



Utah Water Conditions (drought webinar)

The meeting will begin shortly



Thank you to our contributors

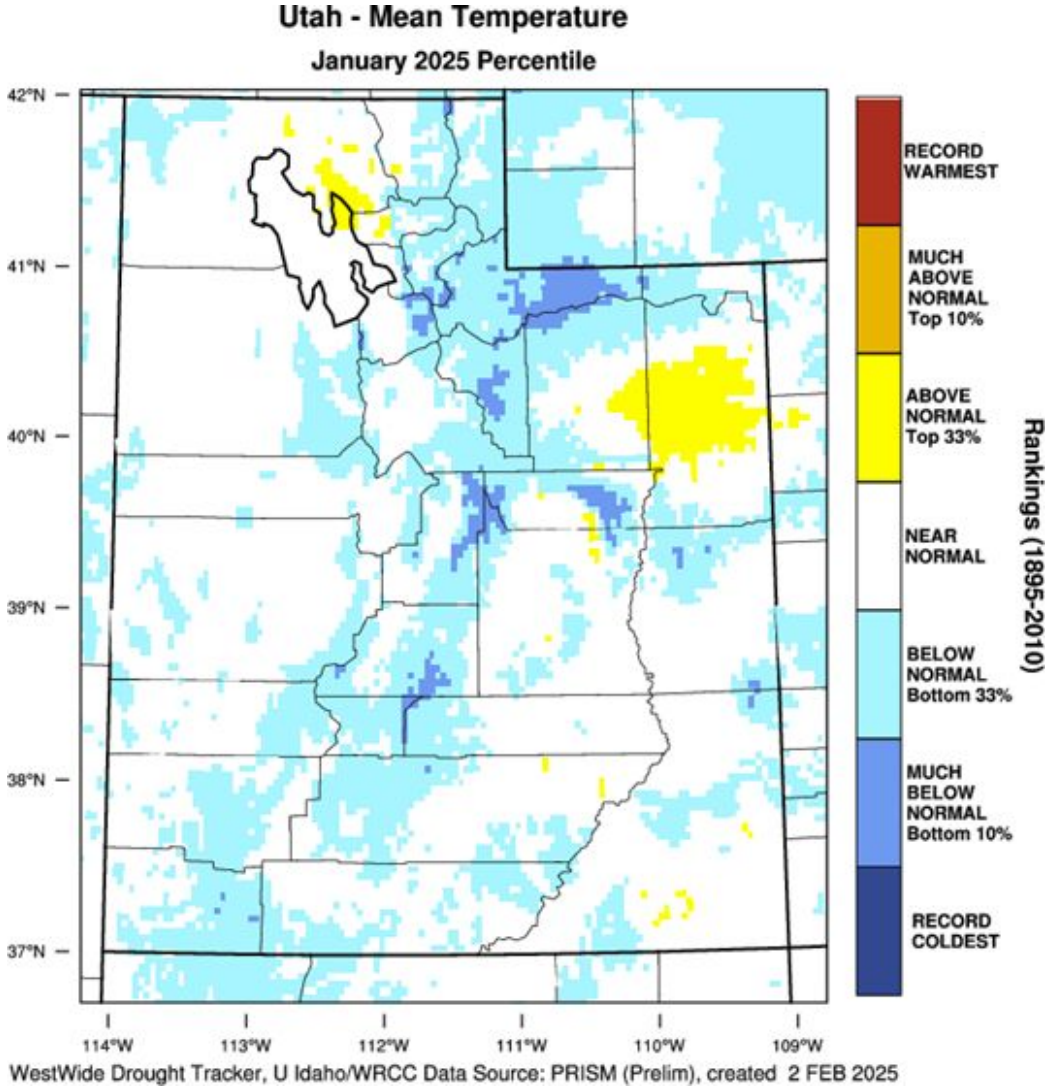




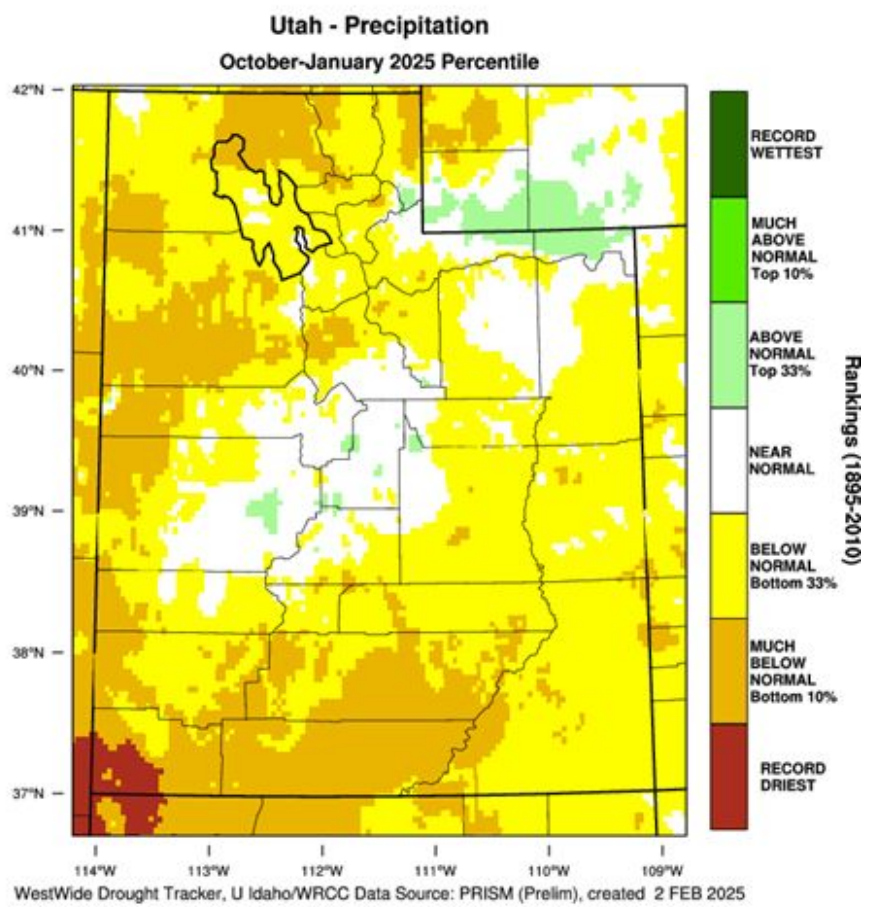
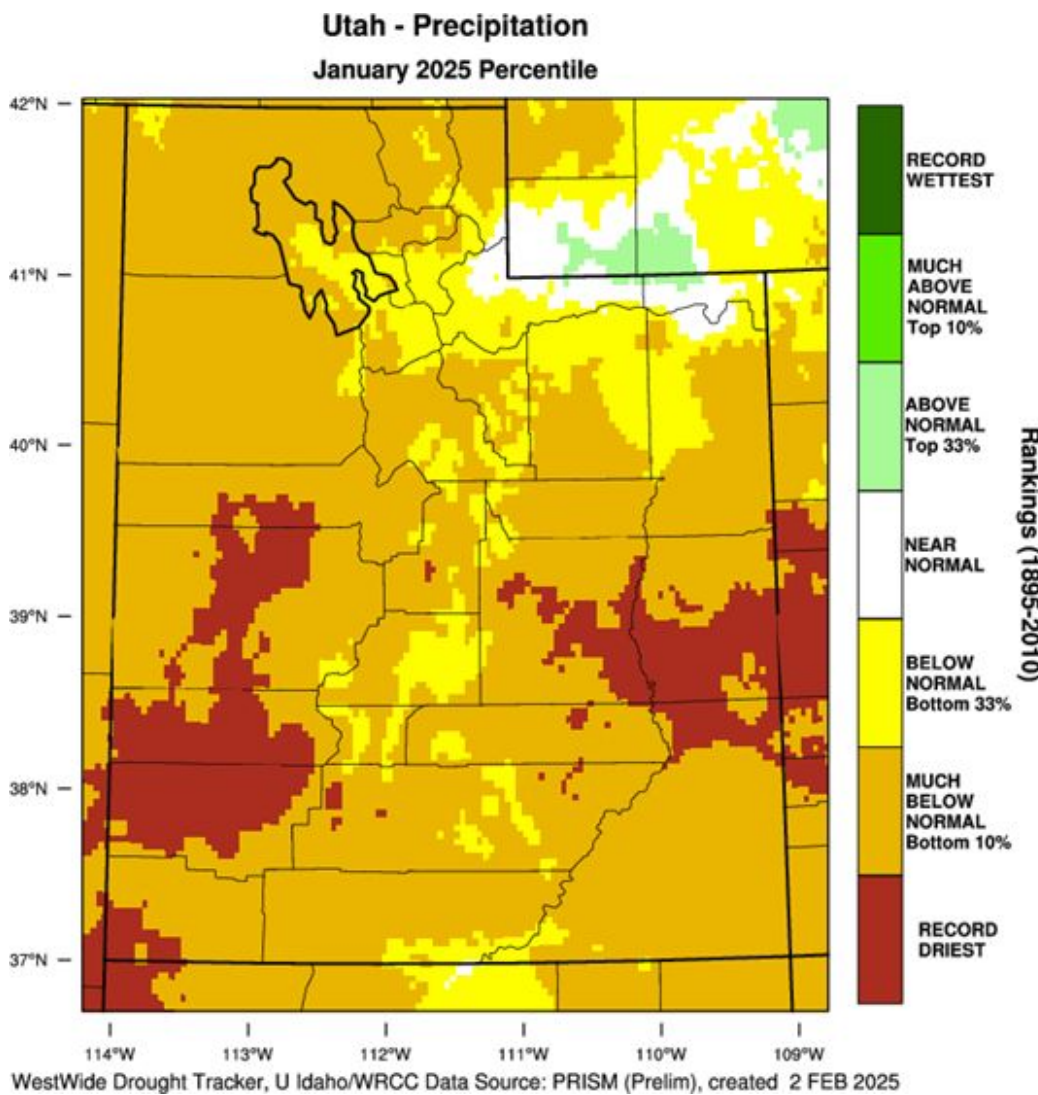
Utah Water Conditions Update

February 4, 2025

January Temperature Review



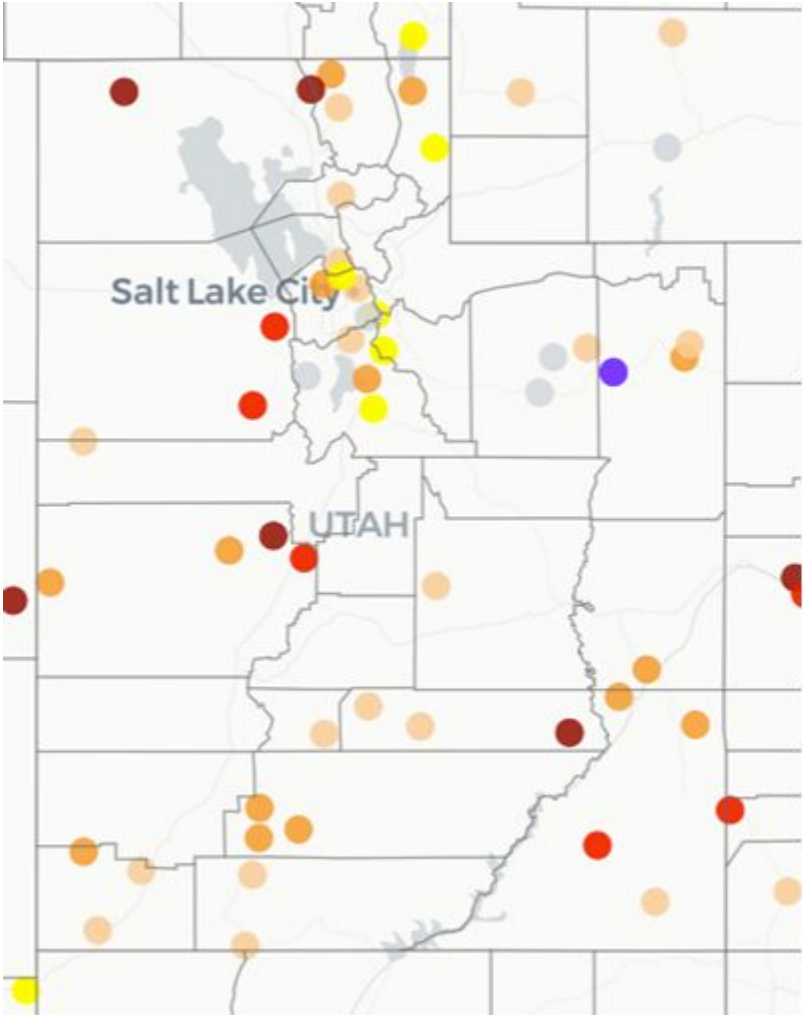
Precipitation Summary



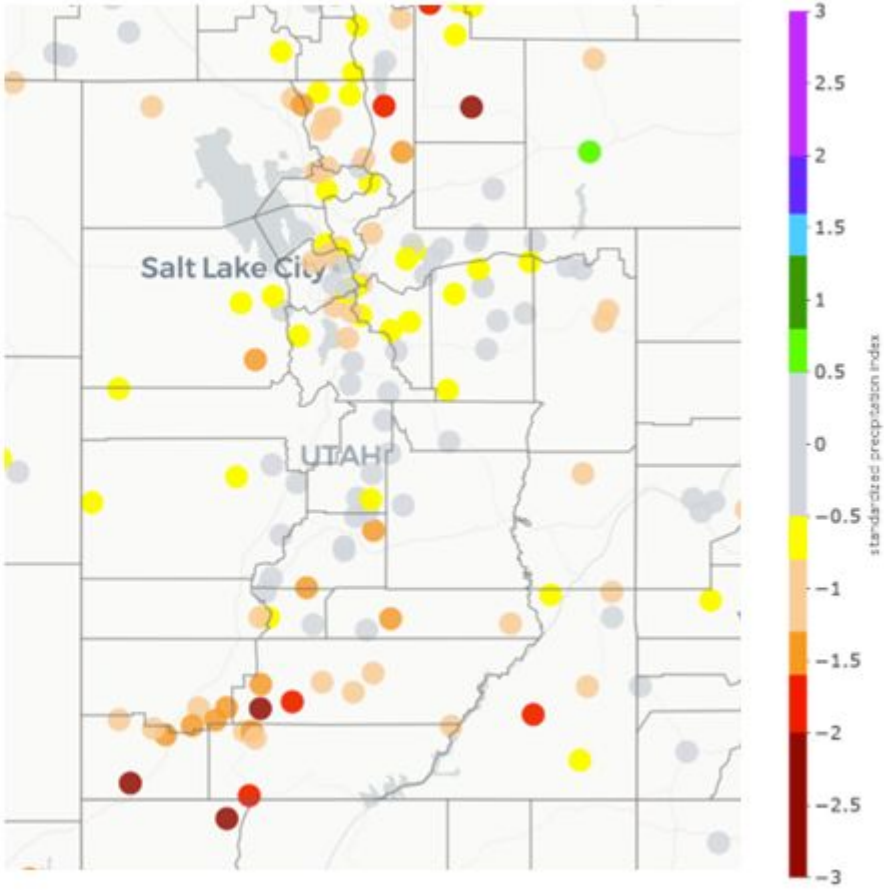
Agency - Utah Climate Center
Presenter - Jon Meyer

Standardized Precipitation Index (SPI)

