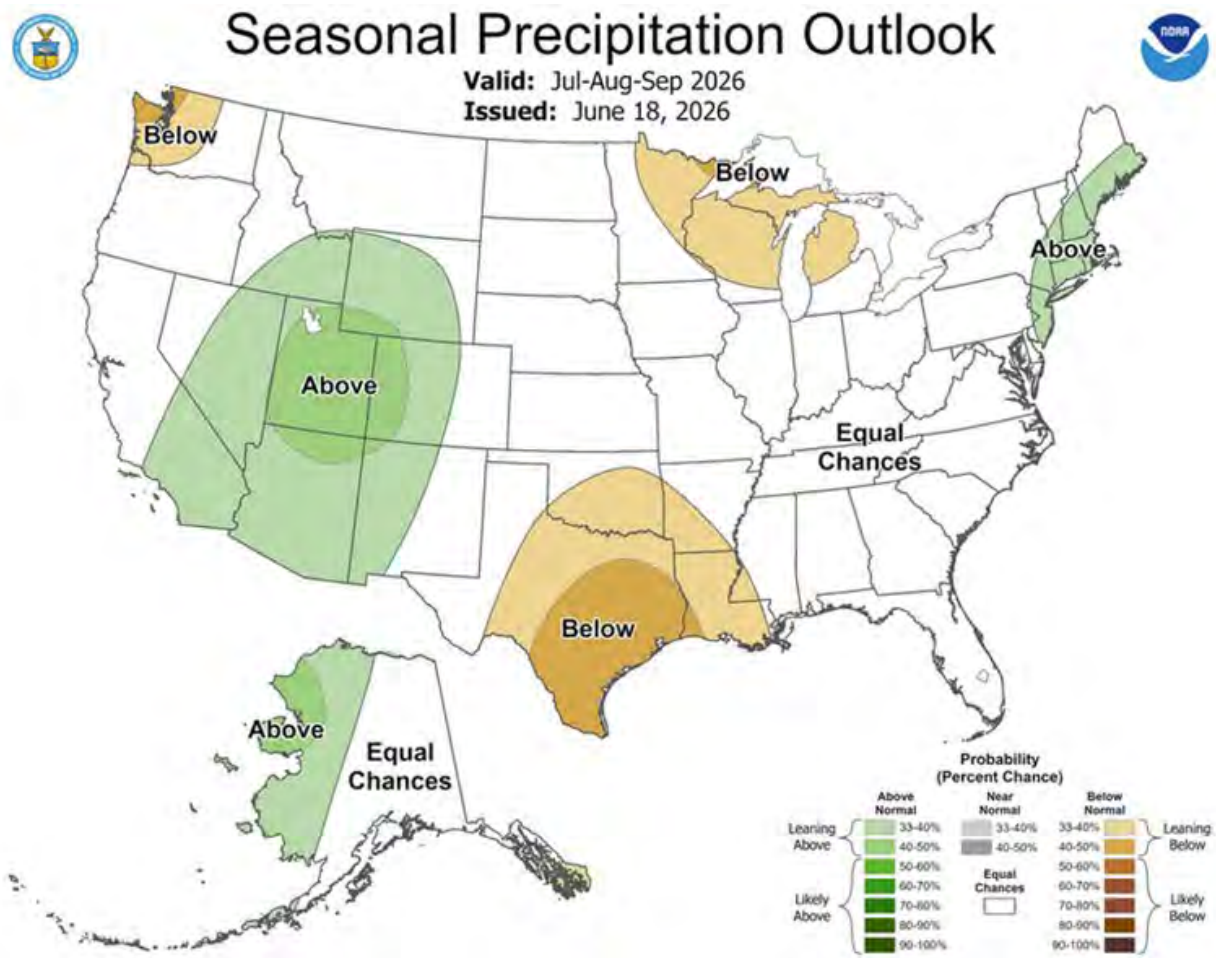
Summer Monsoon Outlook



Agency - Utah Climate Center
Presenter - Jon Meyer

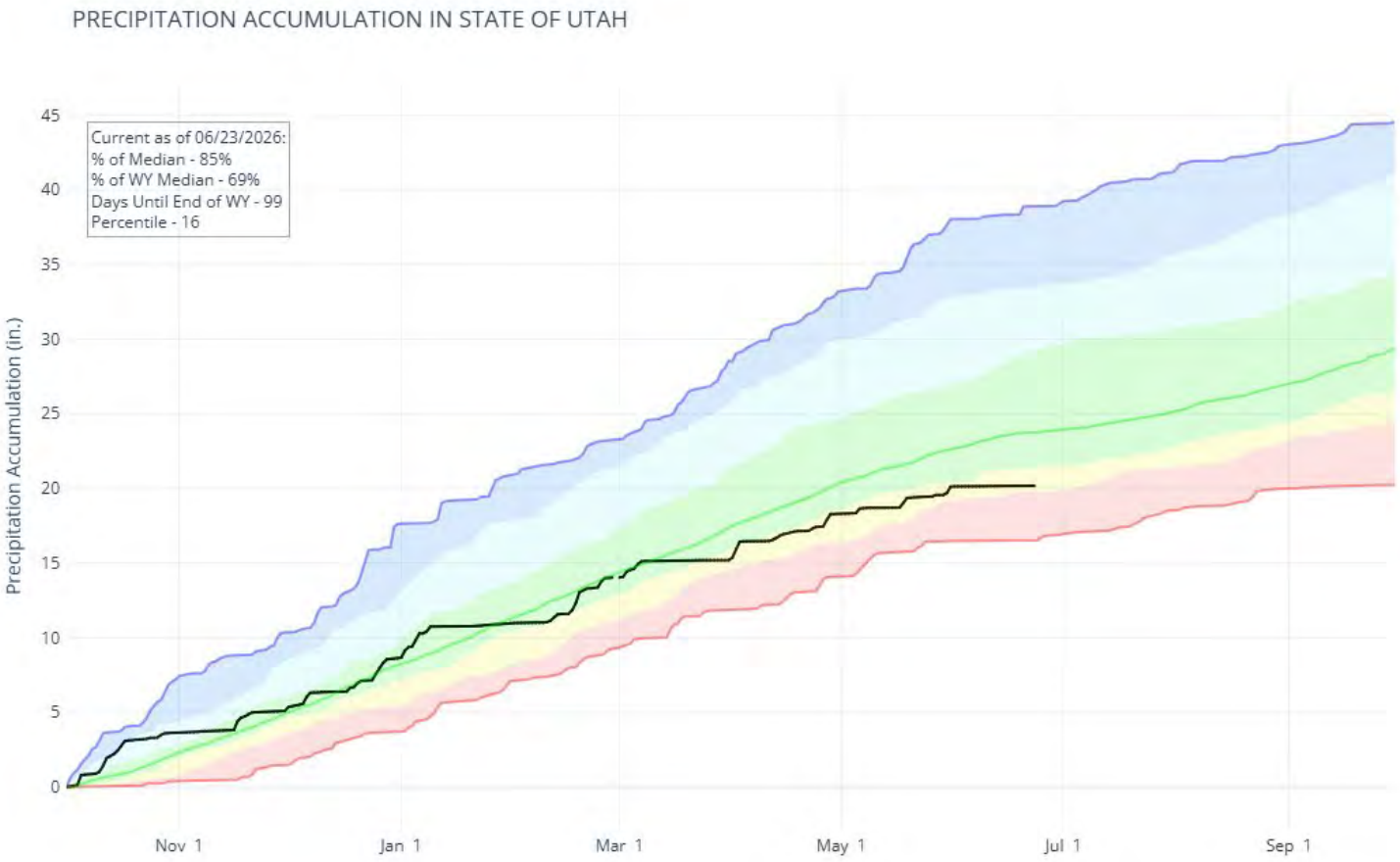
Summer Outlook

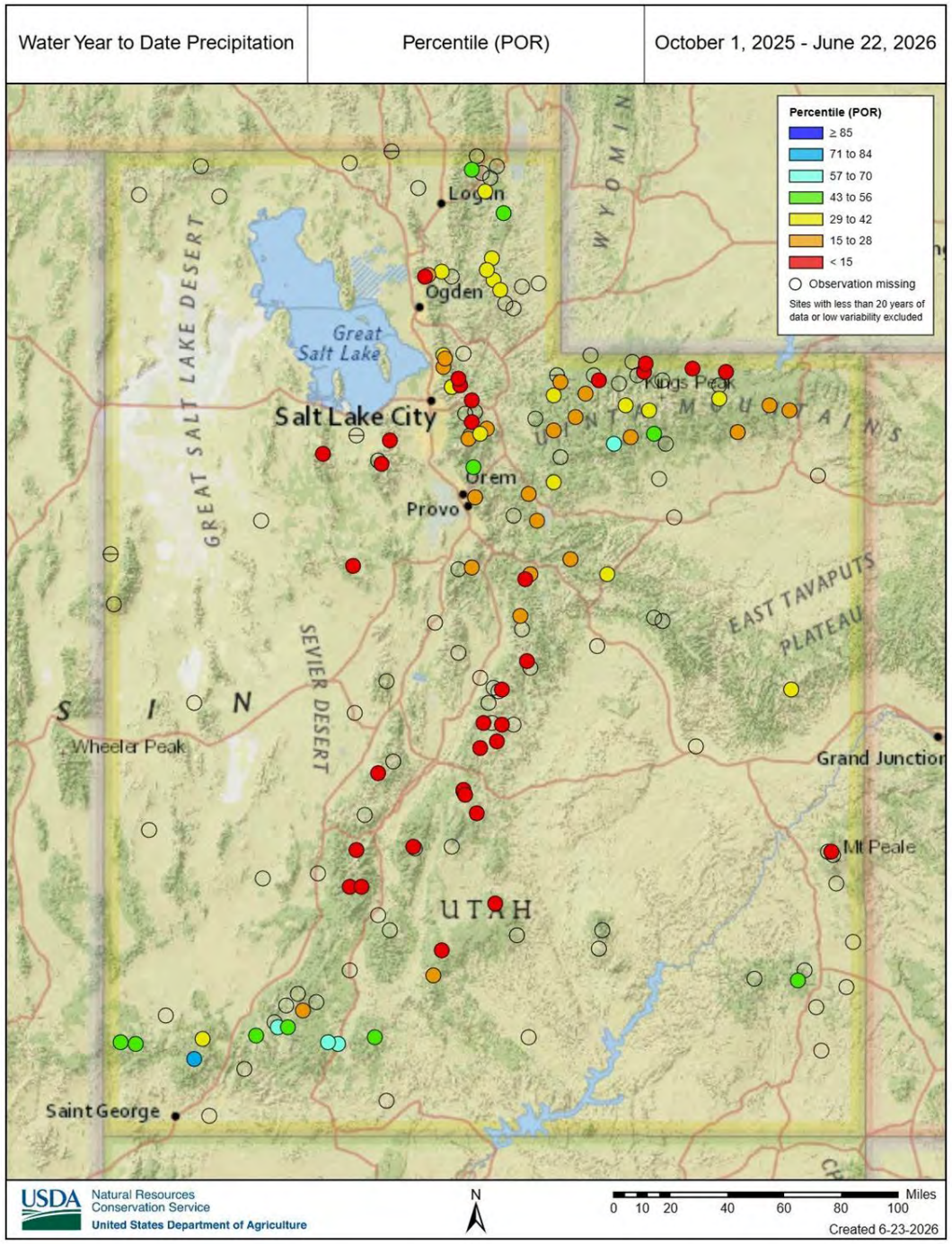




Agency - Utah Climate Center
Presenter - Jon Meyer

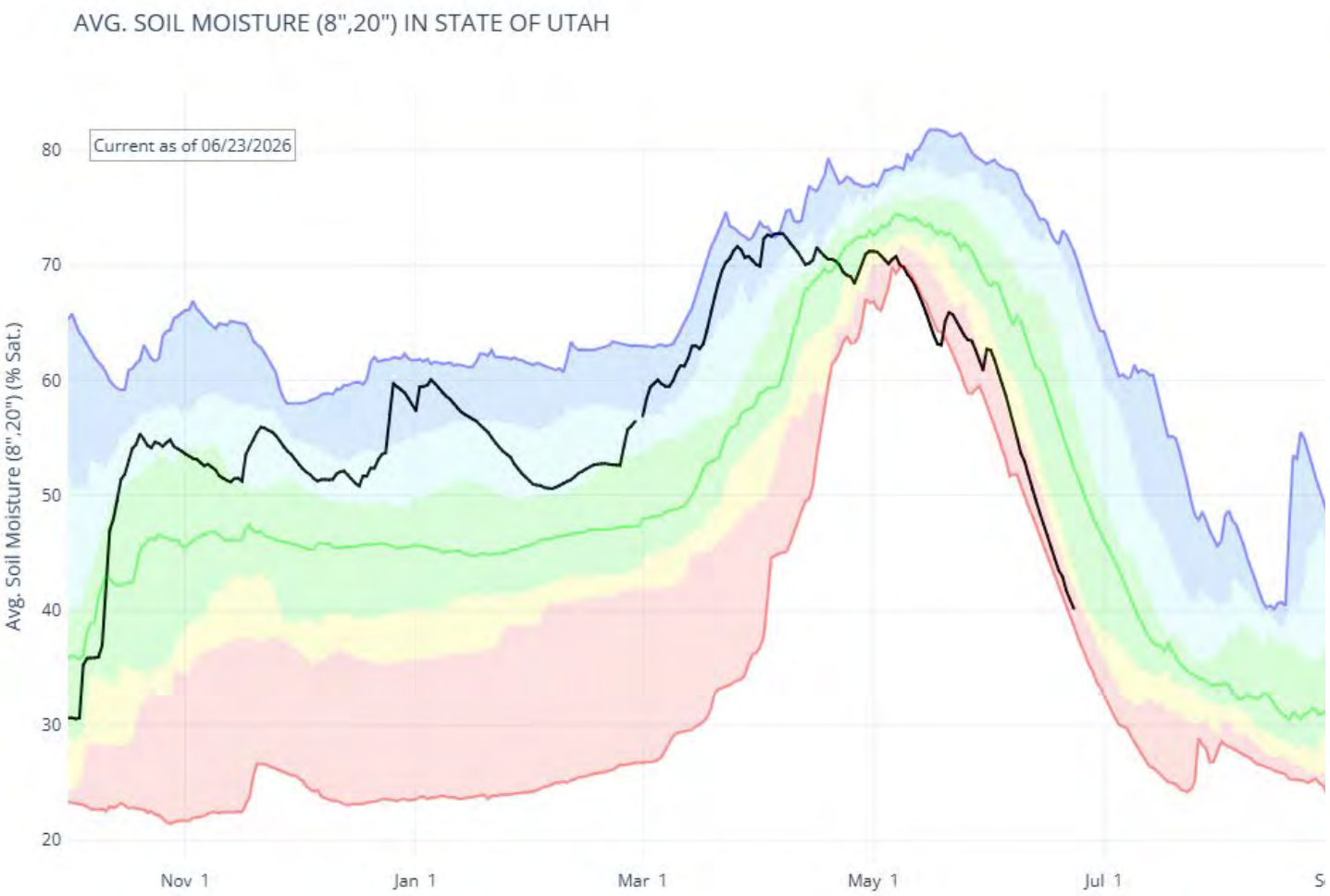
Precipitation in Utah’s mountains

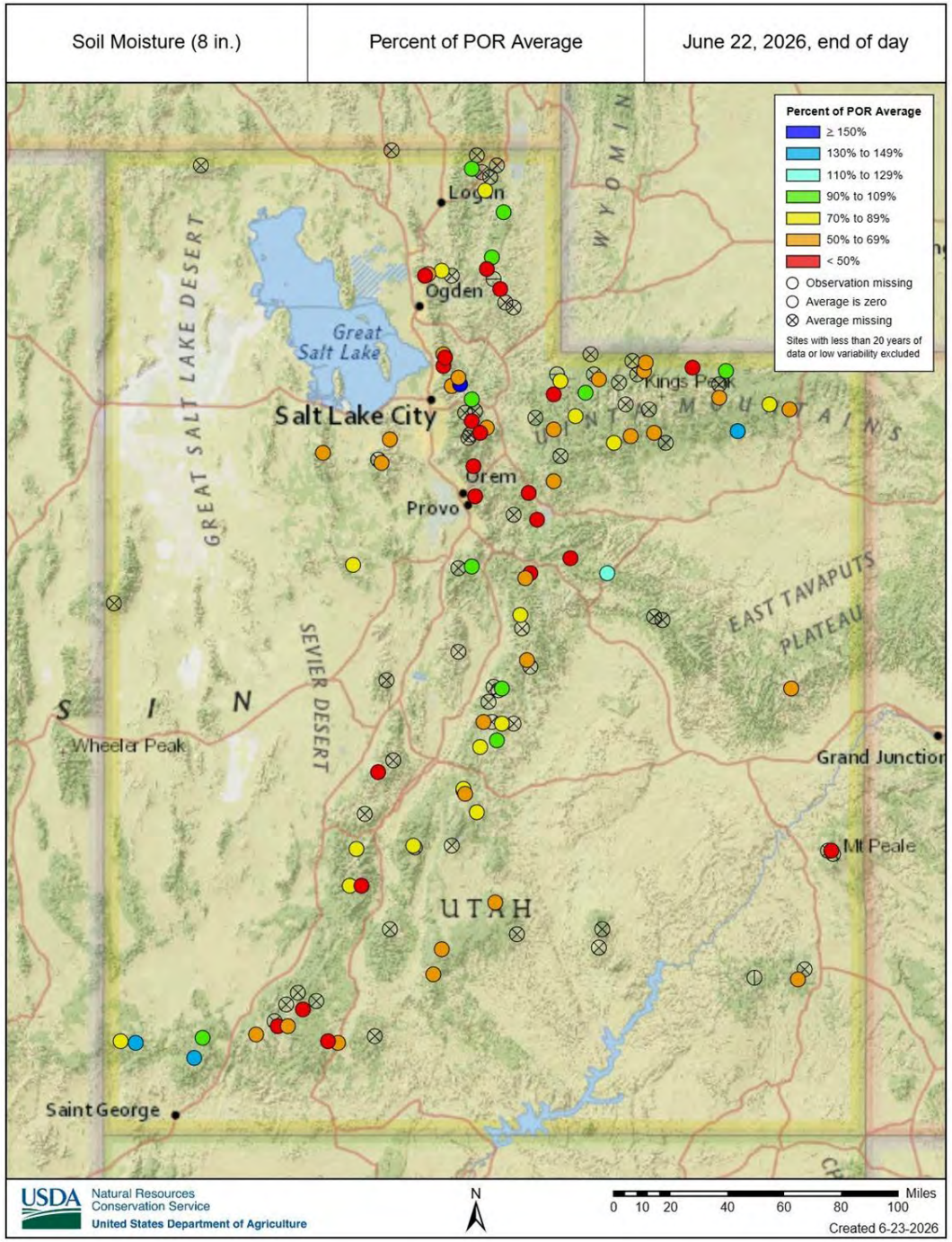




