



Utah Water Conditions (drought webinar)

The meeting will begin shortly



Thank you to our contributors

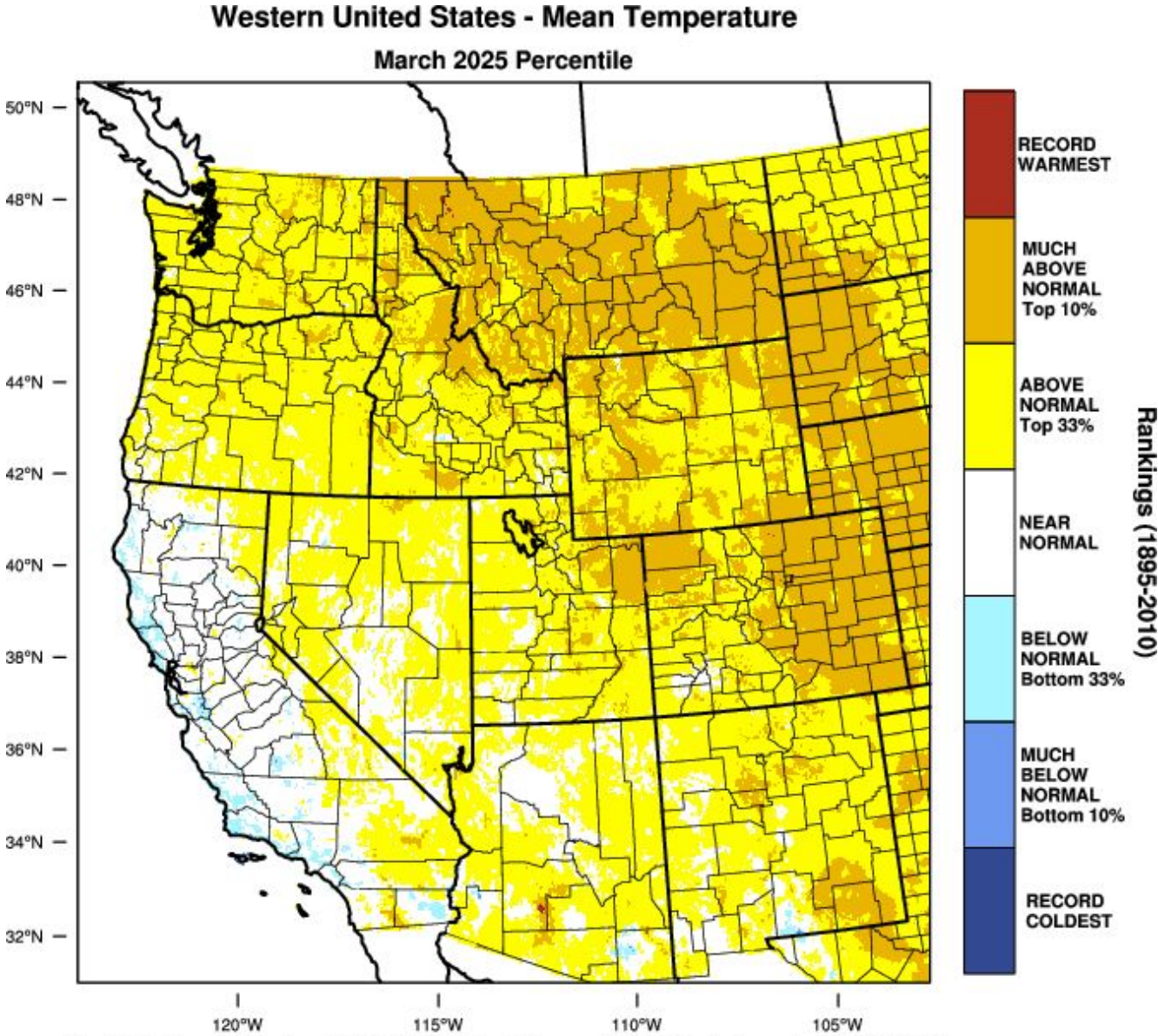




Utah Water Conditions Update

April 8, 2025

