



Utah Water Conditions (drought webinar)

The meeting will begin shortly



Thank you to our contributors



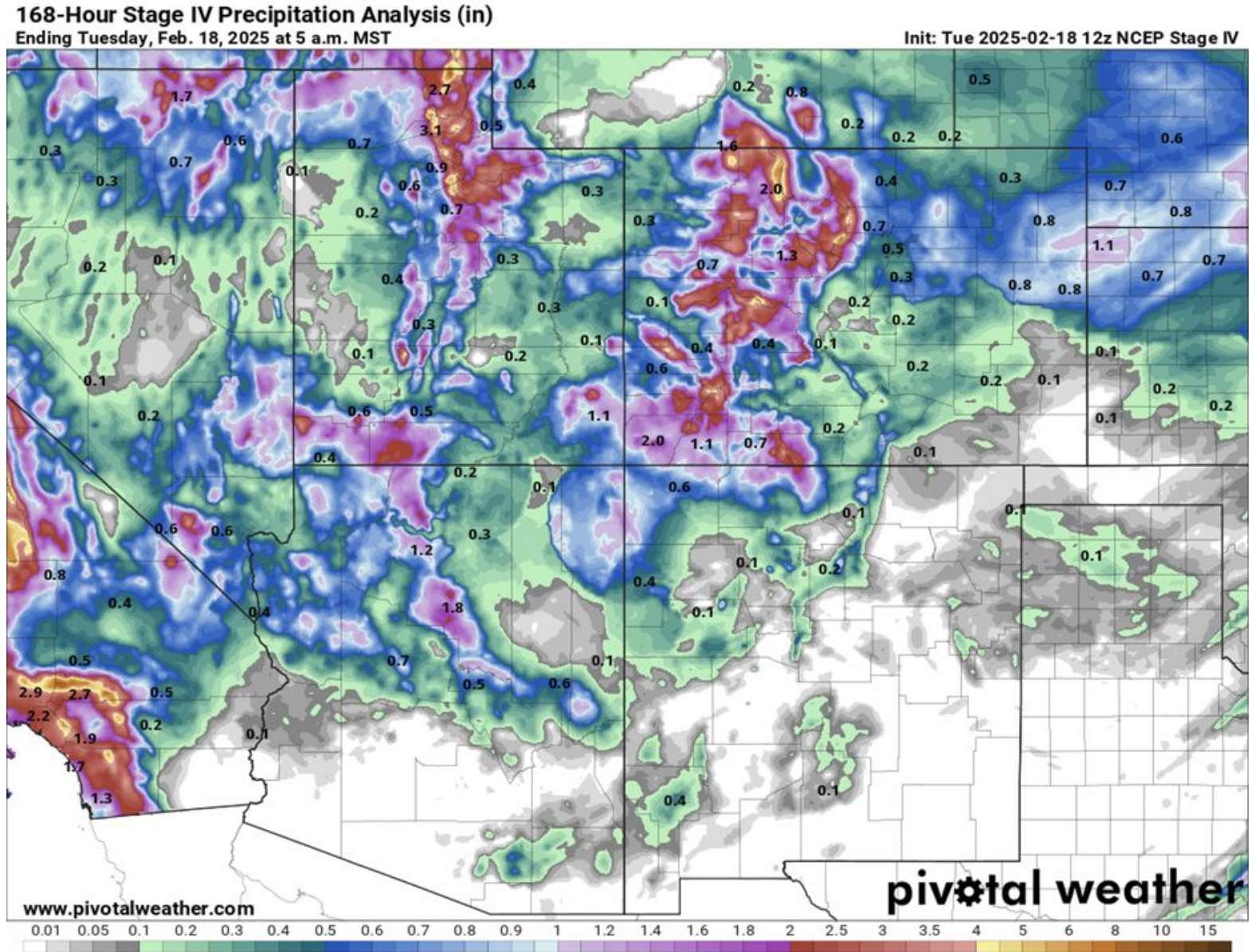


Utah Water Conditions Update

February 18, 2025

Precipitation 7 day history

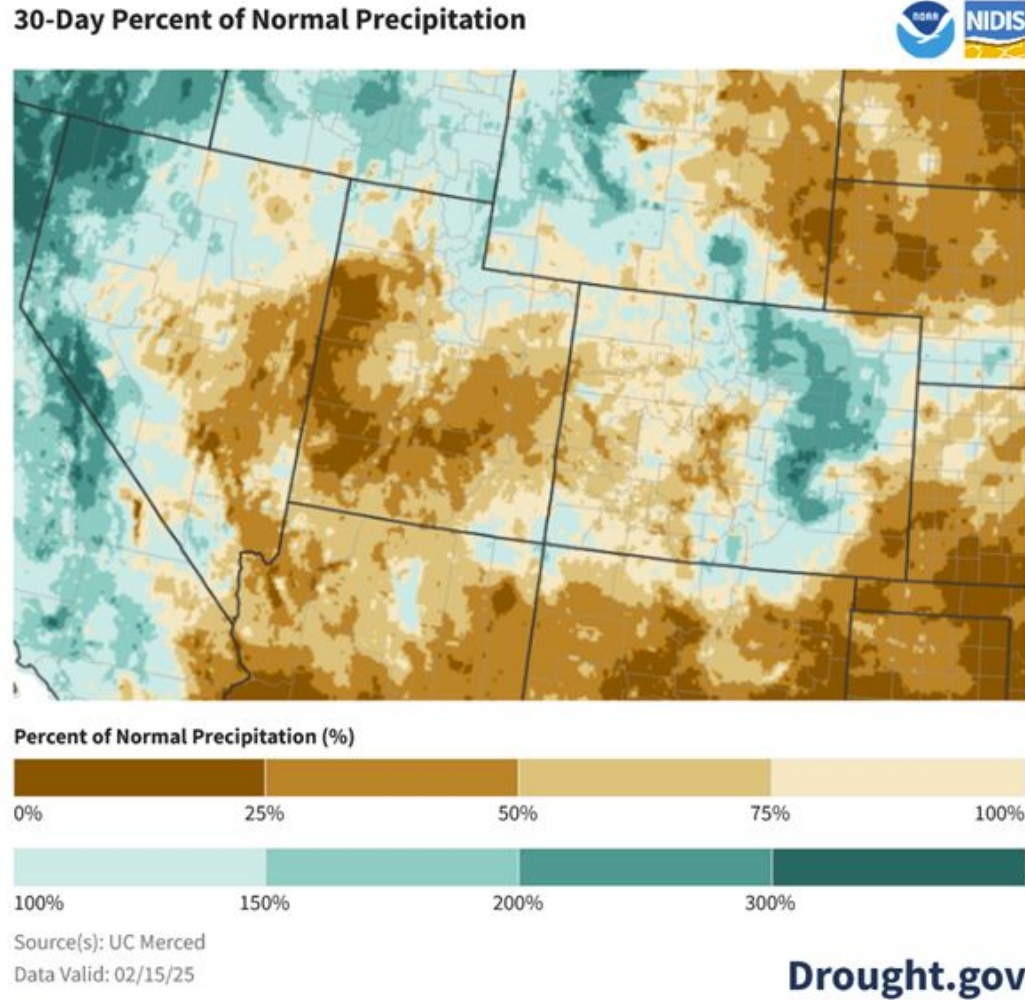
The storm track has re-focused on Utah, spreading precipitation events statewide over the last week.



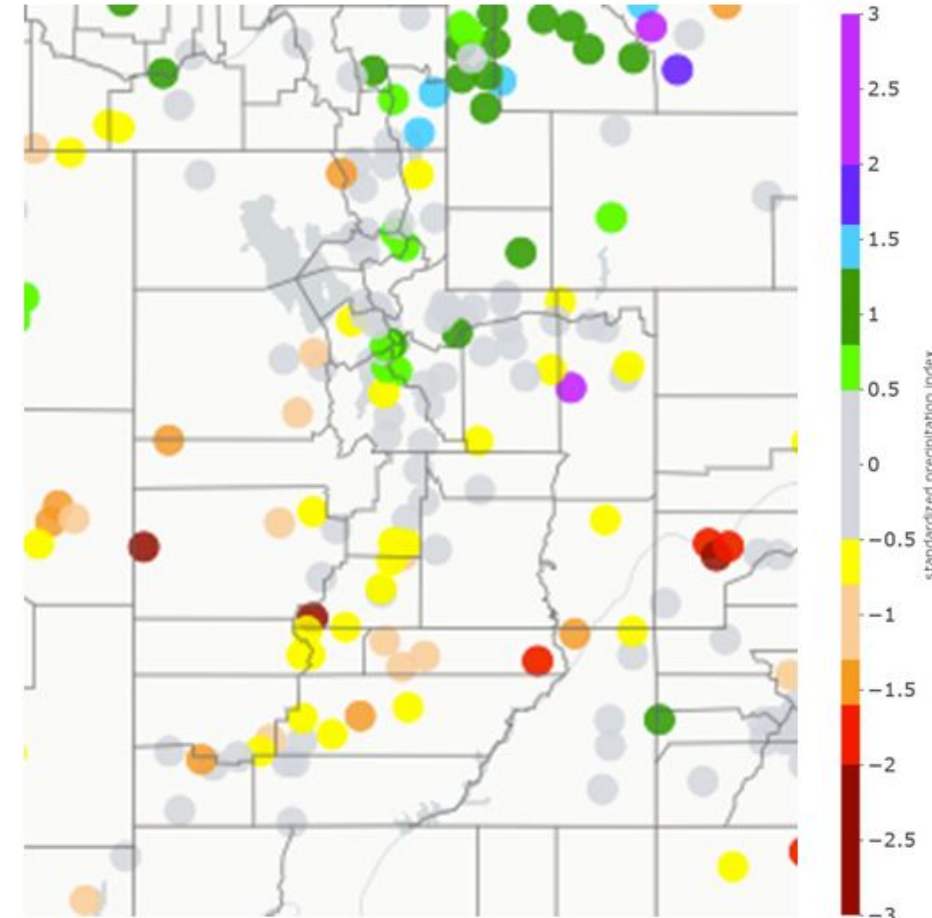
Precipitation (30-day Summary)

Despite the recent storm cycle, all but Northern Utah remains behind average over the last 30 days.

But positive to see some moisture down in the southern and central regions.

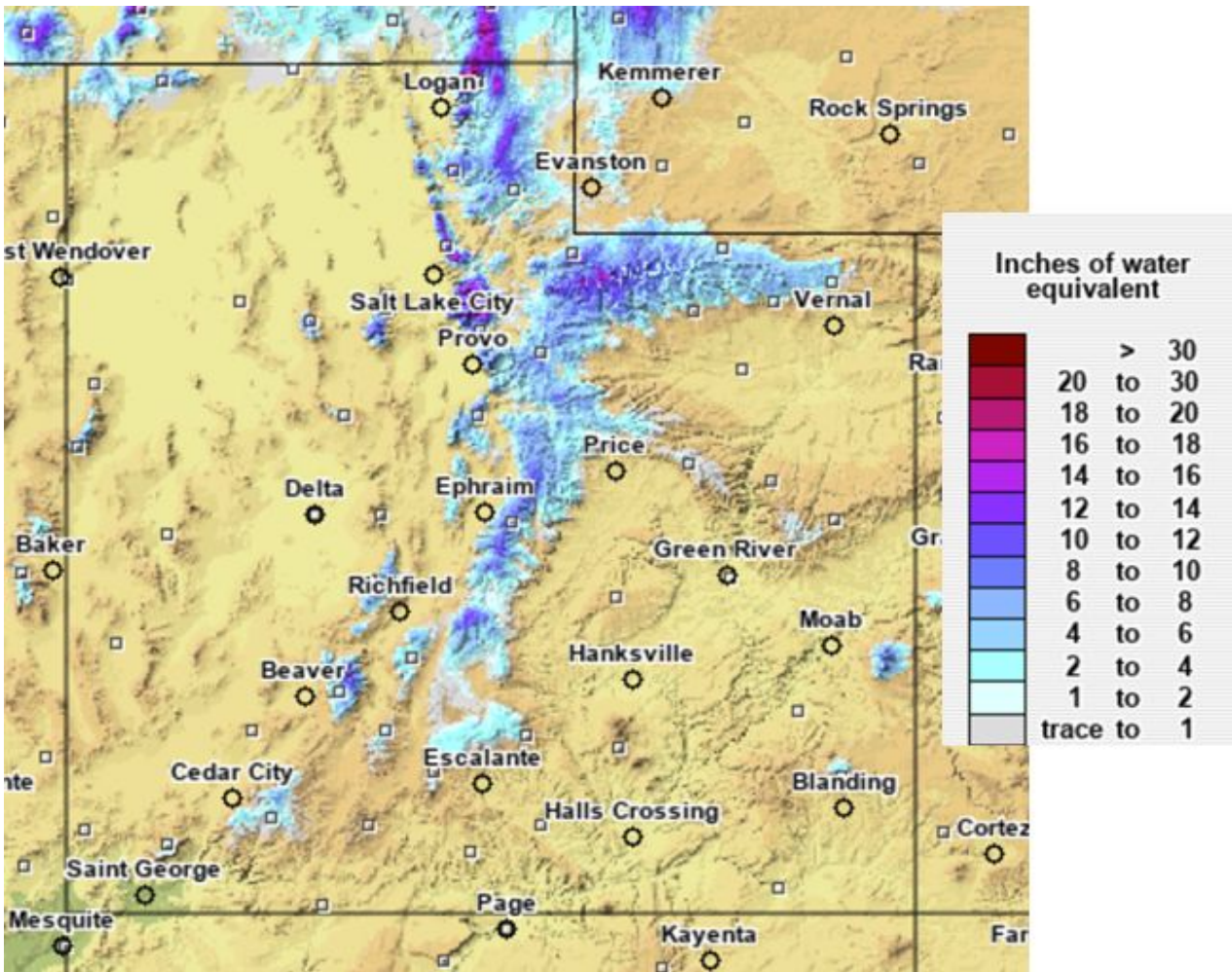


30-day Standardized Precipitation Index (SPI)

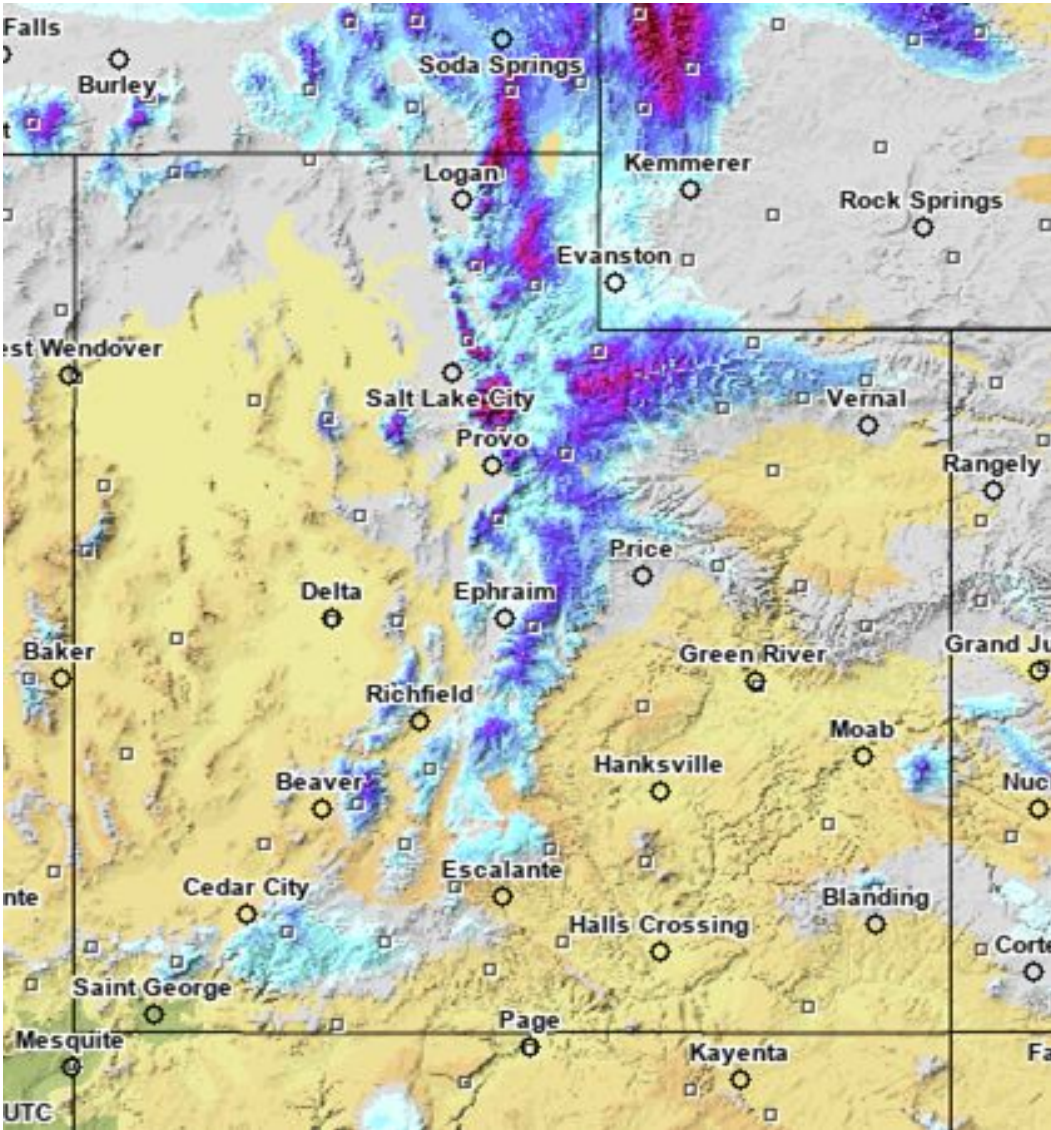


Snow Cover Change

Feb 04 Conditions



Current Observations



Short-Term Drought Pressure

Positive trends have played out in the recent weeks, but short-term drought conditions remain in play.