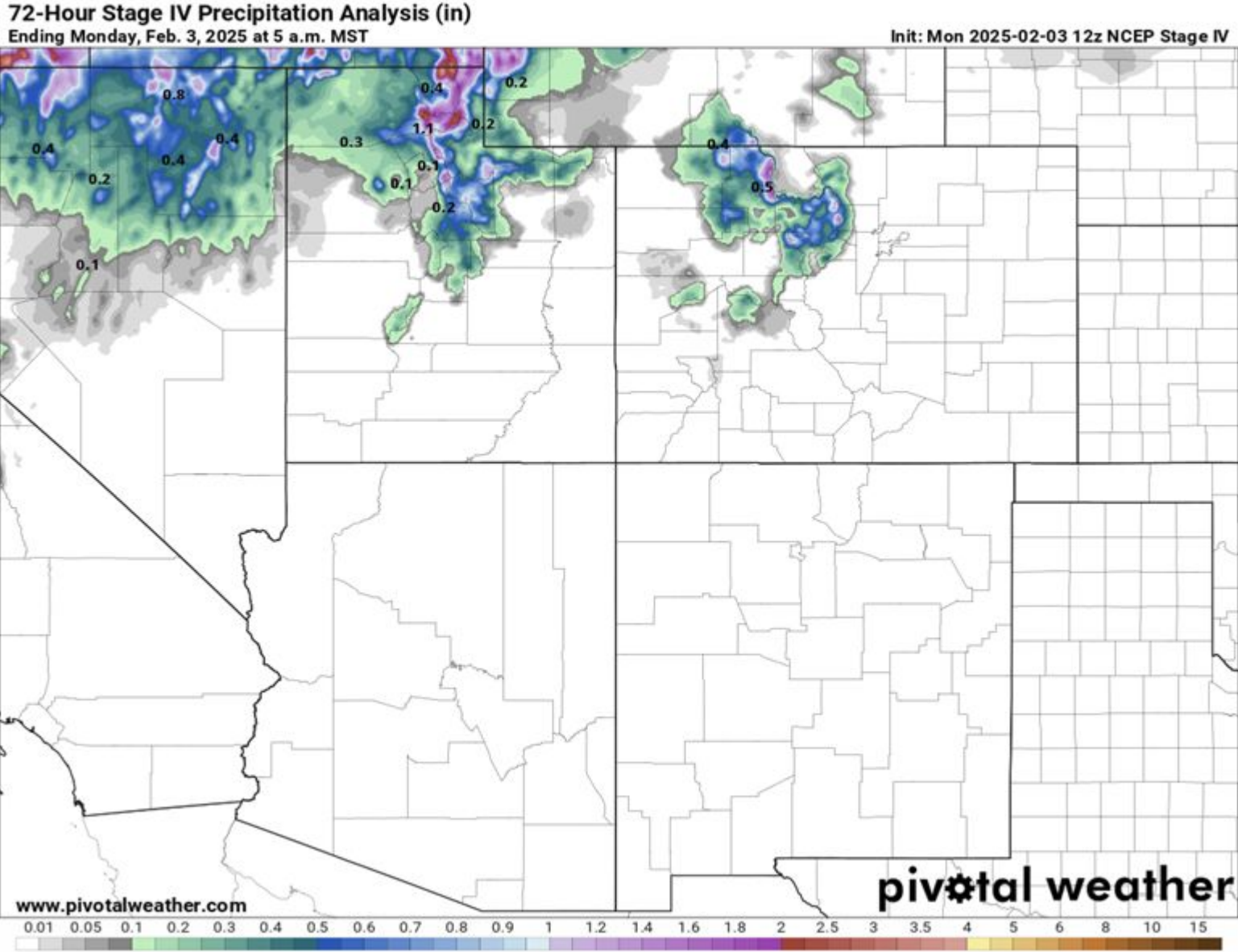
30-day SPI



Water-Year SPI

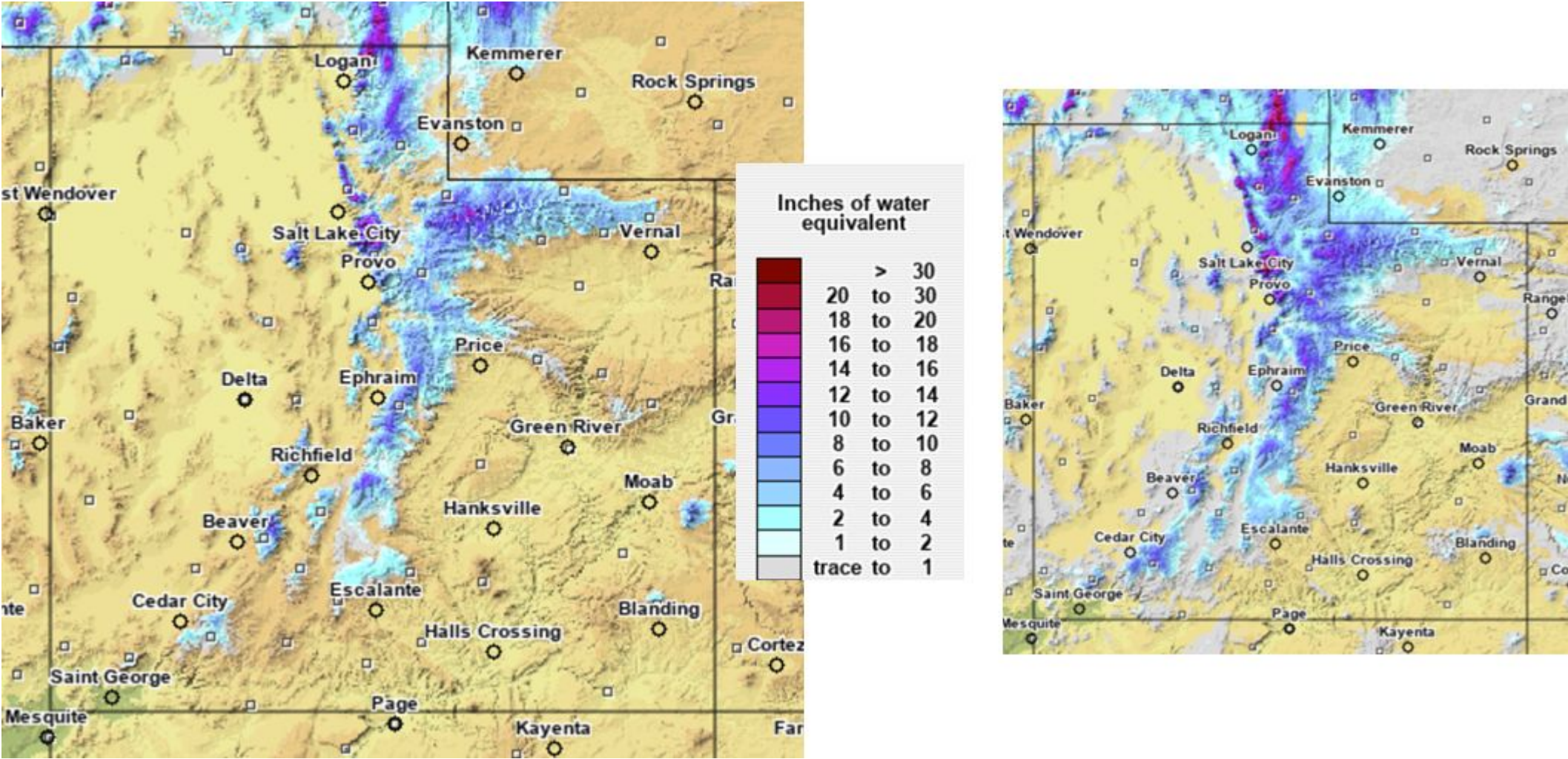


Weekend Storm's Precipitation



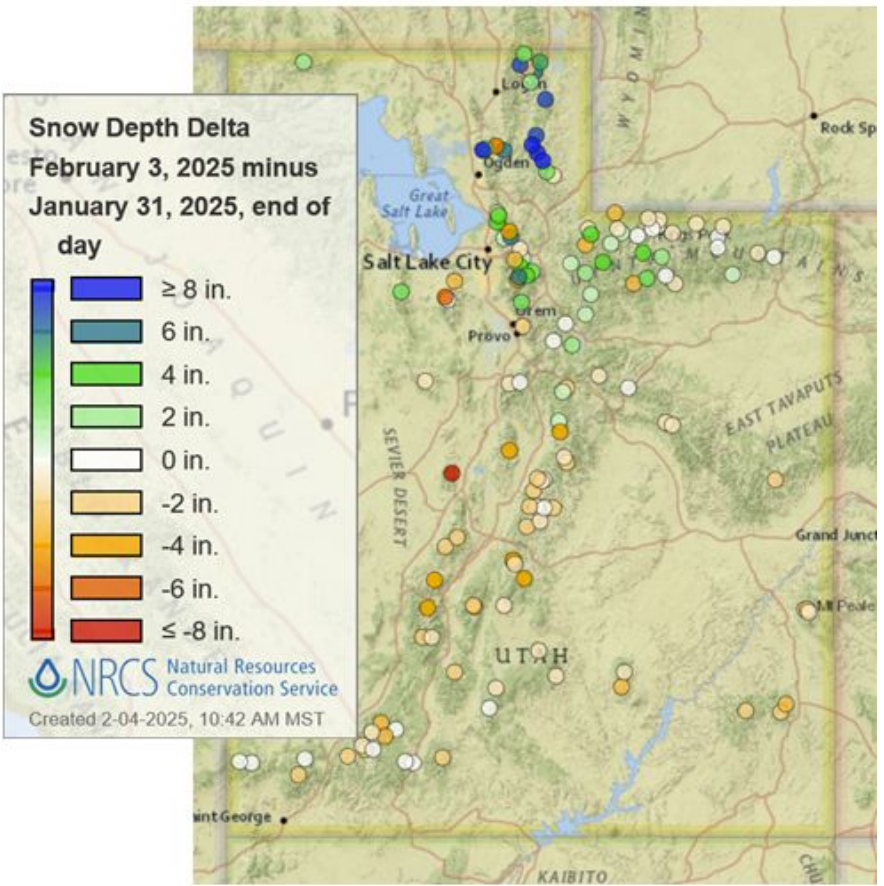
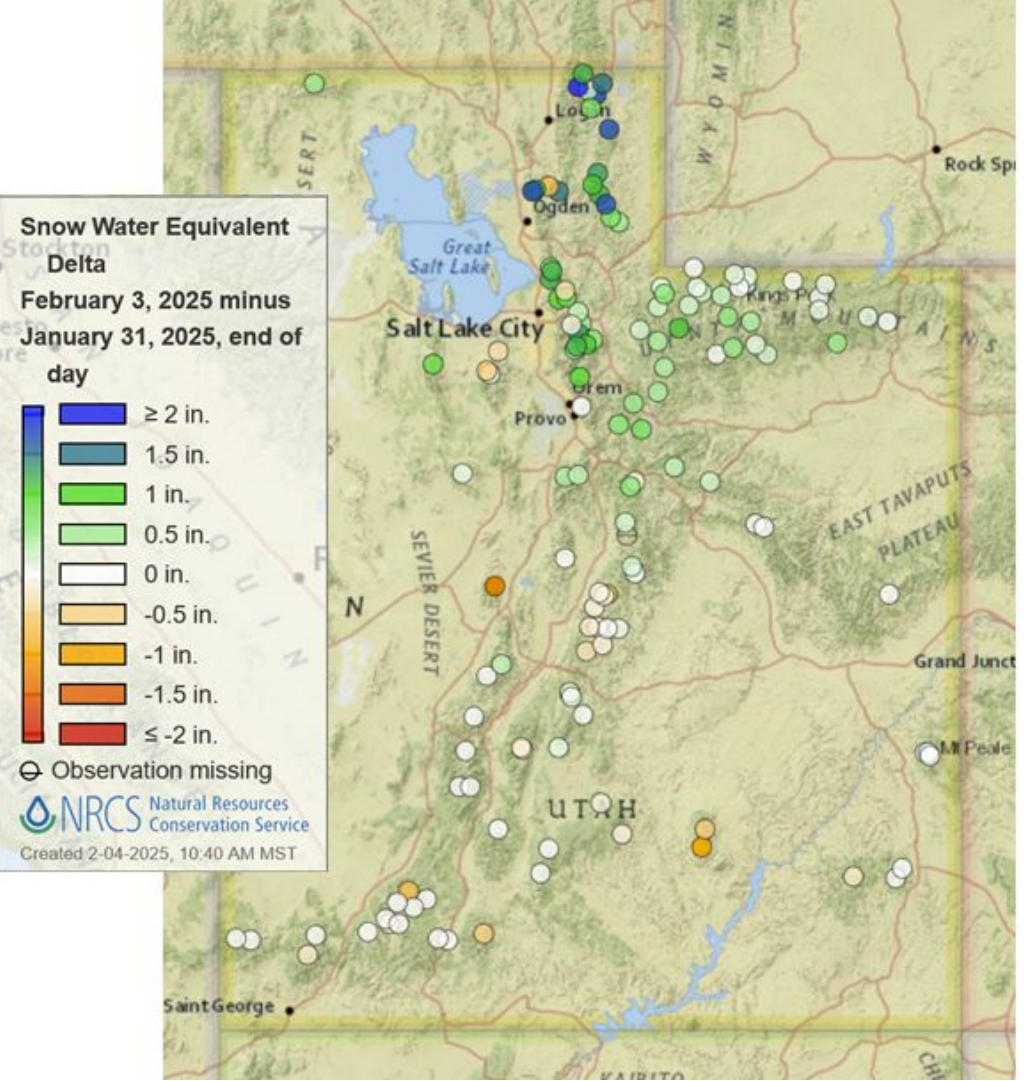
Agency - Utah Climate Center
Presenter - Jon Meyer

Current Snow Cover and Year-over-Year Differences

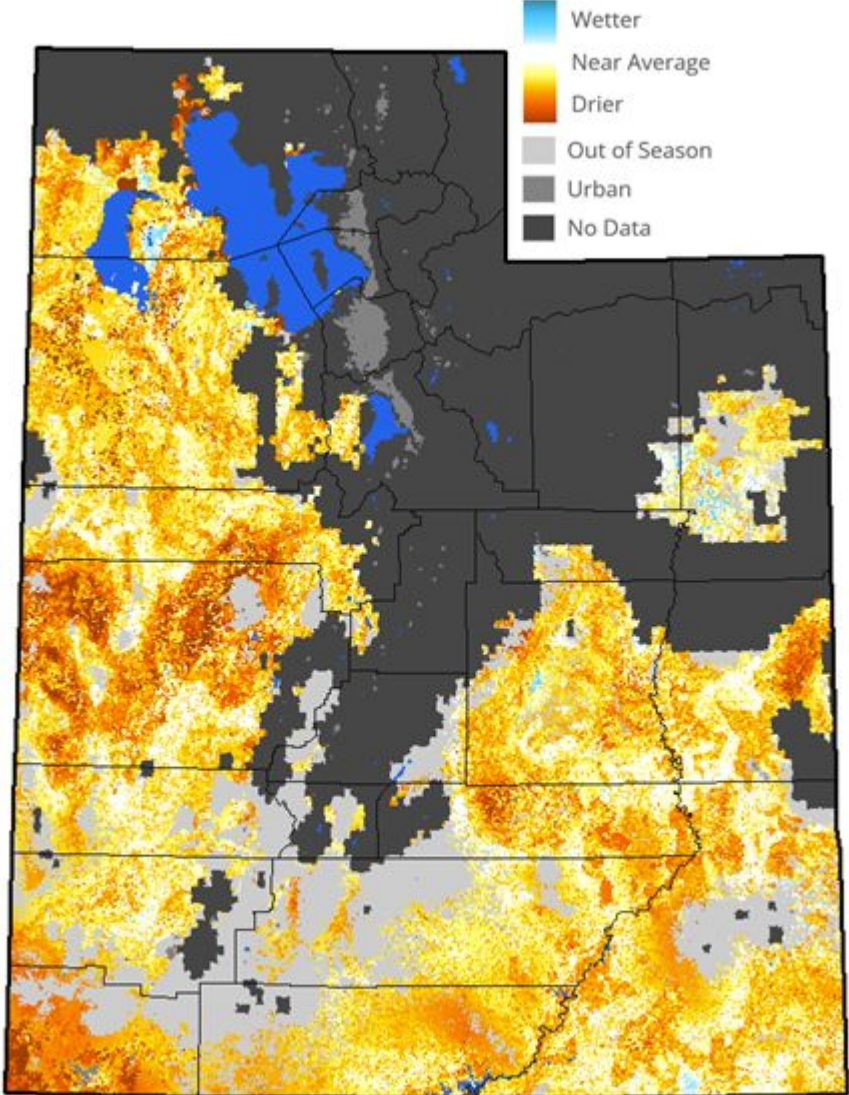


Agency - Utah Climate Center
Presenter - Jon Meyer

Impacts from the Recent Storm on our Snowpack



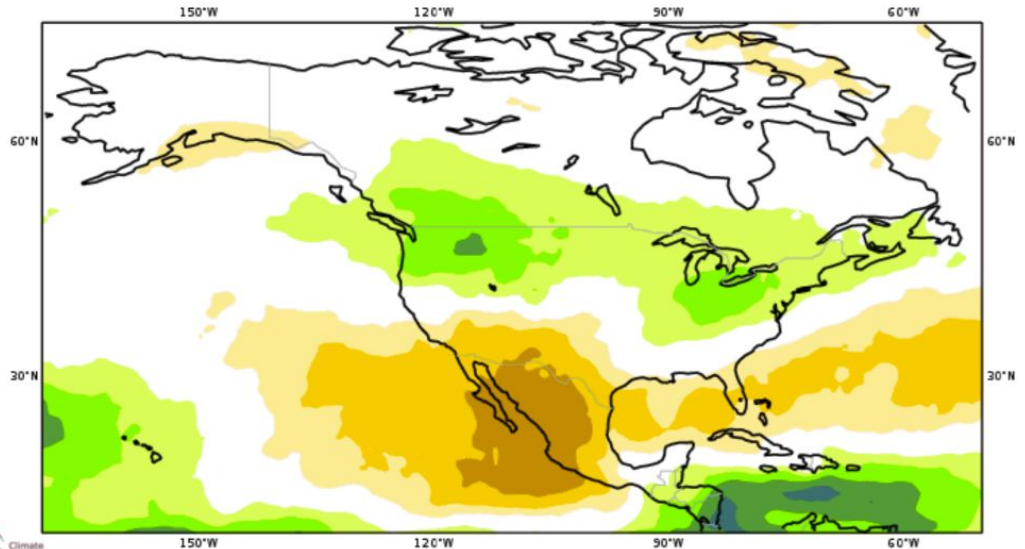
Quick-DRI: Short-term drought pressure



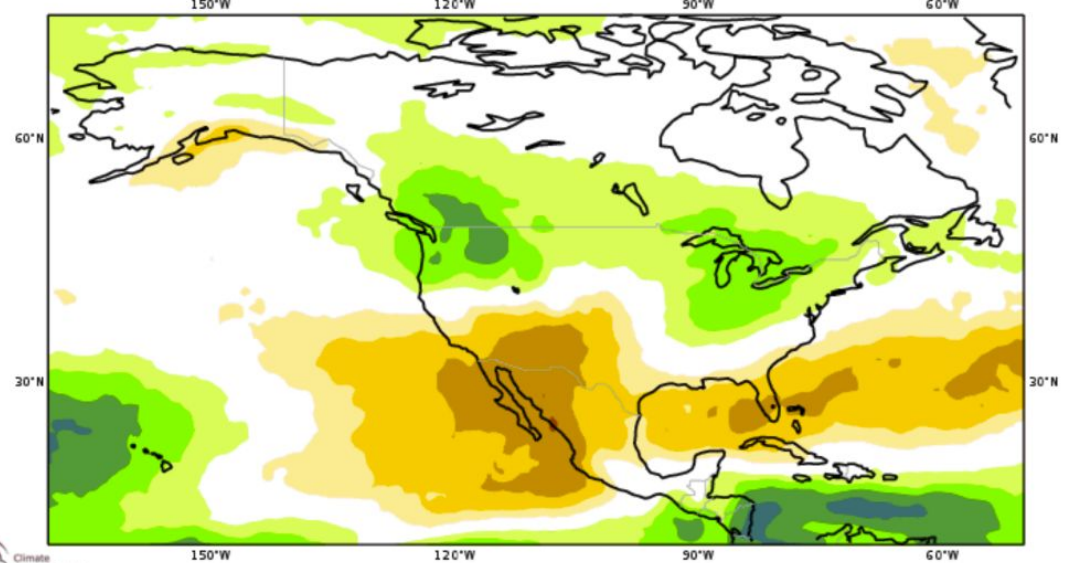
Agency - Utah Climate Center
Presenter - Jon Meyer