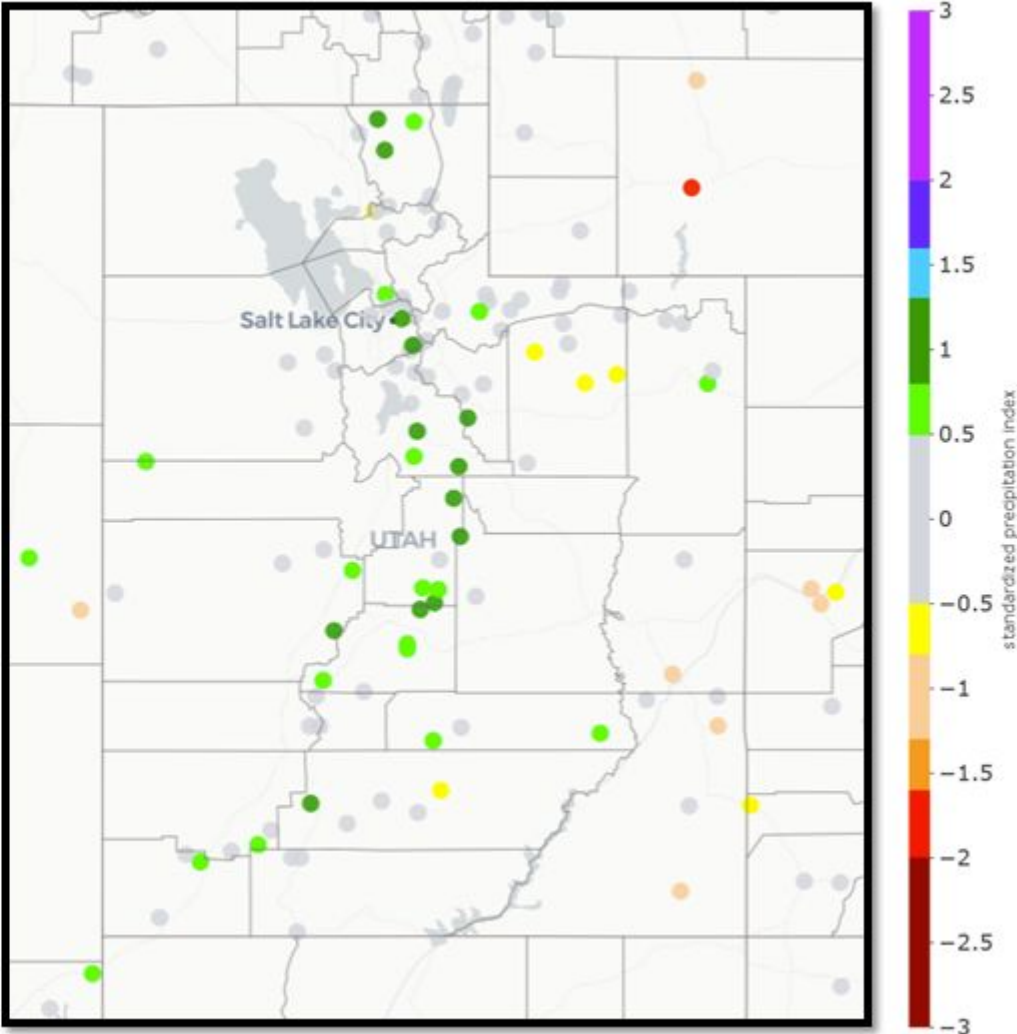
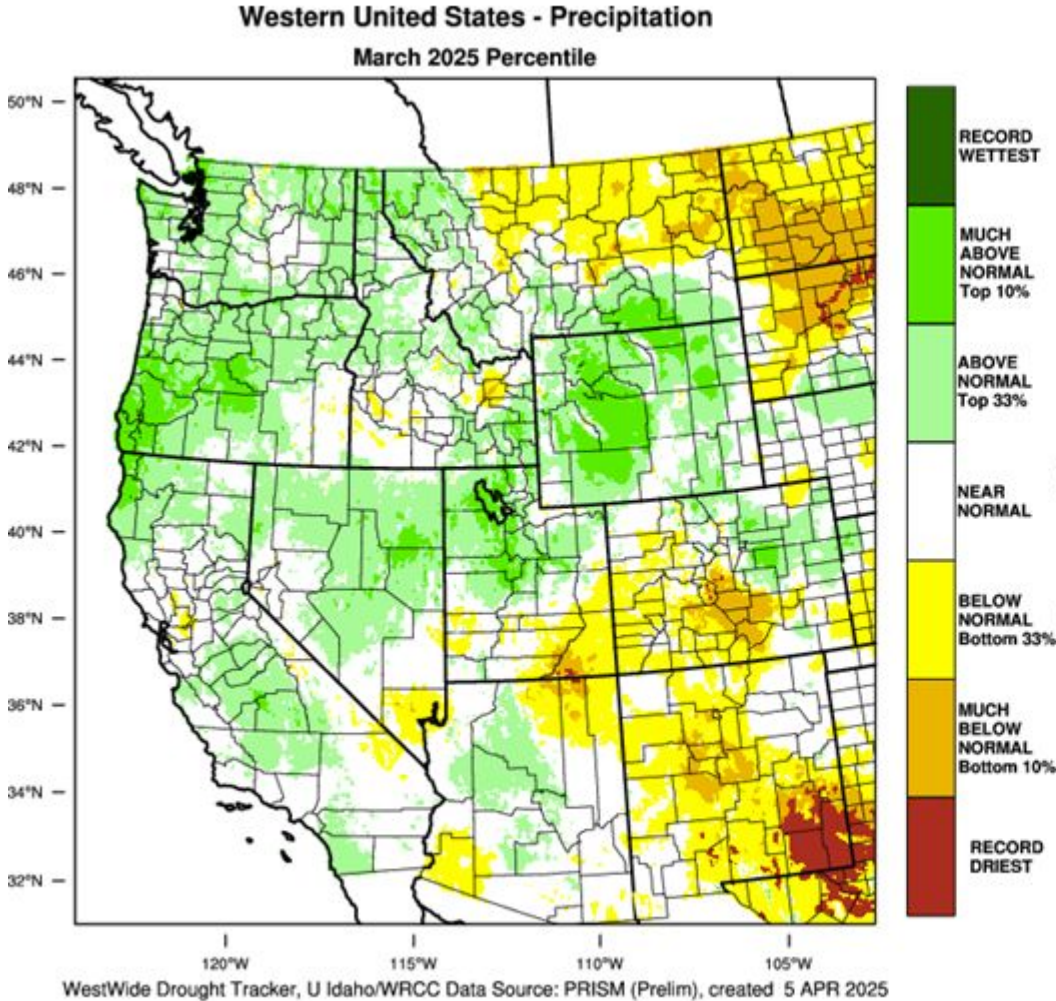
March Temperature Summary