Agency - NRCS Snow Survey
Presenter – Jordan Clayton

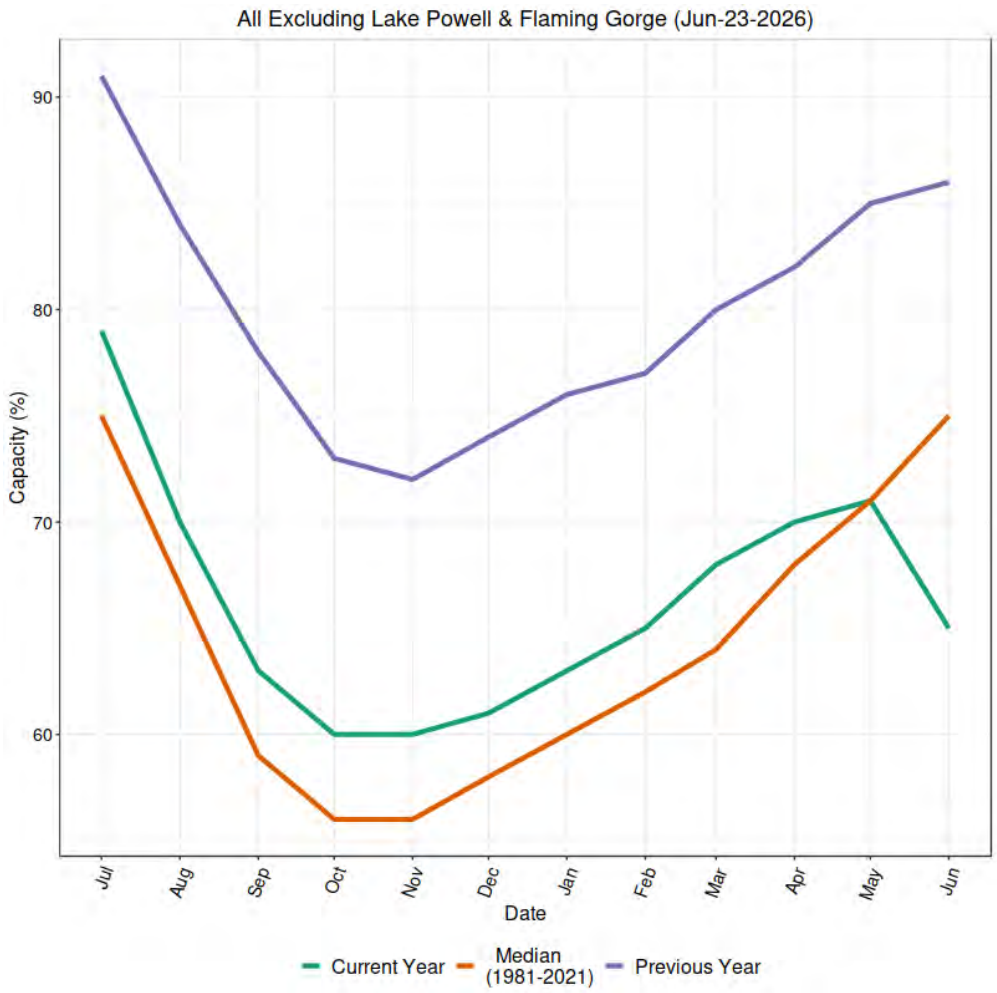
Soil Moisture in Utah’s mountains

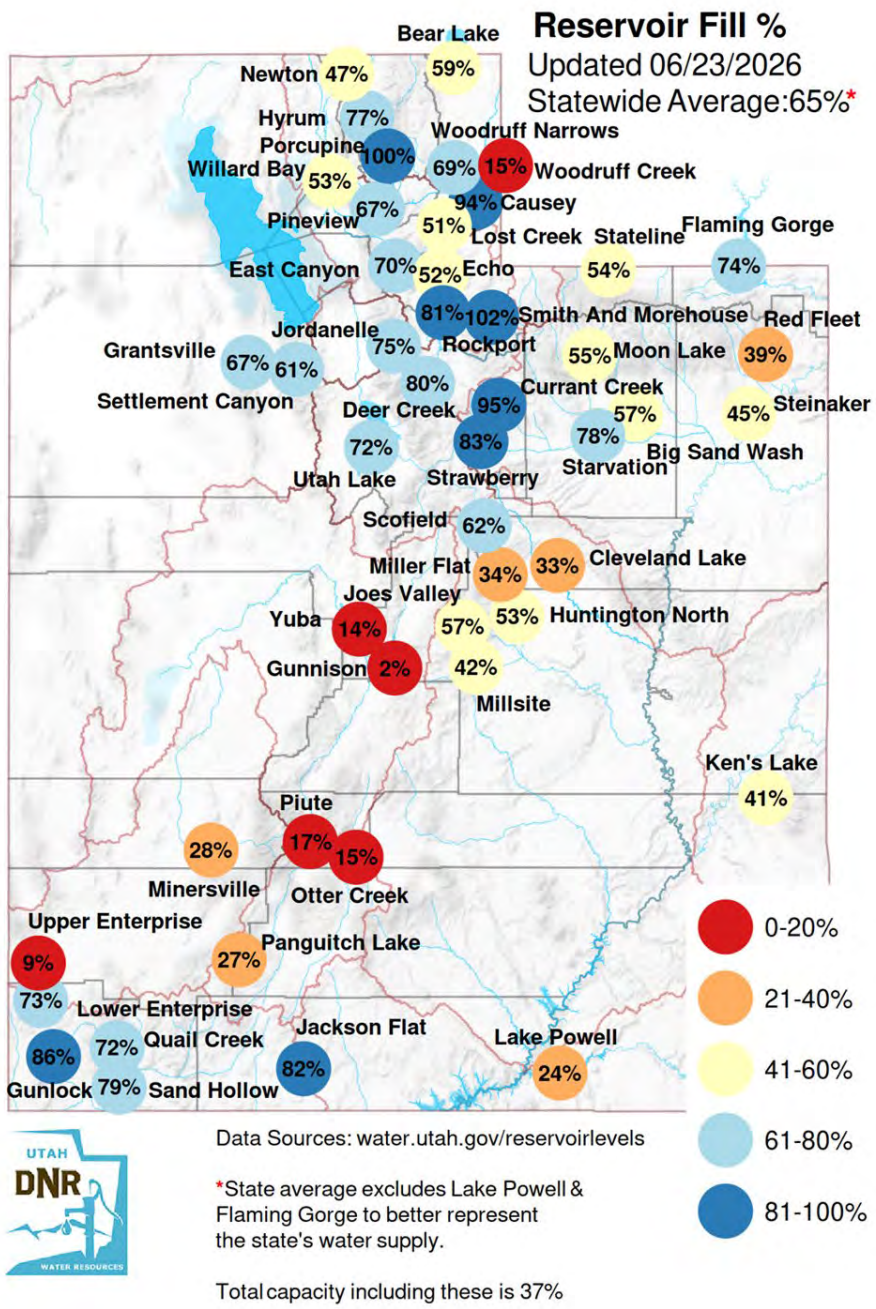




Agency – NRCS Snow Survey
Presenter – Jordan Clayton

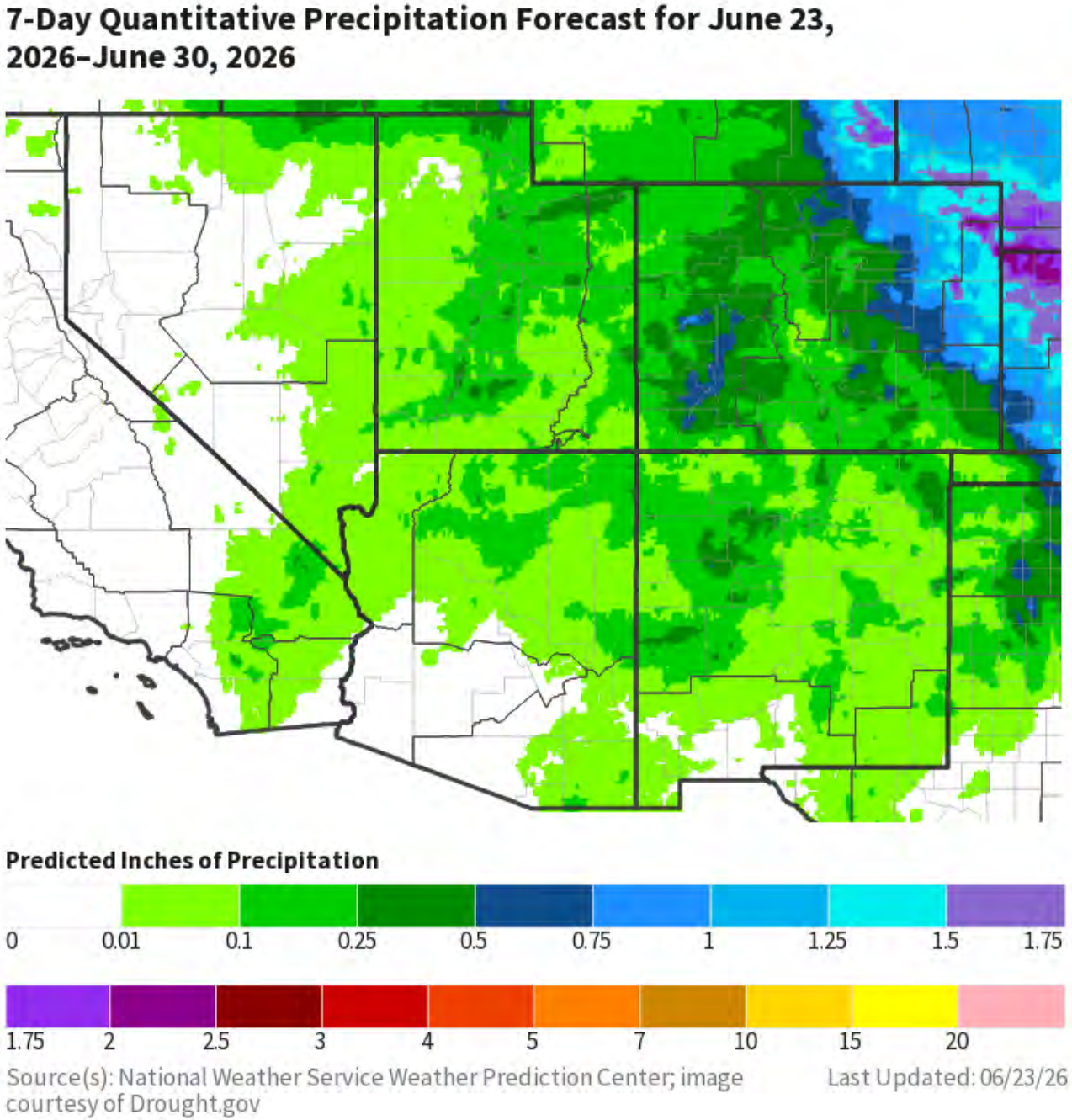
Statewide Reservoirs





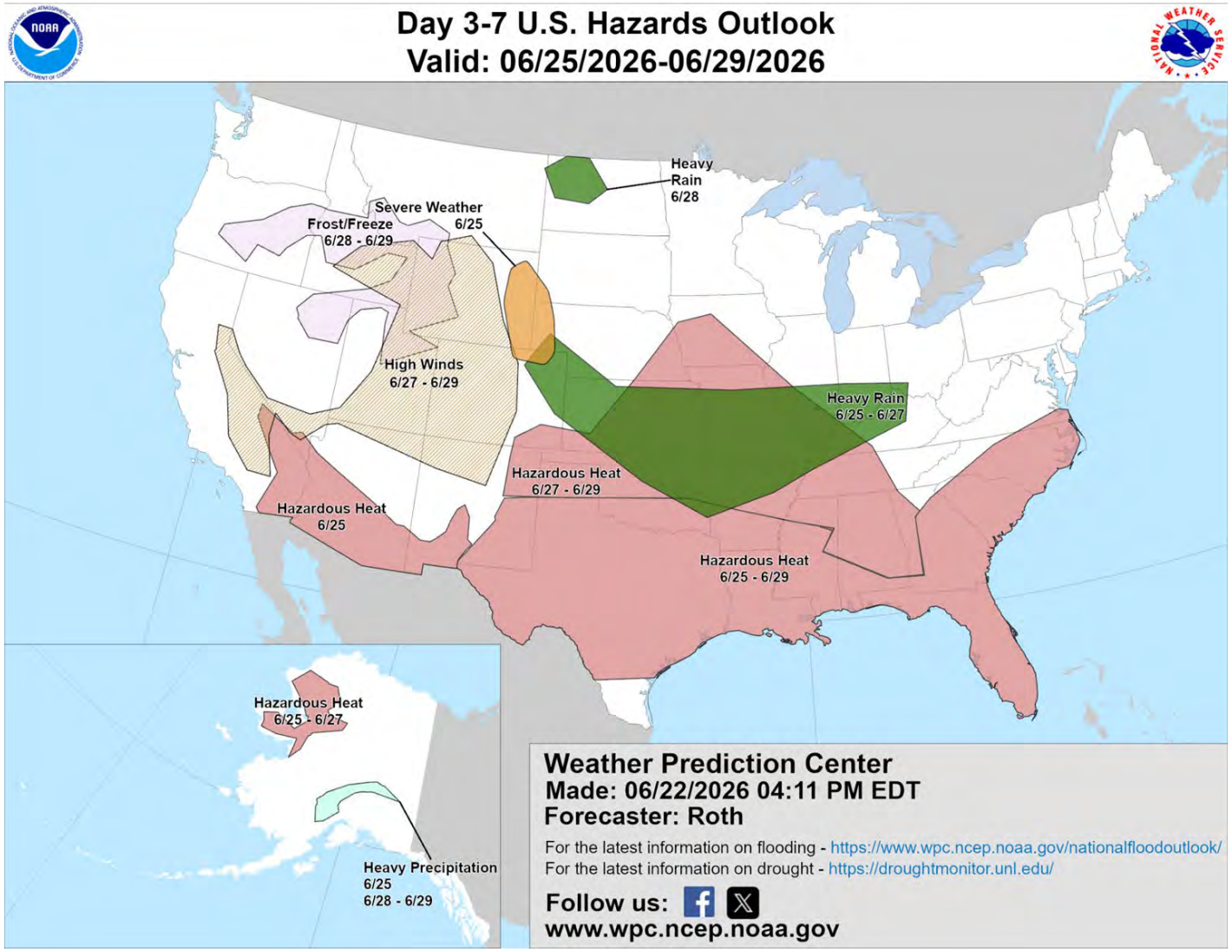
Agency - Utah Division of Water Resources
Presenter – Laura Haskell