Seasonal Prediction: Precipitation above median

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

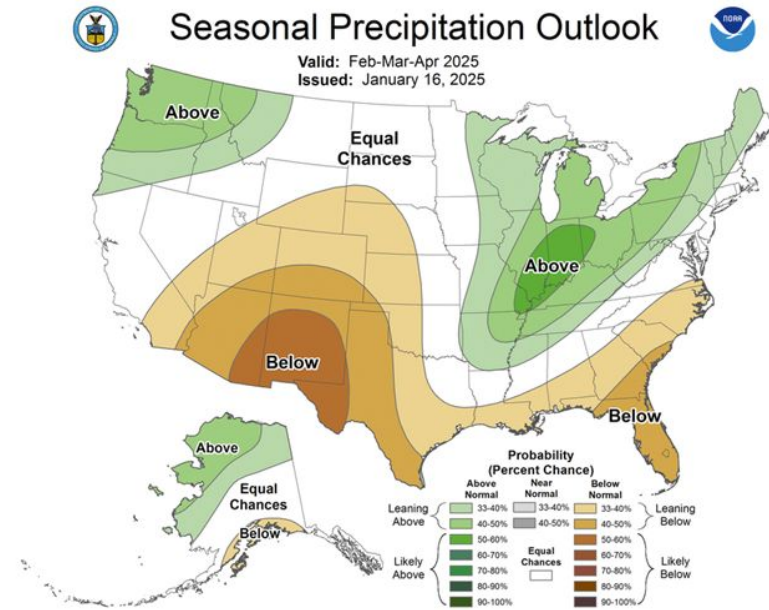
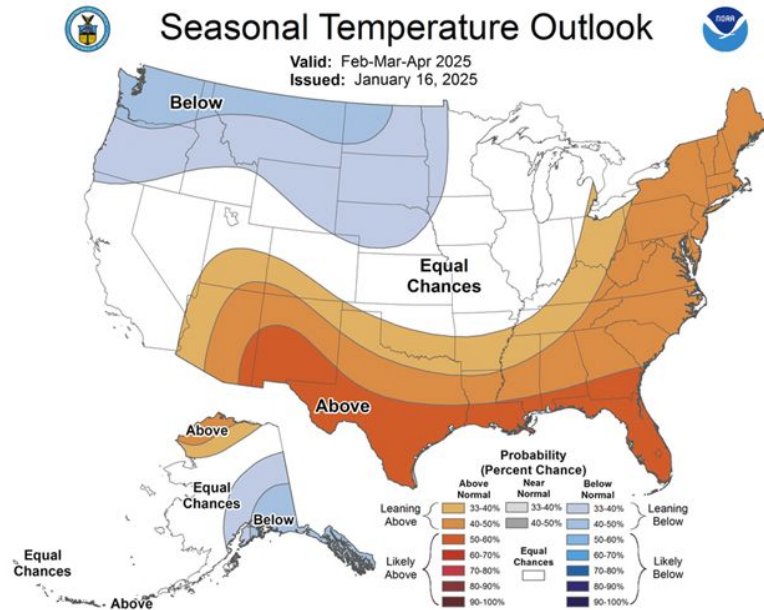
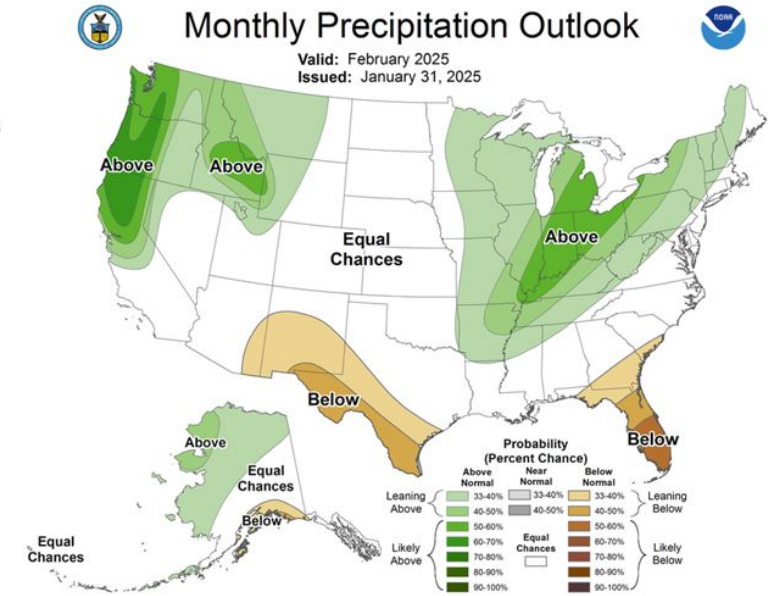
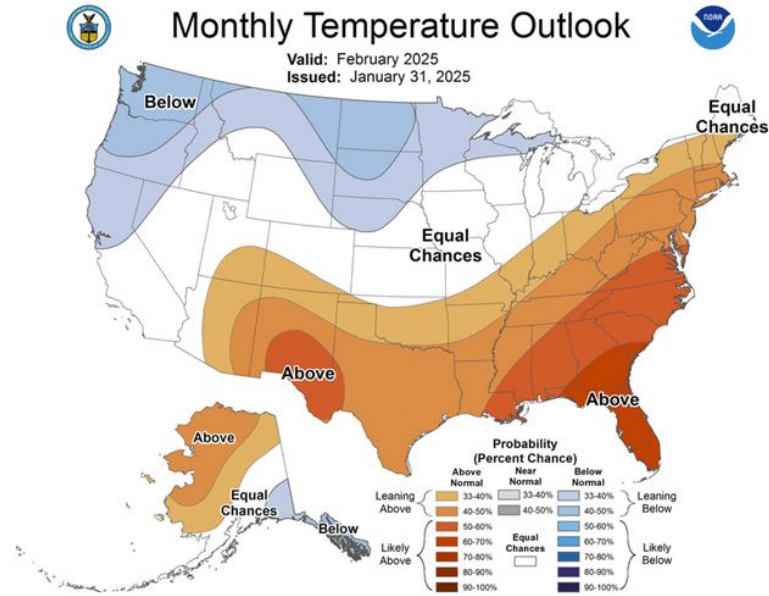


C3S multi-system seasonal forecast ECMWF/Met Office/Météo-France/CMCC/DWD/NCEP/JMA/ECCC
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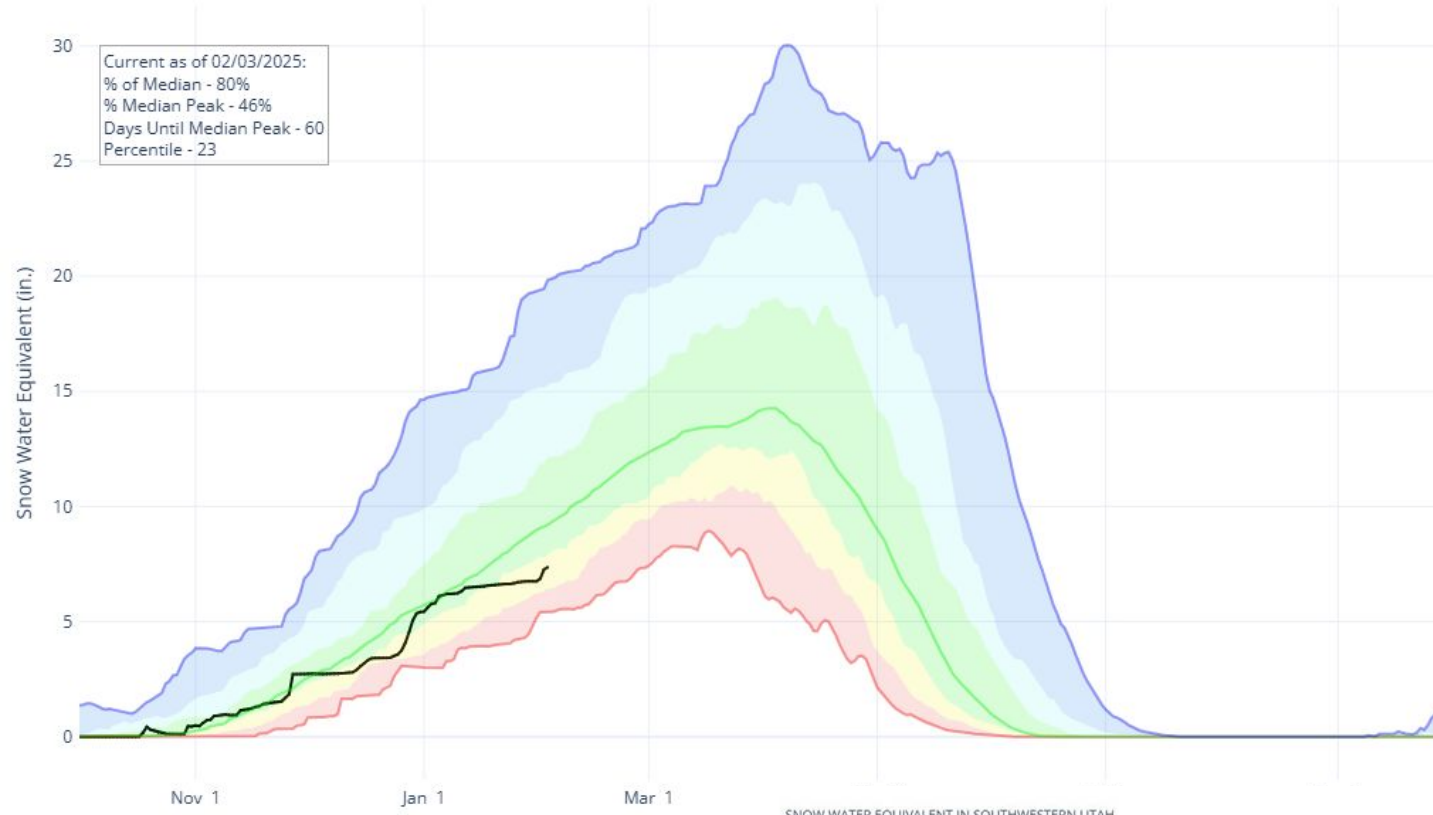


Climate Prediction Center: Monthly and 3-month Outlooks

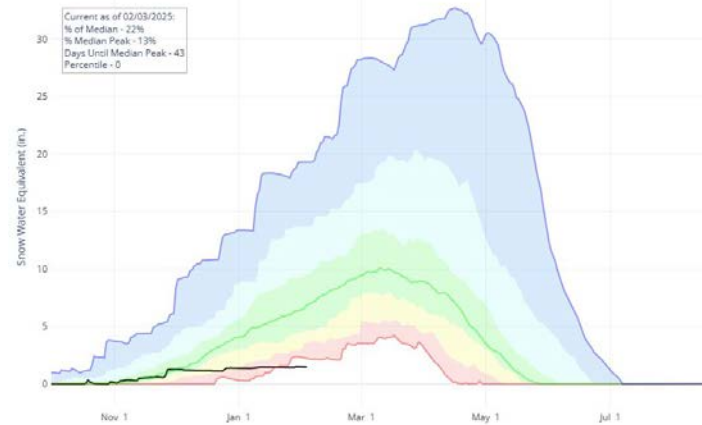
More favorable February weather pattern, but 3-month outlook transitioning into spring months favors ongoing seasonally dry conditions.