Agency - Utah Climate Center
Presenter - Jon Meyer

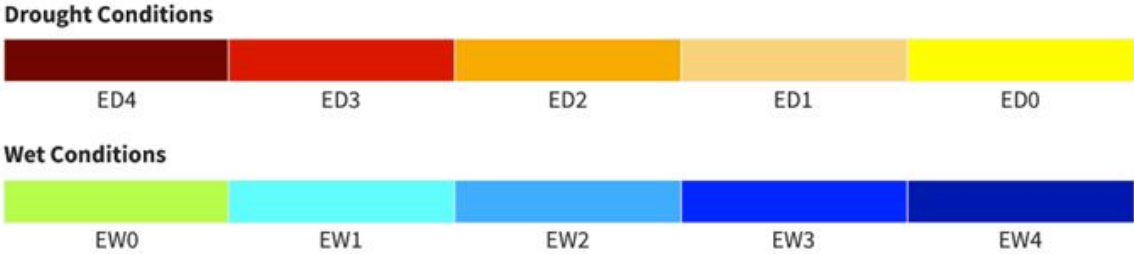
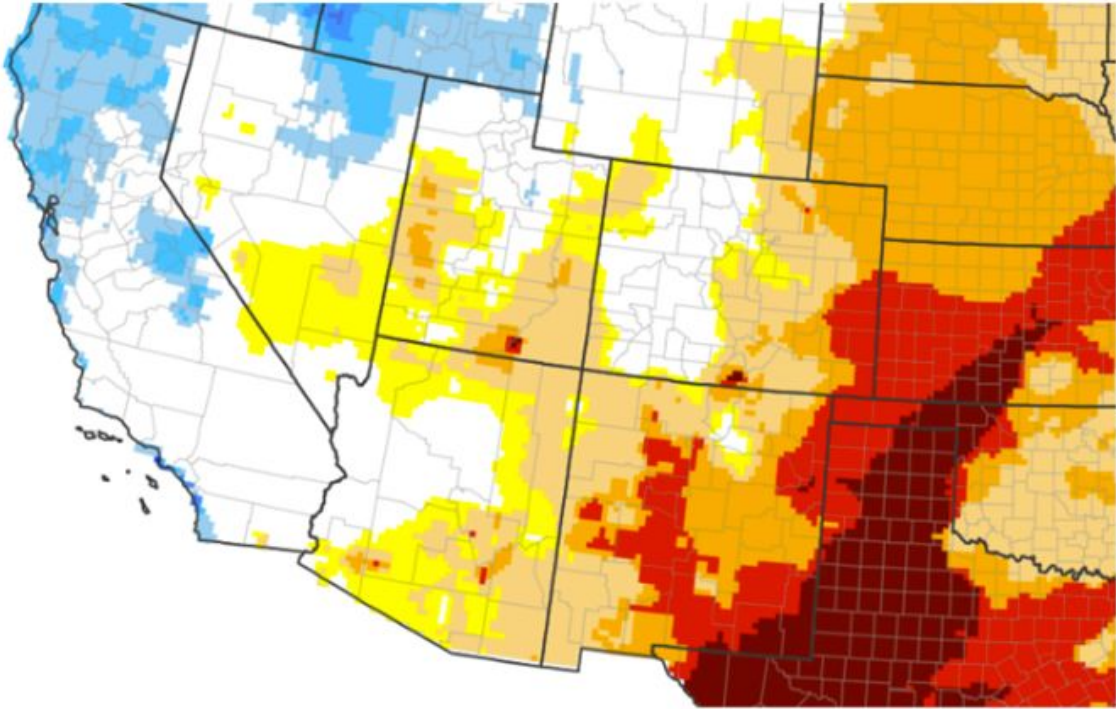
March Precipitation Summary

30-day Standardized Precipitation Index (SPI)



4-week Evaporative Demand Drought Index (EDDI)