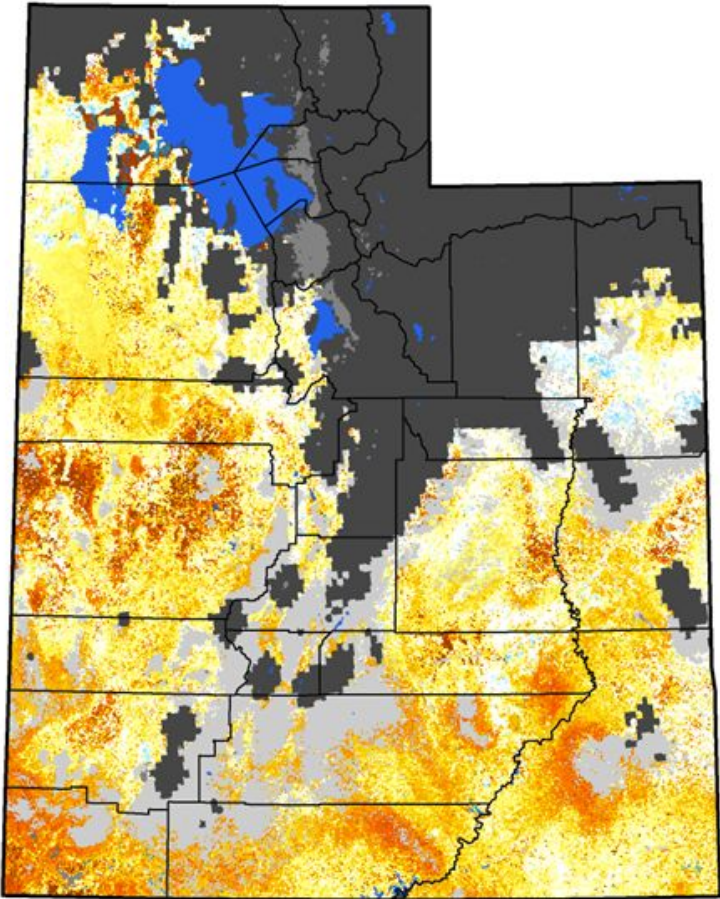
What questions remain:

Will storm activity continue?

Will the southern and central counties benefit from storm activity??

Agency - Utah Climate Center
Presenter - Jon Meyer

Quick Drought Response Index Utah



February 16, 2025
(Week 7)

Conditions Relative to 4-Week Historical Average

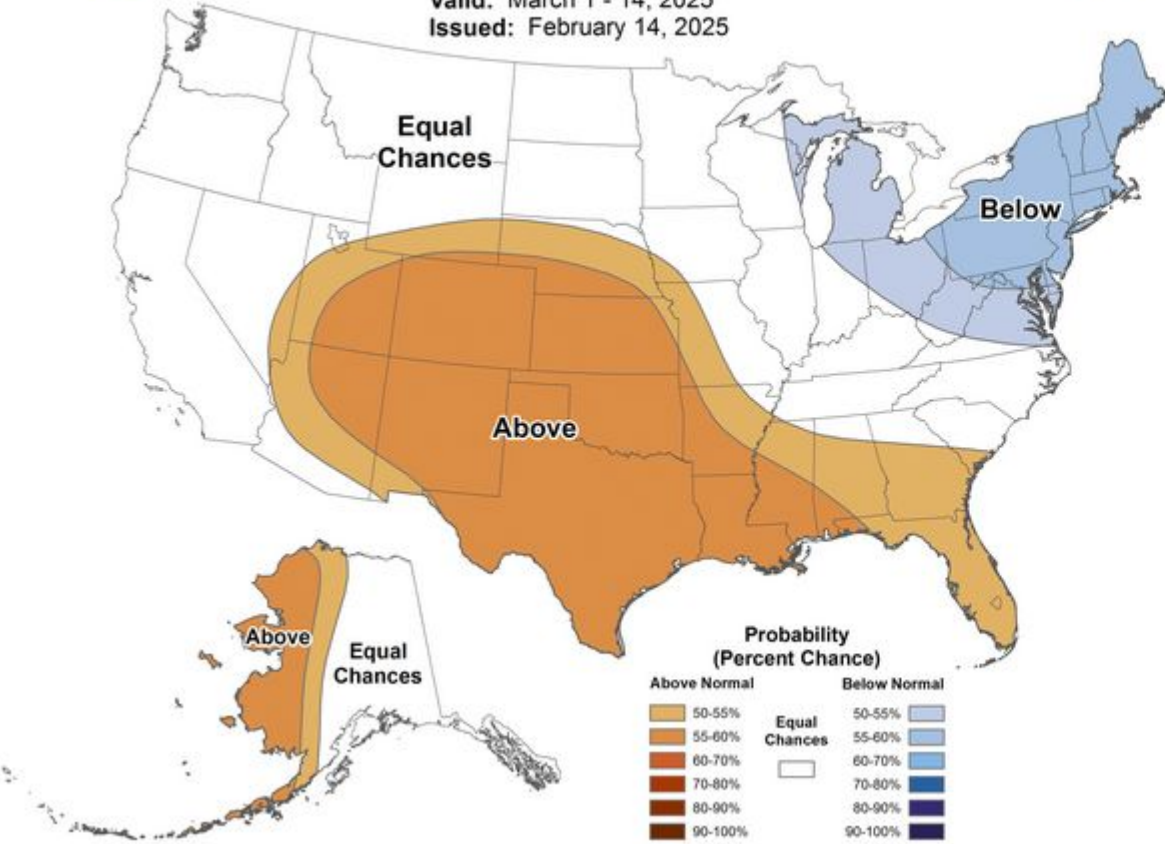
- Wetter
- Near Average
- Drier
- Out of Season
- Urban
- No Data
- Water



CPC Weeks 3-4 Outlook

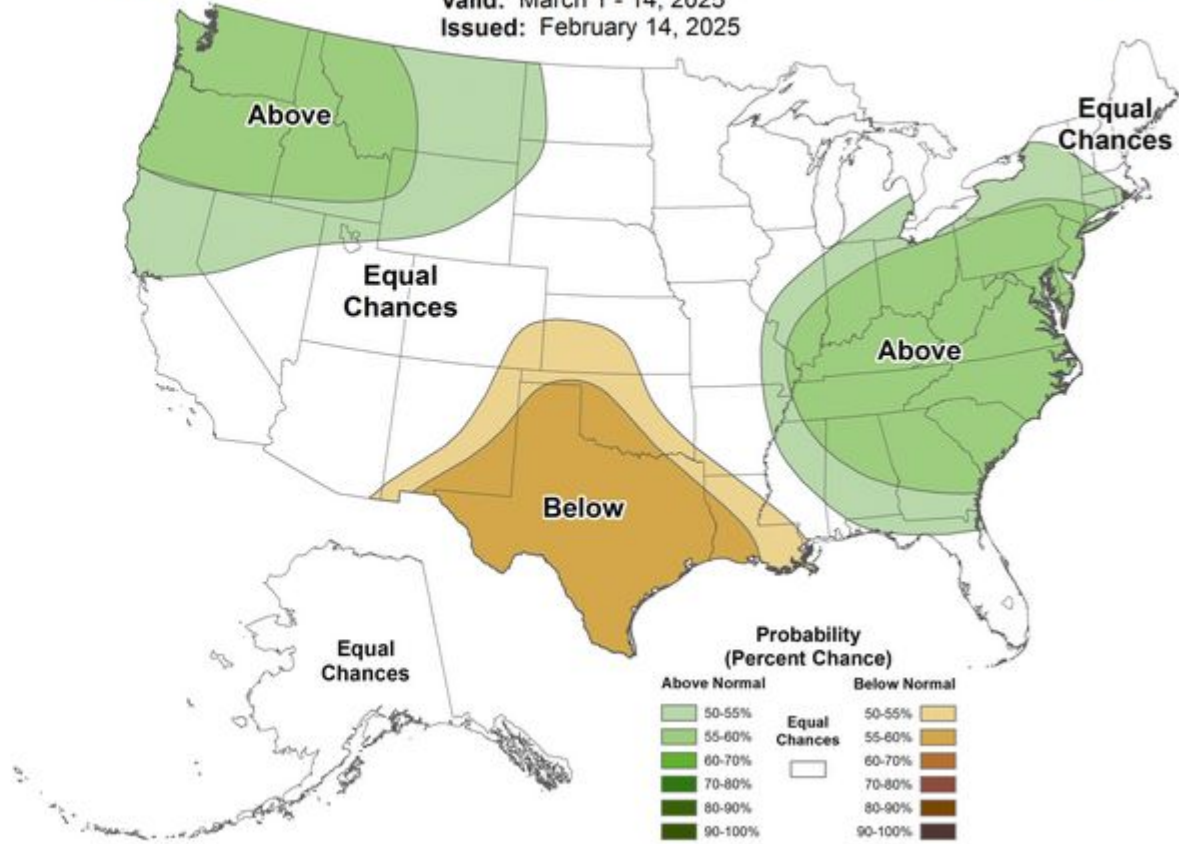
Weeks 3-4 Temperature Outlook

Valid: March 1 - 14, 2025
Issued: February 14, 2025

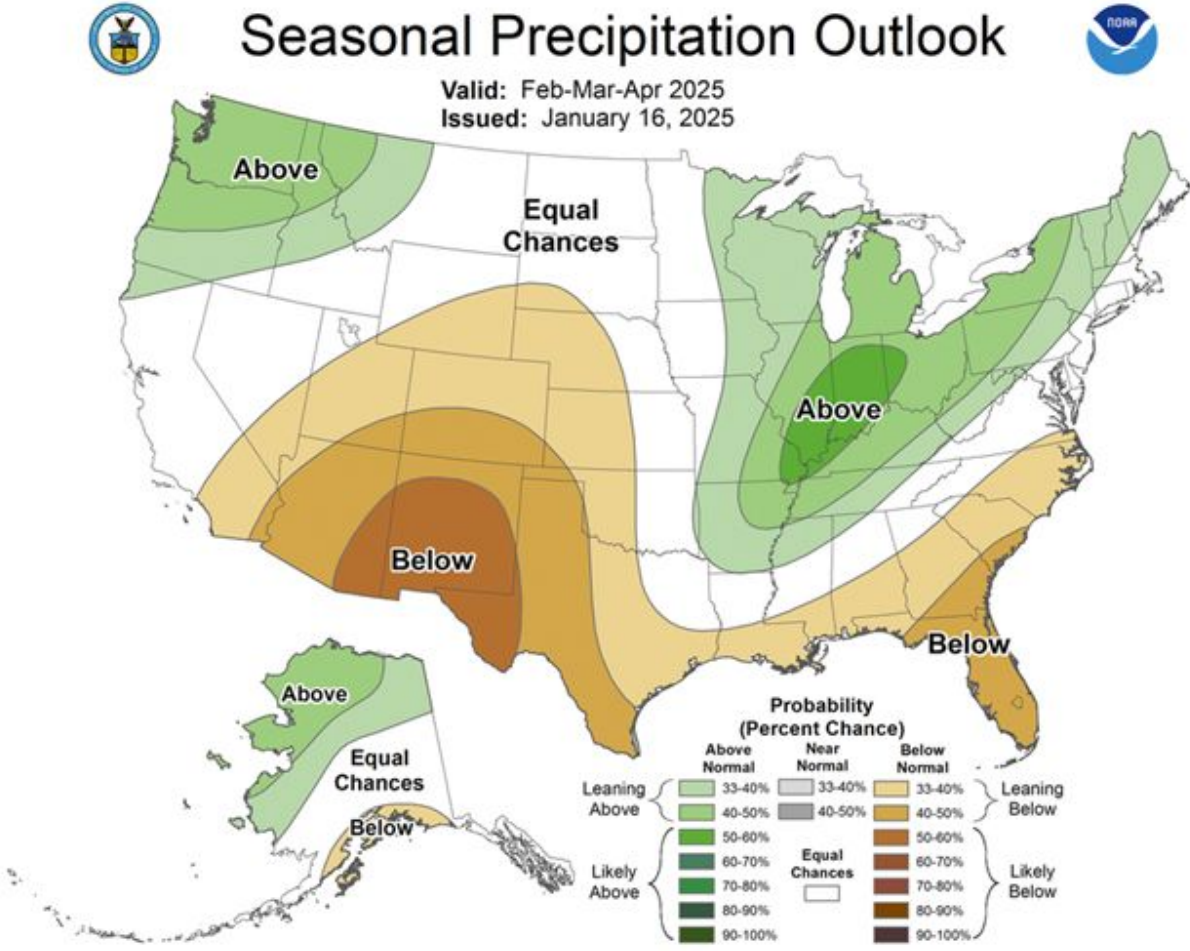
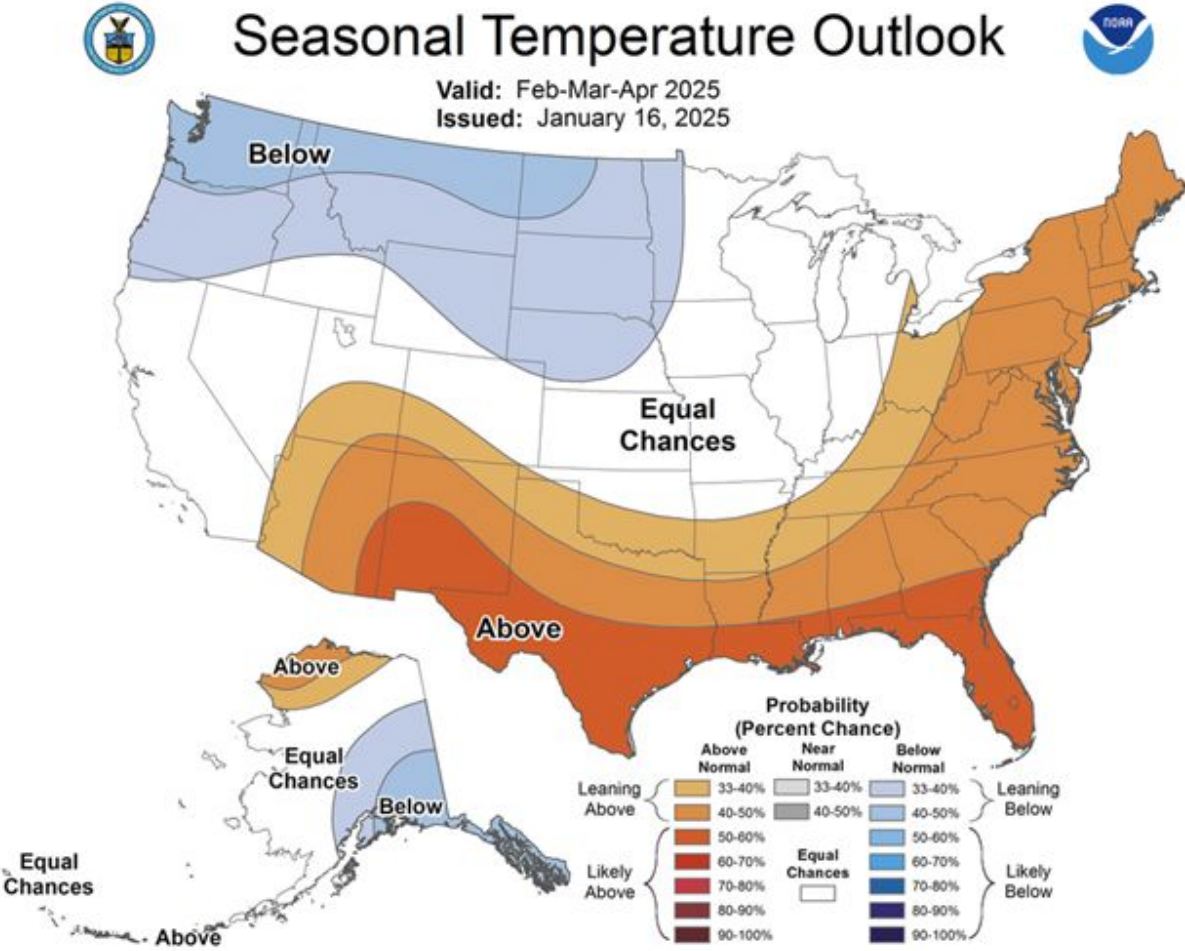