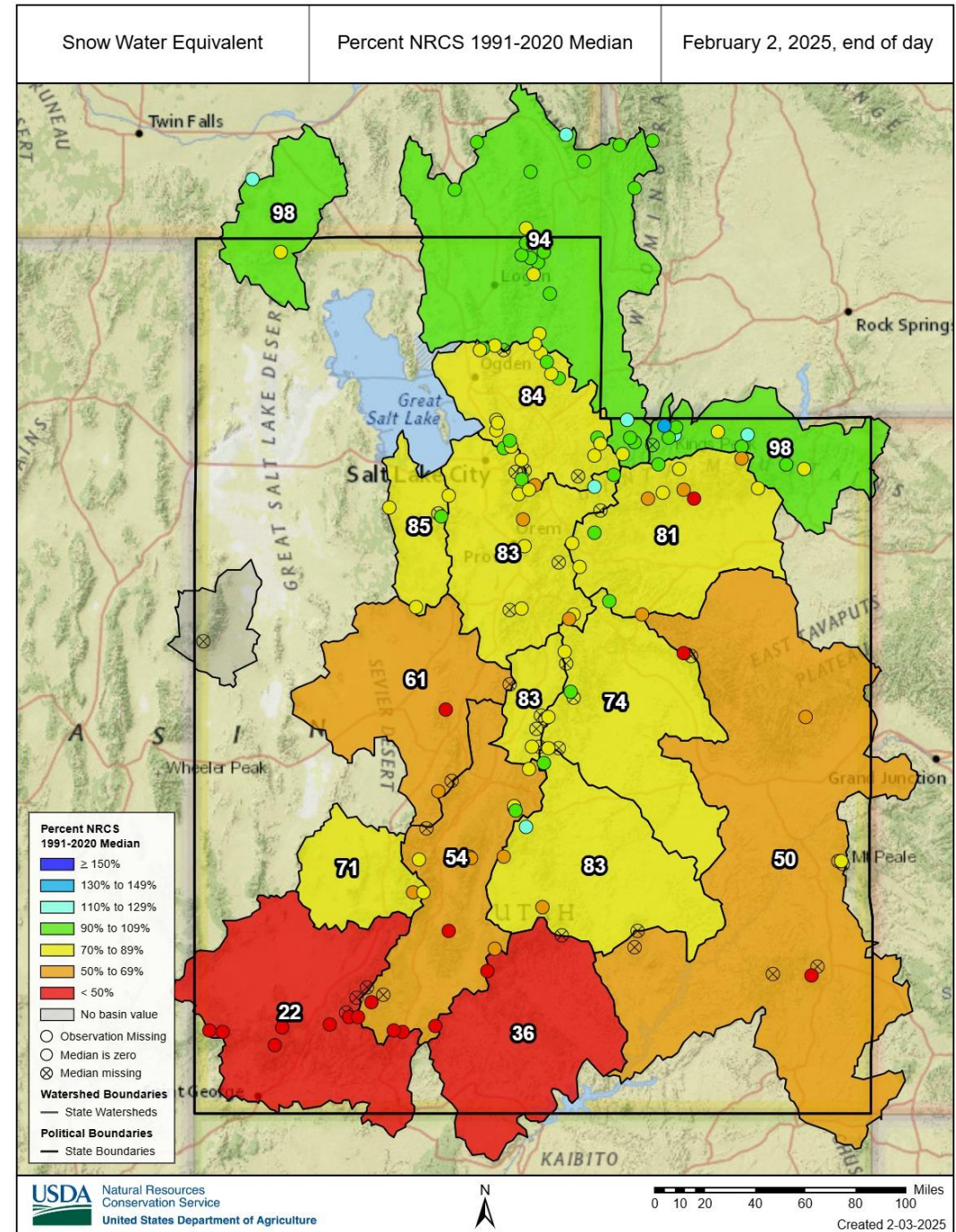
SNOW WATER EQUIVALENT IN STATE OF UTAH



SNOW WATER EQUIVALENT IN SOUTHWESTERN UTAH

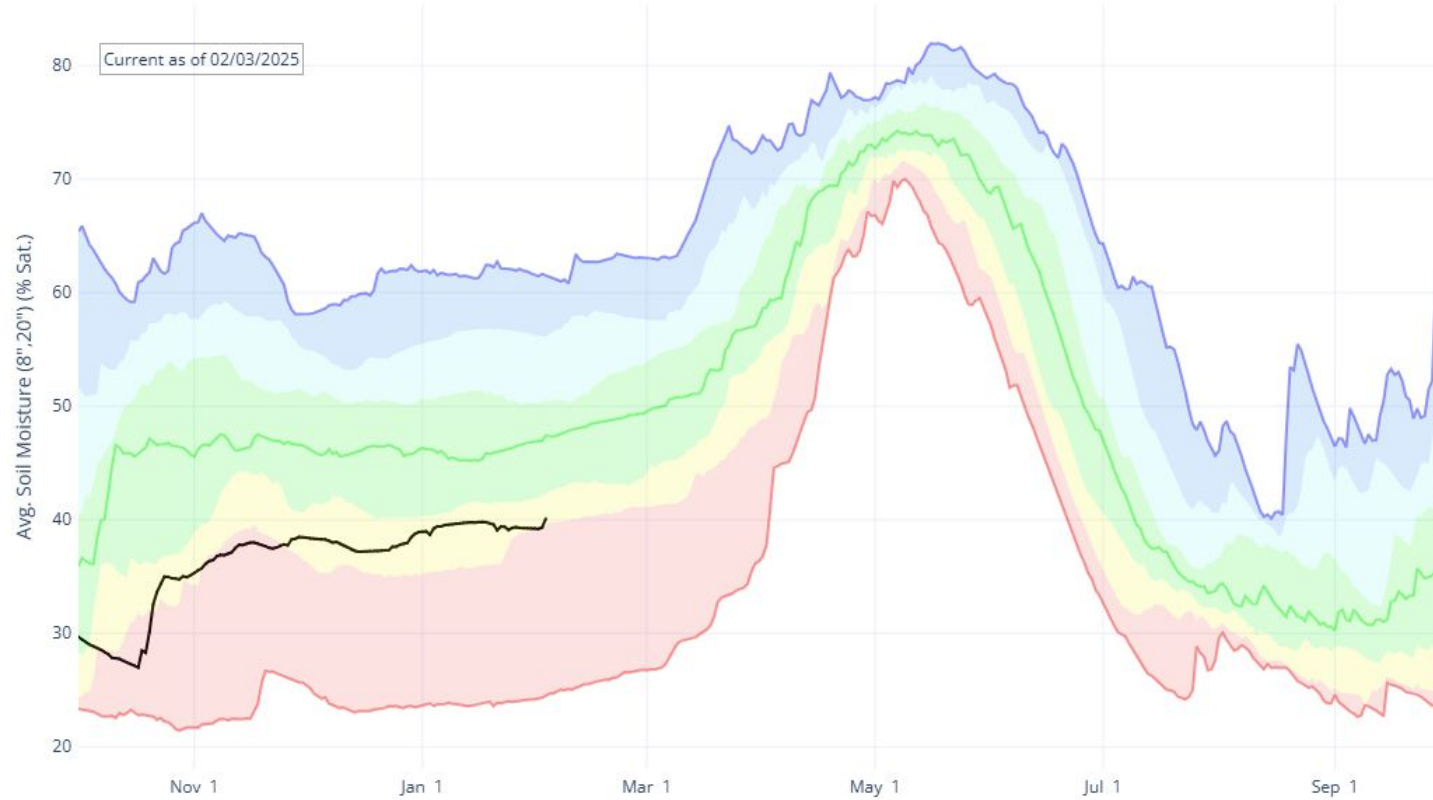


Agency - NRCS Snow Survey
 Presenter - Jordan Clayton

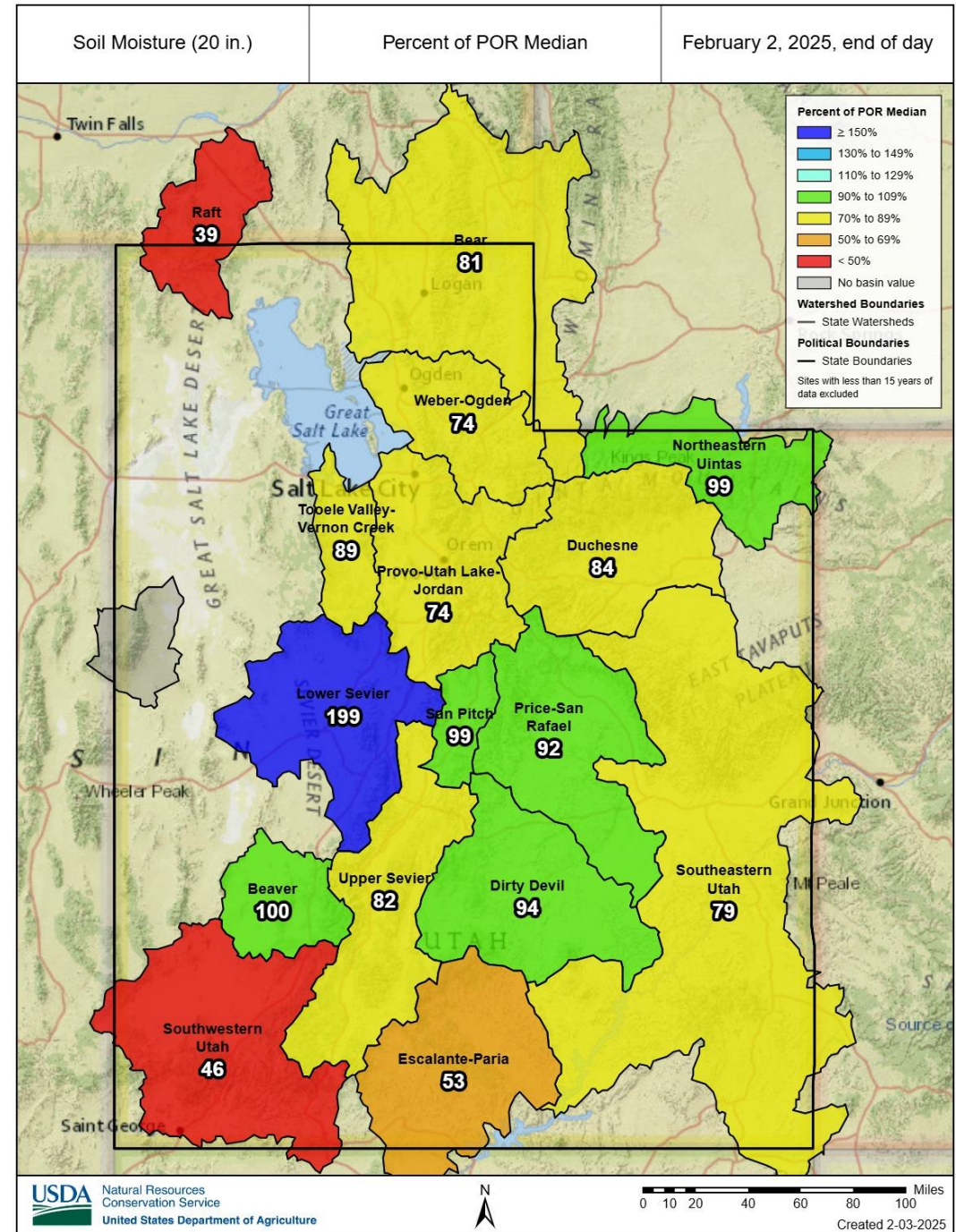


Soil Moisture

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



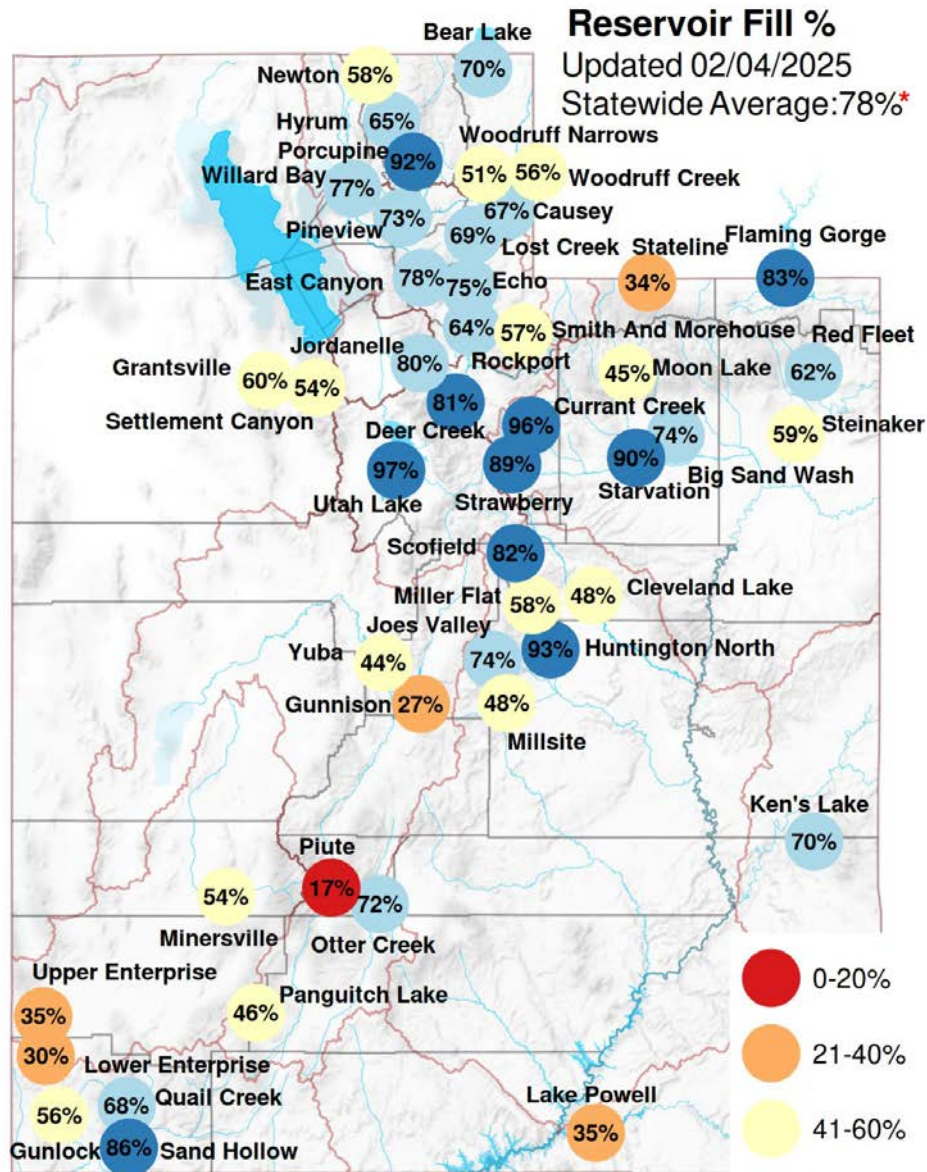
Agency - NRCS Snow Survey
 Presenter - Jordan Clayton



Reservoir Fill %

Updated 02/04/2025

Statewide Average: 78%*



Data Sources: water.utah.gov/reservoirlevels

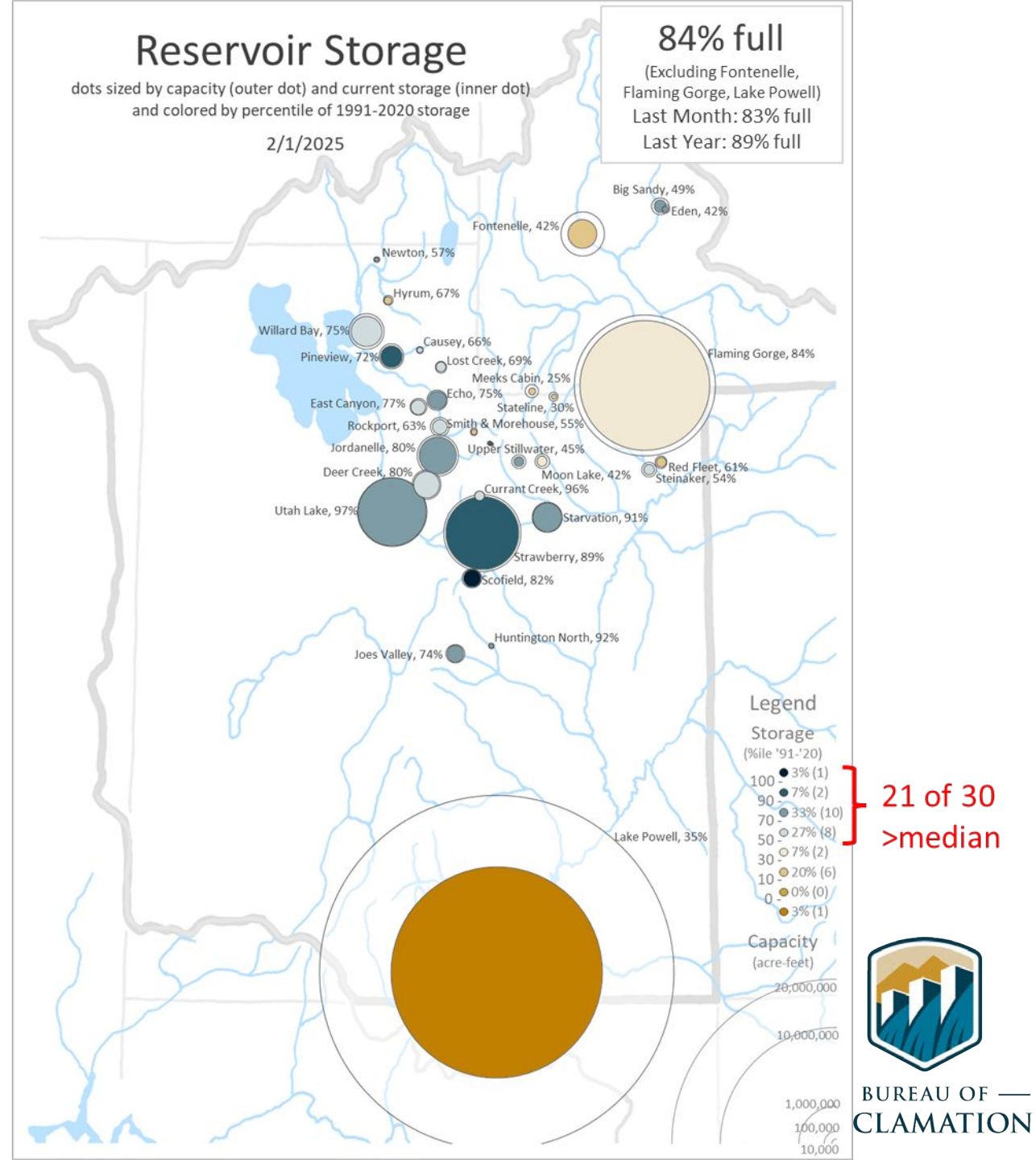
*State average excludes Lake Powell & Flaming Gorge to better represent the state's water supply.