Evaporative Demand Drought Index (EDDI): 4 Week

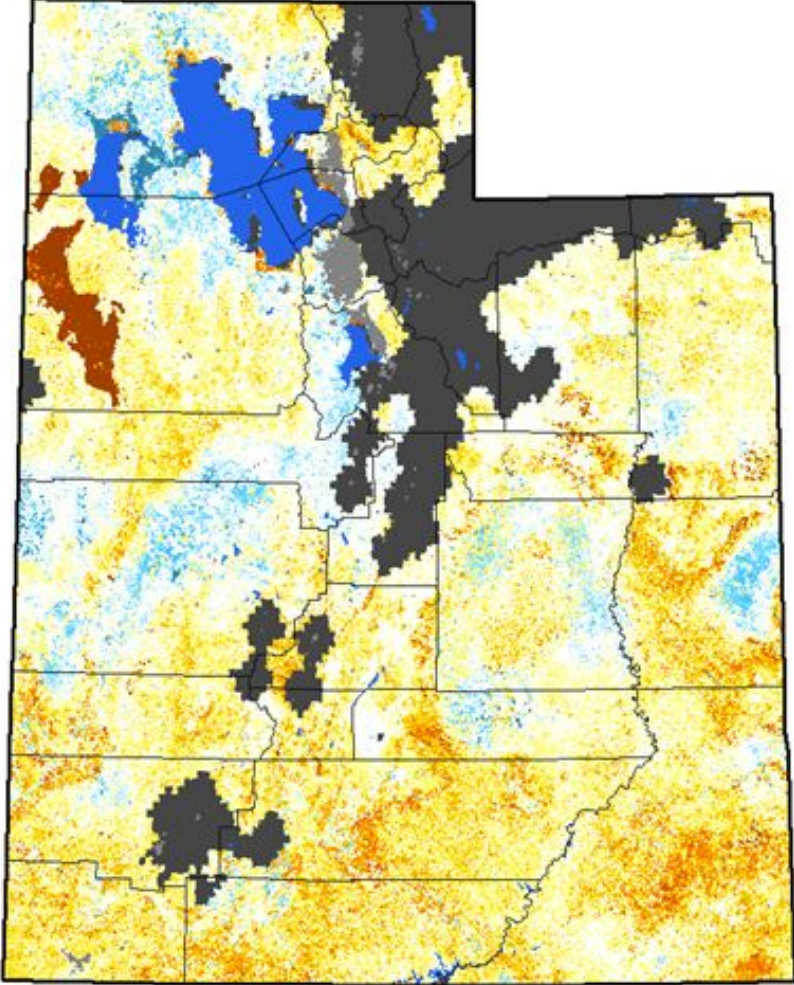


Source(s): NOAA Physical Sciences Laboratory
Data Valid: 04/02/25



Quick Drought Response Index (Quick-DRI)

April 6, 2025
(Week 14)