Weeks 3-4 Precipitation Outlook

Valid: March 1 - 14, 2025
Issued: February 14, 2025

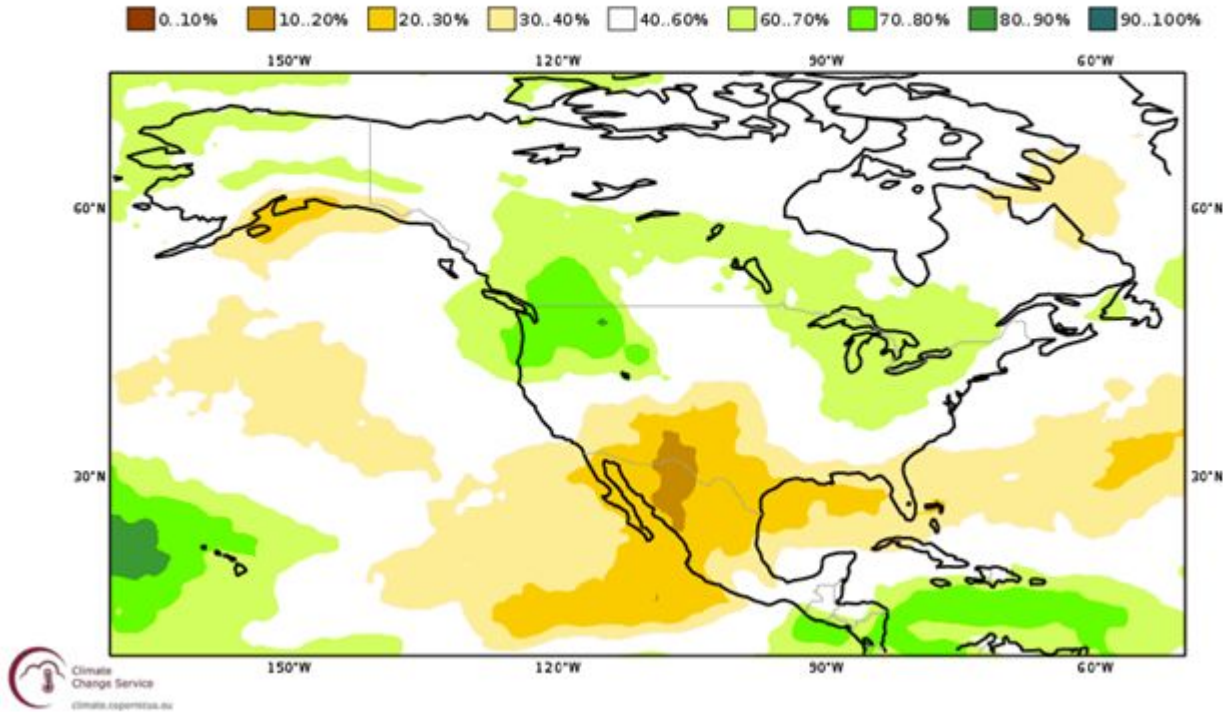


CPC 3-month Outlook (monthly and 3-month outlooks have not been updated since last webinar)



Seasonal Forecast Summary

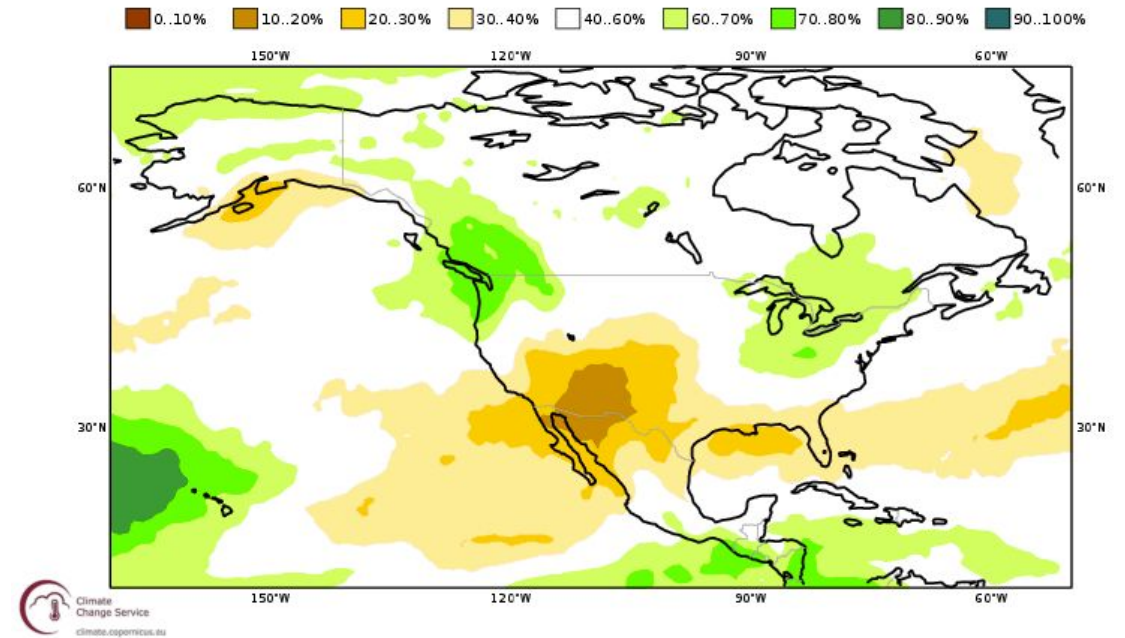
C3S multi-system seasonal forecast ECMWF/Met Office/Météo-France/CMCC/DWD/NCEP/JMA/ECCC
Prob(precipitation > median) MAR 2025
Nominal forecast start: 01/02/25
Unweighted mean



March outlook keeps the familiar north-south transition in probability of precipitation being above median.

Agency - Utah Climate Center
Presenter - Jon Meyer

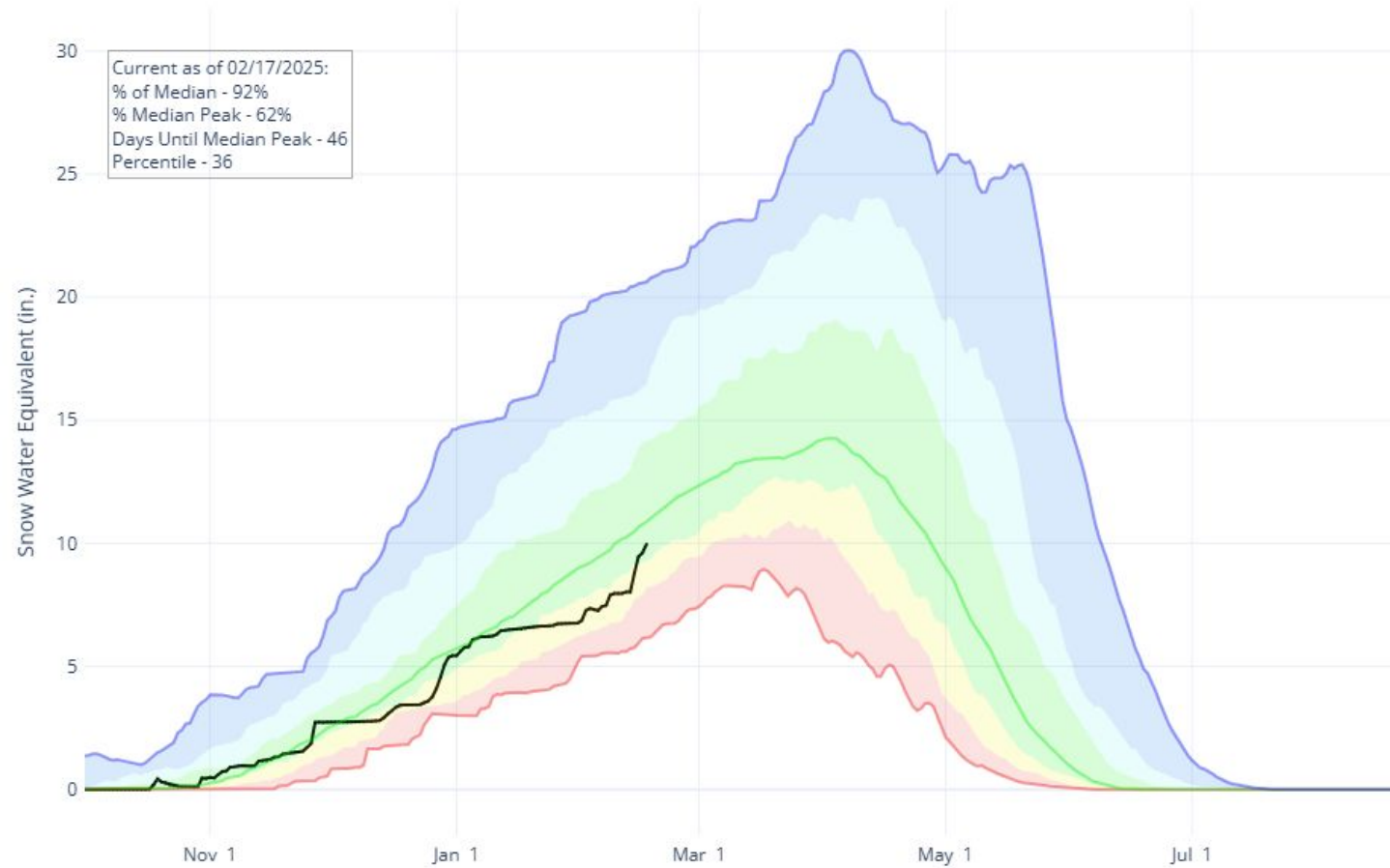
C3S multi-system seasonal forecast ECMWF/Met Office/Météo-France/CMCC/DWD/NCEP/JMA/ECCC
Prob(precipitation > median) MAM 2025
Nominal forecast start: 01/02/25
Unweighted mean



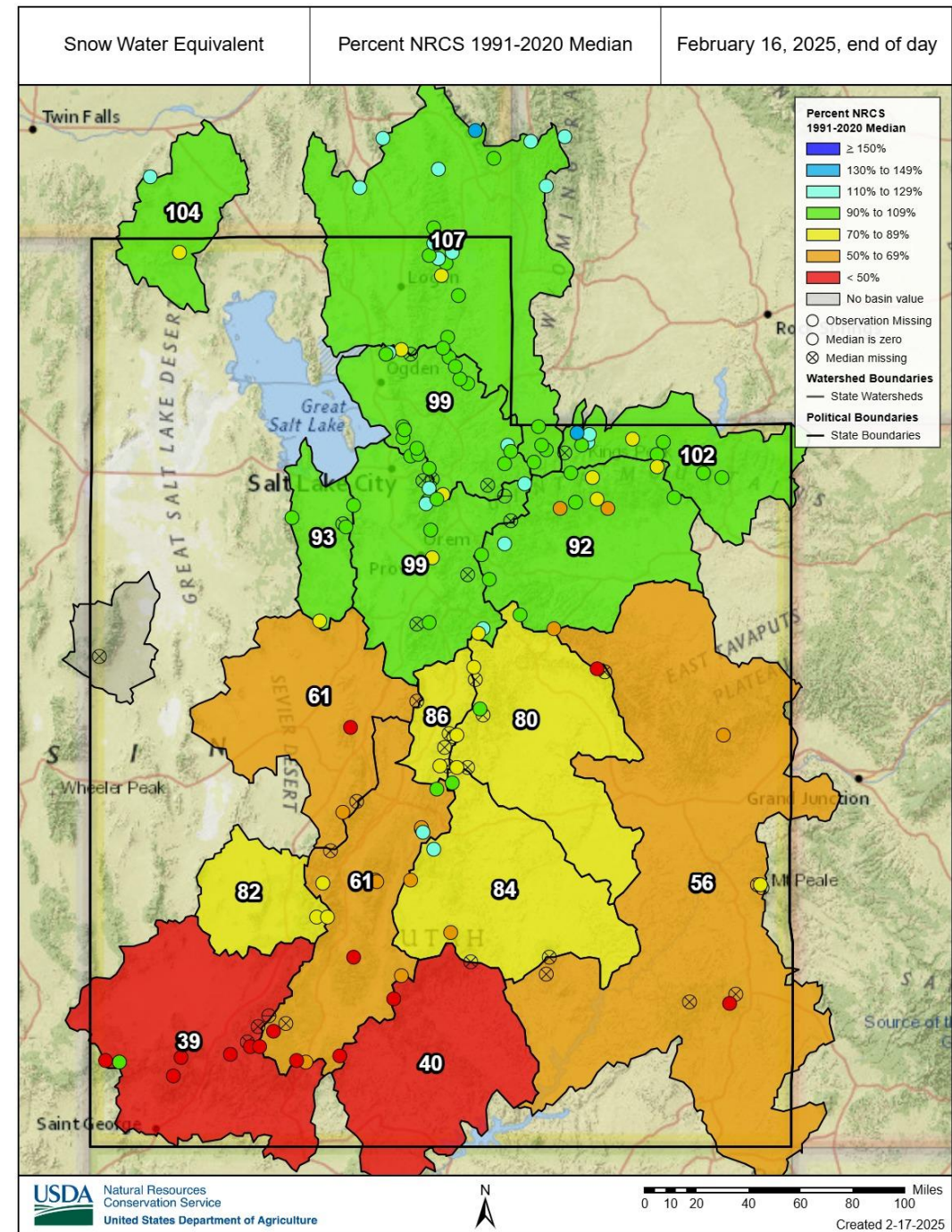
March-May outlook remains pessimistic for spring precipitation exceeding median for much of Utah and the Desert Southwest.