Total capacity including these is 48%

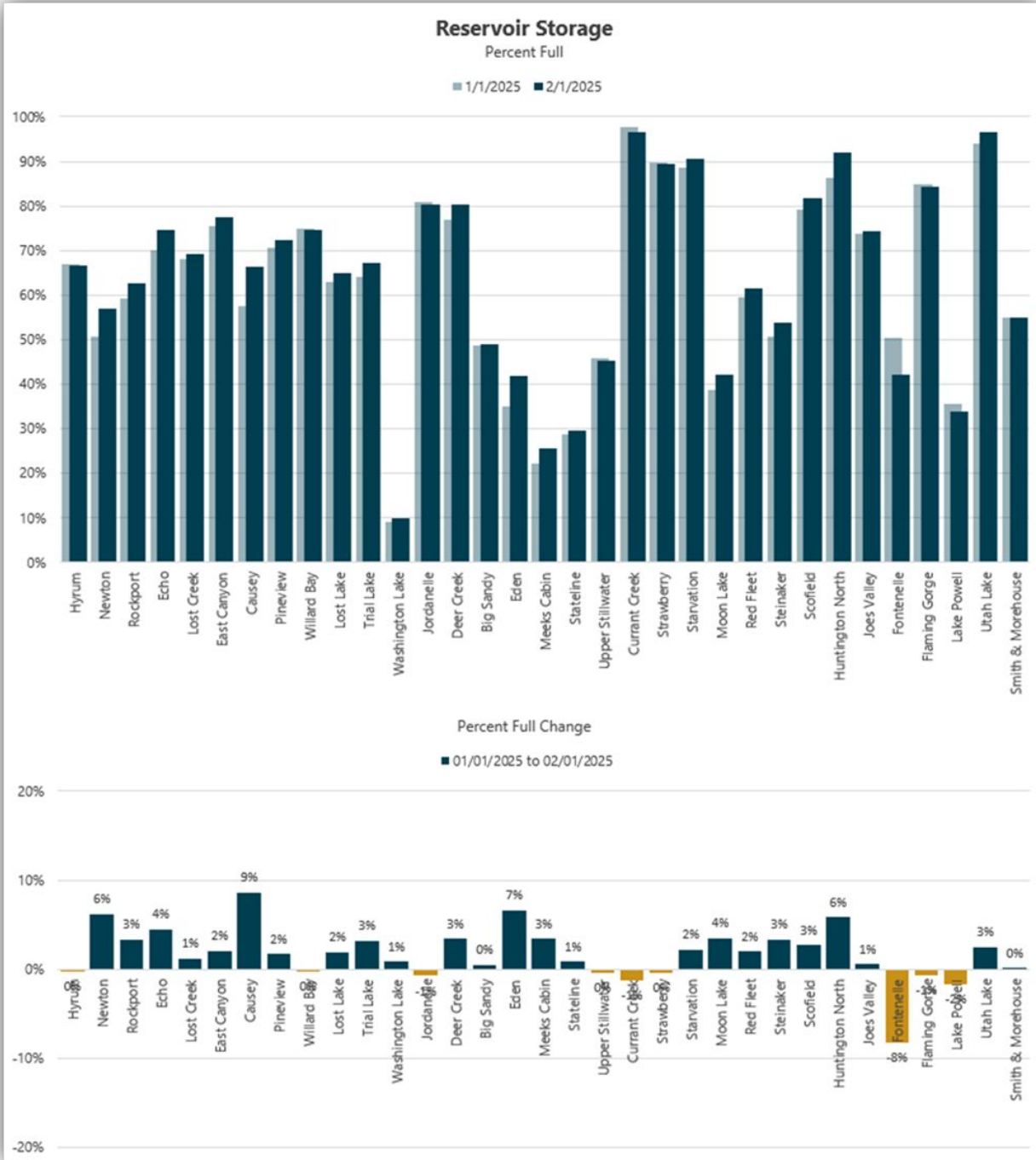


Reservoir Levels

- **Overall reservoir storage is at 84% full**
(Excluding Powell, Flaming Gorge, Fontenelle)
 - up ~1.1% since Jan 1 (83%)
 - ~14% higher than the 22-year average (~70%)
 - down ~5% from last year (~89%)
- **Individual reservoirs range from 25-91% 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
 - storage will generally gradually increase
 - no significant changes until closer to spring
 - still a bit early to forecast which reservoirs will fill



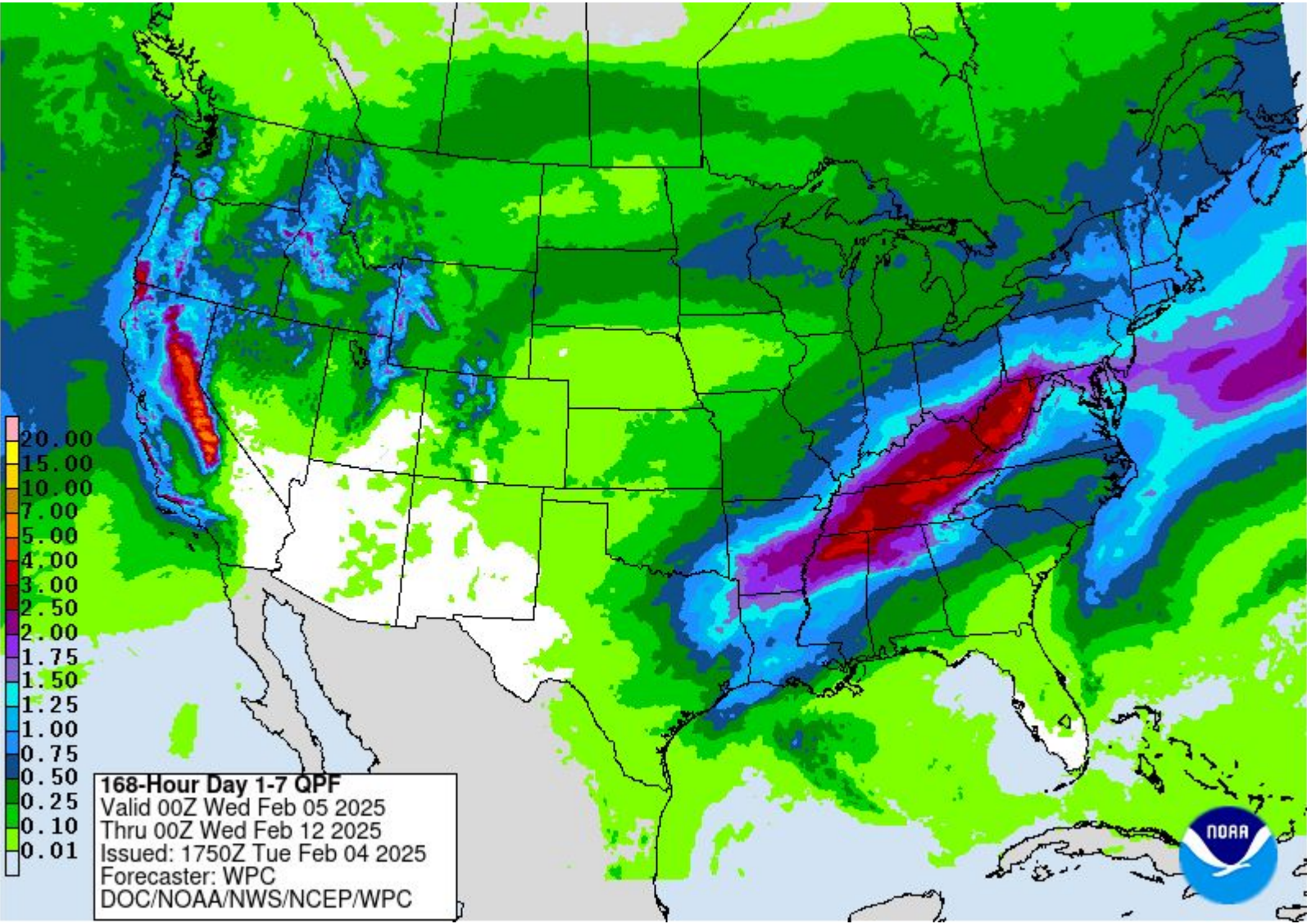
Reservoir Levels



Agency - BOR
Presenter - Gary Henrie

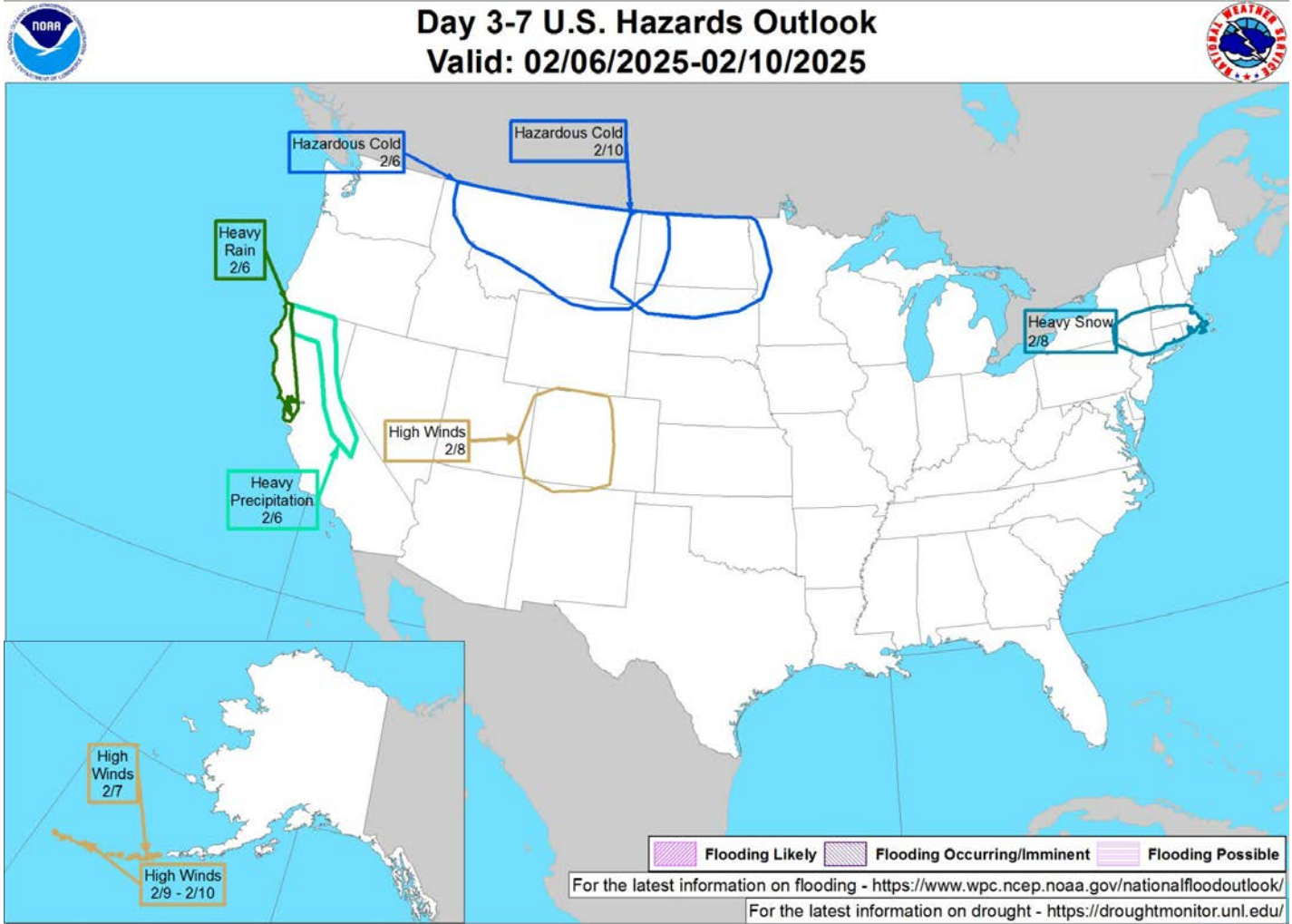


Weather Forecast Office Utah Day 1-7 Outlook



Agency - National Weather Service Weather Forecast Office
Presenter - Christine Kruse

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



Weather Prediction Center
Made: 02/03/2025 02:34 PM EST

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Agency - National Weather Service Weather Forecast Office
Presenter - Christine Kruse

Climate Prediction Center 8 to 14 Day Outlooks - Temperature

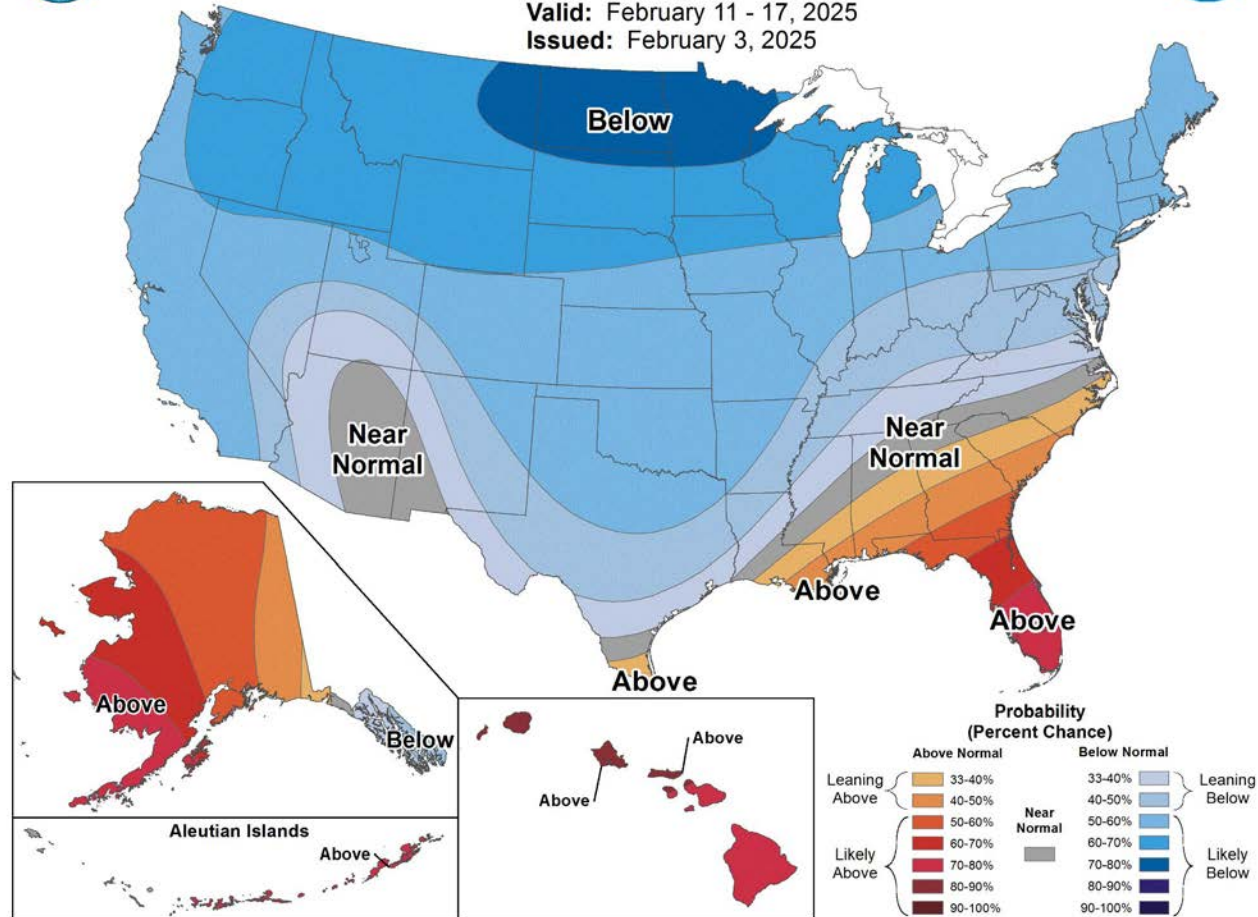


8-14 Day Temperature Outlook



Valid: February 11 - 17, 2025

Issued: February 3, 2025



Agency - National Weather Service Weather Forecast Office

Presenter - Christine Kruse

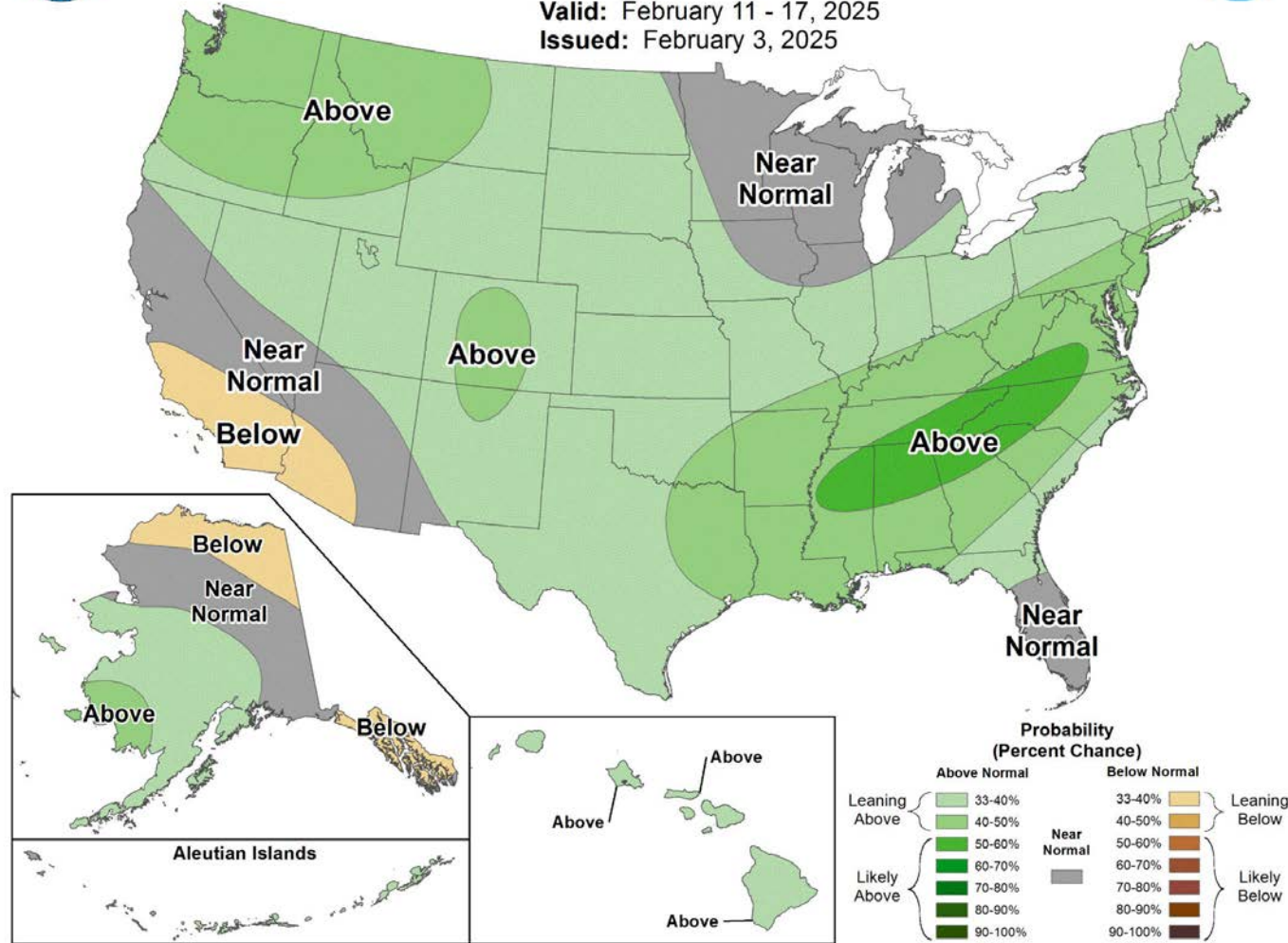
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