Conditions Relative to
4-Week Historical Average

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

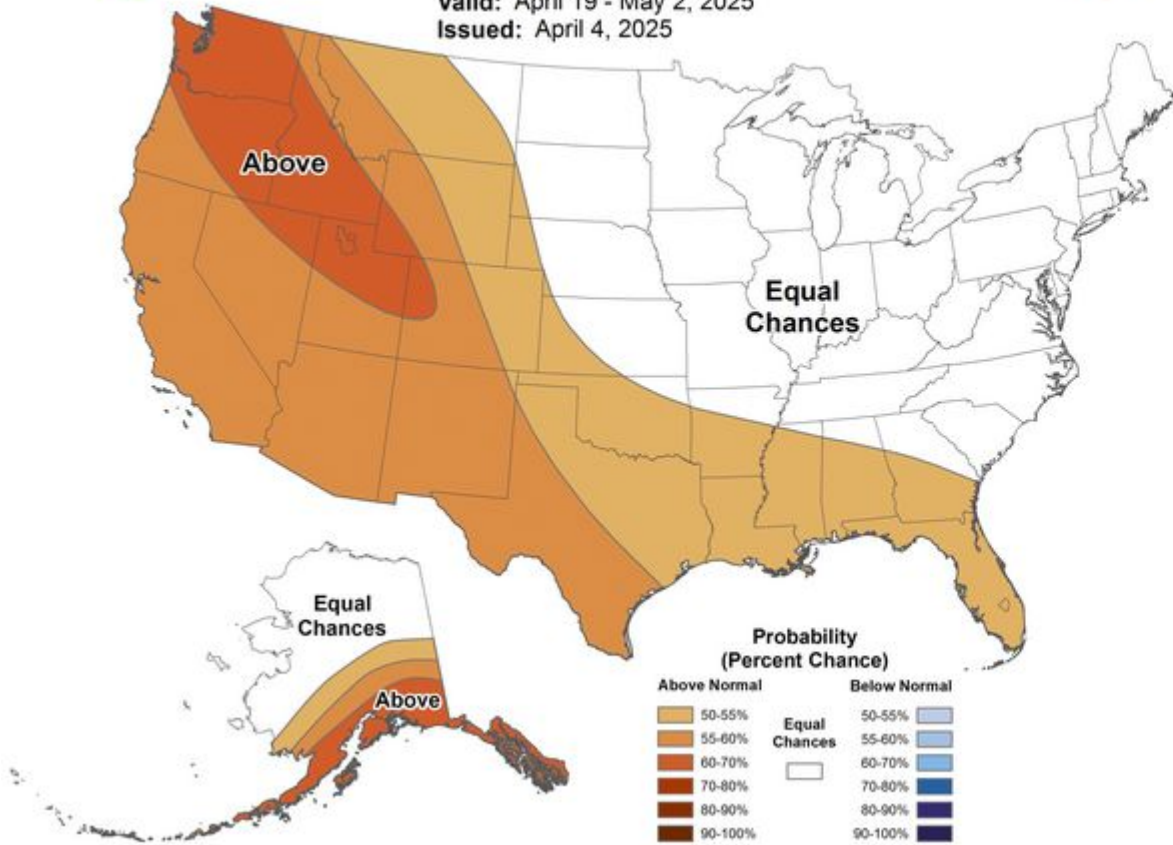
CPC Weeks 3-4 Outlook



Weeks 3-4 Temperature Outlook



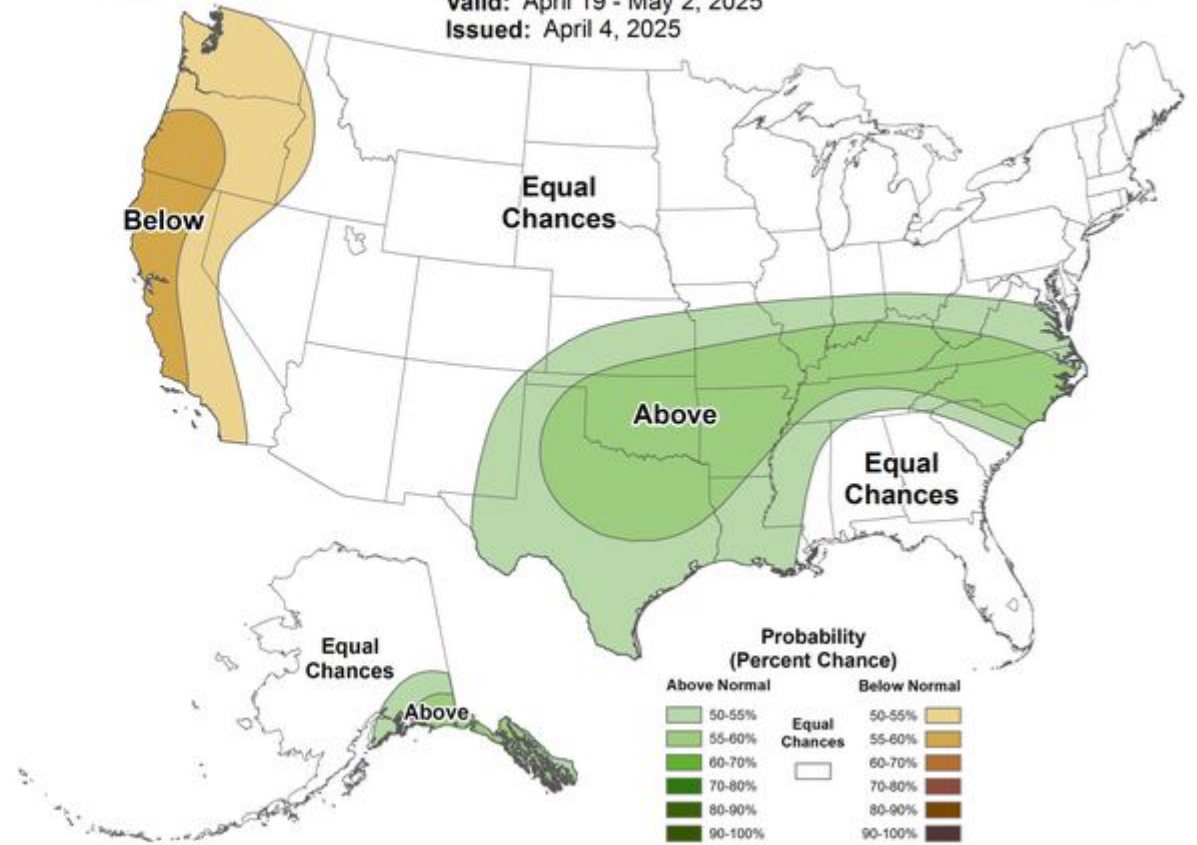
Valid: April 19 - May 2, 2025
Issued: April 4, 2025