Snowpack

SNOW WATER EQUIVALENT IN STATE OF UTAH

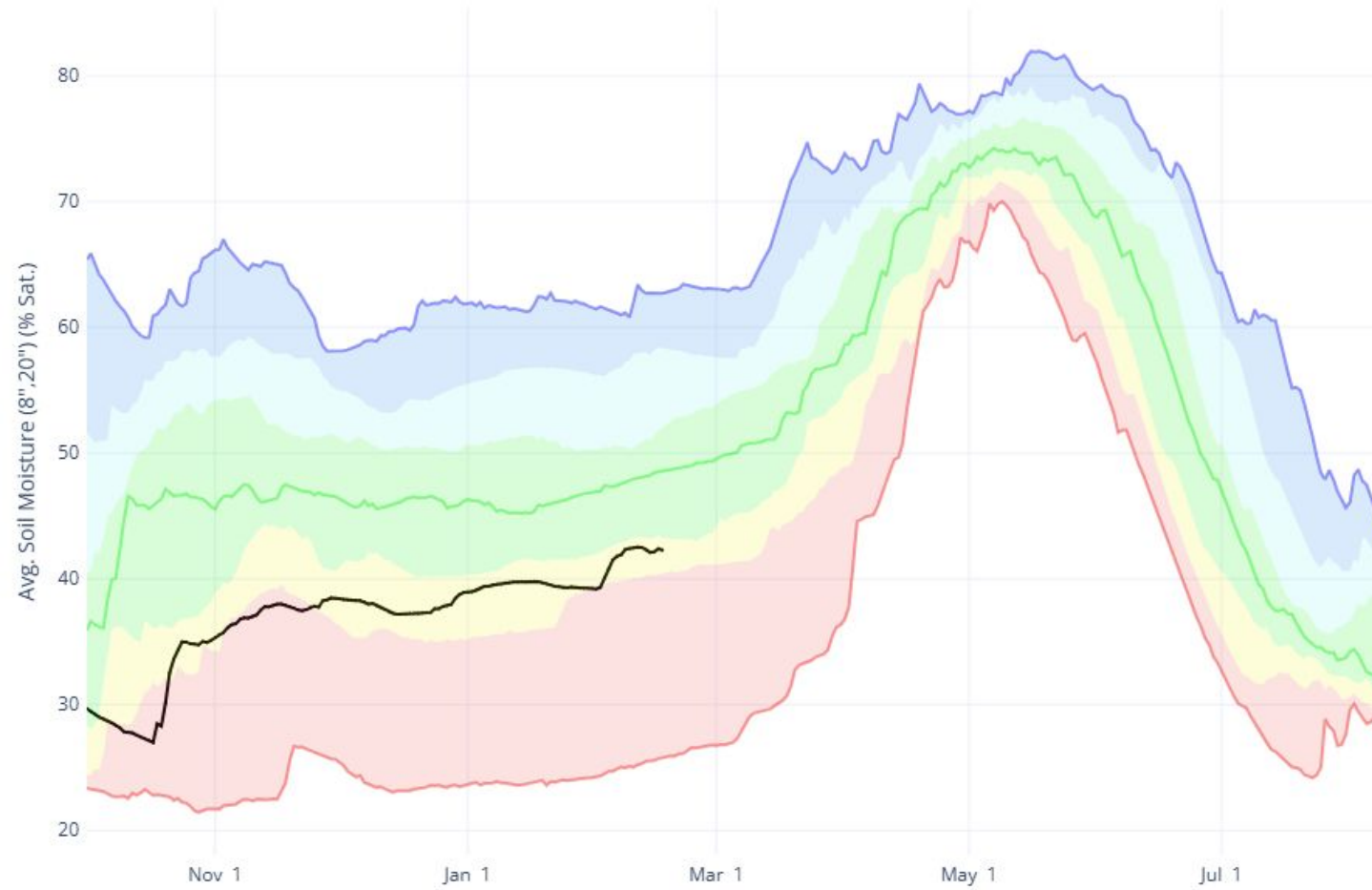


Agency - NRCS Snow Survey

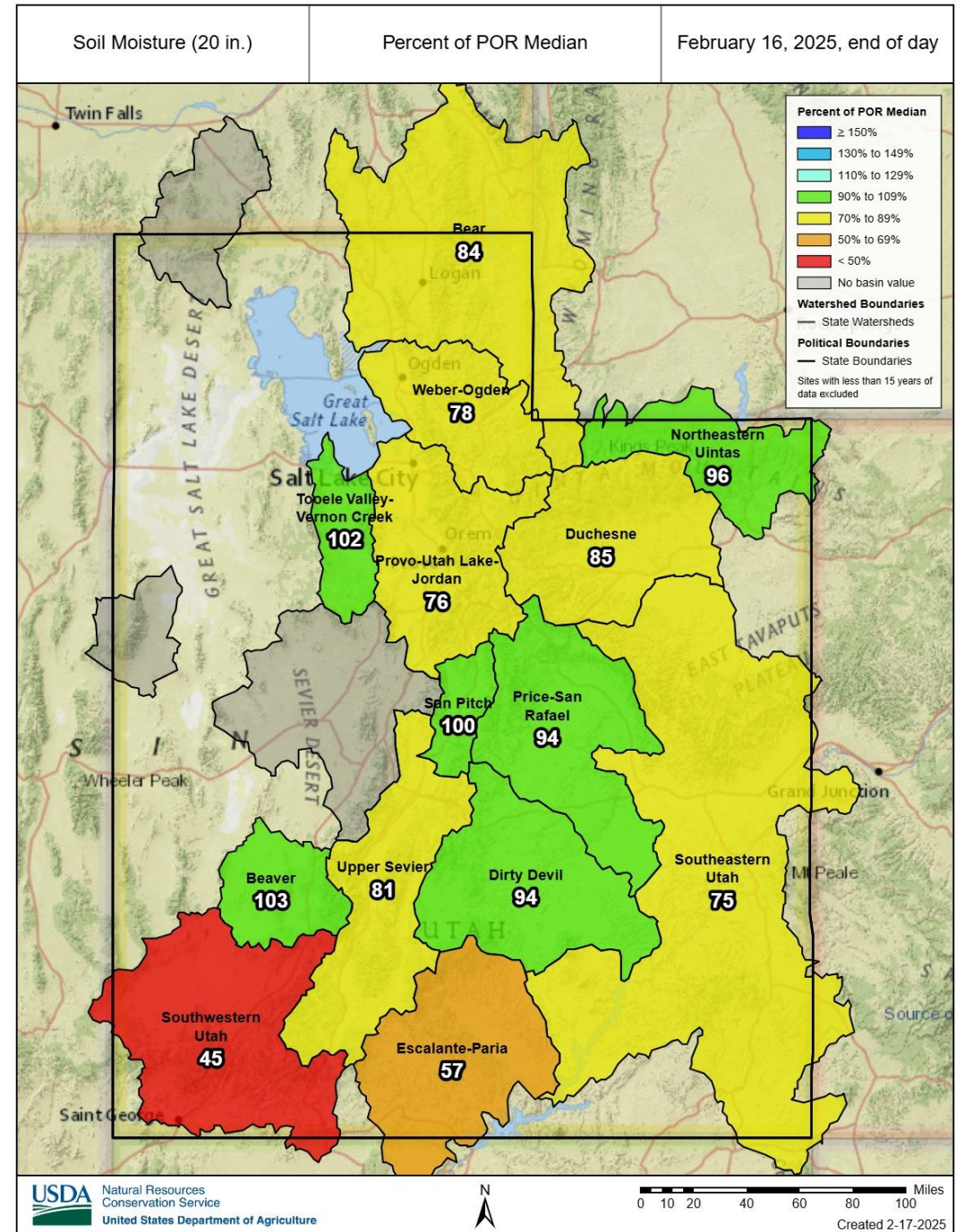


Soil Moisture

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



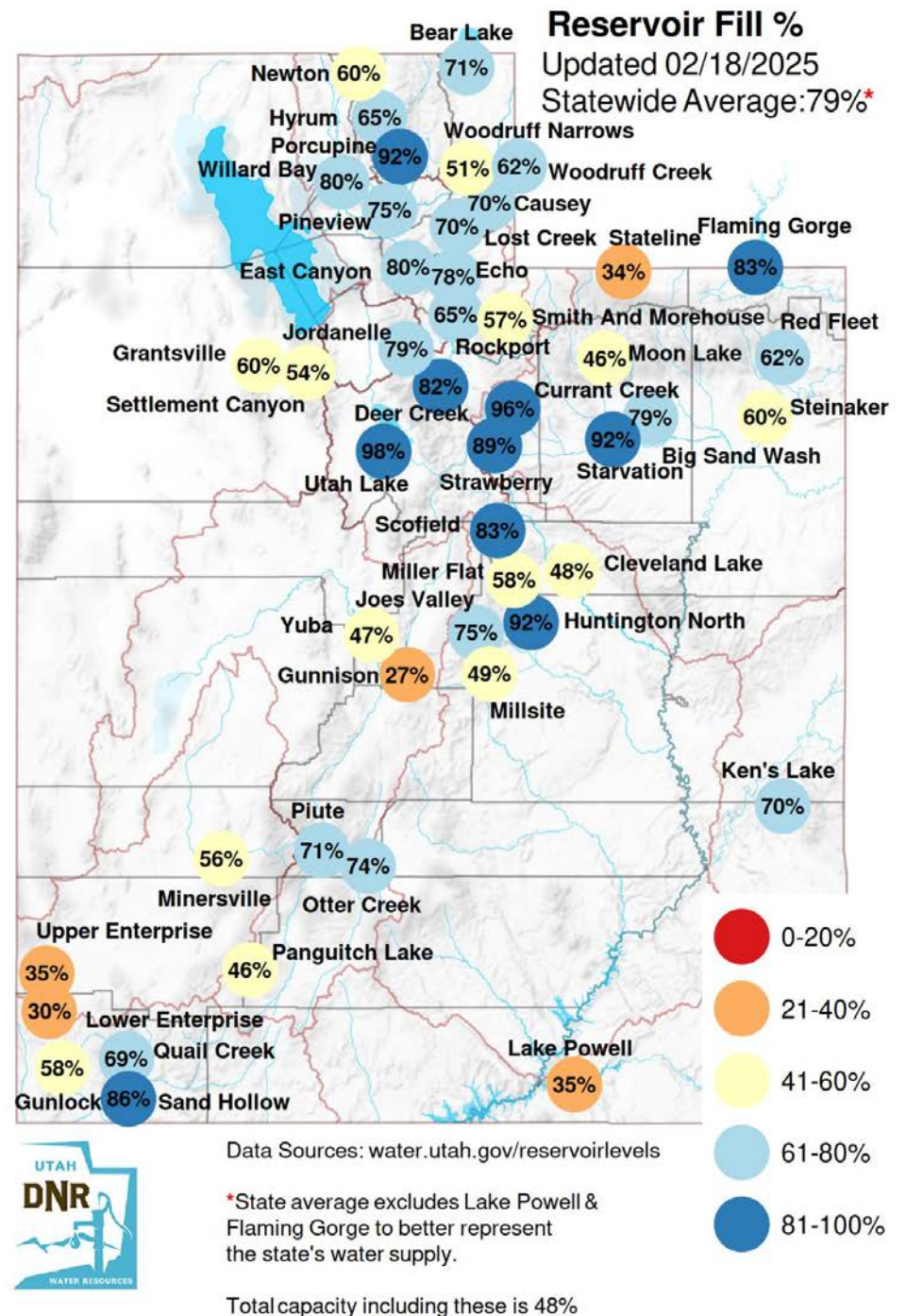
Agency - NRCS Snow Survey



Statewide reservoirs are 20% higher than average

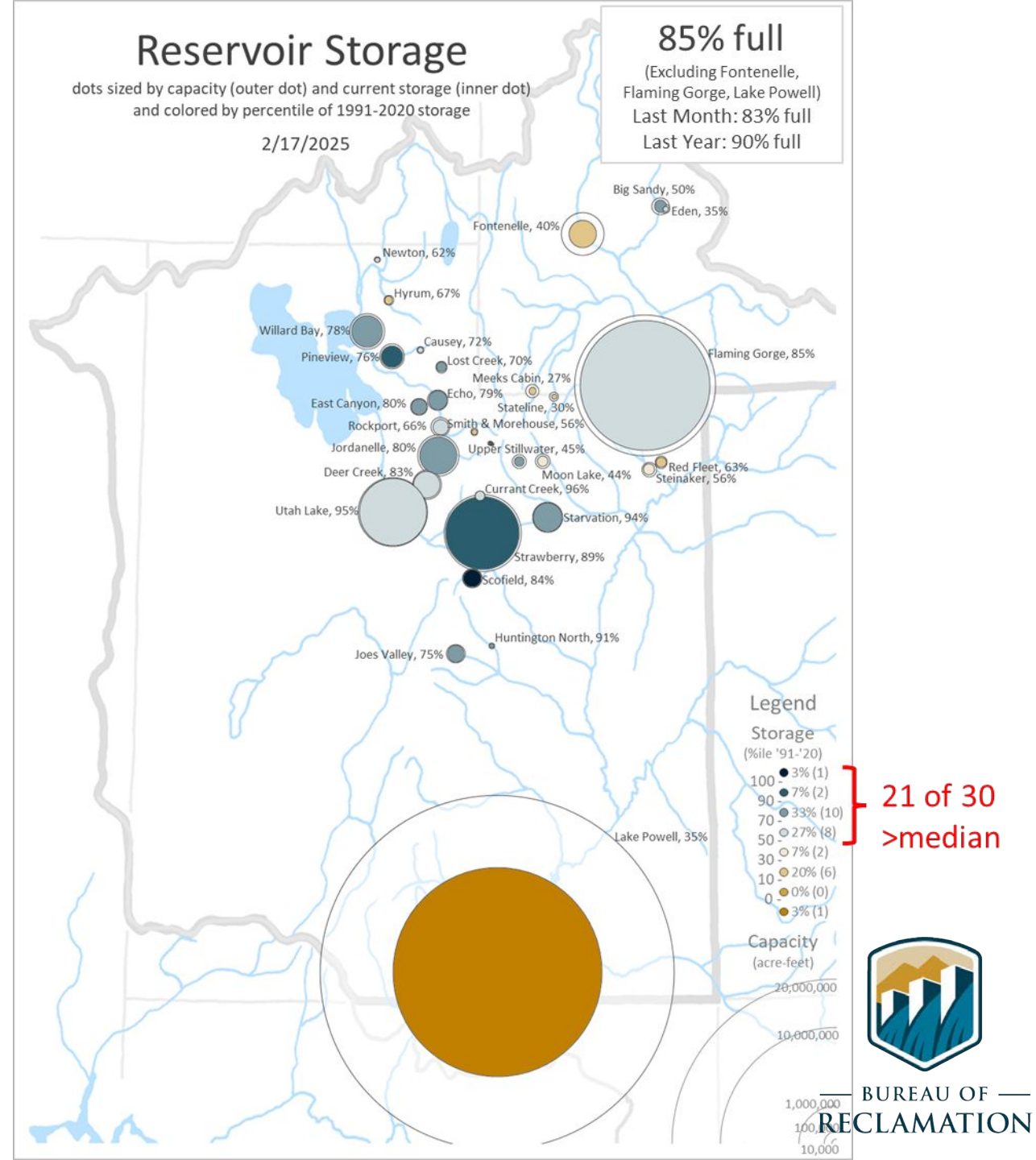
Southwestern Utah are closer to average

No average for Sand Hollow yet

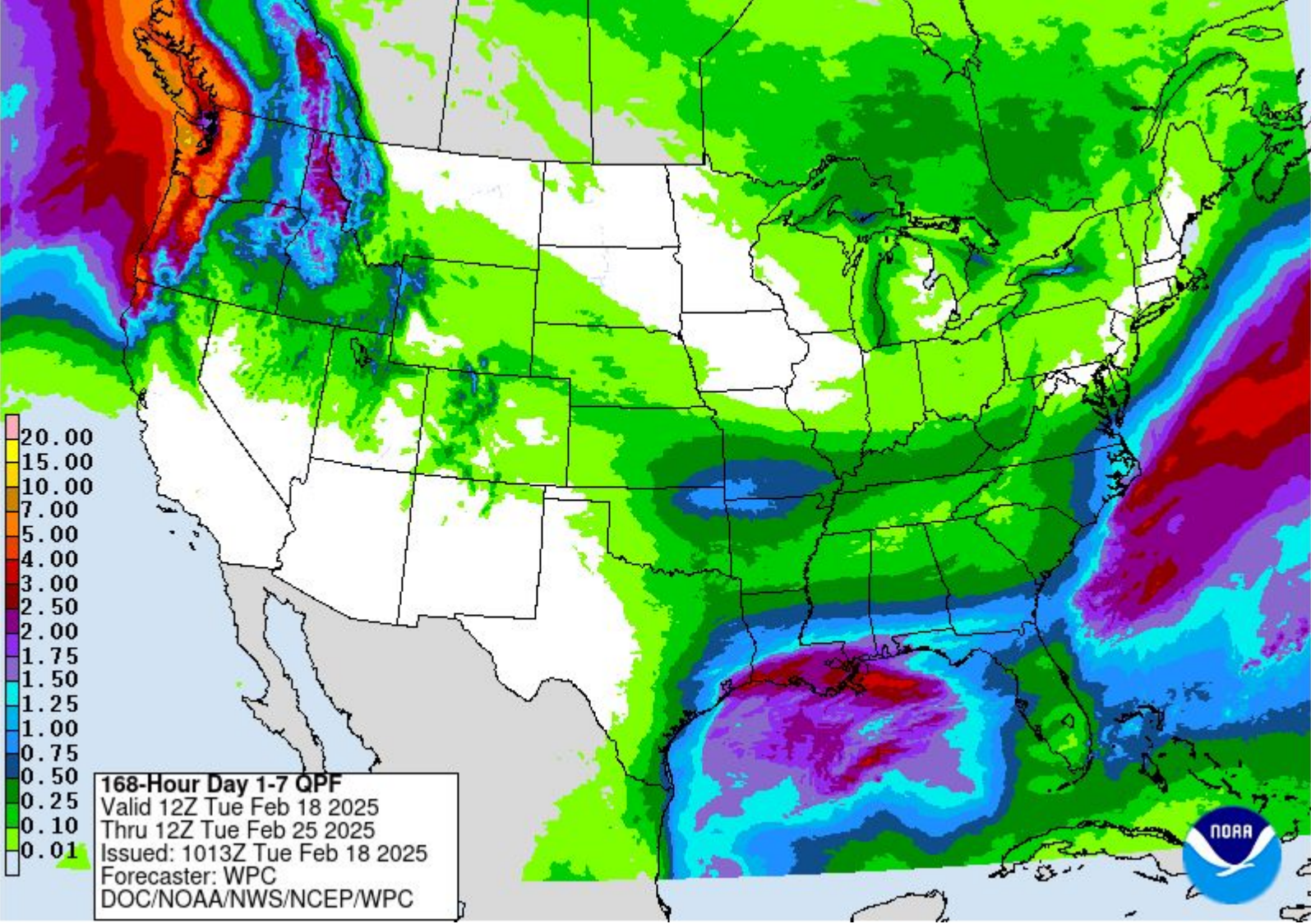


Reservoir Levels

- **Overall reservoir storage is at 85% full**
(Excluding Powell, Flaming Gorge, Fontenelle)
 - up ~0.7% since Feb 1 (84%)
 - ~13% higher than the 21-year average (~72%)
 - down ~5% from last year (~90%)
- **Individual reservoirs range from 27-94% full**
 - 21/30 are above the 30-year median
 - a bit low in the eastern Uinta basin and low at Lake Powell, otherwise in good shape
- **Outlook**
 - continue to make minimum releases (no flood control so far)
 - storage will generally gradually increase
 - no significant changes until closer to spring
 - still a bit early to forecast which reservoirs will fill