8-14 Day Precipitation Outlook



Valid: February 11 - 17, 2025
Issued: February 3, 2025



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

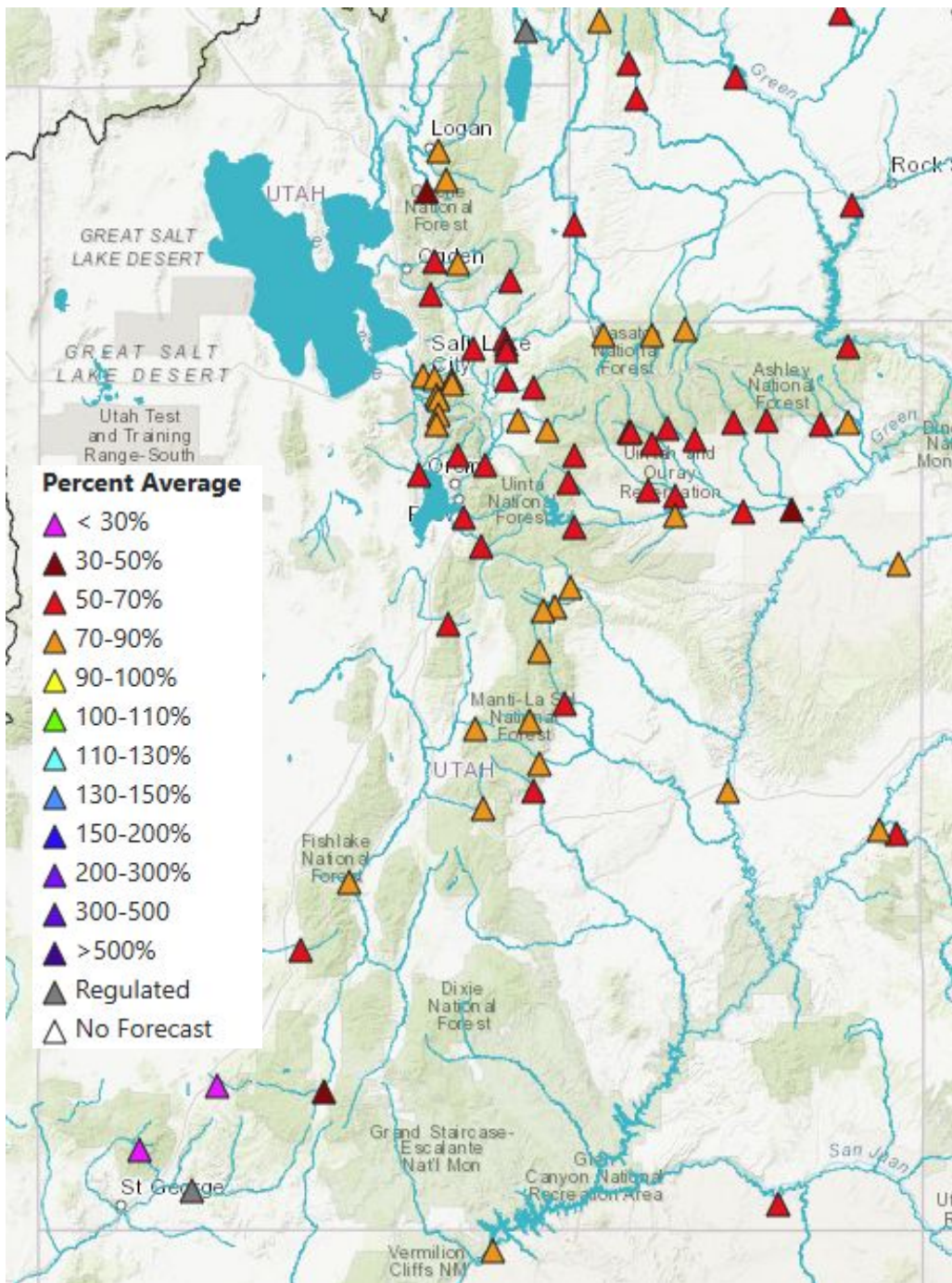


Days 8-14 U.S. Hazards Outlook
Valid: February 11 - 17, 2025



Climate Prediction Center
Released: February 3, 2025 3:00 PM EST

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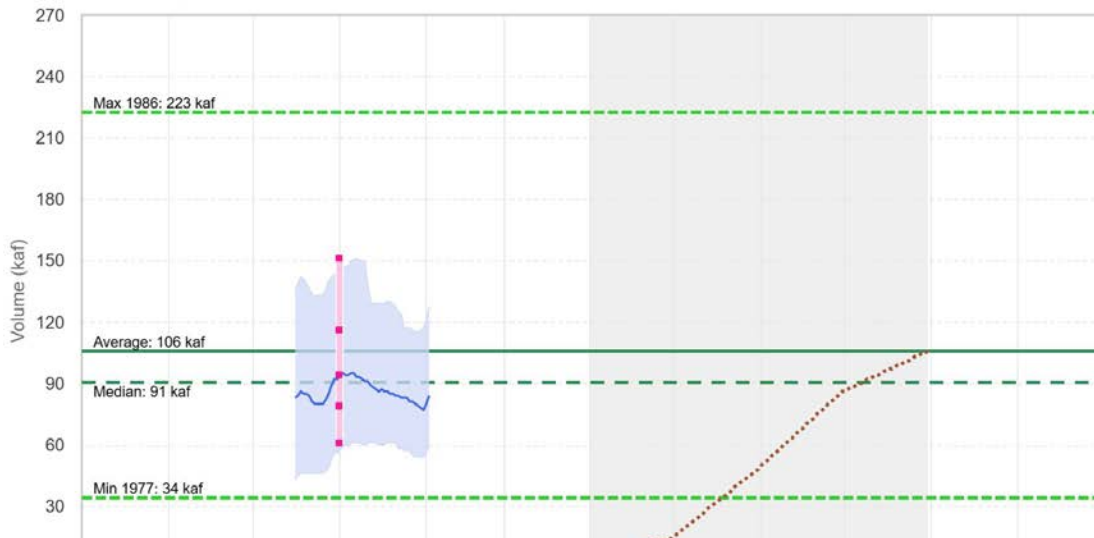


We are currently developing our “official” final forecasts for February, but well below average conditions are apparent everywhere. Forecast ranges are below:

Bear:	50 - 82%
Six Creeks:	70 - 81%
Provo:	52 - 73%
Weber:	51 - 73%
Sevier:	34 - 83%
Virgin:	30 - 41%

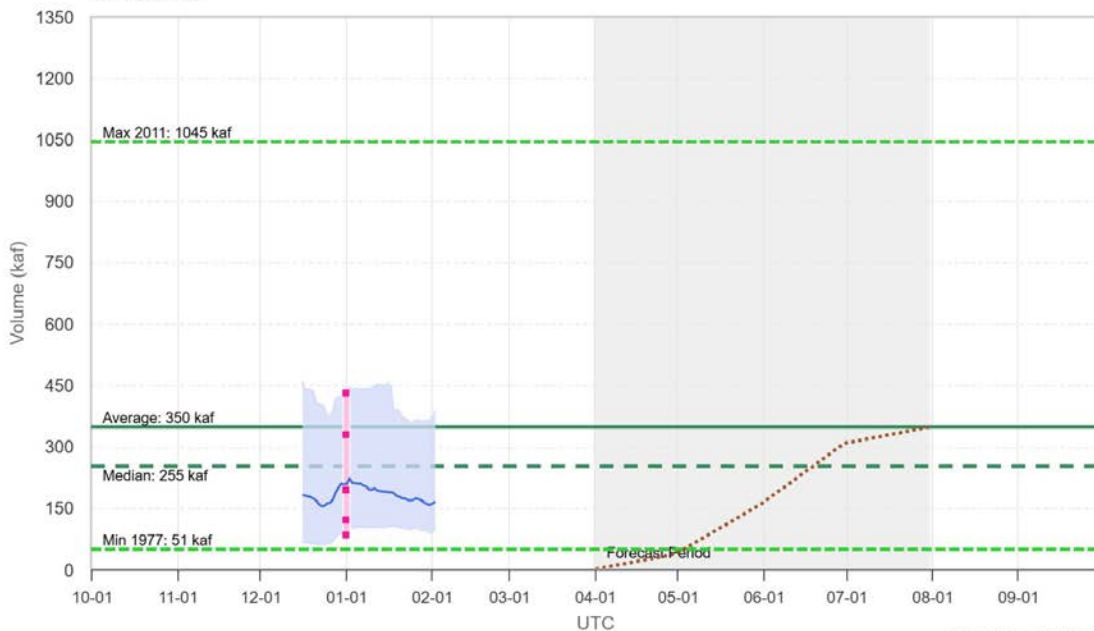
2025 Water Supply Forecast - Logan - Logan, Nr, State Dam, Abv (LGNU1)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2025-01-01): 94 kaf (89% Avg, 103% Med), (49% of Yrs Below Fcst, 32 Highest Flow / 61 Tot Yrs)
 ESP 50% Fcst (2025-02-02): 84 kaf (79% Avg, 92% Med), (39% of Yrs Below Fcst, 38 Highest Flow / 61 Tot Yrs)
 No Observed



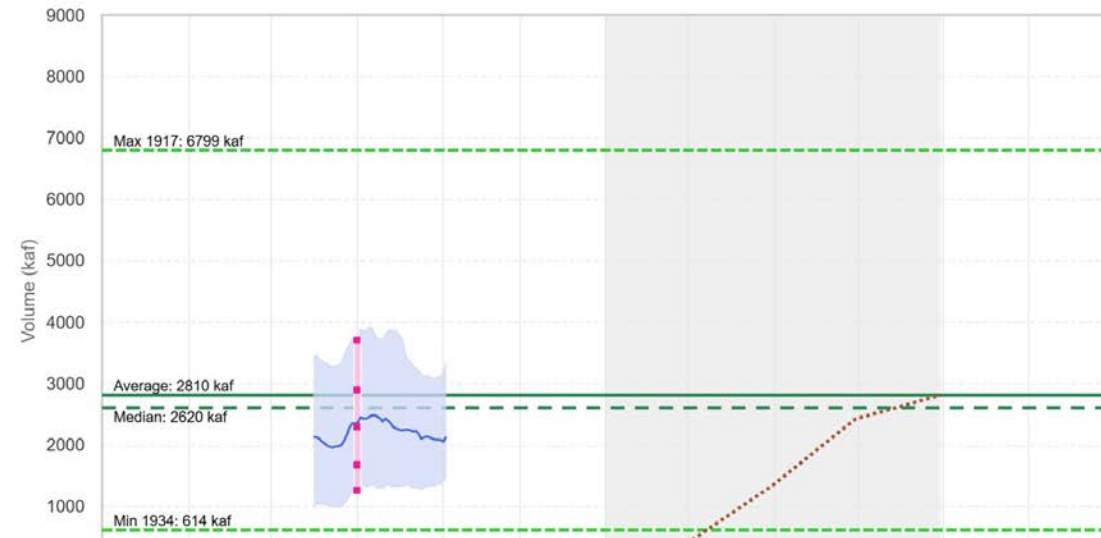
2025 Water Supply Forecast - Duchesne - Randlett, Nr (DURU1)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2025-01-01): 195 kaf (56% Avg, 76% Med), (24% of Yrs Below Fcst, 63 Highest Flow / 82 Tot Yrs)
 ESP 50% Fcst (2025-02-02): 166 kaf (47% Avg, 65% Med), (18% of Yrs Below Fcst, 68 Highest Flow / 82 Tot Yrs)
 No Observed



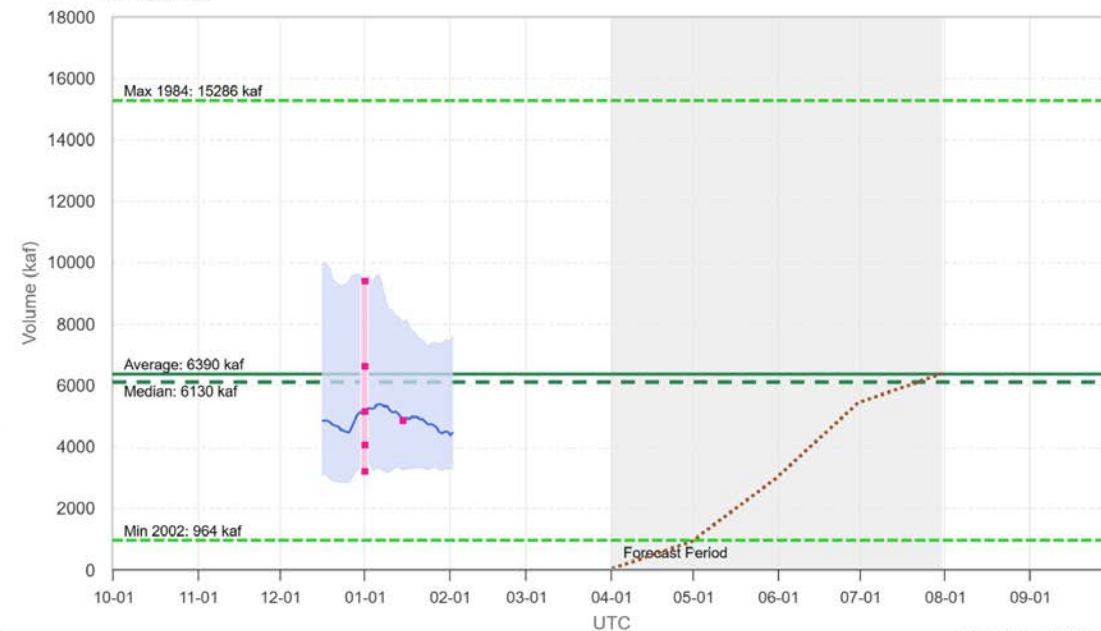
2025 Water Supply Forecast - Green - Green River, Ut (GRVU1)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2025-01-01): 2300 kaf (82% Avg, 88% Med), (27% of Yrs Below Fcst, 88 Highest Flow / 120 Tot Yrs)
 ESP 50% Fcst (2025-02-02): 2133 kaf (76% Avg, 81% Med), (25% of Yrs Below Fcst, 91 Highest Flow / 120 Tot Yrs)
 No Observed



2025 Water Supply Forecast - Colorado - Lake Powell, Glen Cyn Dam, At (GLDA3)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2025-01-15): 4850 kaf (76% Avg, 79% Med), (32% of Yrs Below Fcst, 42 Highest Flow / 61 Tot Yrs)
 ESP 50% Fcst (2025-02-02): 4483 kaf (70% Avg, 73% Med), (29% of Yrs Below Fcst, 44 Highest Flow / 61 Tot Yrs)
 No Observed



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

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





AREA: GREEN COLORADO SAN JUAN **GREAT** SEVIER VIRGIN LOWER COLORADO
 MONTH: JAN FEB
 YEAR: 2025 2024 2023 2022
 PROBABILITY: MIN 90 P 70 **MOST PROB** P 30 MAX 10