Weeks 3-4 Precipitation Outlook



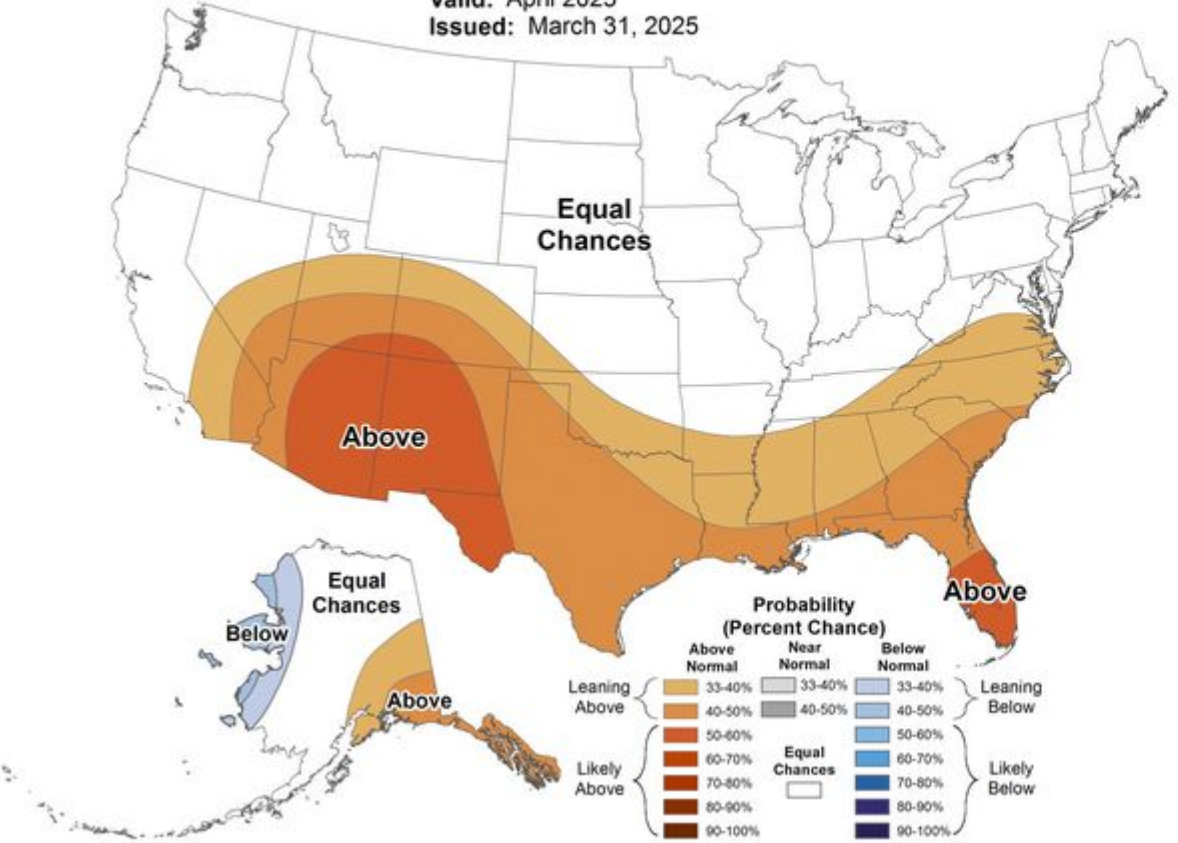
Valid: April 19 - May 2, 2025
Issued: April 4, 2025