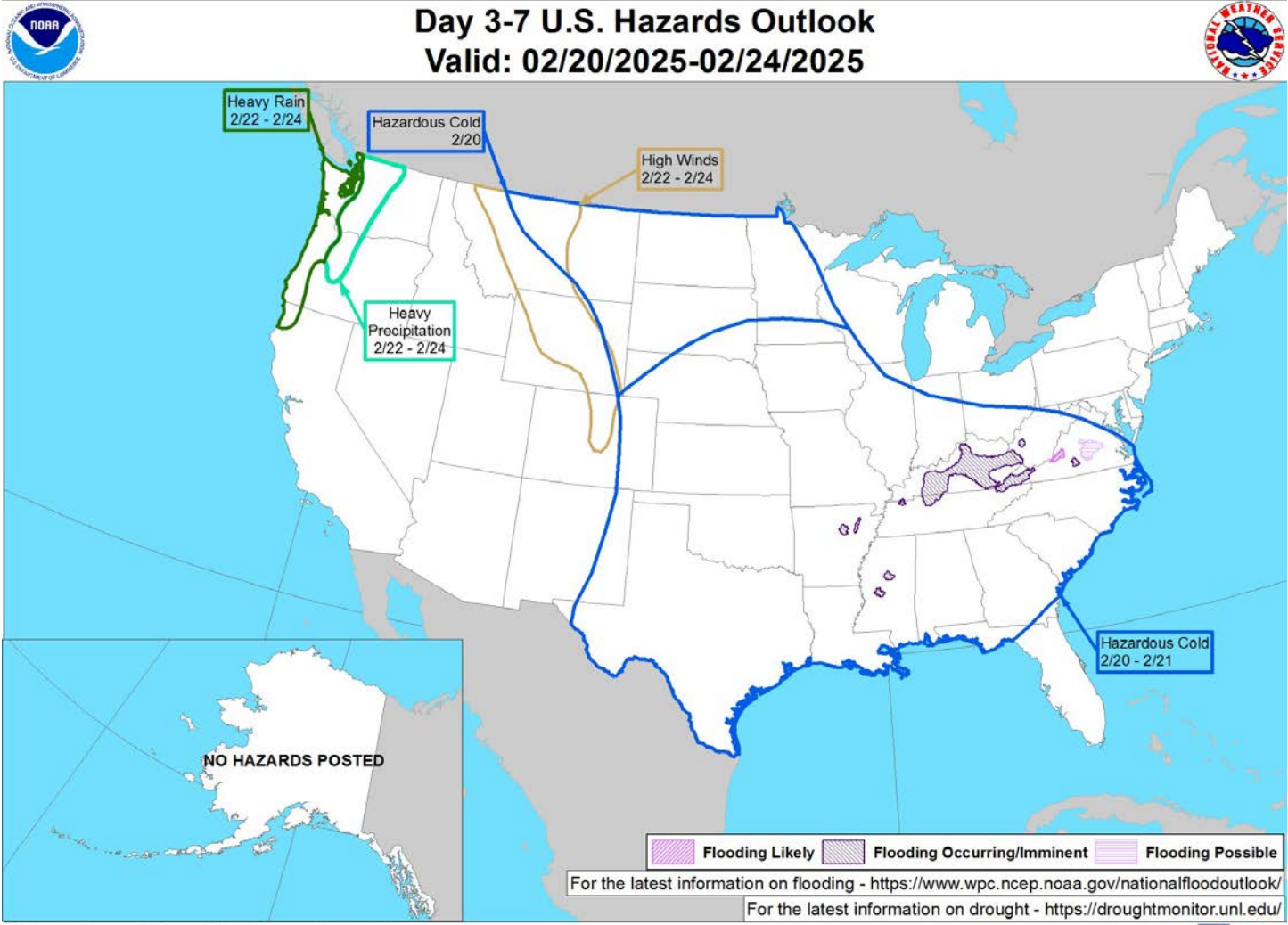


Weather Forecast Office Utah Day 1-7 Outlook



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

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



Weather Prediction Center
Made: 02/17/2025 02:43 PM EST

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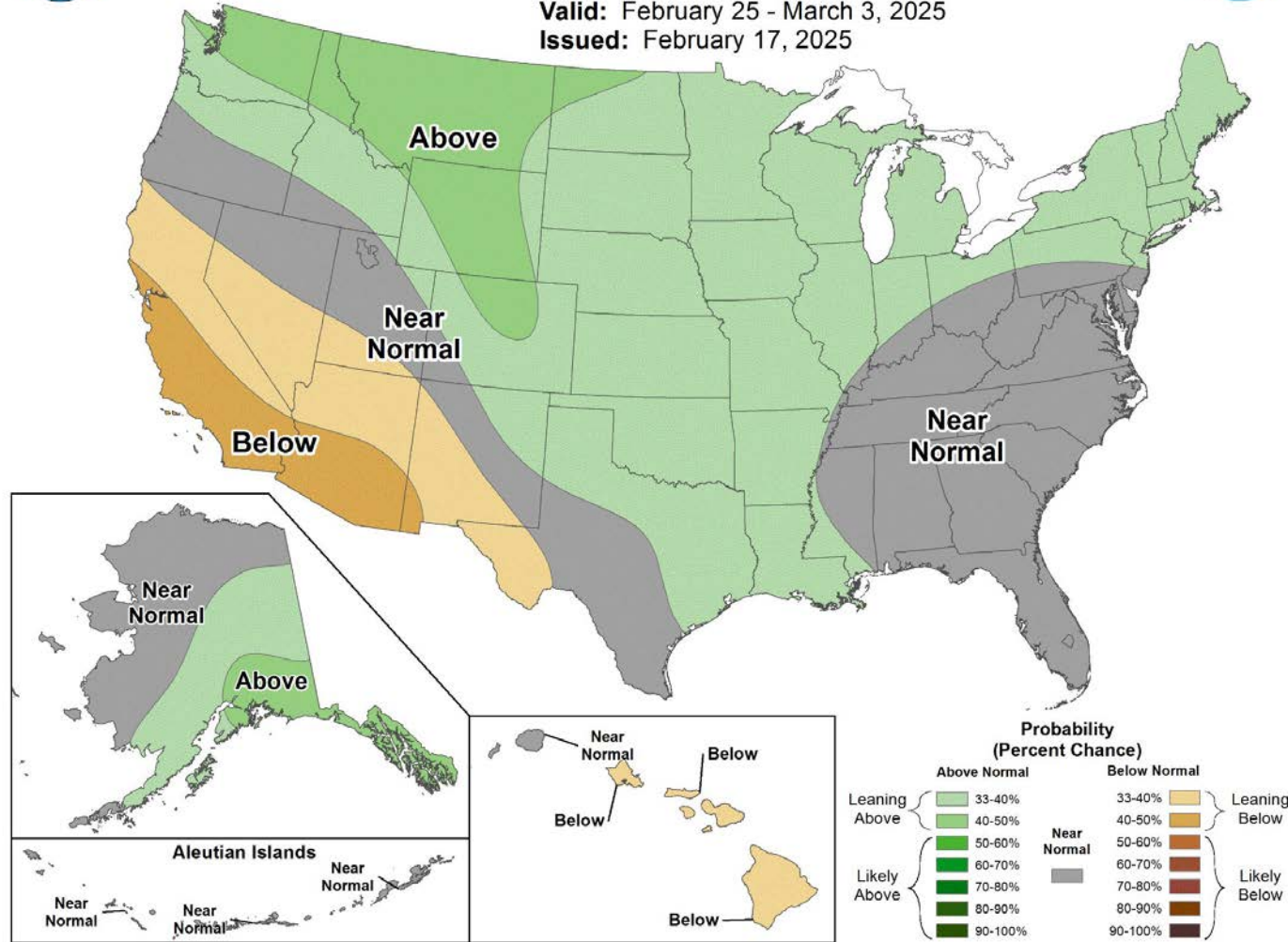
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



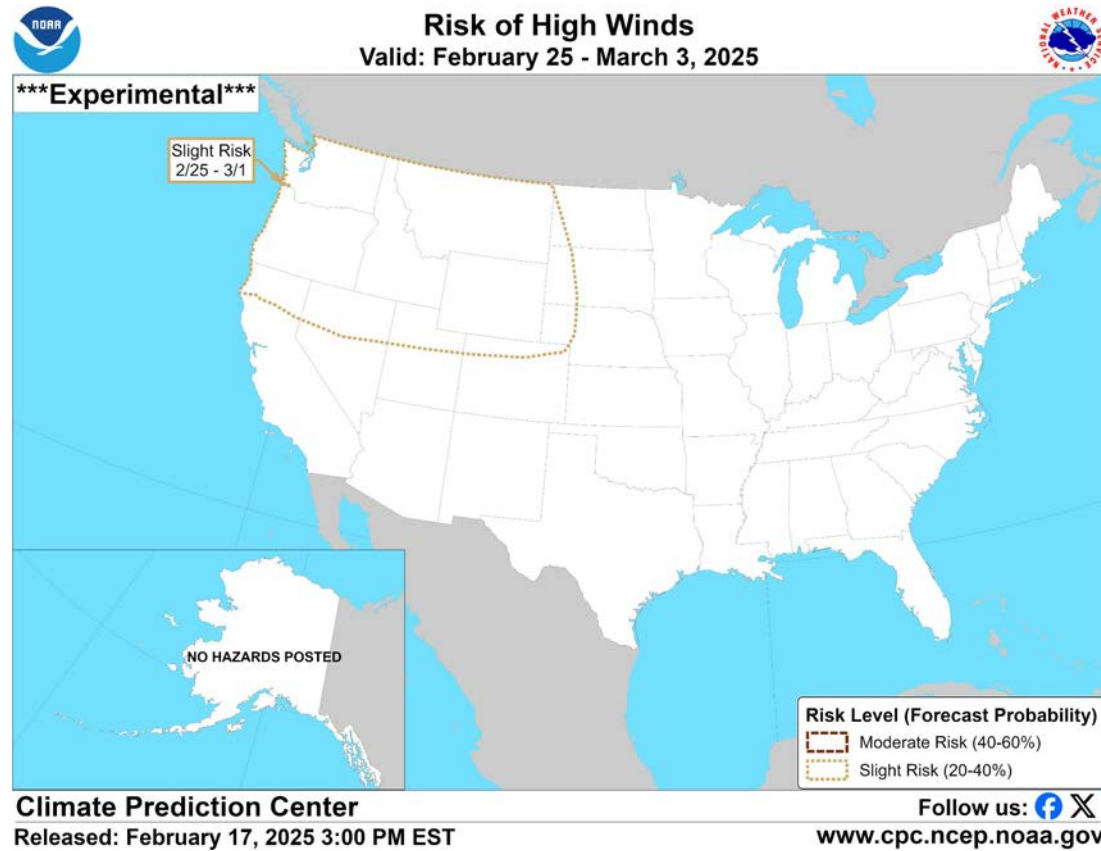
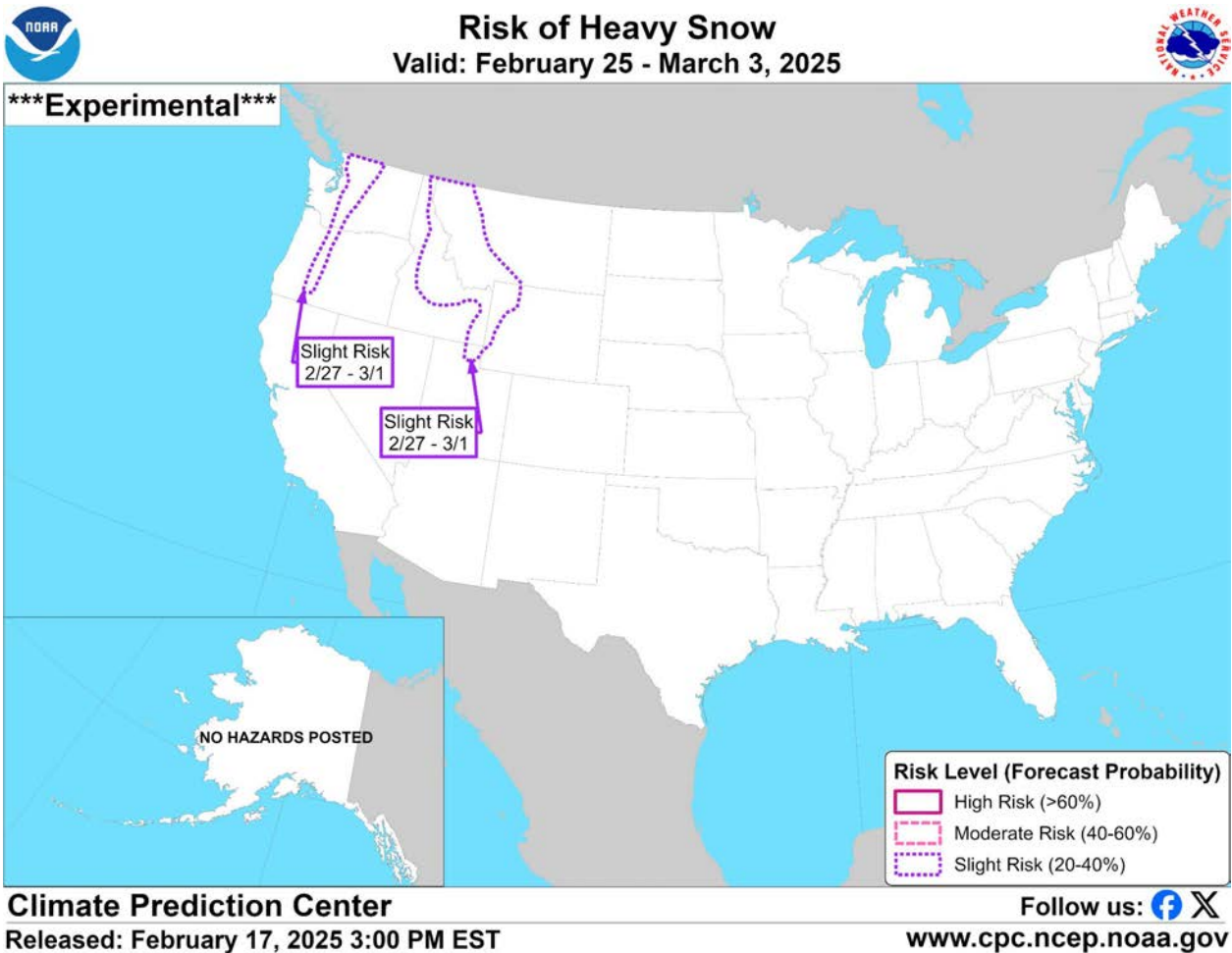
8-14 Day Precipitation Outlook



Valid: February 25 - March 3, 2025
Issued: February 17, 2025

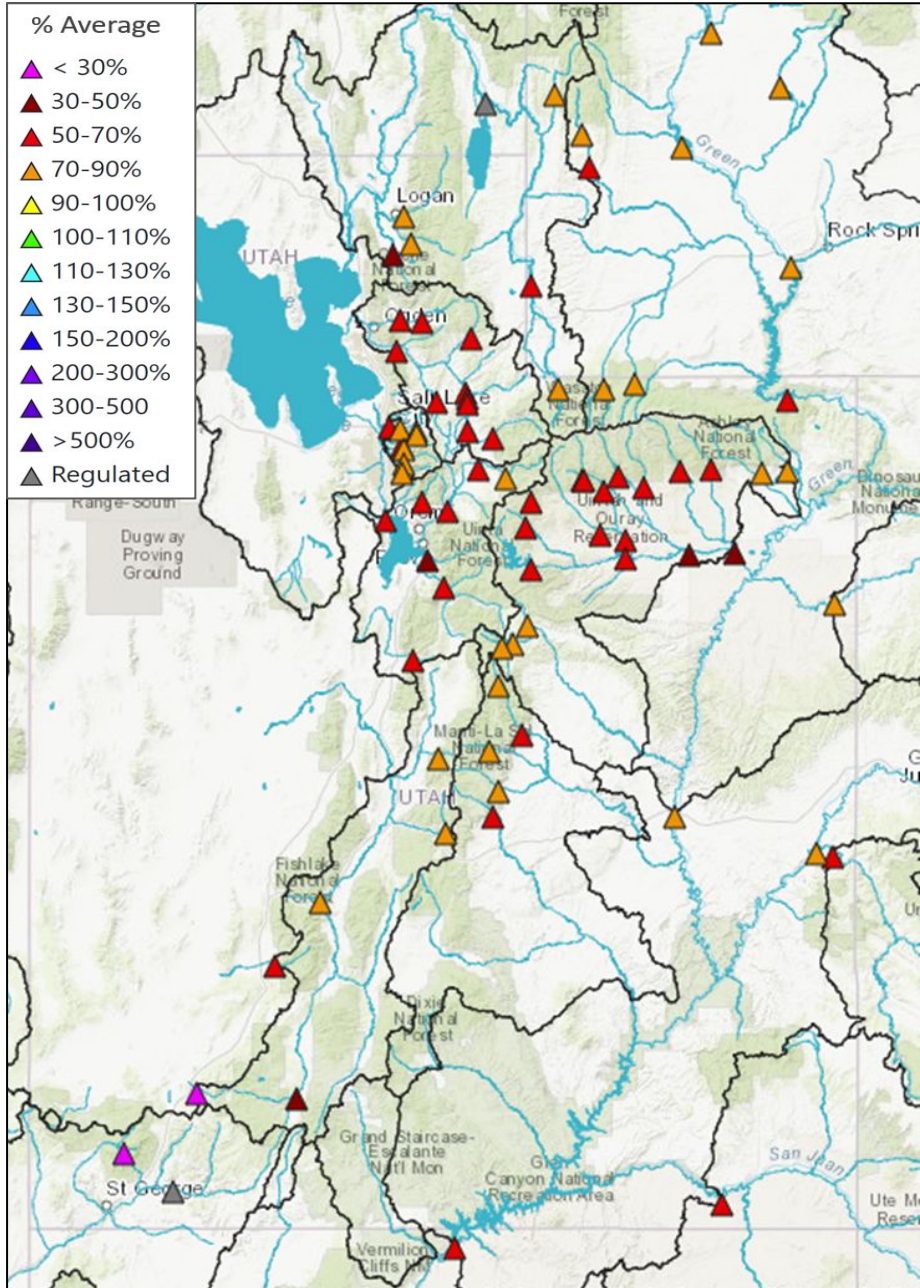


Climate Prediction Center U.S. Week-2 Hazards Outlook



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

Utah Water Supply Forecasts: Overview



Utah April-July volume forecasts range from below normal to much below normal with worst conditions in the southwest part of the state.