COLUMNS FILTERS DENSITY EXPORT AVERAGE MEDIAN

State	Area	Stator ID ↑	USGS Station ID	River	Location	Fcst Period	CBRFC Fcst (KAF)	CBRFC Avg (KAF)	RFC % of Avg	NRCS Fcst (KAF)	NRCS Avg (KAF)	NRCS % of Avg	Difference (NRCS-CBRFC)	Difference % (NRCS-CBRFC)
UT	SL	AFPU1	10164500	AMERICAN FORK	AMERICAN FORK; NR; UP PWRPLNT; ABV	4-7	20	25	80	21	26	81	1	5
UT	SL	BCTU1	10168500	BIG COTTONWOOD CK	SALT LAKE CITY; NR	4-7	29	34	85	28	33	85	-1	-4
WY	SL	BEAW4	10020100	BEAR	WOODRUFF NARROWS RSVR; ABV	4-7	86	108	80	107	108	99	21	22
UT	SL	BERU1	10011500	BEAR	UTAH	4-7	93	109	85	106	109	97	13	13
WY	SL	BORW4	10032000	SMITHS FORK	BORDER; NR	4-7	80	88	91	76	88	86	-4	-5
UT	SL	CASU1	10150500	SPANISH FORK	CASTILLA; NR	4-7	39	54	72	43	53	81	? N/A	
UT	SL	CCSU1	10172500	CITY CK	SALT LAKE CITY; NR	4-7	5.5	7	85	5.8	7	89	? N/A	
UT	SL	CIVU1	10131000	CHALK CK	COALVILLE	4-7	26	35	74	31	35	89	5	18
UT	SL	CLLU1	10130500	WEBER	COALVILLE; NR	4-7	90	119	76	108	115	94	18	18
UT	SL	CRAU1	10132490	LOST CK	LOST CK RESERVOIR; CROYDEN; NR	4-7	10.6	13	83	9.4	13	73	-1.2	-12
UT	SL	DCRU1	10159500	PROVO	DEER CK RESERVOIR	4-7	99	119	83	124	122	102	25	22
UT	SL	DELU1		DELL FK	LITTLE DELL RESERVOIR	4-7	4.5	4	102					
UT	SL	ECBU1	10131500	WEBER	ECHO RESERVOIR; ECHO; AT	4-7	115	152	76	129	148	87	14	11
UT	SL	ECRU1	10134500	EAST CANYON CK	EAST CANYON RESERVOIR; MORGAN; NR	4-7	19.5	23	85	16	23	70	-3.5	-20
UT	SL	GATU1	10136500	WEBER	GATEWAY	4-7	220	275	80	220	270	81		0
UT	SL	HBCU1		HOBBLE CK	SPRINGVILLE; 700 EAST	4-7	12	17	73					
UT	SL	HRMU1	10113500	BLACKSMITH FORK	HYRUM; NR; UPNL DAM; ABV	4-7	33	37	89	30	37	81	-3	-10
UT	SL	LAMU1		LAMBS CK	SALT LAKE CITY; NR	4-7	4.5	4	105					

Improvements to our CBRFC & NRCS Forecast Comparison Tool:

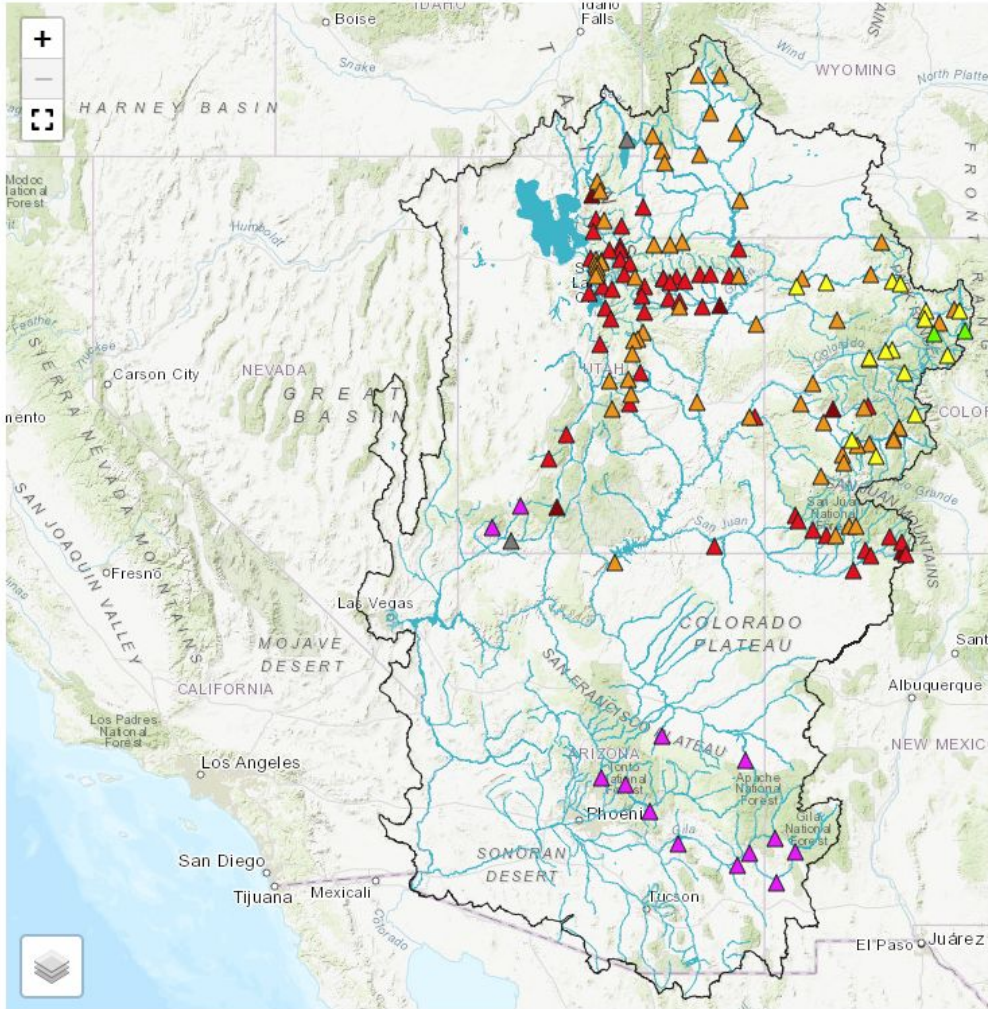
- RFC % of average based on chosen exceedance range
- Improved filter area formatting
- Improved dynamic year and month configuration



Rivers ▾ Snow ▾ Water Supply ▾ Peak Flow ▾ Reservoirs ▾ Weather ▾ Climate ▾ Help ▾

Friday, February 7, 2025: CBRFC Water Supply Briefing Webinar [Registration](#)
Planned Website Outage for Maintenance: January 28 [Contact Us for More Info](#)

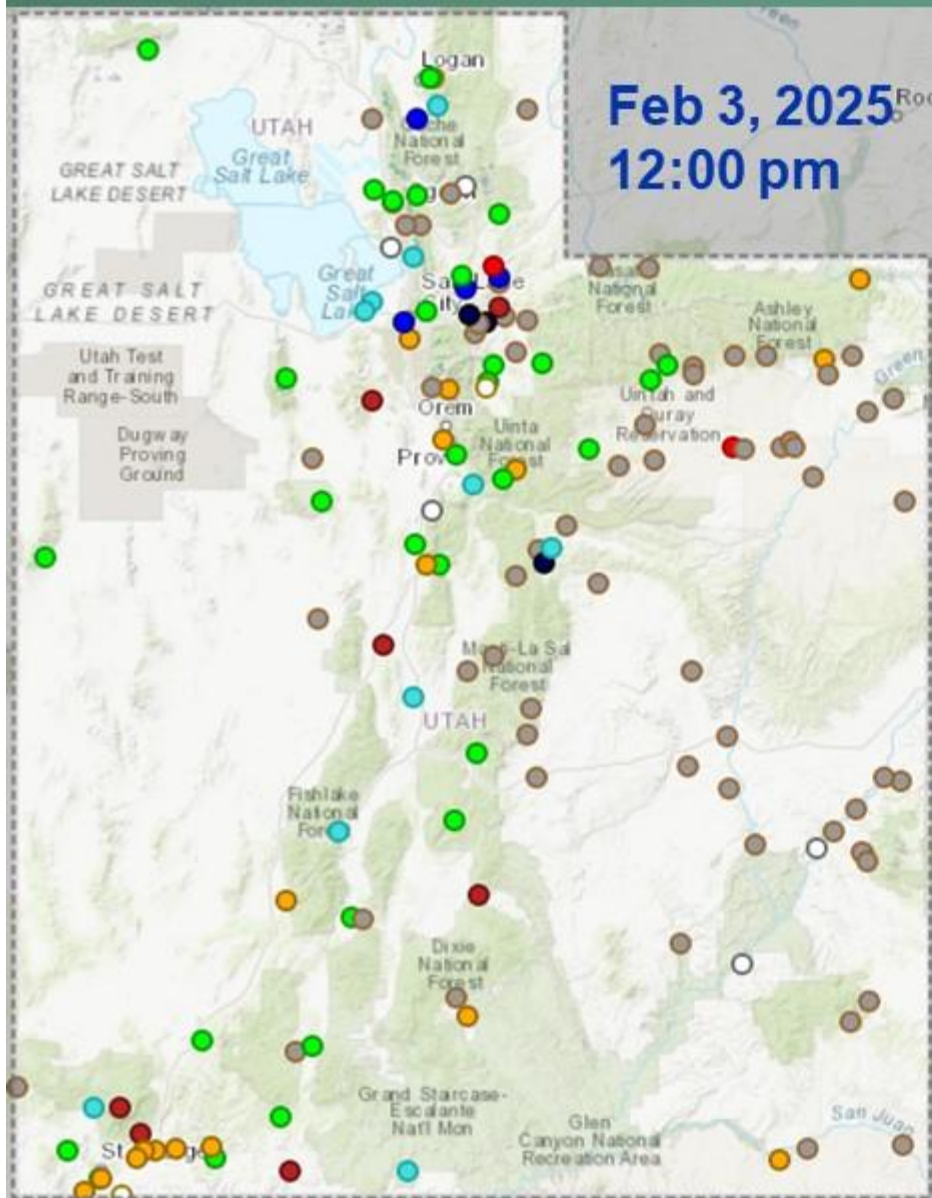
Select Data Select Overlays Filter Points Show River Alerts Get Map Image/URL Help



Lat: 37.6 Lng: -110.5, Zoom: 6

This Friday, February 7th at 10 a.m. MT is our next water supply webinar. You can register from the link at the top of our homepage www.cbrfc.noaa.gov

Current Streamflow Conditions



Day-of-Year Status	Jan. 7	Feb 3
All-time high for this day-of-year	2.0%	2.0%
Much above normal for this day-of-year	2.0%	2.7%
Above normal for this day-of-year	6.8% █	6.7% █
Normal for this day-of-year	29.7% █	20.8% █
Below normal for this day-of-year	14.2% █	11.4% █
Much below normal for this day-of-year	5.4% █	5.4% █
All-time low for this day-of-year	0.7%	1.3%
Not ranked - insufficient record	8.8% █	8.7% █
Not ranked - no measurement	3.4%	34.9% █
Not ranked - no recent measurement	25.0% █	4.0%
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



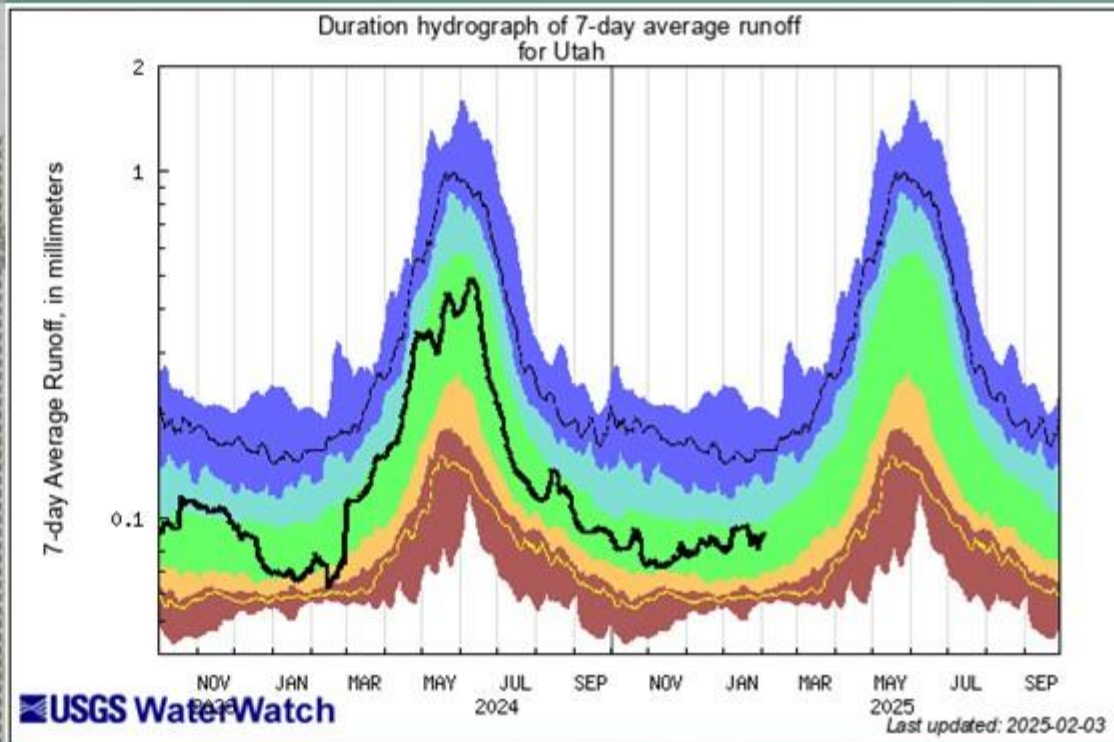
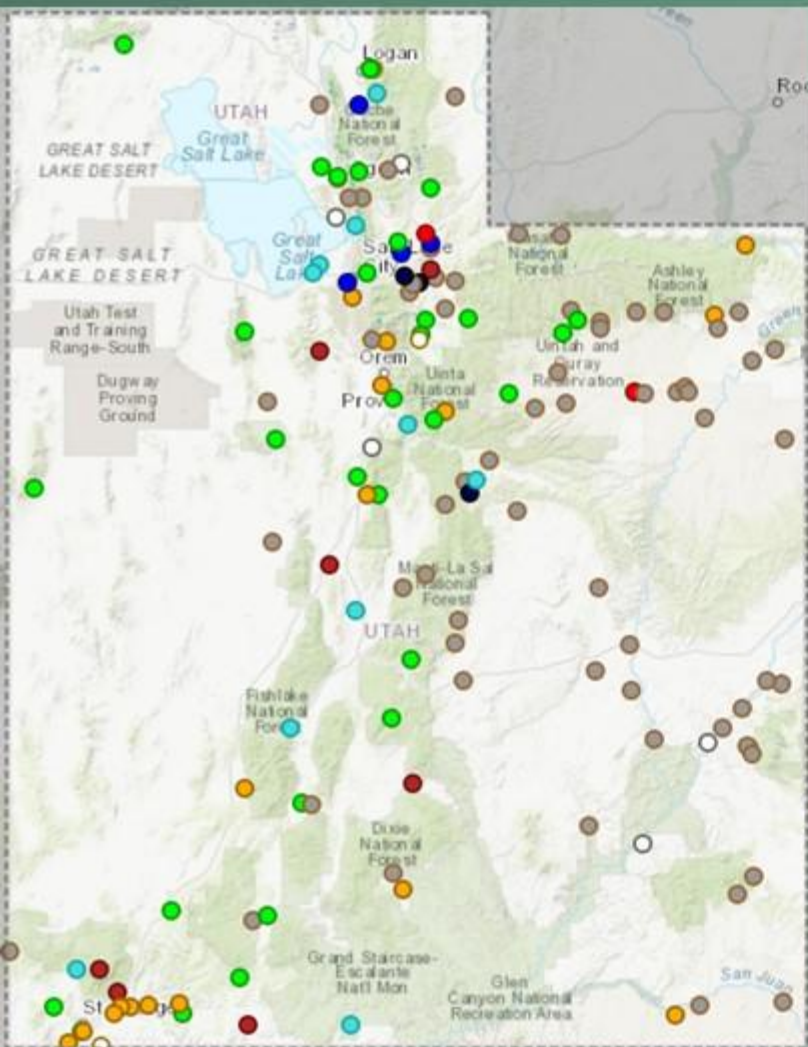
National Water Dashboard