Day 1 to 7 Outlook



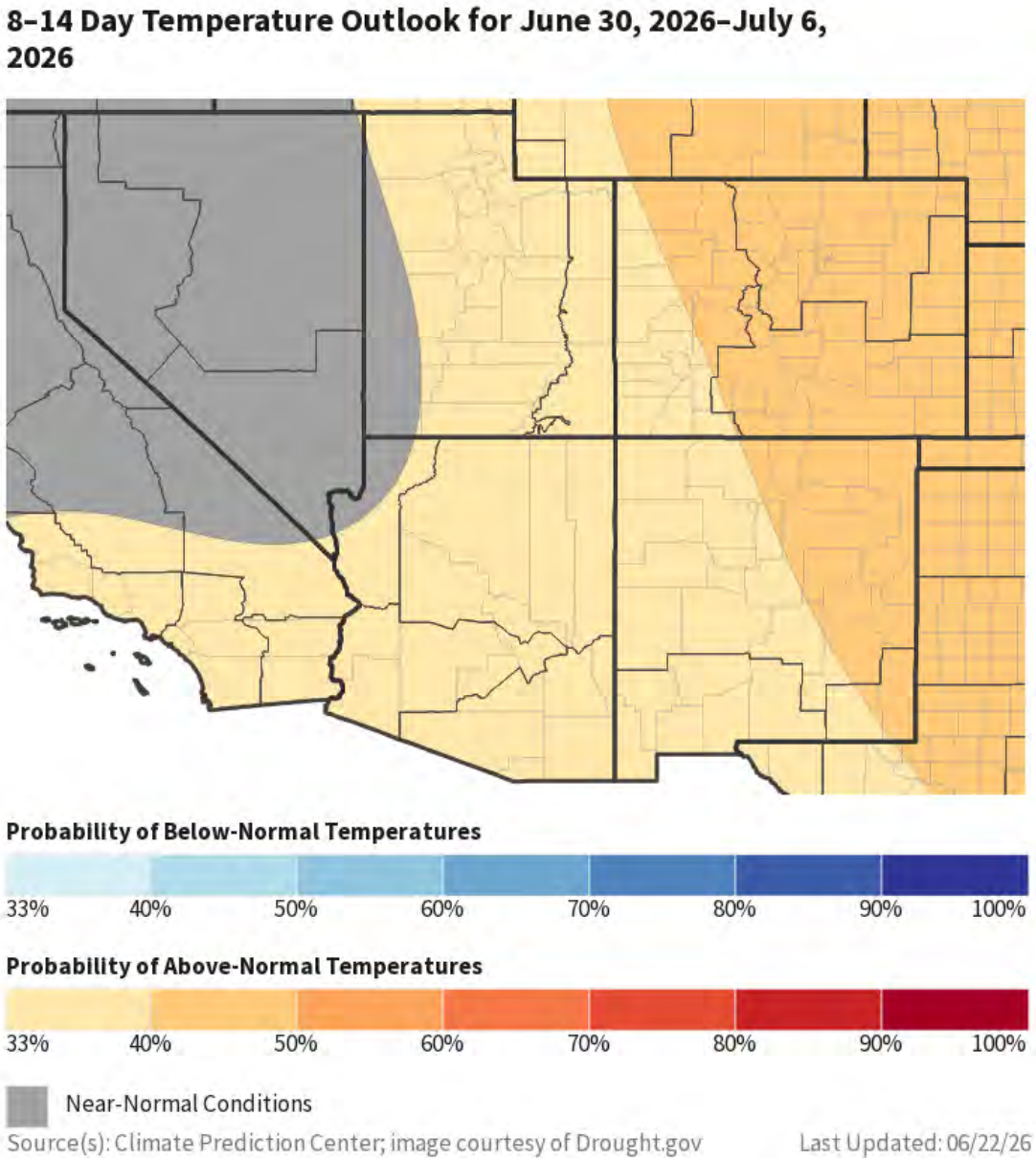
Agency – National Weather Service
Presenter – Christine Kruse

Day 3 to 7 Hazards



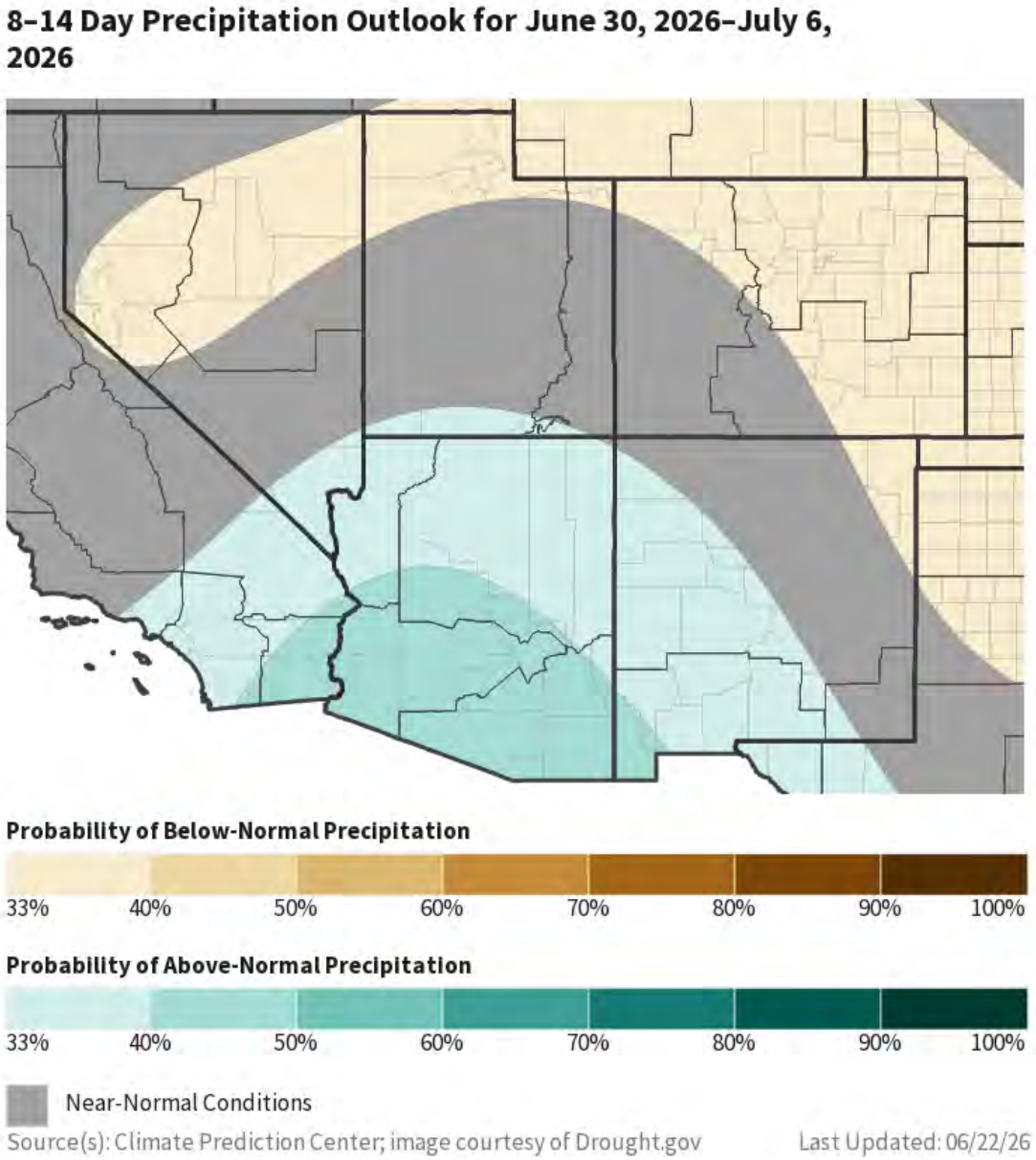
Agency – National Weather Service
Presenter – Christine Kruse

8 to 14 Day Outlooks - Temperature



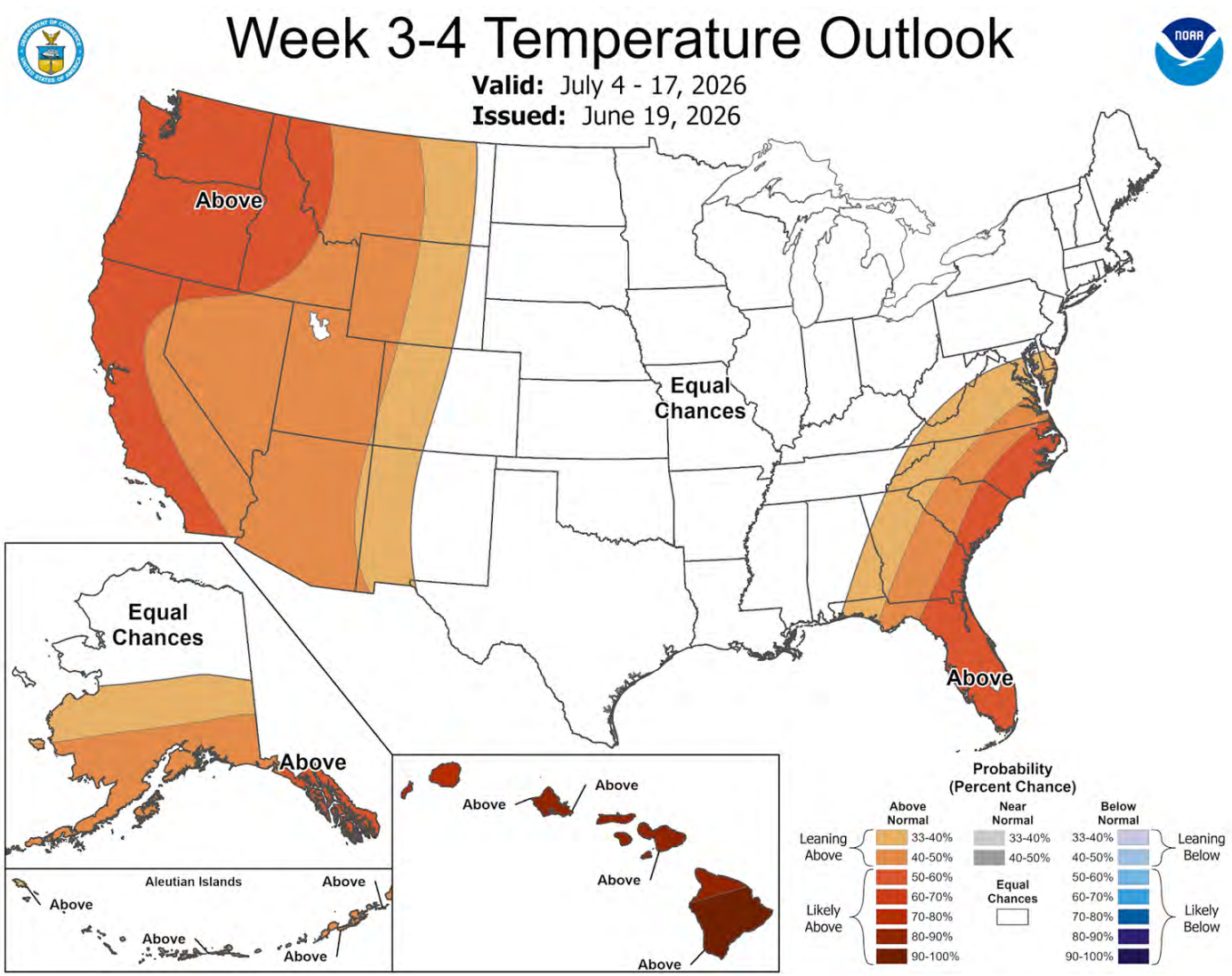
Agency – National Weather Service
Presenter – Christine Kruse