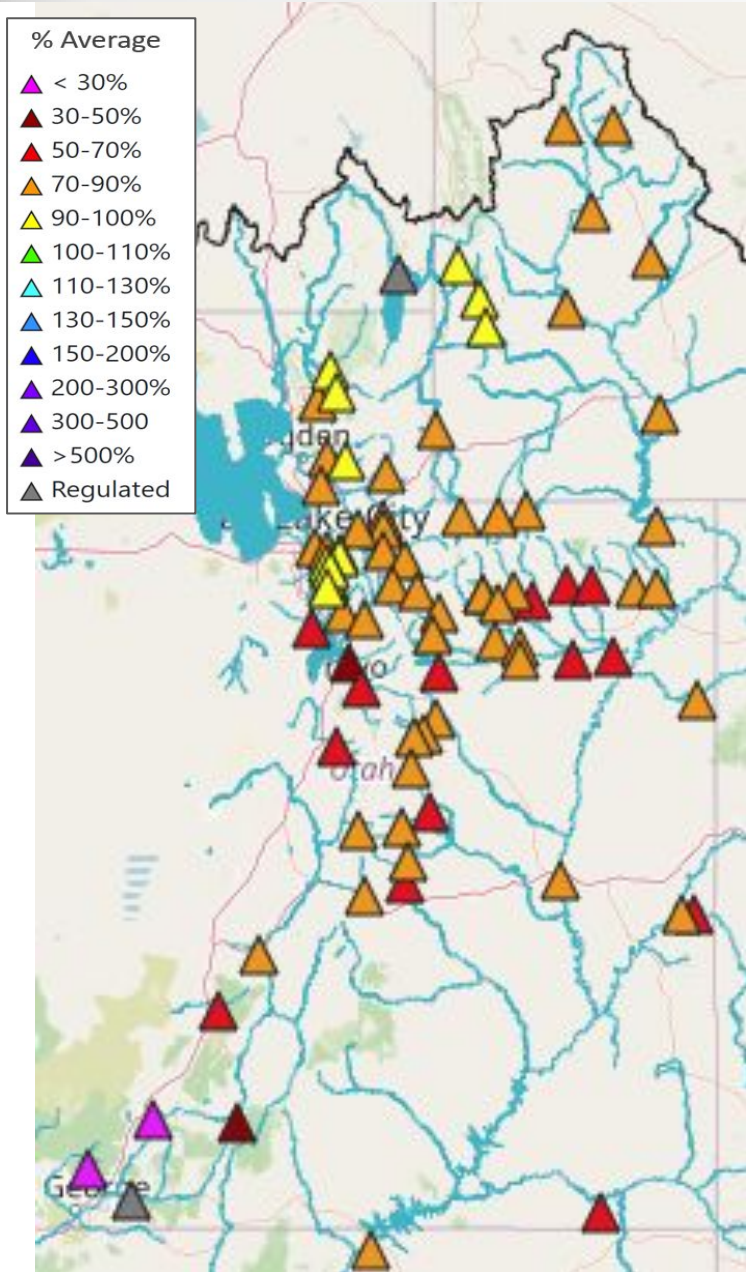
Forecasts have decreased significantly across the state since January 1 and are down an average of 13%.

**CBRFC Water Supply Forecasts (kaf)
and %Change in Volume**

UTAH			
	Feb 1 Fcst Vol	%Avg '91-'20	%Chng Vol Jan1
Bear-UT/WY St Line	84	77	-10
Weber-Oakley	74	67	-15
Big Cottonwood Ck	27	79	-7
Provo-Woodland	70	73	-14
Duchesne-Tabiona	68	66	-13
Joes Valley Reservoir	44	86	-12
Sevier-Hatch	18	34	-22
Virgin-Virgin	21	38	-25
Flaming Gorge	665	69	0
Lake Powell	4300	67	-17



Utah Water Supply Forecasts: Overview



Utah April-July volume forecasts range from below normal to much below normal with worst conditions in the southwest part of the state.

While forecasts are still below average, this past storm is showing some improvement throughout most of the basin.

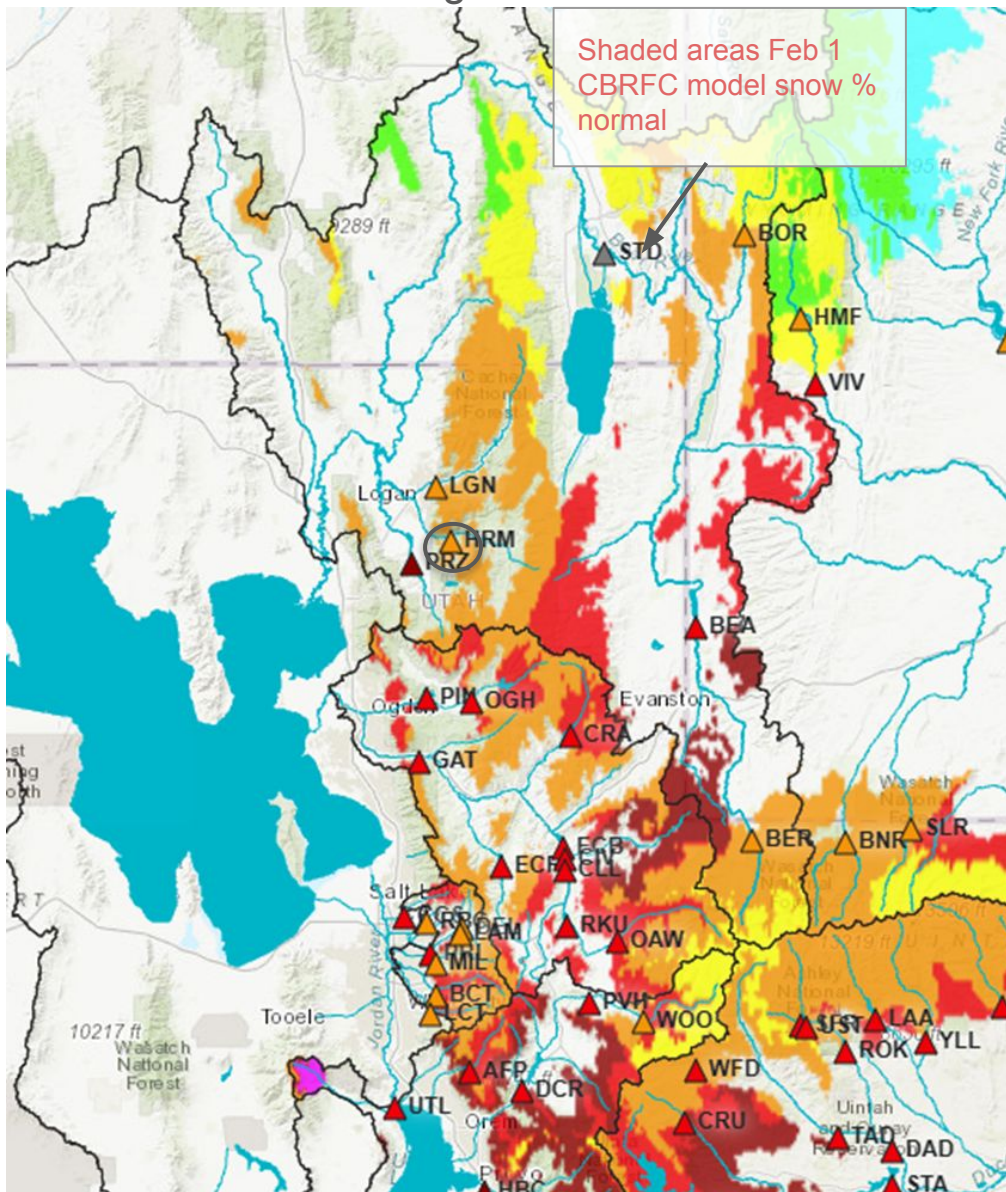
**CBRFC Water Supply Forecasts (kaf)
and %Change in Volume**

UTAH			
	<u>Feb 17</u> <u>Fcst Vol</u>	<u>%Avg</u> <u>'91-'20</u>	<u>%Chng</u> <u>Vol Jan1</u>
Bear-UT/WY St Line	93	86	-1
Weber-Oakley	87	78	-4
Big Cottonwood Ck	29	87	1
Provo-Woodland	85	88	1
Duchesne-Tabiona	78	76	-3
Joes Valley Reservoir	46	90	-8
Sevier-Hatch	18	34	-22
Virgin-Virgin	25	44	-19
Flaming Gorge	750	78	9
Lake Powell	5089	80	-4



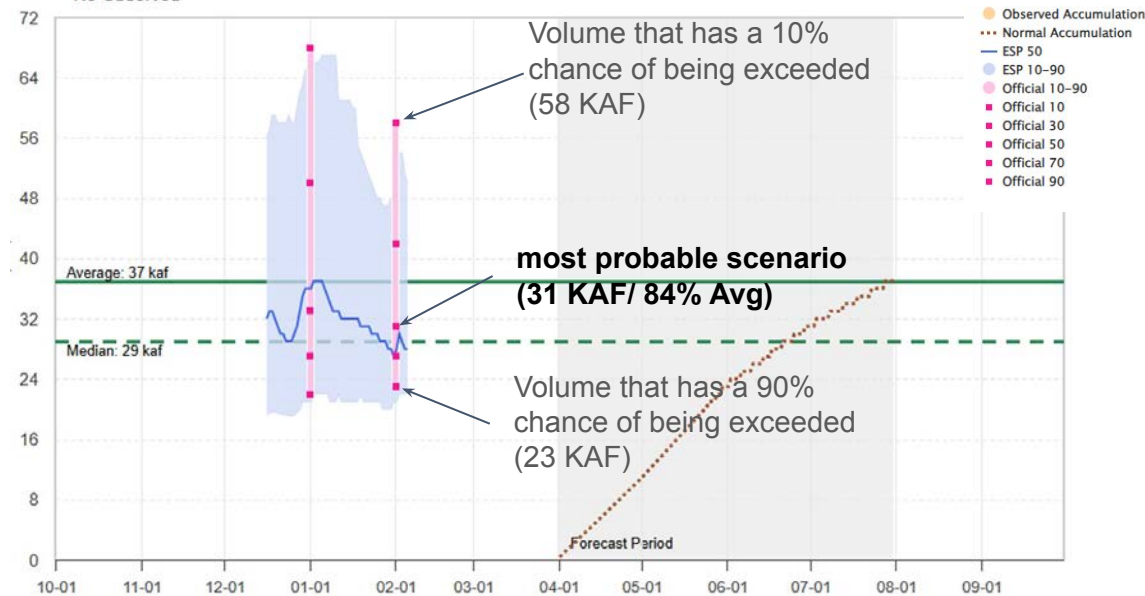
Bear River Basin

Forecast Range: 50-80%



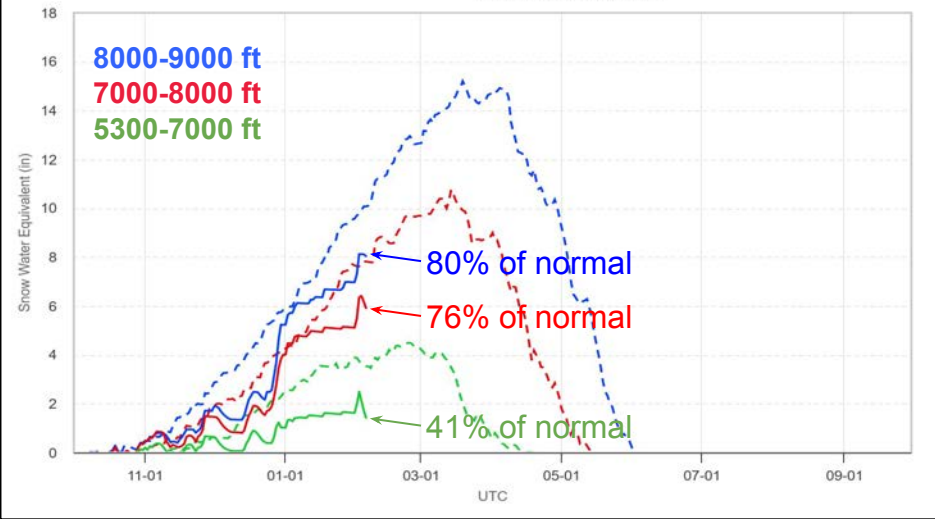
2025 Water Supply Forecast - Blacksmith Fork - Hyrum, Nr, Upnl Dam, Abv (HRMU1)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2025-02-01): 31 kaf (84% Avg, 107% Med), (35% of Yrs Below Fcst, 70 Highest Flow / 107 Tot Yrs)
 ESP 50% Fcst (2025-02-05): 28 kaf (75% Avg, 95% Med), (27% of Yrs Below Fcst, 79 Highest Flow / 107 Tot Yrs)
 No Observed



Model Snow Plot - Blacksmith Fork - Hyrum, Nr, Upnl Dam, Abv (HRMU1) - NOAA

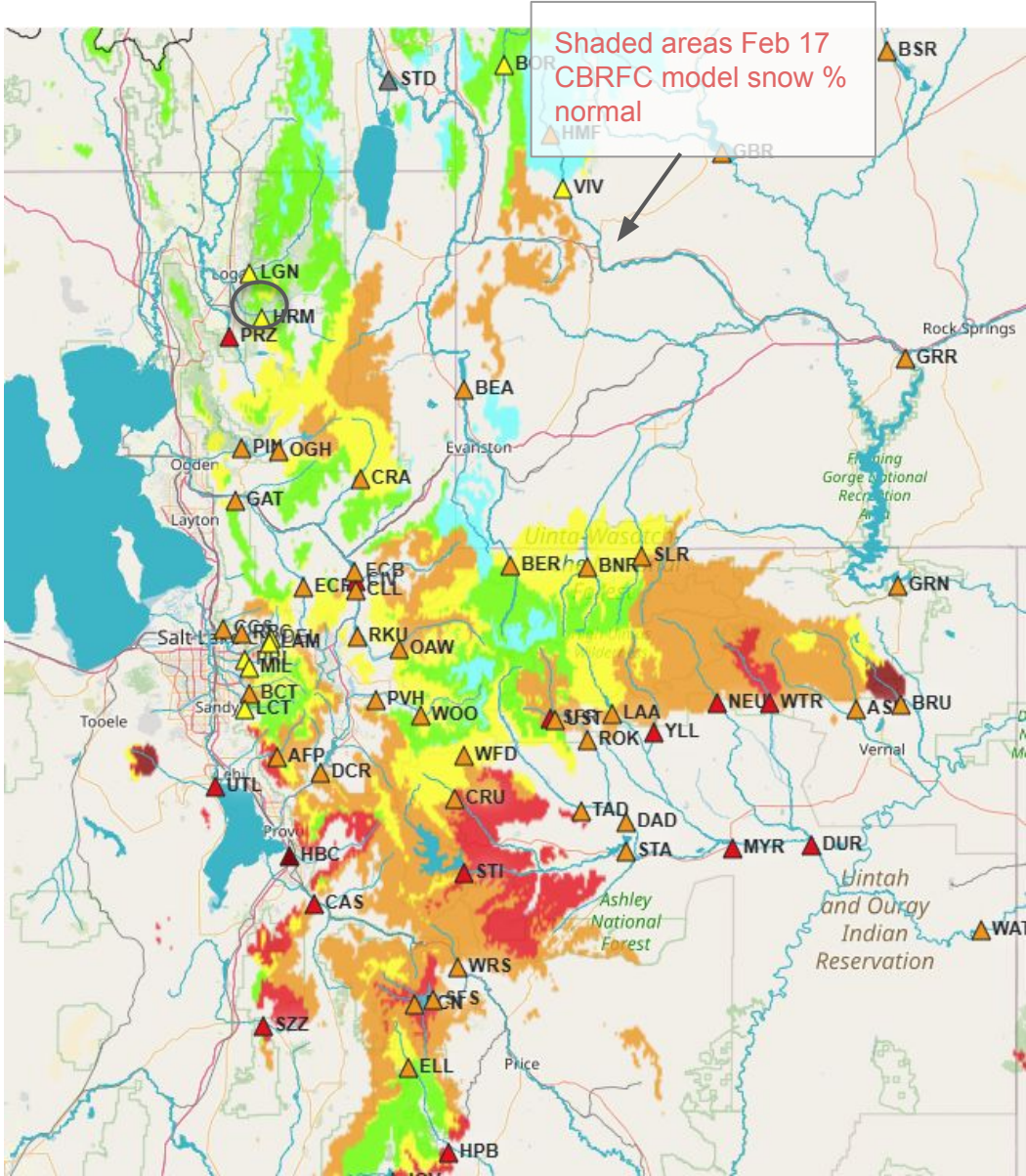
Created: 2025-02-06 16:04Z



Bear River Basin

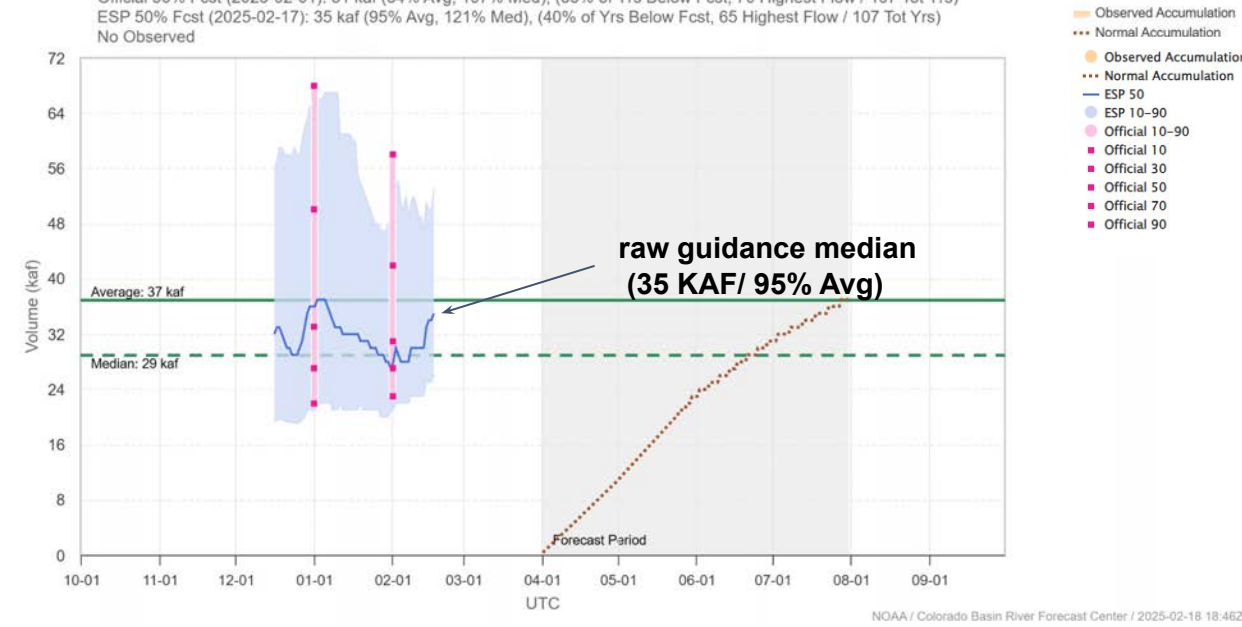
Forecast Range: 50-80%

- % Average**
- ▲ < 30%
 - ▲ 30-50%
 - ▲ 50-70%
 - ▲ 70-90%
 - ▲ 90-100%
 - ▲ 100-110%
 - ▲ 110-130%
 - ▲ 130-150%
 - ▲ 150-200%
 - ▲ 200-300%
 - ▲ 300-500
 - ▲ > 500%
 - ▲ Regulated