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

Provisional data, subject to revision

Presenter - Chris Wilkowske

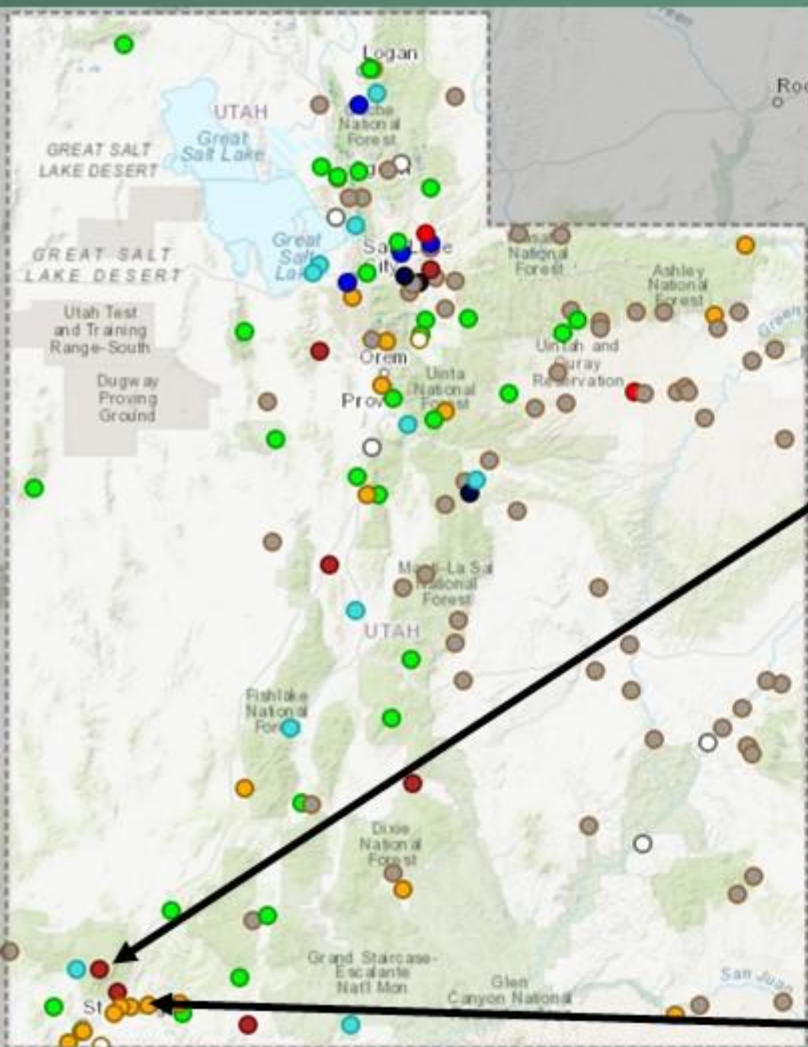
Streamflow at Selected Gages



Explanation - Percentile classes

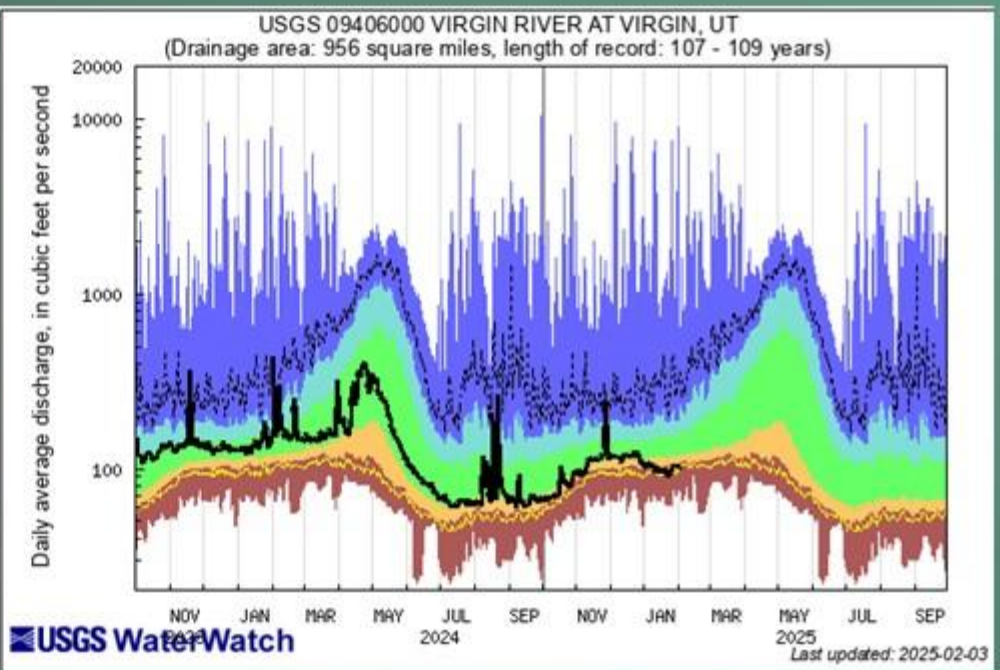
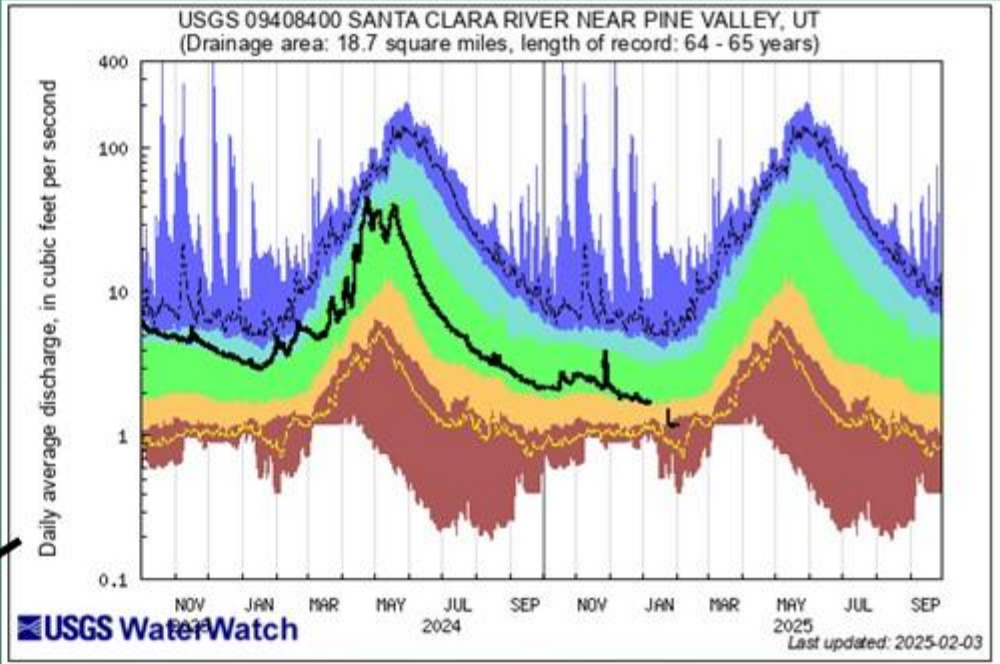
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile-highest	Flow
Much below normal	below normal	Normal	Above normal	Much above normal			

Streamflow at Selected Gages

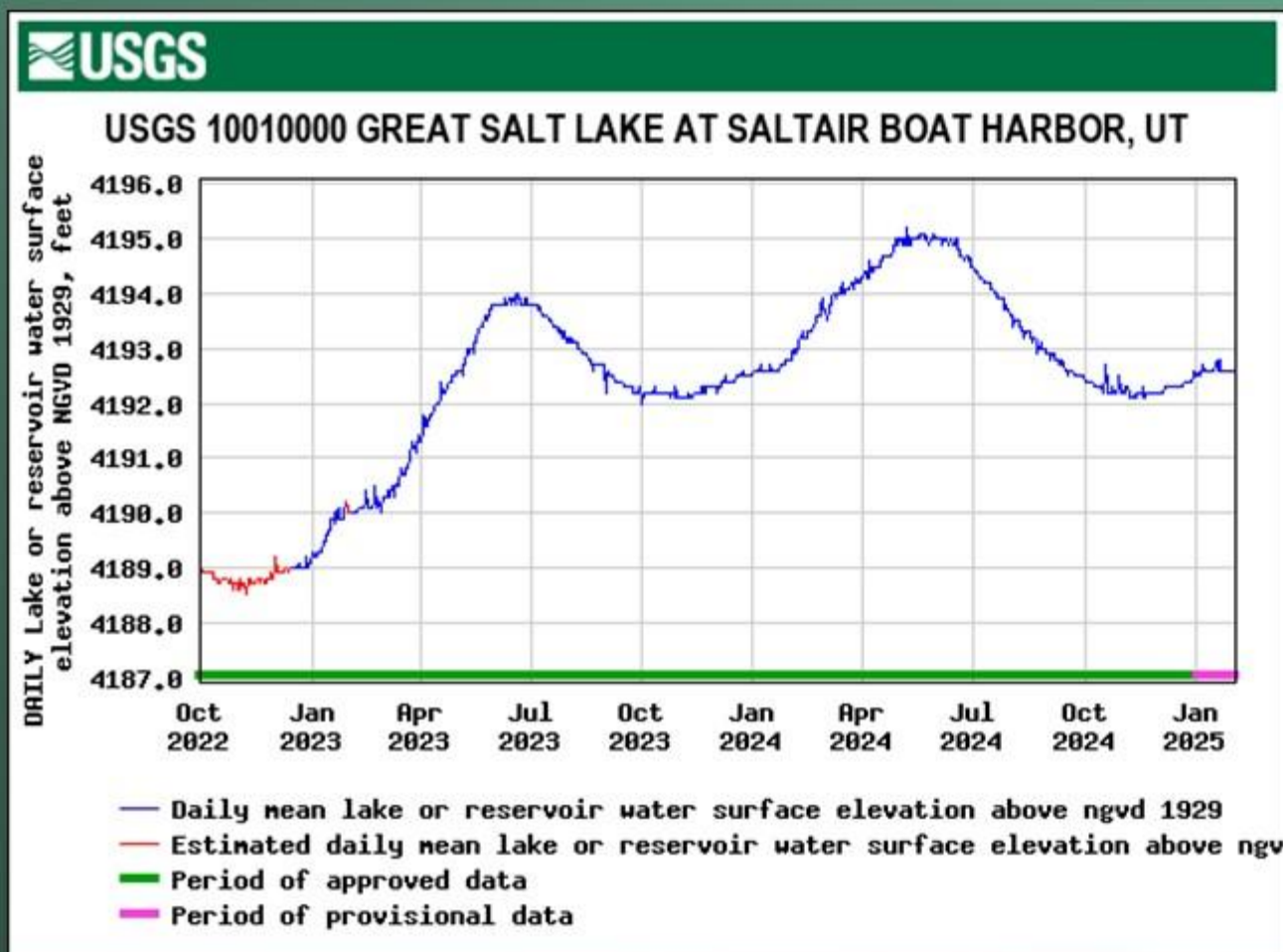


Explanation - Percentile classes

Percentile Class	Color	Flow Description
lowest - 10th percentile	Dark Blue	Much below Normal
5	Blue	Below Normal
10-24	Light Blue	Normal
25-75	Green	Above Normal
76-90	Yellow	Much above normal
95	Orange	
90th percentile - highest	Red	



Great Salt Lake Water Surface Elevation – South Arm

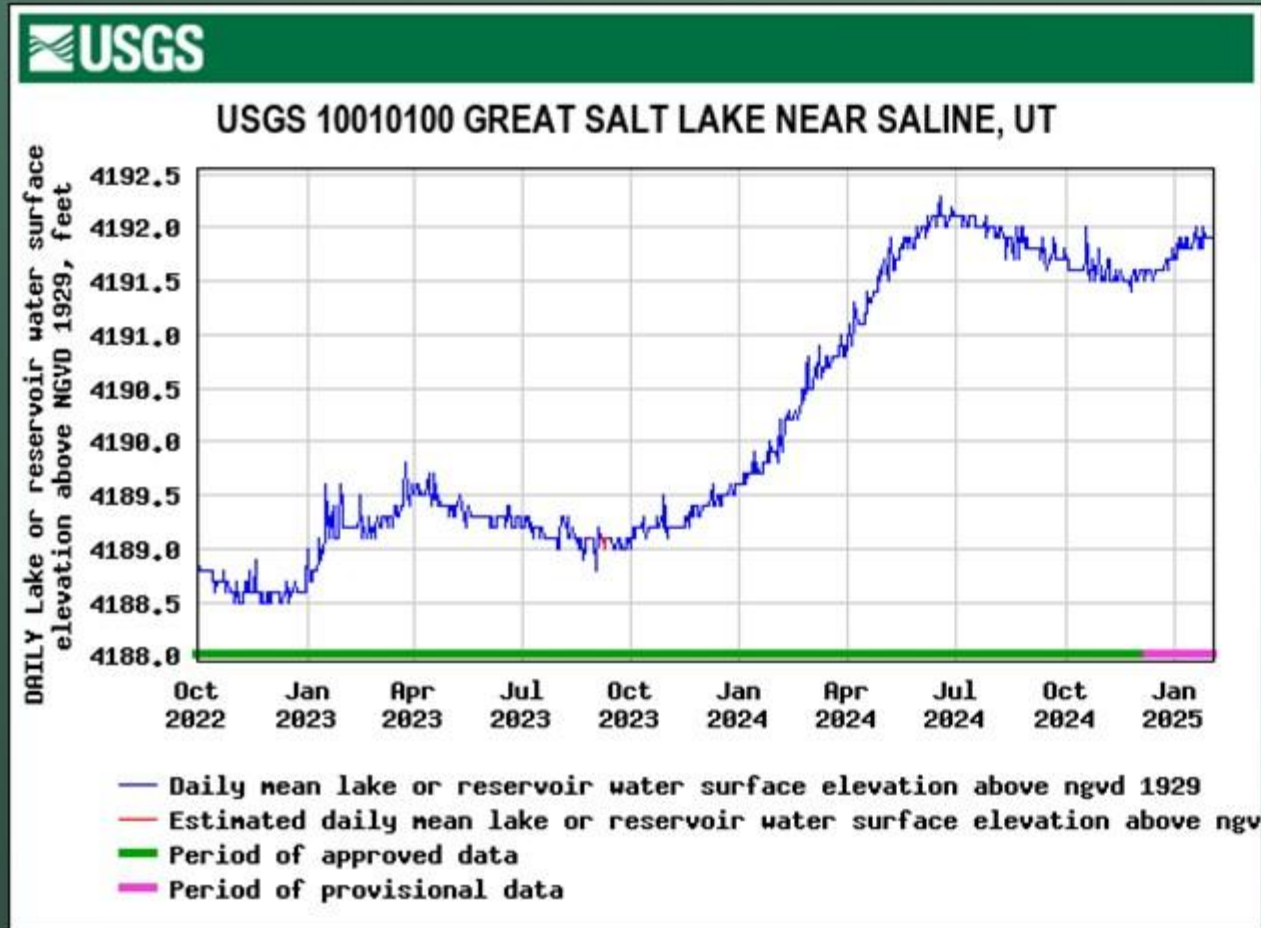


□ Daily value
2/2/2025 =
4,192.6'

□ Daily value
1/6/2025 =
4,192.6'

□ Up 0.5' since
seasonal low in
November 2024

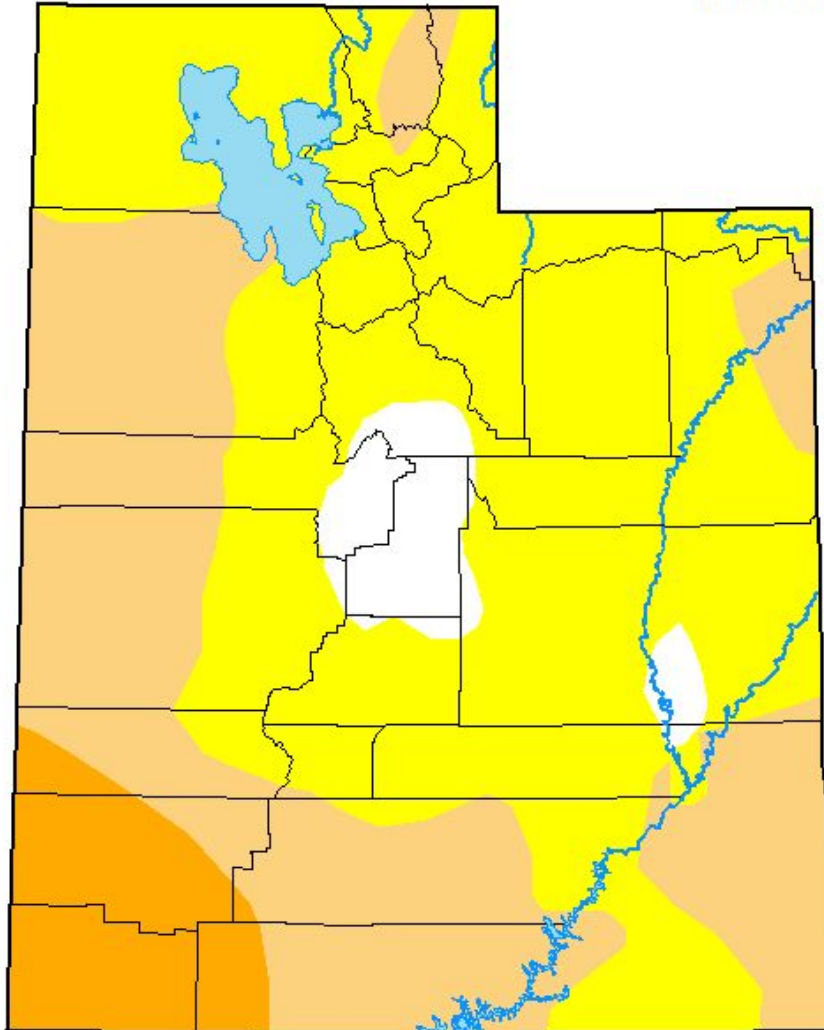
Great Salt Lake Water Surface Elevation – North Arm









- ❑ Daily value 2/2/2025 = 4,191.9'
- ❑ Daily value 1/6/2025 = 4,191.8'
- ❑ Up 0.4' since seasonal low in November 2024

U.S. Drought Monitor Utah

January 28, 2025
(Released Thursday, Jan. 30, 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:

Brian Fuchs
National Drought Mitigation Center



droughtmonitor.unl.edu

To report on conditions between meetings:

Submit a report on CMOR drought website

Email Lhaskell@utah.gov

email drought@utah.gov