8 to 14 Day Outlooks - Precipitation



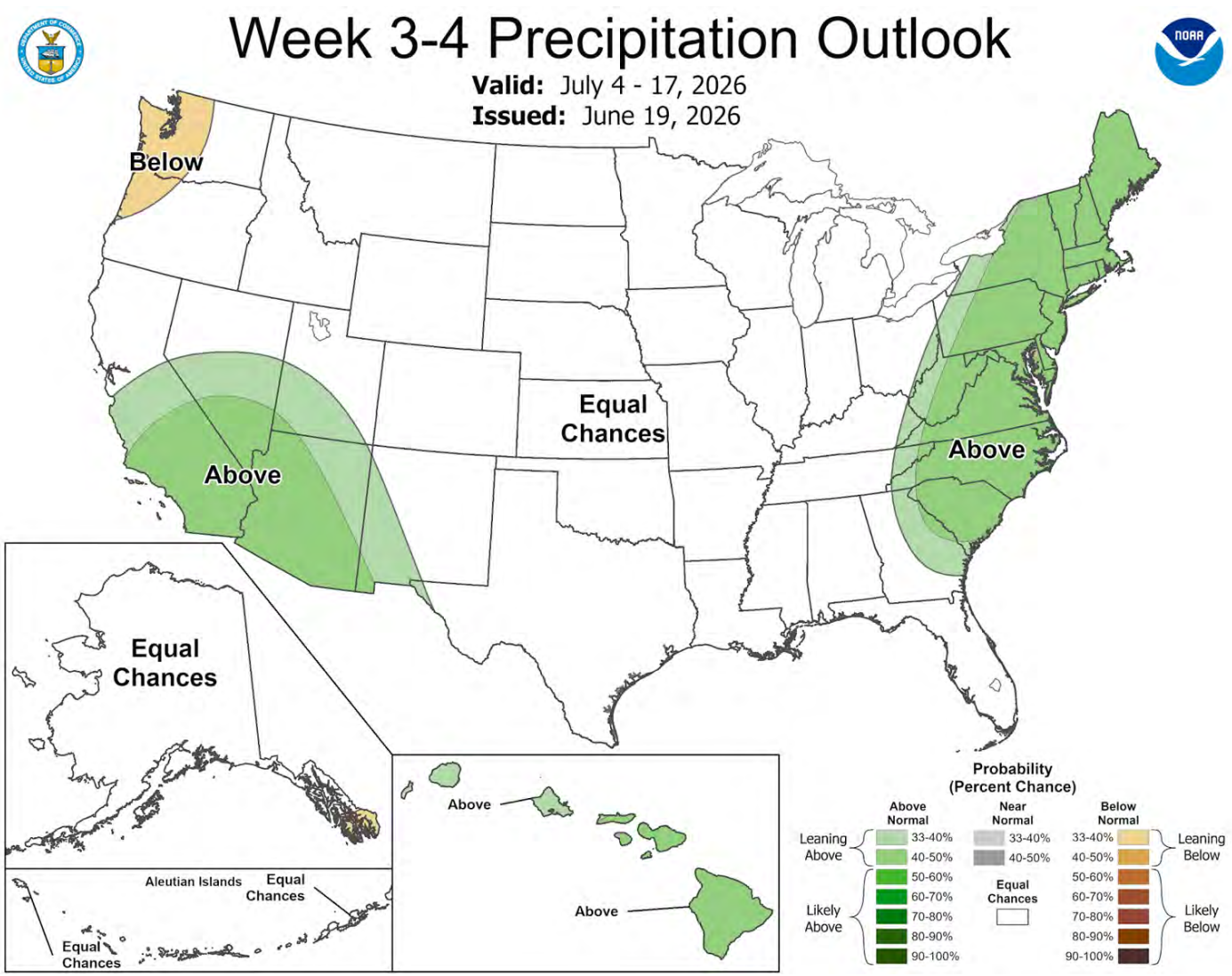
Agency – National Weather Service
Presenter – Christine Kruse

3 – 4 Week Outlook



Agency – National Weather Service
Presenter – Christine Kruse

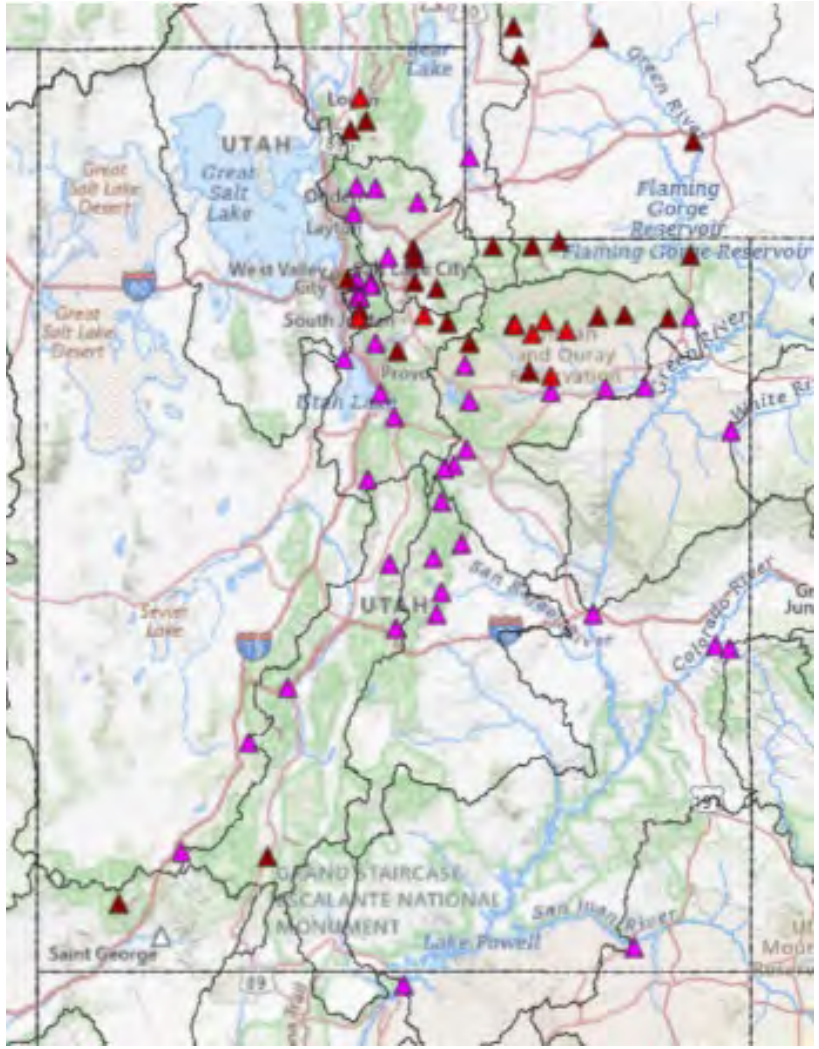
3 – 4 Week Outlook



Agency – National Weather Service
Presenter – Christine Kruse

Colorado Basin River Forecast Center
Presenter – Jorge Gonzalez

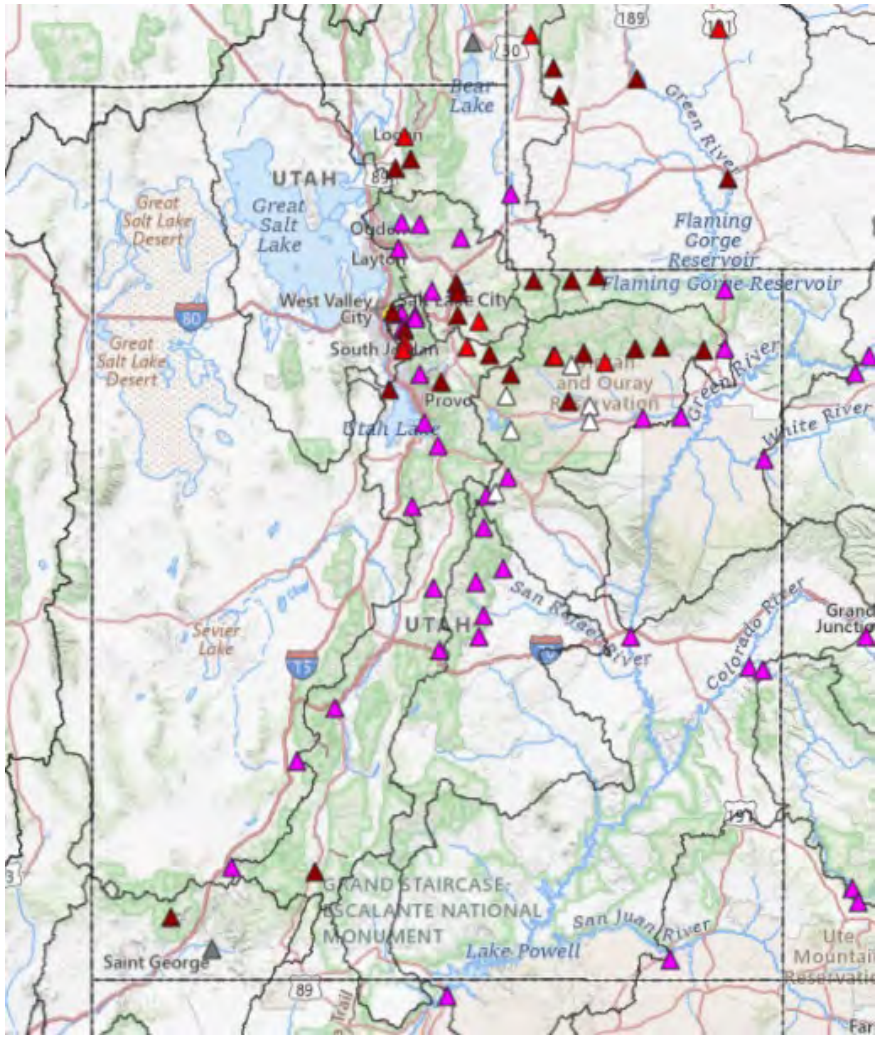
6/2/2026

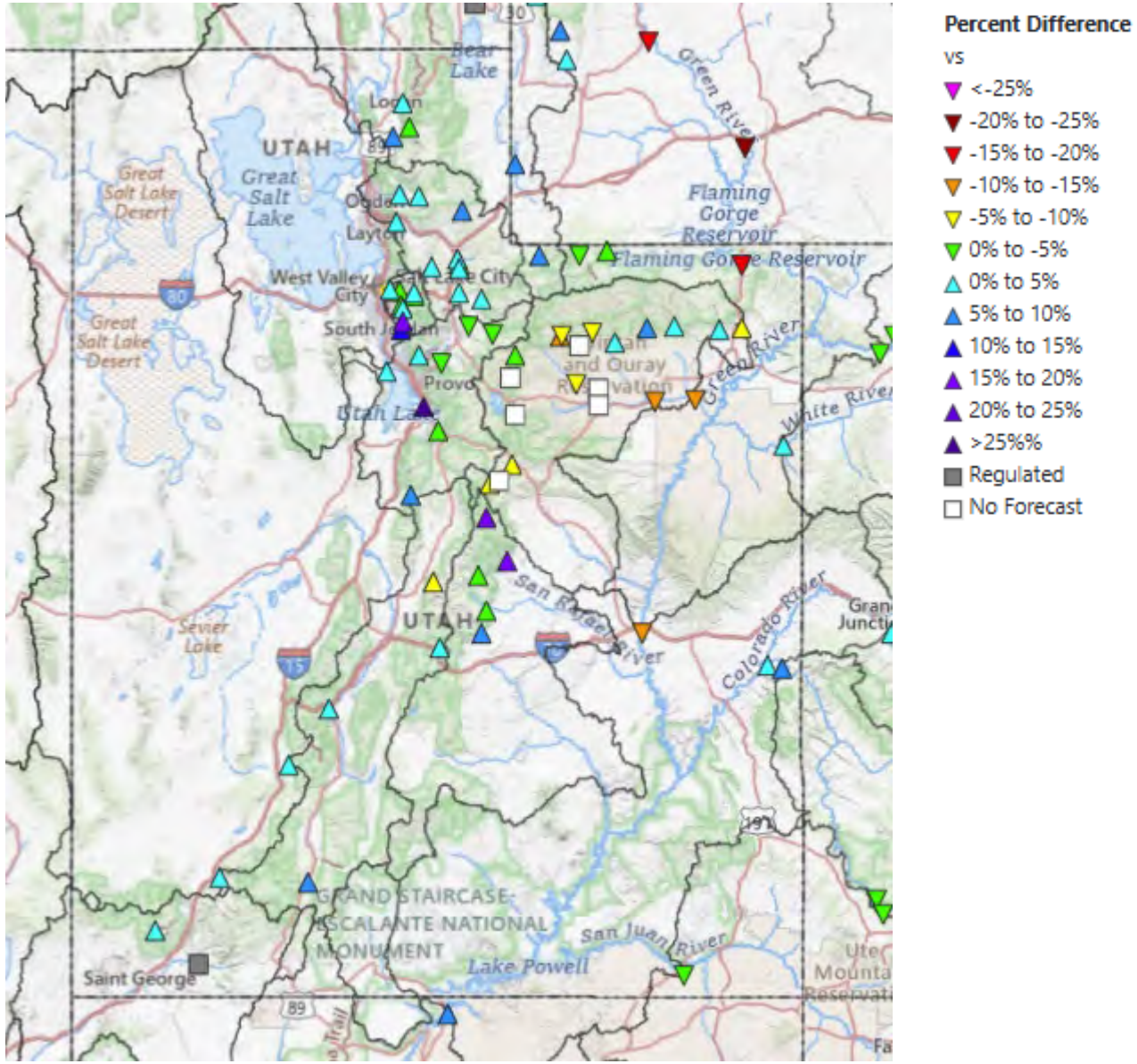


Percent Average

- < 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

6/23/2026



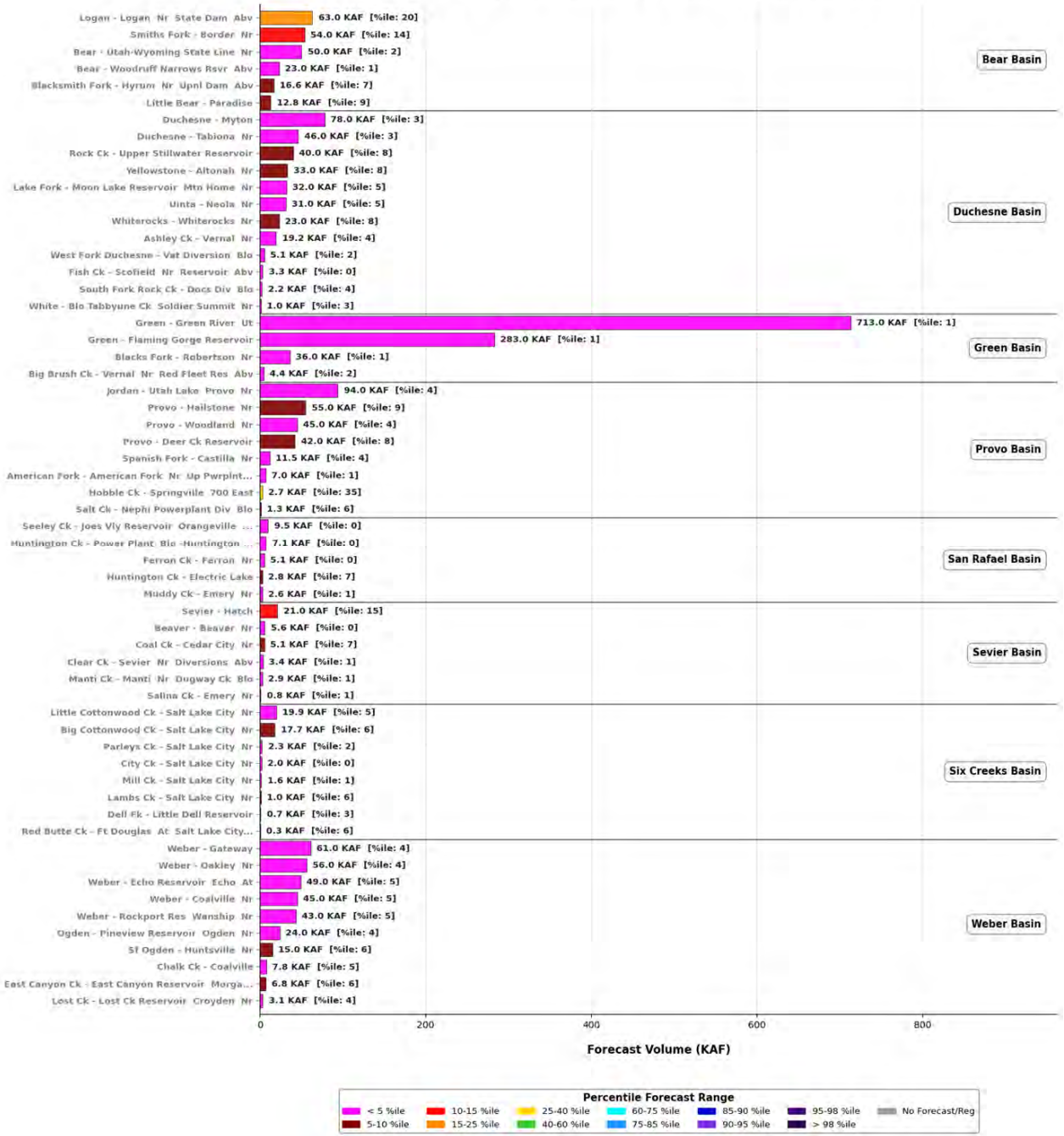


Streamflow forecast

Lack of precipitation in critical headwater regions (particularly the Uintas) has severely impacted water availability.