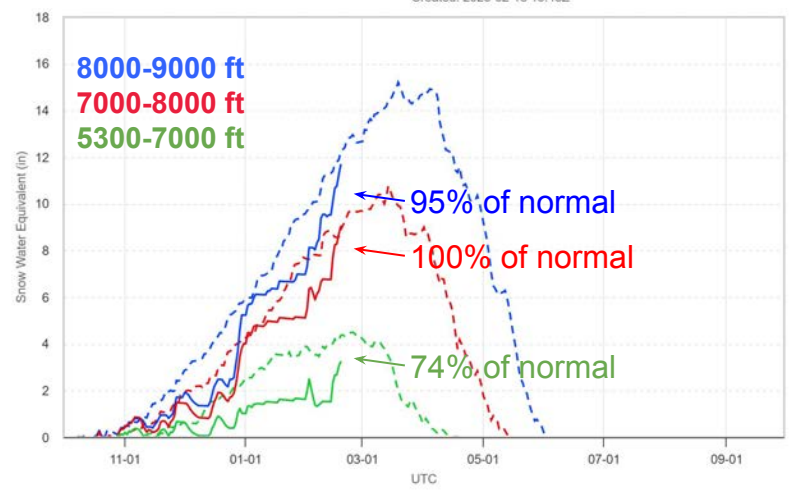


2025 Water Supply Forecast - Blacksmith Fork - Hyrum, Nr, Upnl Dam, Abv (HRMU1)

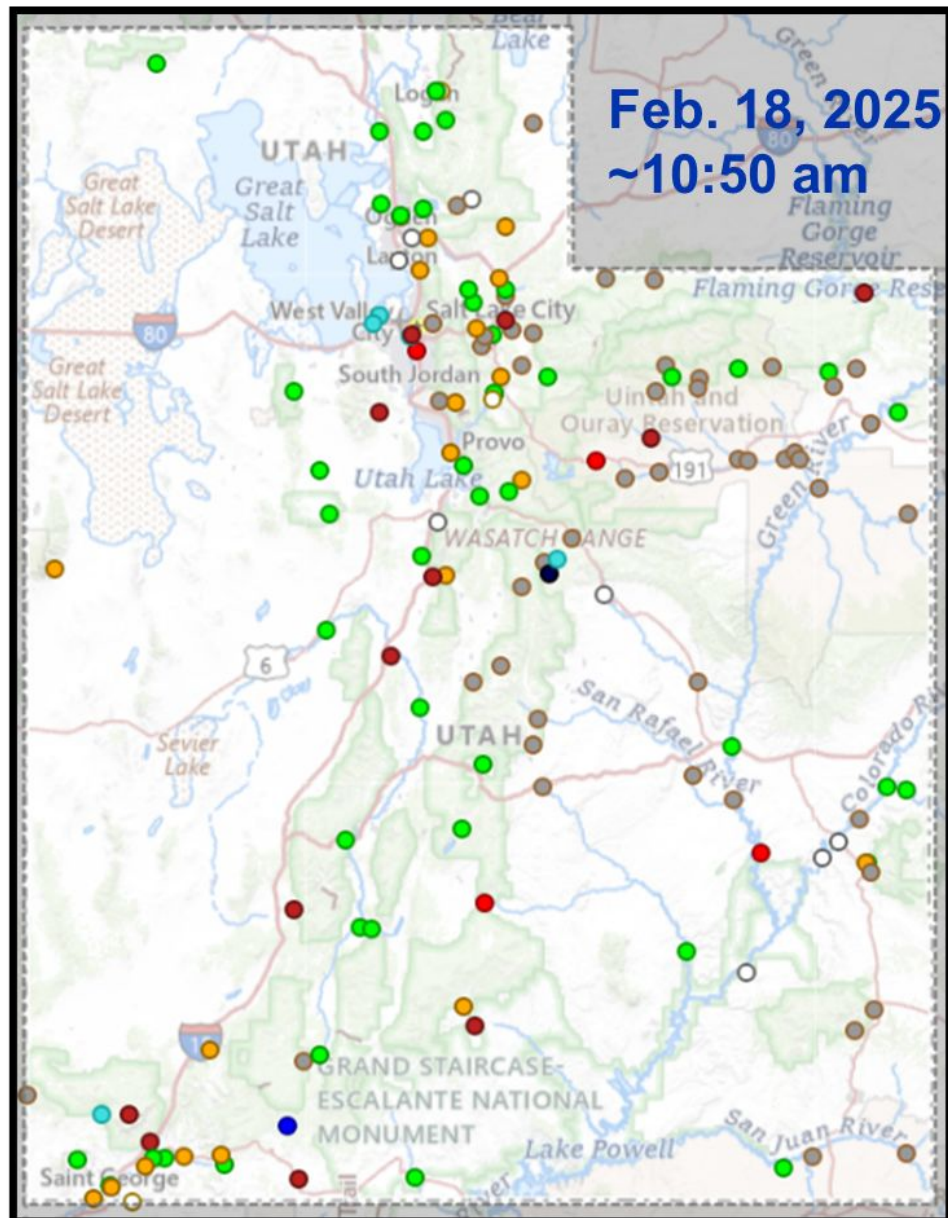
ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2025-02-01): 31 kaf (84% Avg, 107% Med), (35% of Yrs Below Fcst, 70 Highest Flow / 107 Tot Yrs)
 ESP 50% Fcst (2025-02-17): 35 kaf (95% Avg, 121% Med), (40% of Yrs Below Fcst, 65 Highest Flow / 107 Tot Yrs)
 No Observed



Model Snow Plot - Blacksmith Fork - Hyrum, Nr, Upnl Dam, Abv (HRMU1) - NOAA/CBRFC



Current Streamflow Conditions



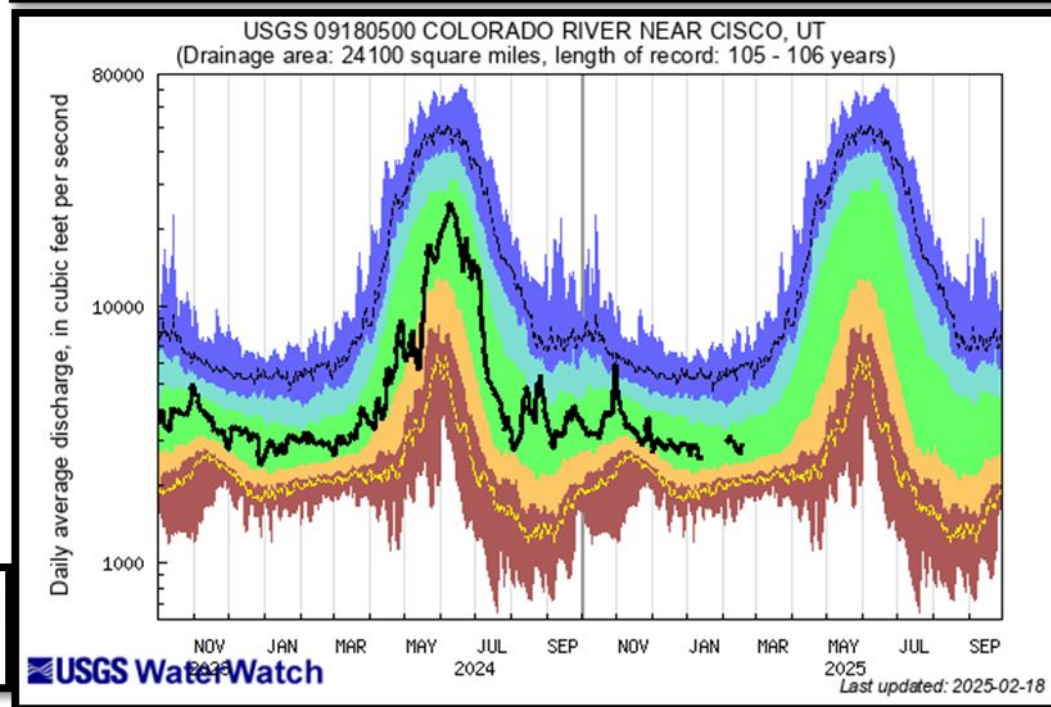
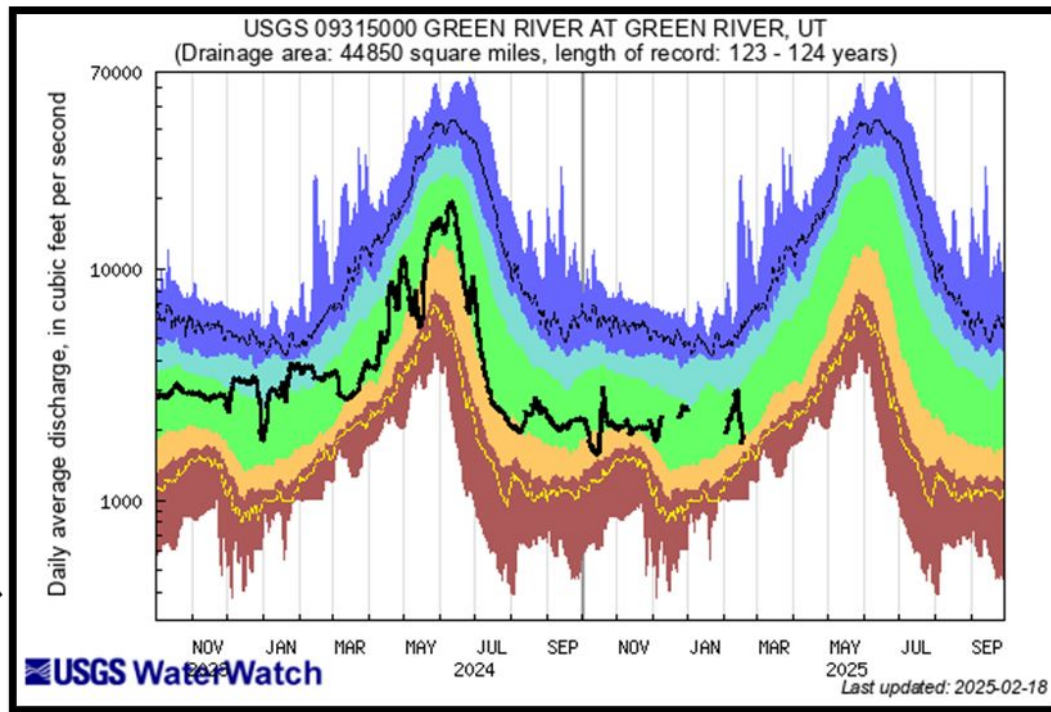
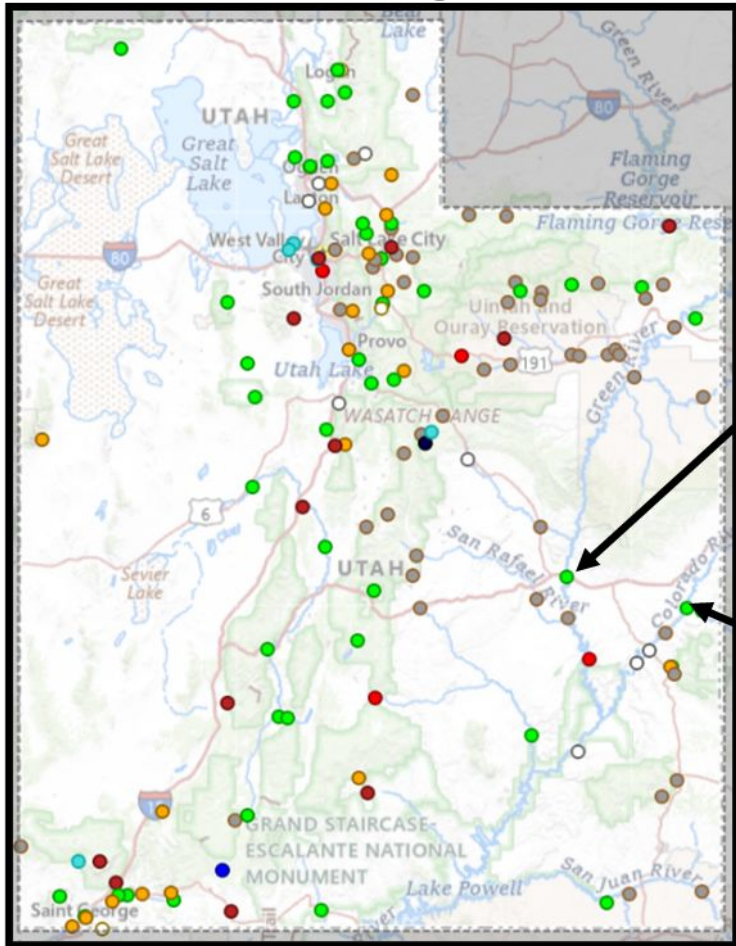
Day-of-Year Status	Feb. 3	Feb. 18
All-time high for this day-of-year	2.0%	0.7%
Much above normal for this day-of-year	2.7%	0.7%
Above normal for this day-of-year	6.7% █	3.4% █
Normal for this day-of-year	20.8% █	31.5% █
Below normal for this day-of-year	11.4% █	12.8% █
Much below normal for this day-of-year	5.4% █	8.1% █
All-time low for this day-of-year	1.3%	2.7%
Not ranked - insufficient record	8.7% █	8.1% █
Not ranked - no recent measurement	34.9% █	4.0%
Not ranked - no measurement	4.0%	26.2% █
Not ranked - stream not flowing	2.0%	2.0%