Many of our forecast points across the region are still tracking within the 5 to 10 lowest percentiles historically.

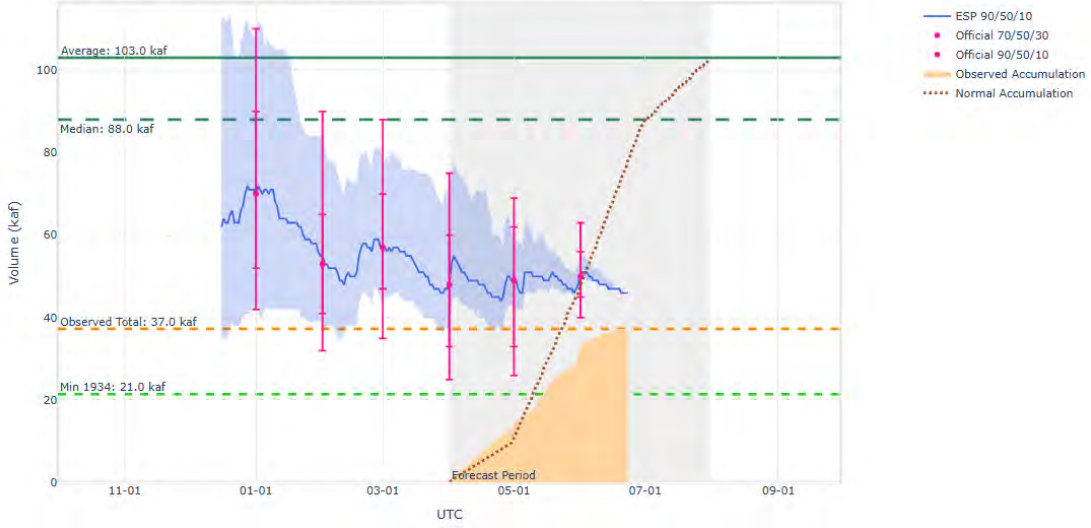
CBRFC Modeled Water Supply Snapshot
MP 50 Forecast Volume & Percentile: June 23, 2026



Streamflow forecast at selected gages

2026 Water Supply Forecast - Duchesne - Tabiona, Nr (TADU1)

ESP is Unregulated and No Precipitation Forecast Included
Official 50% Fcst (2026-06-01): 50 kaf (49% Avg, 57% Med), (6% of Yrs Below Fcst, 101 Highest Flow / 107 Tot Yrs)
ESP 50% Fcst (2026-06-23): 46 kaf (45% Avg, 52% Med), (3% of Yrs Below Fcst, 104 Highest Flow / 107 Tot Yrs)
Observed Volume: 37 kaf (36% Average, 42% Median)

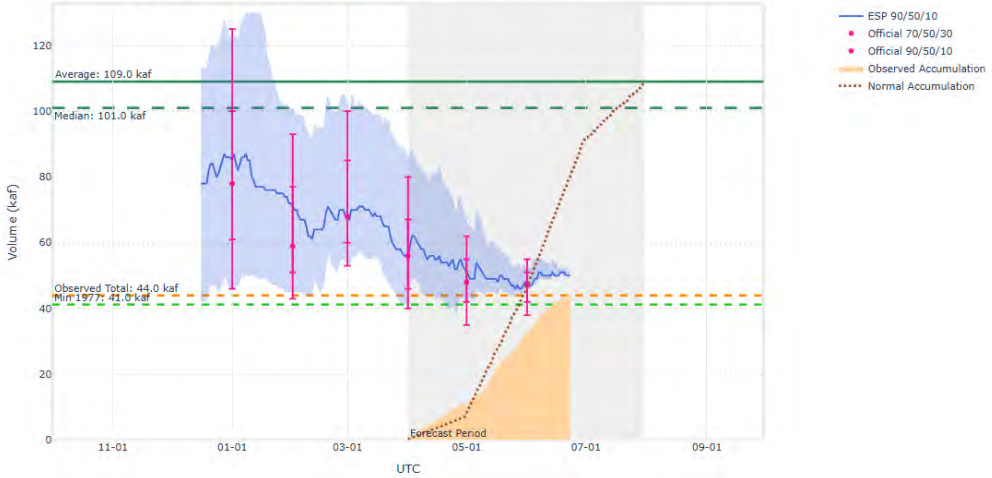


TADU1 Historical Volumes

	Year	Volume			
1	1934	21.48			
2	1977	32.24			
3	1931	33.25			
4	2021	41.60			
5	1961	46.03			
6	1992	47.84			
7	2002	48.42			
8	2026	50.00	FORECAST	50%	6/1/2026
9	2012	53.92			
10	2018	55.69			

2026 Water Supply Forecast - Bear - Utah-Wyoming State Line, Nr (BERU1)

ESP is Unregulated and No Precipitation Forecast Included
Official 50% Fcst (2026-06-01): 47 kaf (43% Avg, 47% Med), (1% of Yrs Below Fcst, 83 Highest Flow / 83 Tot Yrs)
ESP 50% Fcst (2026-06-23): 50 kaf (46% Avg, 50% Med), (1% of Yrs Below Fcst, 83 Highest Flow / 83 Tot Yrs)
Observed Volume: 44 kaf (40% Average, 44% Median)

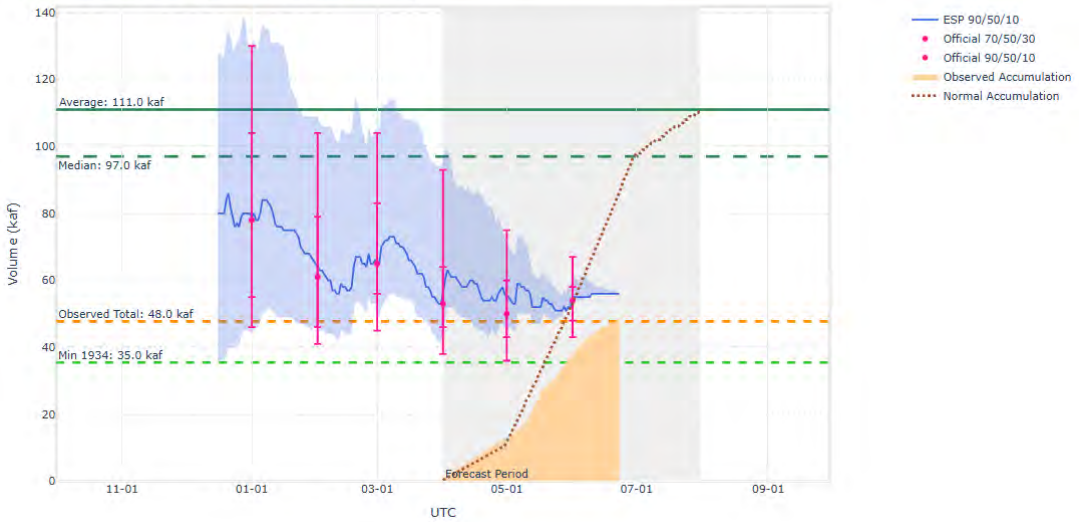


BERU1 Historical Volumes

	Year	Volume			
1	1977	41.21			
2	2026	47.00	FORECAST	50%	6/1/2026
3	2021	53.34			
4	2002	56.07			
5	1961	57.27			
6	1992	59.41			
7	2012	61.05			
8	1954	63.61			
9	2004	65.16			
10	2001	67.71			

2026 Water Supply Forecast - Weber - Oakley, Nr (OAWU1)

ESP is Unregulated and No Precipitation Forecast Included
Official 50% Fcst (2026-06-01): 54 kaf (49% Avg, 56% Med), (4% of Yrs Below Fcst, 116 Highest Flow / 120 Tot Yrs)
ESP 50% Fcst (2026-06-23): 56 kaf (50% Avg, 58% Med), (4% of Yrs Below Fcst, 116 Highest Flow / 120 Tot Yrs)
Observed Volume: 48 kaf (43% Average, 49% Median)

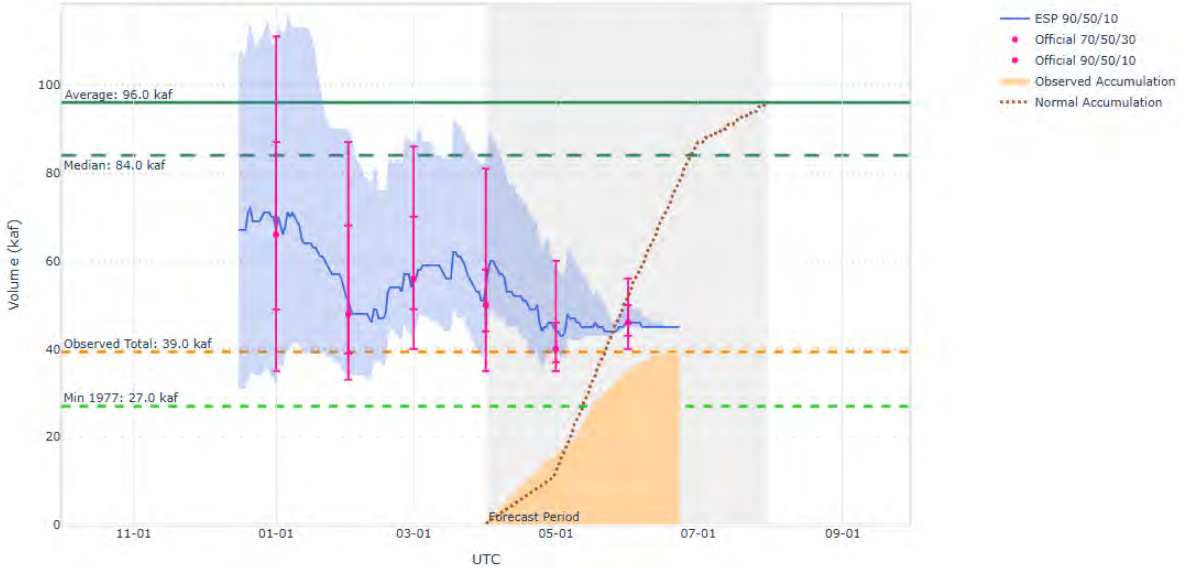


OAWU1 Historical Volumes

	Year	Volume			
1	1934	35.47			
2	1977	36.58			
3	1961	42.98			
4	2021	44.79			
5	1931	51.01			
6	2026	54.00	FORECAST	50%	6/1/2026
7	1992	57.00			
8	2012	57.23			
9	1988	60.36			
10	2018	62.97			

2026 Water Supply Forecast - Provo - Woodland, Nr (WOOU1)

ESP is Unregulated and No Precipitation Forecast Included
Official 50% Fcst (2026-06-01): 46 kaf (48% Avg, 55% Med), (4% of Yrs Below Fcst, 59 Highest Flow / 61 Tot Yrs)
ESP 50% Fcst (2026-06-23): 45 kaf (47% Avg, 53% Med), (4% of Yrs Below Fcst, 59 Highest Flow / 61 Tot Yrs)
Observed Volume: 39 kaf (41% Average, 47% Median)

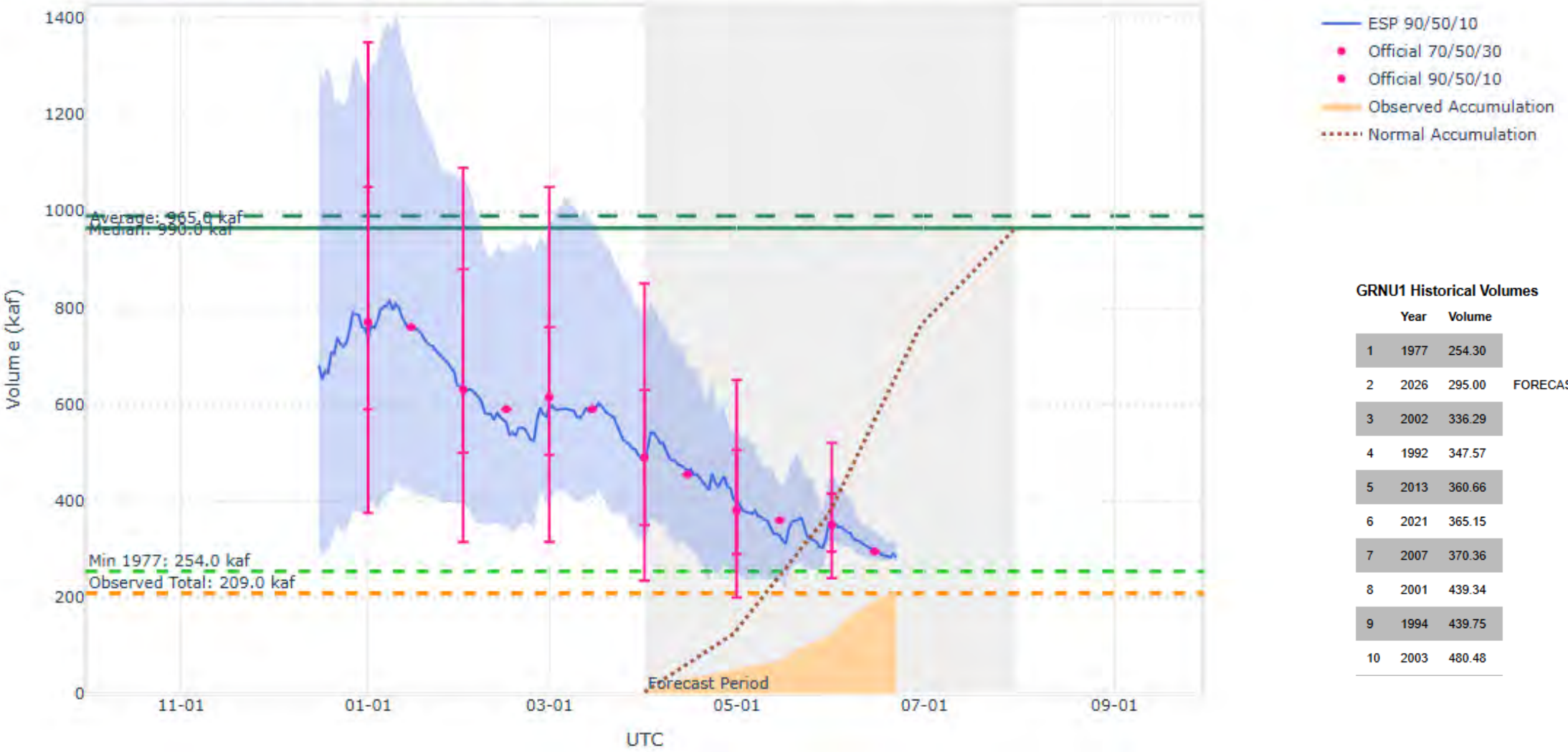


WOOU1 Historical Volumes

	Year	Volume			
1	1977	26.99			
2	2021	29.27			
3	1992	35.00			
4	2026	46.00	FORECAST	50%	6/1/2026
5	2002	50.31			
6	2013	50.65			
7	2012	51.46			
8	2004	53.76			
9	1988	55.14			
10	1994	57.46			

2026 Water Supply Forecast - Green - Flaming Gorge Reservoir (GRNU1)

ESP is Unregulated and No Precipitation Forecast Included
Official 50% Fcst (2026-06-15): 295 kaf (31% Avg, 30% Med), (1% of Yrs Below Fcst, 63 Highest Flow / 63 Tot Yrs)
ESP 50% Fcst (2026-06-23): 278 kaf (29% Avg, 28% Med), (1% of Yrs Below Fcst, 63 Highest Flow / 63 Tot Yrs)
Observed Volume: 209 kaf (22% Average, 21% Median)



GRNU1 Historical Volumes

	Year	Volume			
1	1977	254.30			
2	2026	295.00	FORECAST	50%	6/15/2026
3	2002	336.29			
4	1992	347.57			
5	2013	360.66			
6	2021	365.15			
7	2007	370.36			
8	2001	439.34			
9	1994	439.75			
10	2003	480.48			

2026 Water Supply Forecast - Colorado - Lake Powell, Glen Cyn Dam, At (GLDA3)

ESP is Unregulated and No Precipitation Forecast Included
Official 50% Fcst (2026-06-15): 1050 kaf (16% Avg, 17% Med), (1% of Yrs Below Fcst, 62 Highest Flow / 62 Tot Yrs)
ESP 50% Fcst (2026-06-23): 947 kaf (15% Avg, 15% Med), (0% of Yrs Below Fcst, 63 Highest Flow / 62 Tot Yrs)
Observed Volume: 1032 kaf (16% Average, 17% Median)

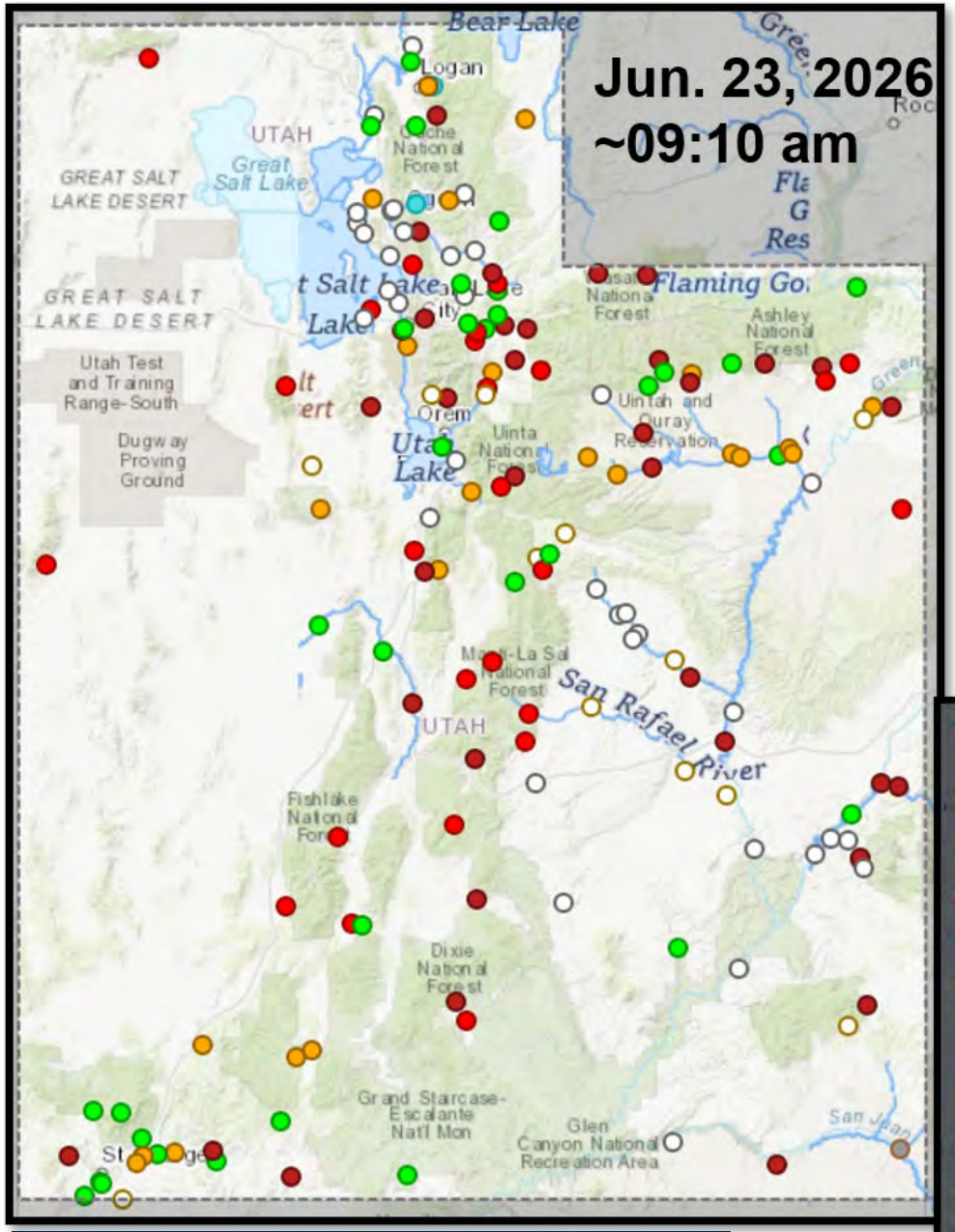
ESP 90/50/10
Official 70/50/30
Official 90/50/10
Observed Accumulation
Normal Accumulation

GLDA3 Historical Volumes

	Year	Volume			
1	2002	963.96			
2	2026	1050.00	FORECAST	50%	6/15/2026
3	1977	1207.93			
4	2021	1826.70			
5	2012	2063.21			
6	2013	2557.47			
7	2018	2602.40			
8	2025	2640.65			
9	1981	3022.66			
10	1990	3184.05			

Streamflow forecast at selected gages

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	0	0.0%
Above normal for this day-of-year	2	1.2%
Normal for this day-of-year	33	19.5%
Below normal for this day-of-year	24	14.2%
Much below normal for this day-of-year	37	21.9%
All-time low for this day-of-year	25	14.8%
Not ranked - insufficient record	40	23.7%
Not ranked - stream not flowing	8	4.7%

Above flood stage	
All-time high for this day	100th percentile (maximum)
Much above normal	>90th percentile
Above normal	76th – 90th percentile
Normal	25th – 75th percentile
Below normal	10th – 24th percentile
Much below normal	<10th percentile
All-time low for this day	0th percentile (minimum)
Not flowing	
Not ranked	
Measurement flag	
Recent measurement unavailable	

Sites must have at least 20 years of streamflow data to be ranked. Data are provisional and subject to revision.

National Water Dashboard

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Presenter - Ryan Rowland

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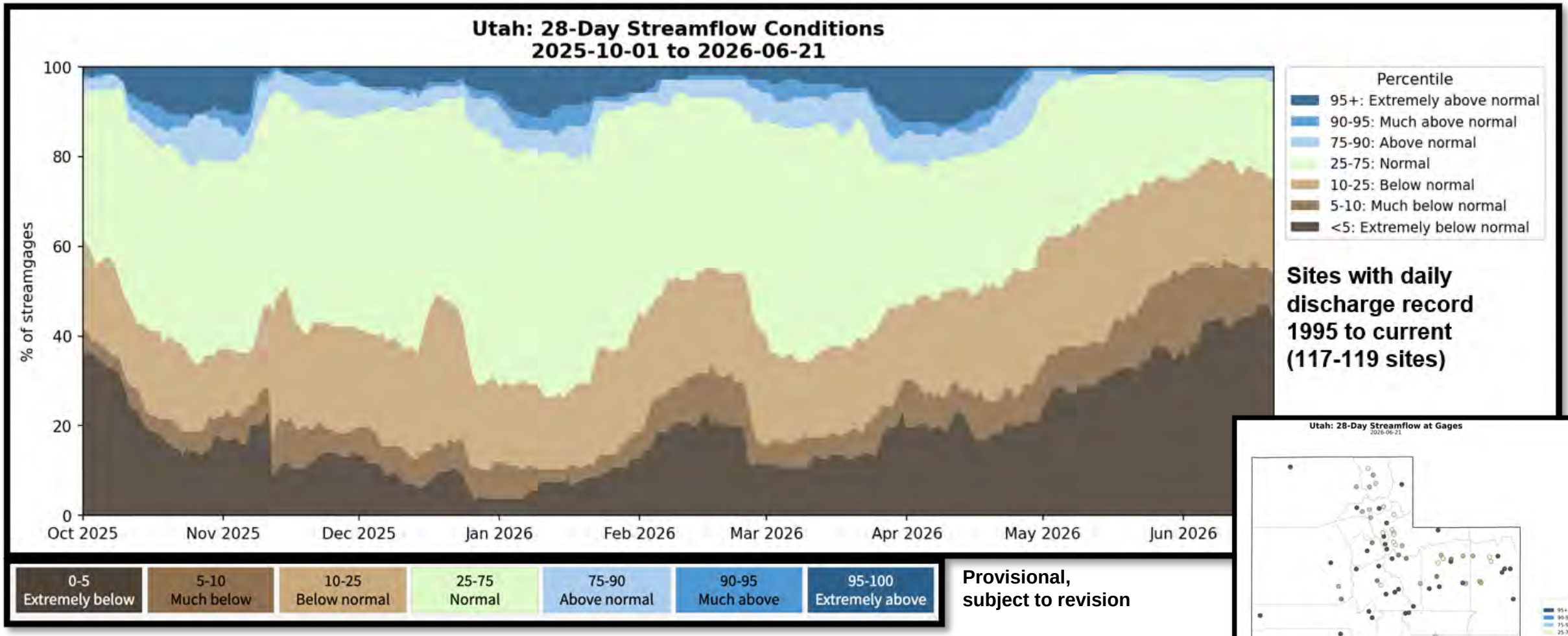
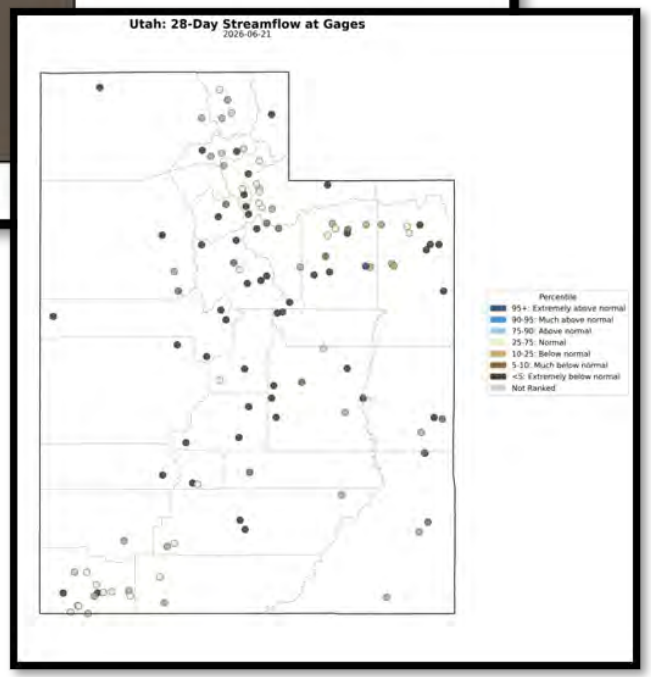
28 - Day Running Average of Daily Discharge for Visualizing Streamflow Conditions



Provisional, subject to revision



- **The plot and map were created via USGS Hydrologic Surface Water Analysis Package (hyswap), a Python package for visualizing USGS water data.**