Streamflow: Status

- 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

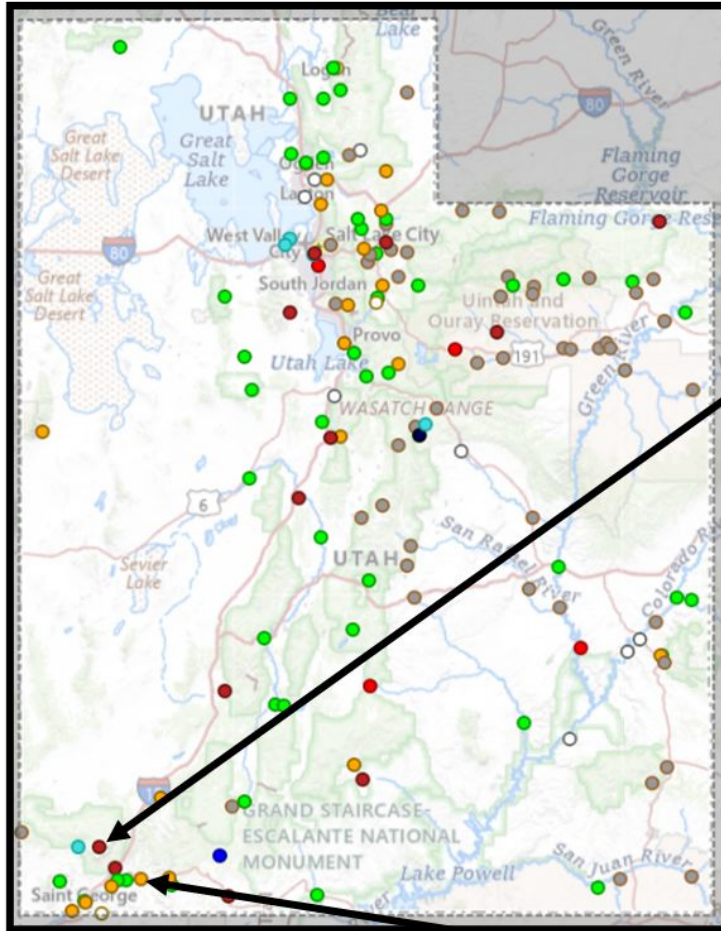


Streamflow at Selected Gages

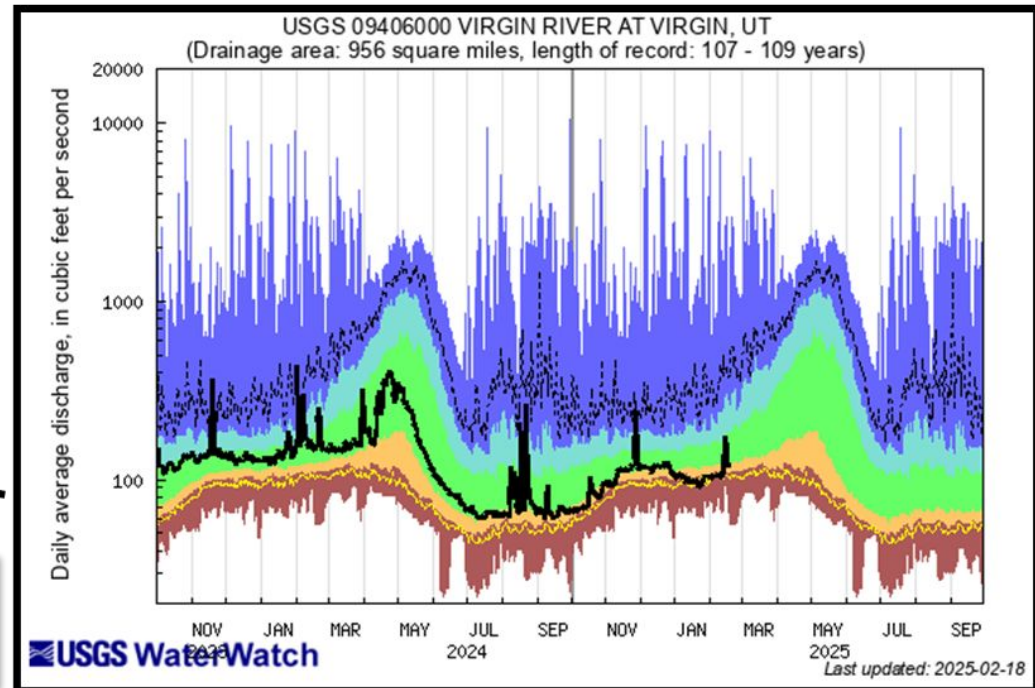
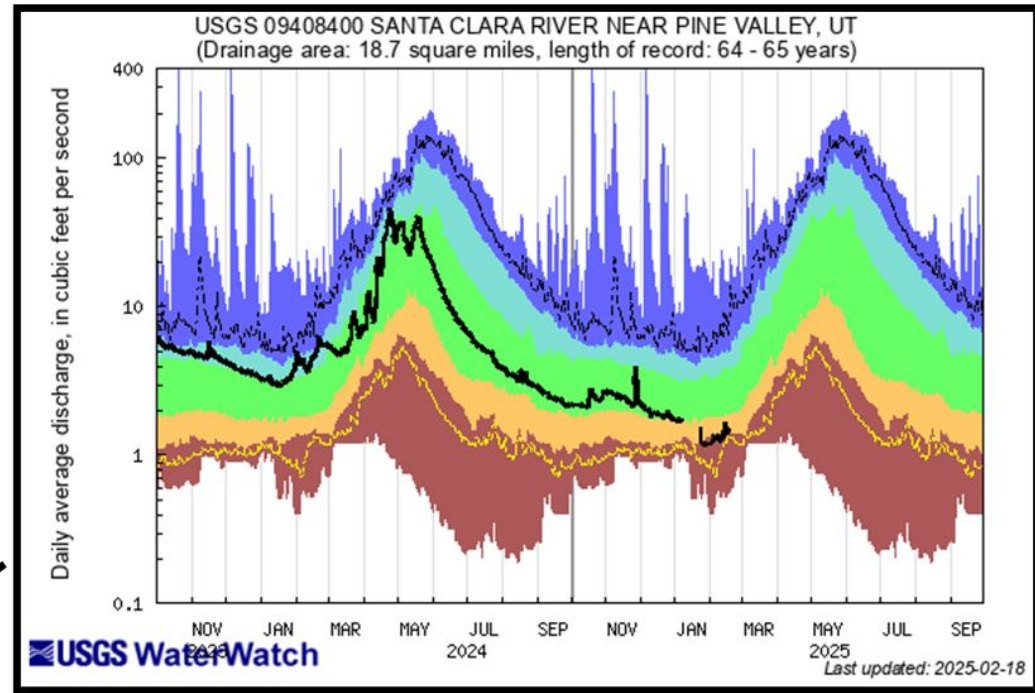


Explanation - Percentile classes					
lowest-10th percentile	5	10-24	25-75	76-90	95 90th percentile - highest
Much below Normal	Below normal	Normal	Above normal	Much above normal	Flow

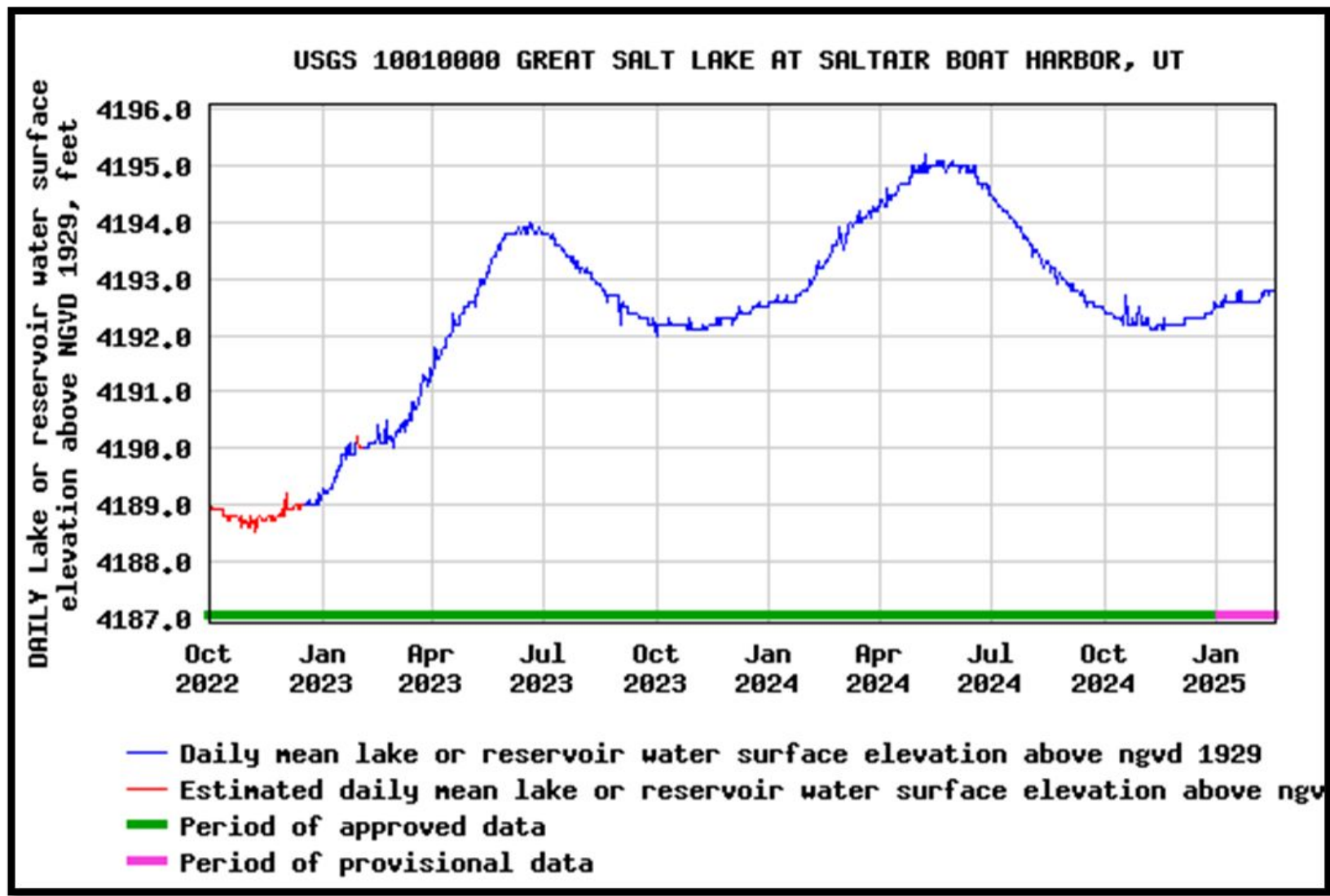
Streamflow at Selected Gages



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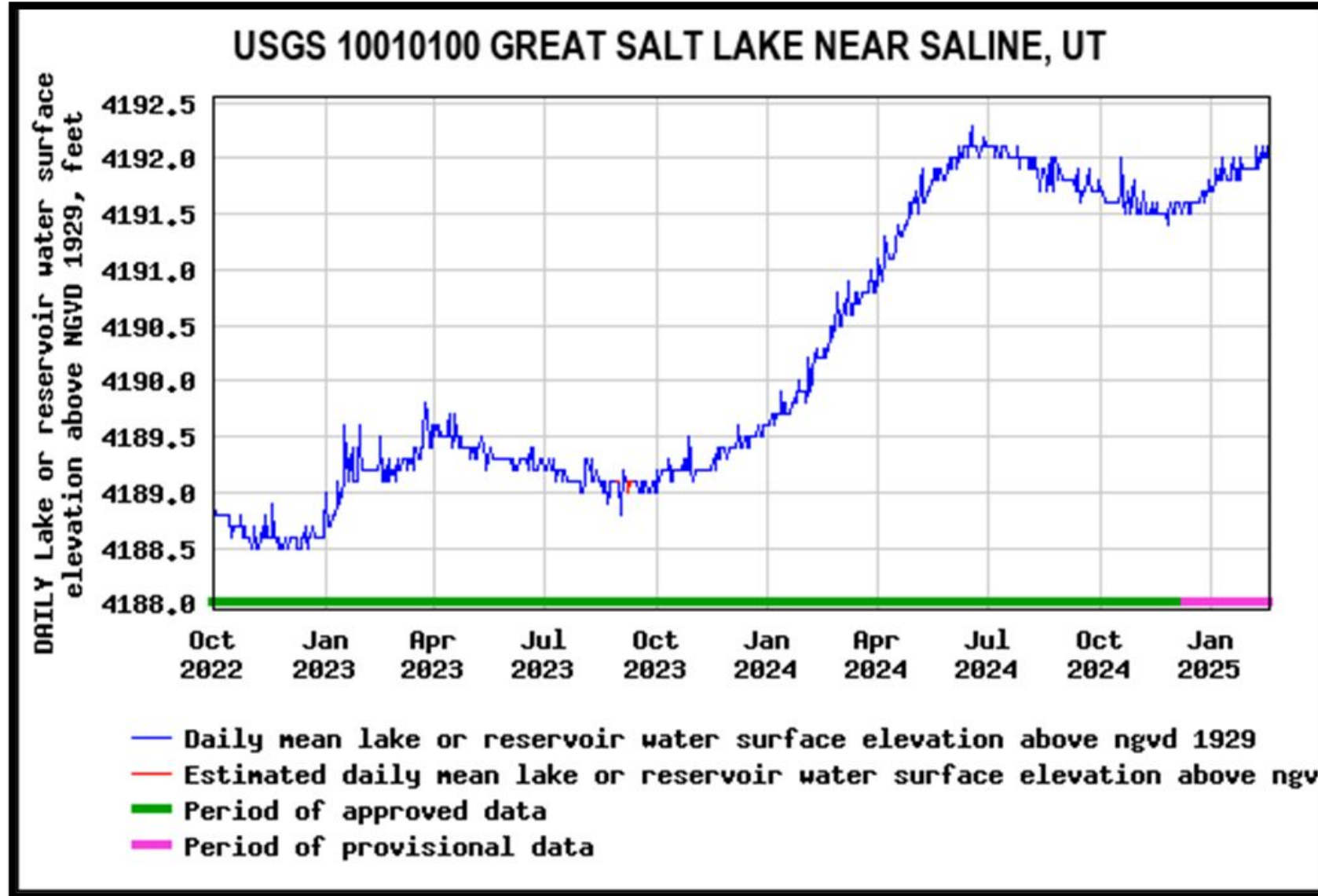


Great Salt Lake Water Surface Elevation – South Arm



- Daily value 2/17/2025 = 4,192.8'
- Daily value 2/2/2025 = 4,192.6'
- Up 0.7' since seasonal low in November 2024

Great Salt Lake Water Surface Elevation – North Arm



- Daily value 2/17/2025 = 4,192.0'
- Daily value 2/2/2025 = 4,191.9'
- Up 0.6' since seasonal low in November 2024

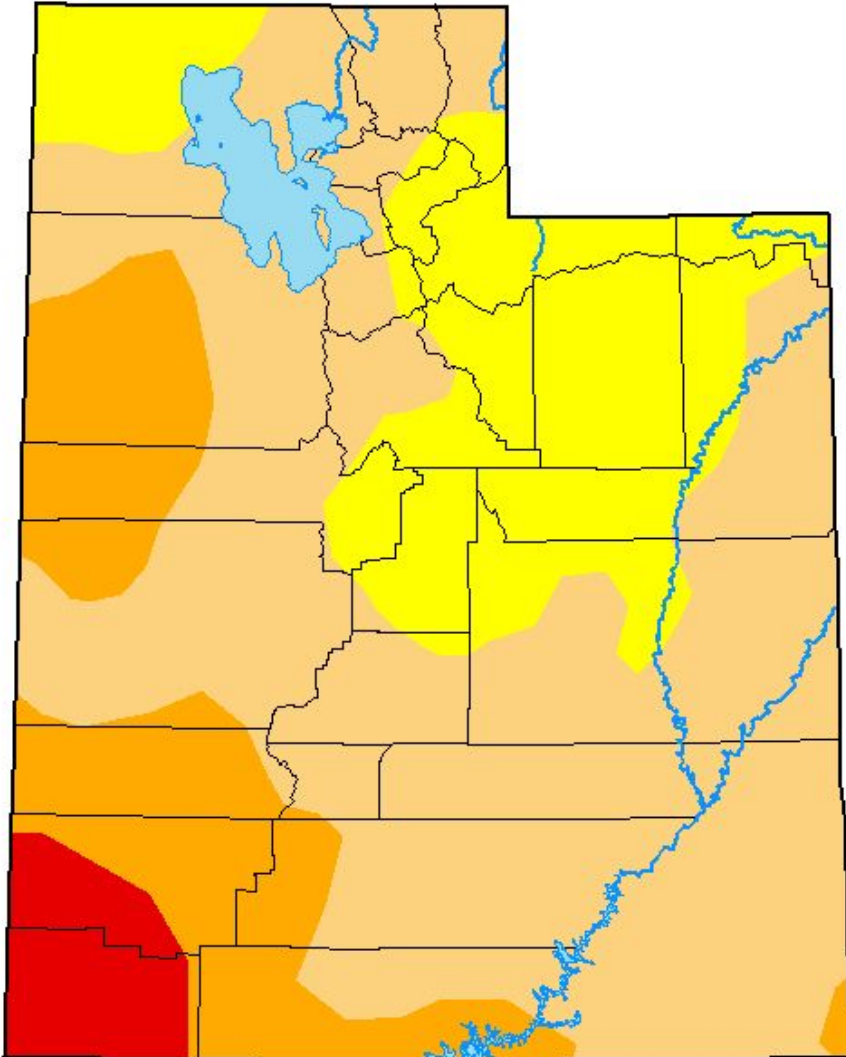
U.S. Drought Monitor

Utah







February 11, 2025

(Released Thursday, Feb. 13, 2025)

Valid 7 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:

Lindsay Johnson
National Drought Mitigation Center

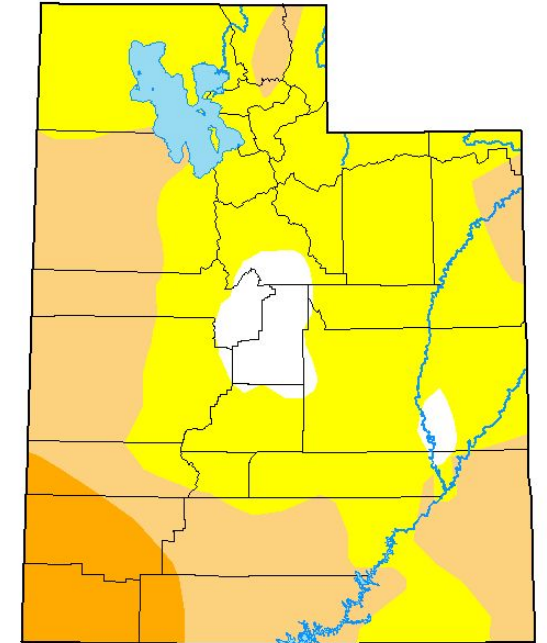


droughtmonitor.unl.edu

January 28, 2025

(Released Thursday, Jan. 30, 2025)

Valid 7 a.m. EST



To report on conditions between meetings:

Submit a report on CMOR drought website

Email Lhaskell@utah.gov

email drought@utah.gov