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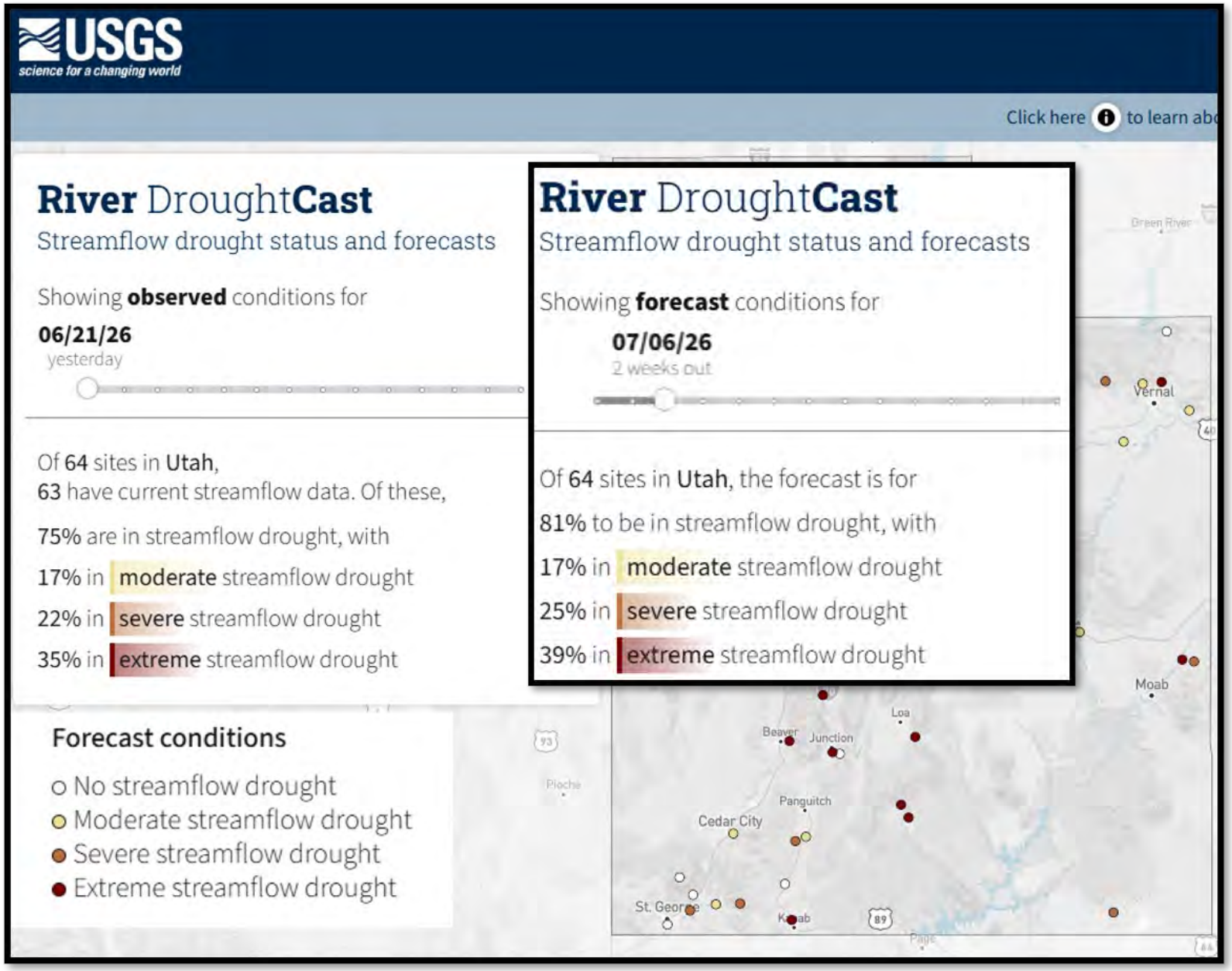
Presenter - Ryan Rowland

USGS River DroughtCast: Streamflow drought status and forecasts



- **Shows gages with nearly complete records for the 40-year period 1981-2020**
- **Machine learning model forecasts streamflow drought**
- **Click on a gage location to get site specific streamflow drought forecast**

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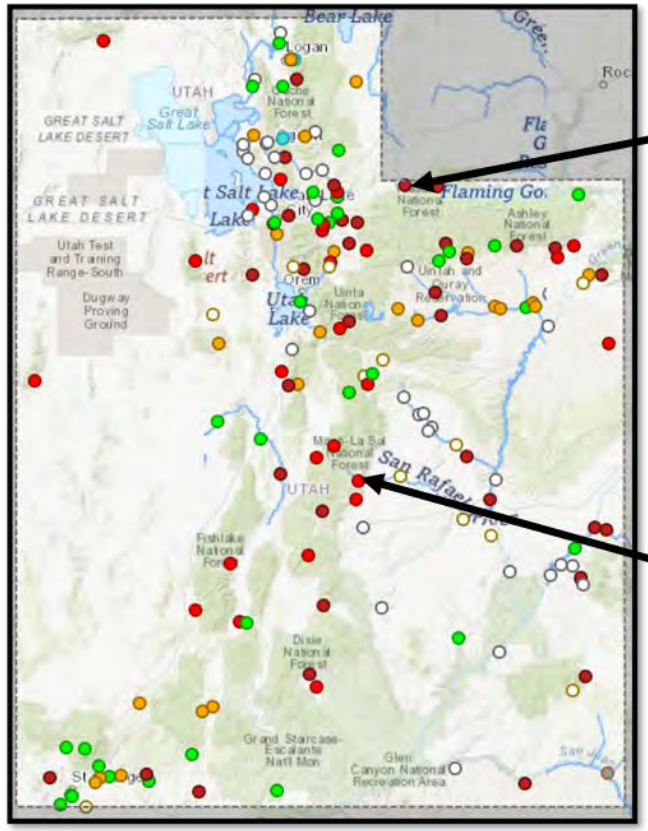
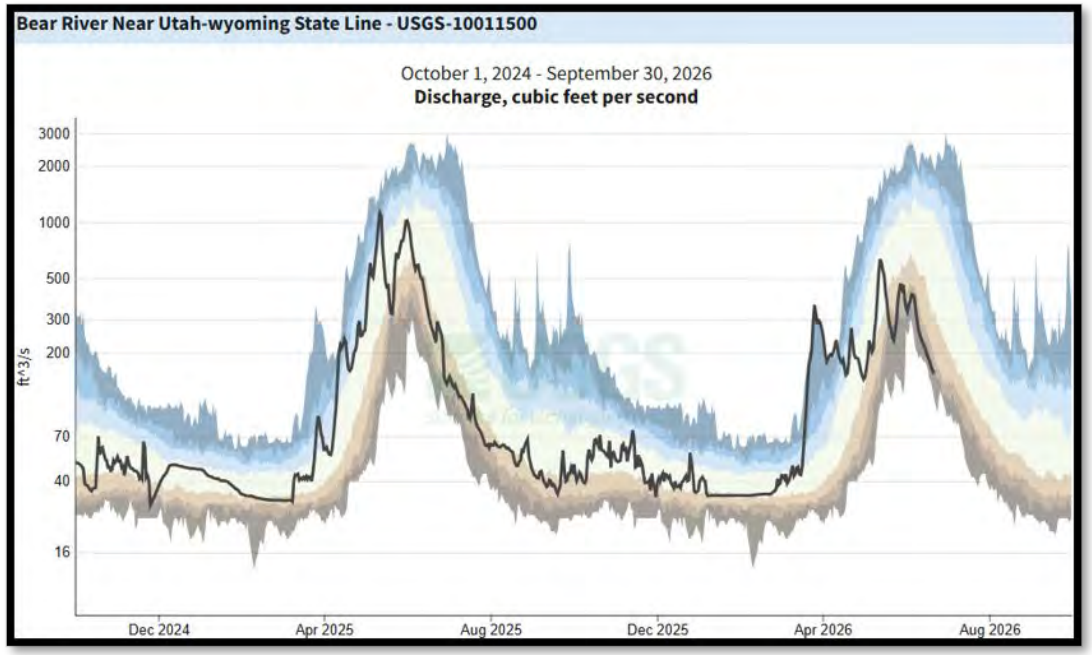
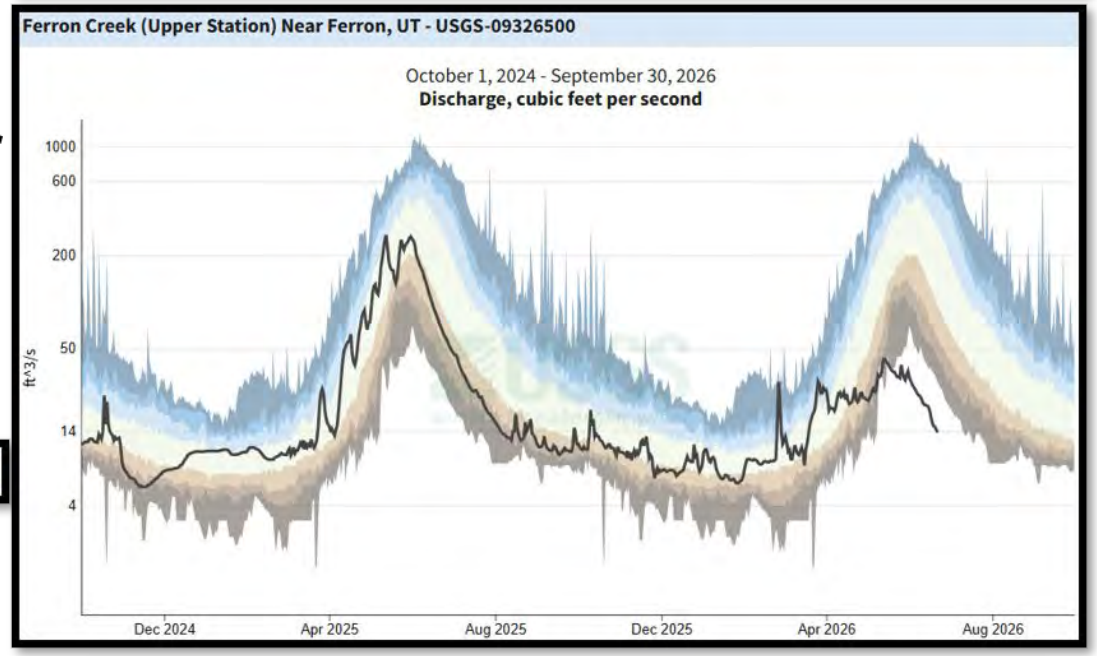
Presenter - Ryan Rowland

Streamflows at Selected Gages







IMPORTANT Data may be provisional

Daily average (mean) for Discharge, cubic feet per second

Percentile ranges for daily averages (means) for each day of a year (with comparison to normal)

0-5	5-10	10-25	25-75	75-90	90-95	95-100
Extremely below	Much below	Below normal	Normal	Above normal	Much above	Extremely above

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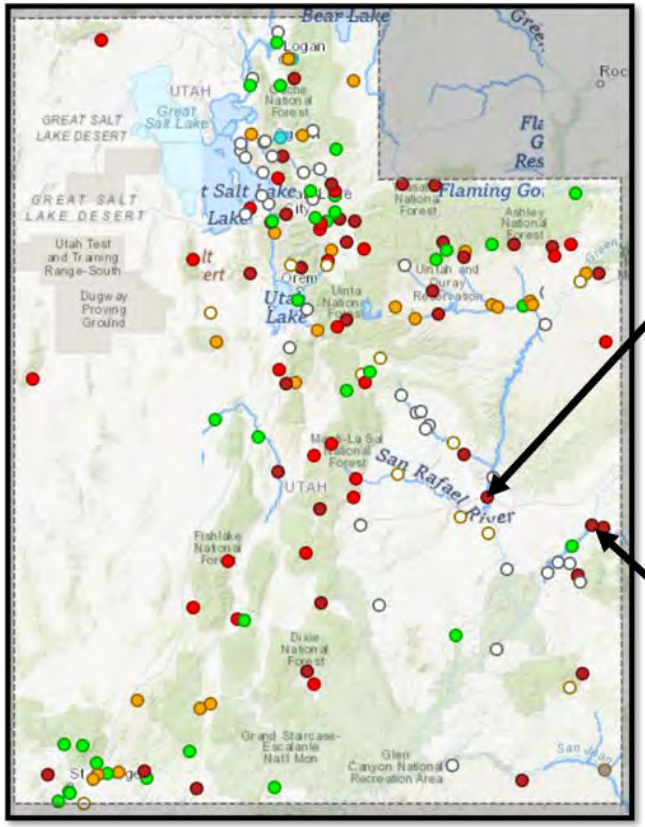
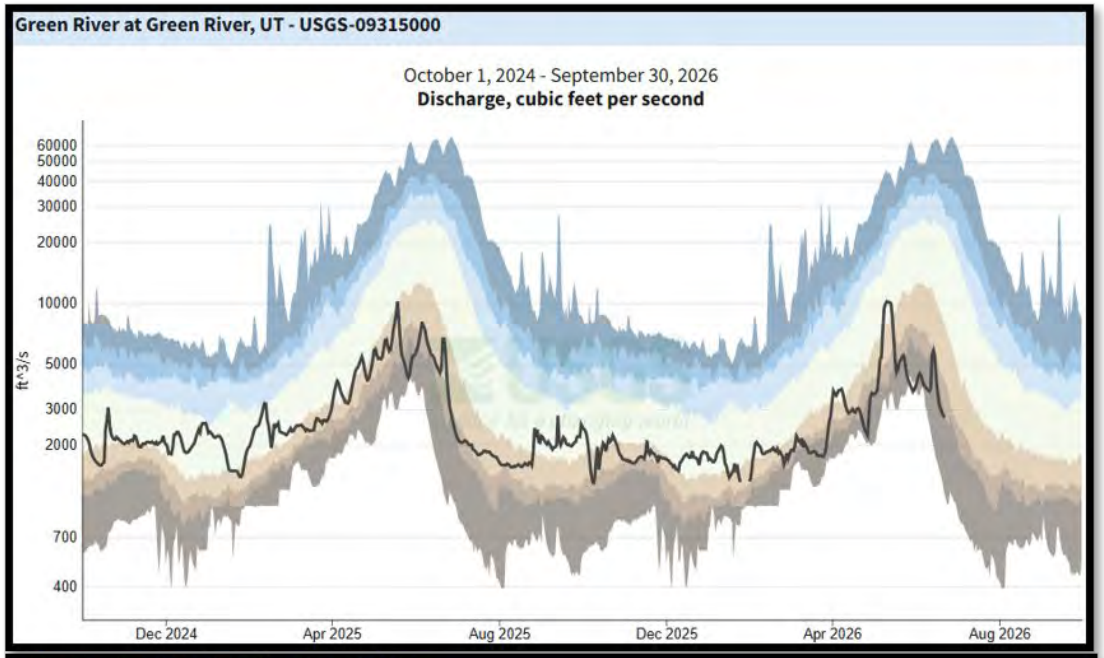
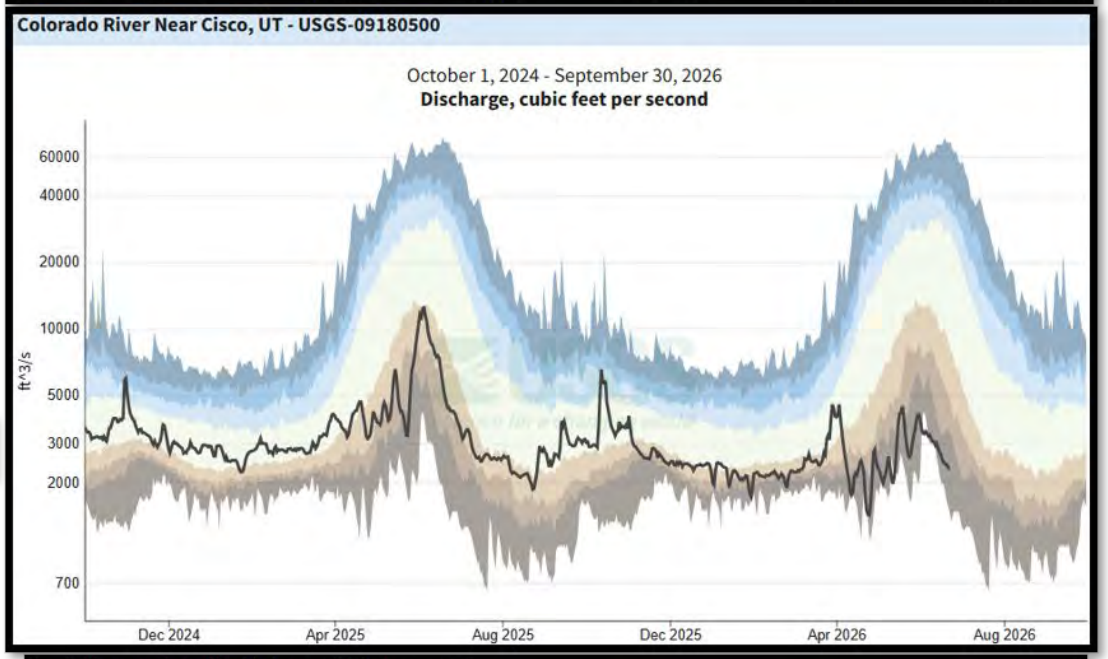
Streamflows at Selected Gages



IMPORTANT Data may be provisional





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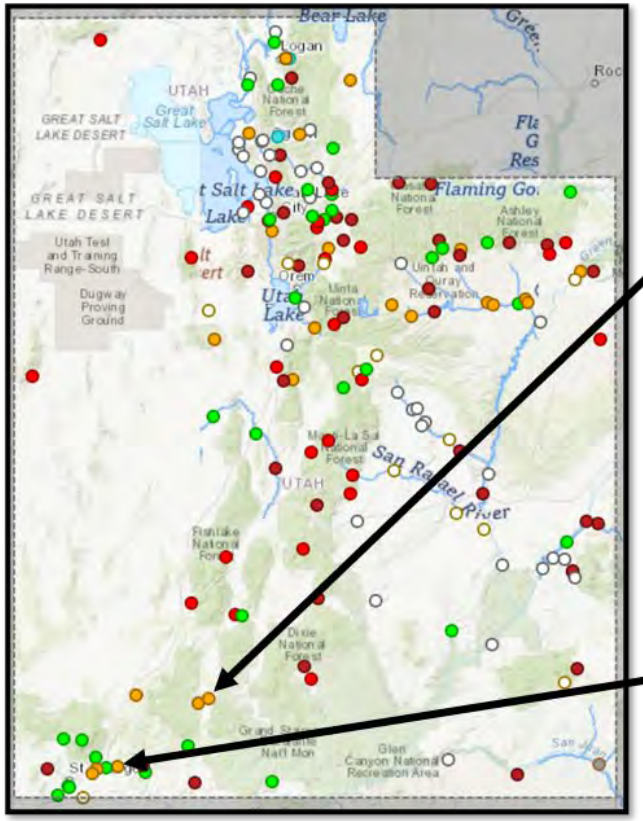
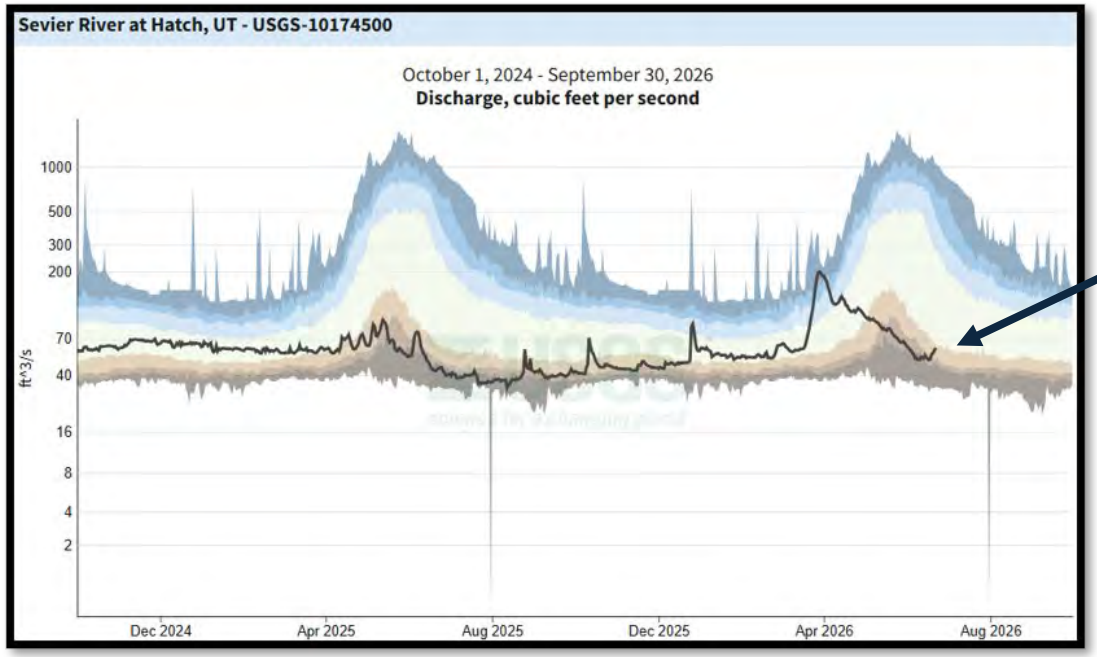
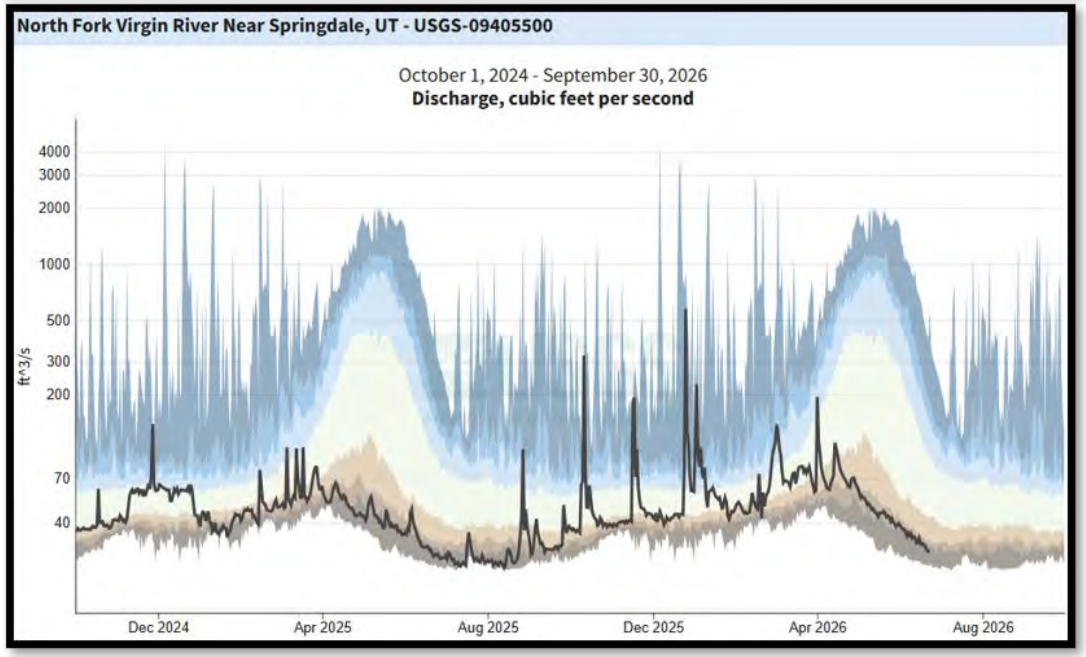
Streamflows at Selected Gages





Recent uptick is suspicious and gage will be inspected later today



IMPORTANT Data may be provisional

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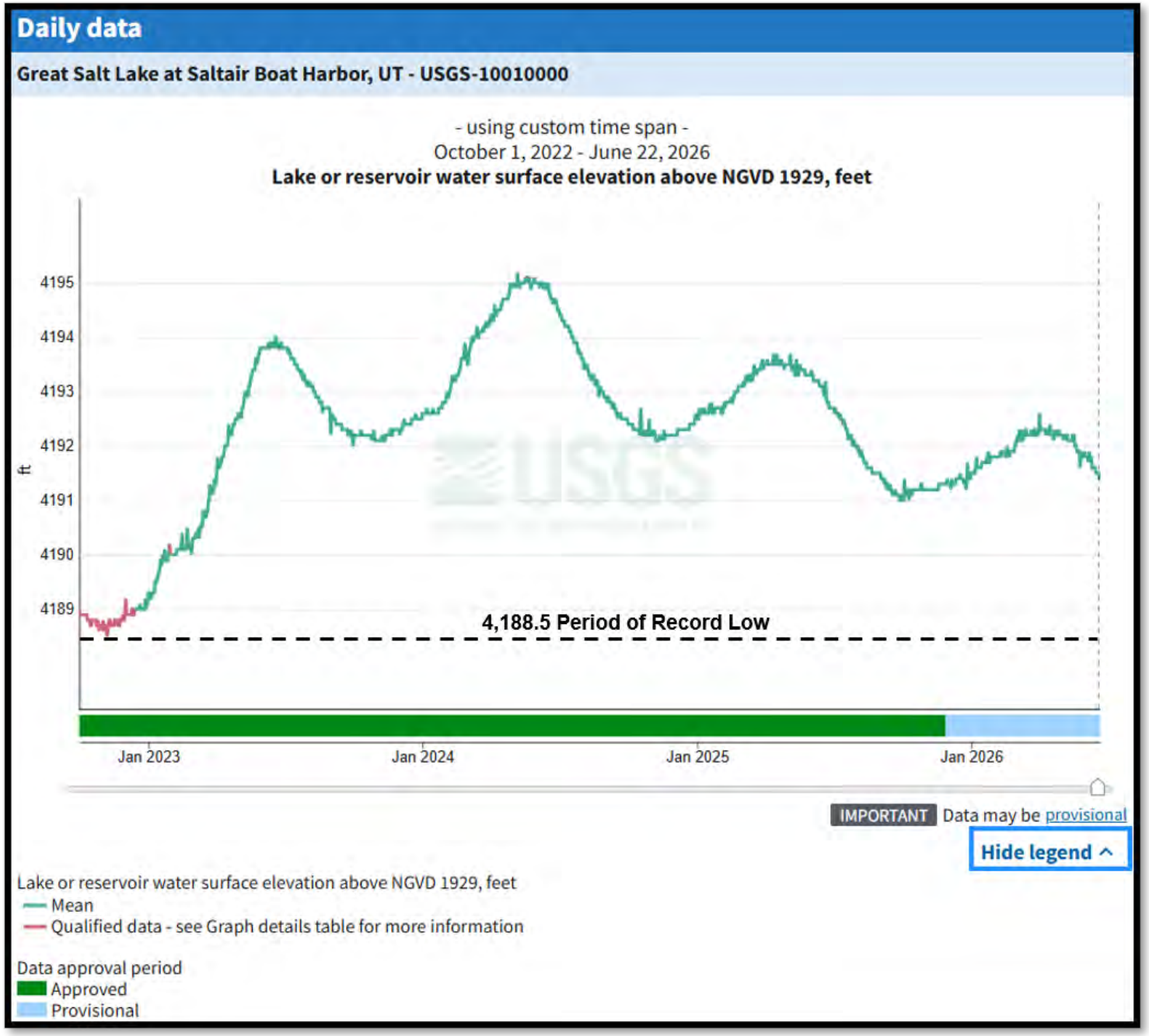
Great Salt Lake Water Surface Elevations



Daily Values 06/22/2026

- **South Arm (Saltair gage): 4,191.9'**
  - **Down 0.5' since last meeting**
- **North Arm (Saline gage, not shown on plot): 4,190.8'**
  - **Down 0.3' since last meeting**

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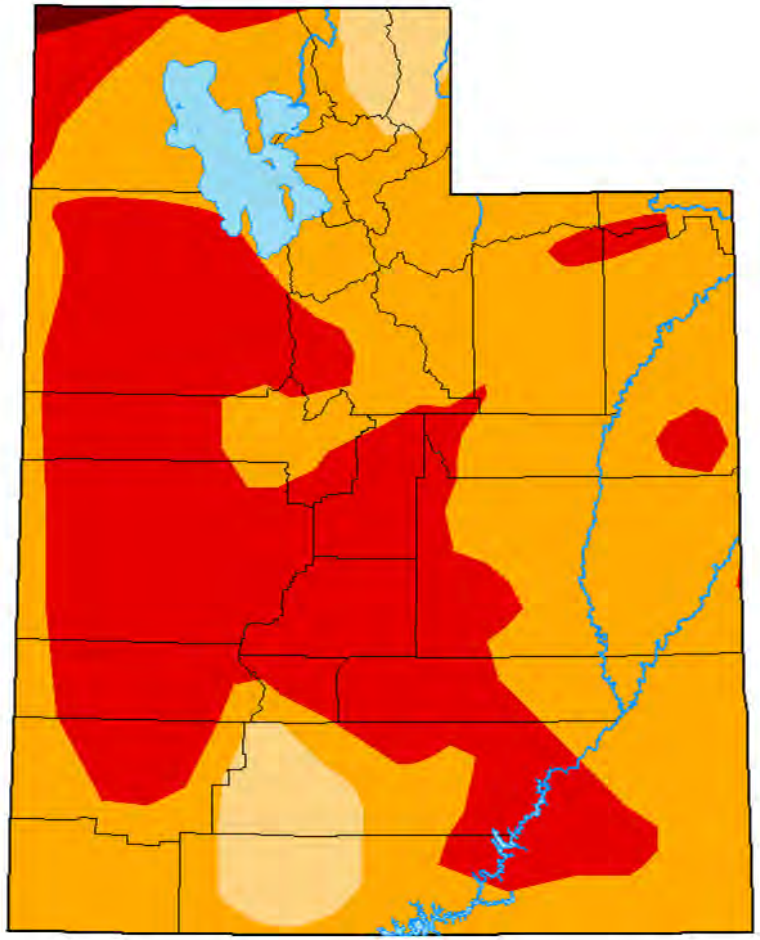
U.S. Drought Monitor Map - Utah

June 16, 2026

(Released May 18, 2026)

Valid 8 a.m. EST



Intensity:

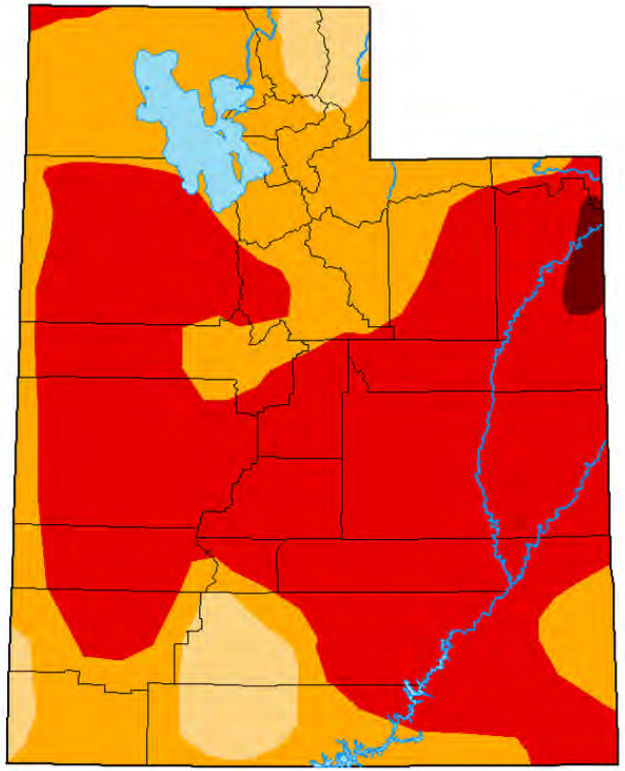
- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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:

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