CPC April Outlook

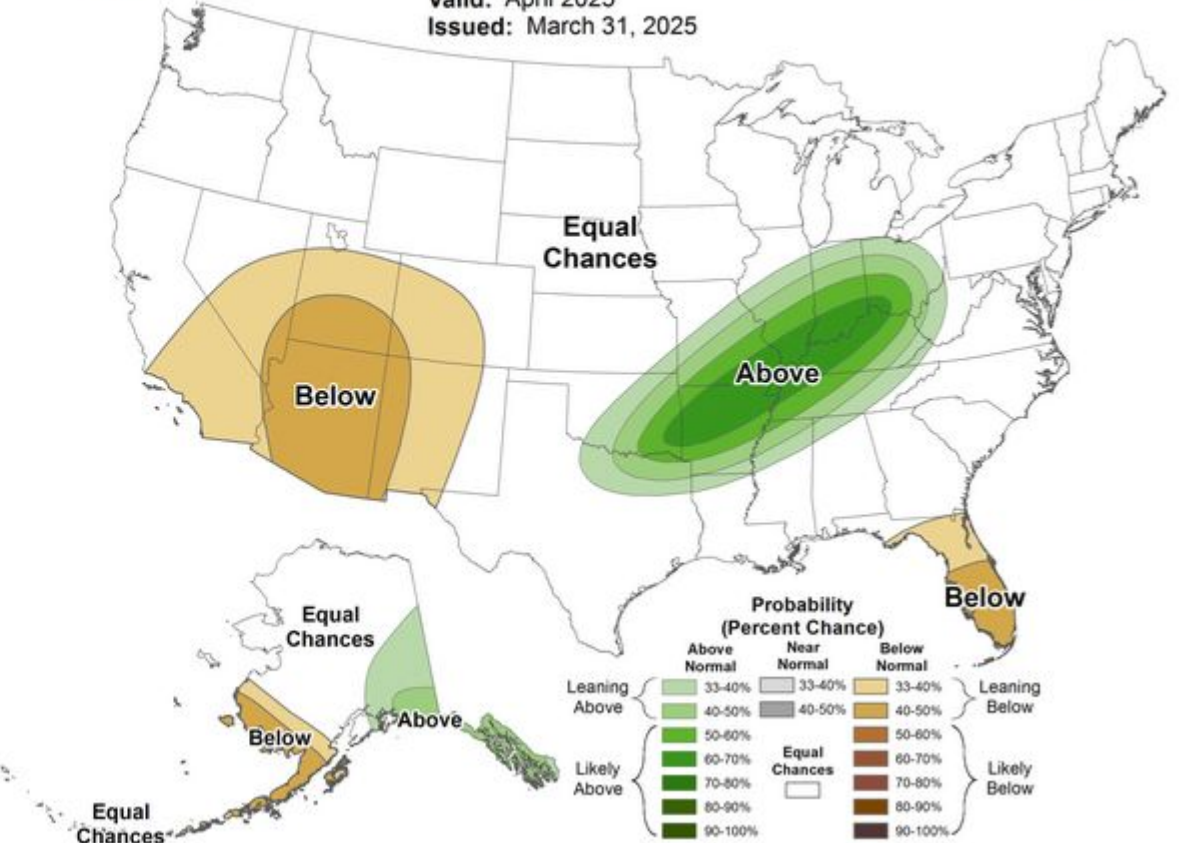
Monthly Temperature Outlook

Valid: April 2025
 Issued: March 31, 2025



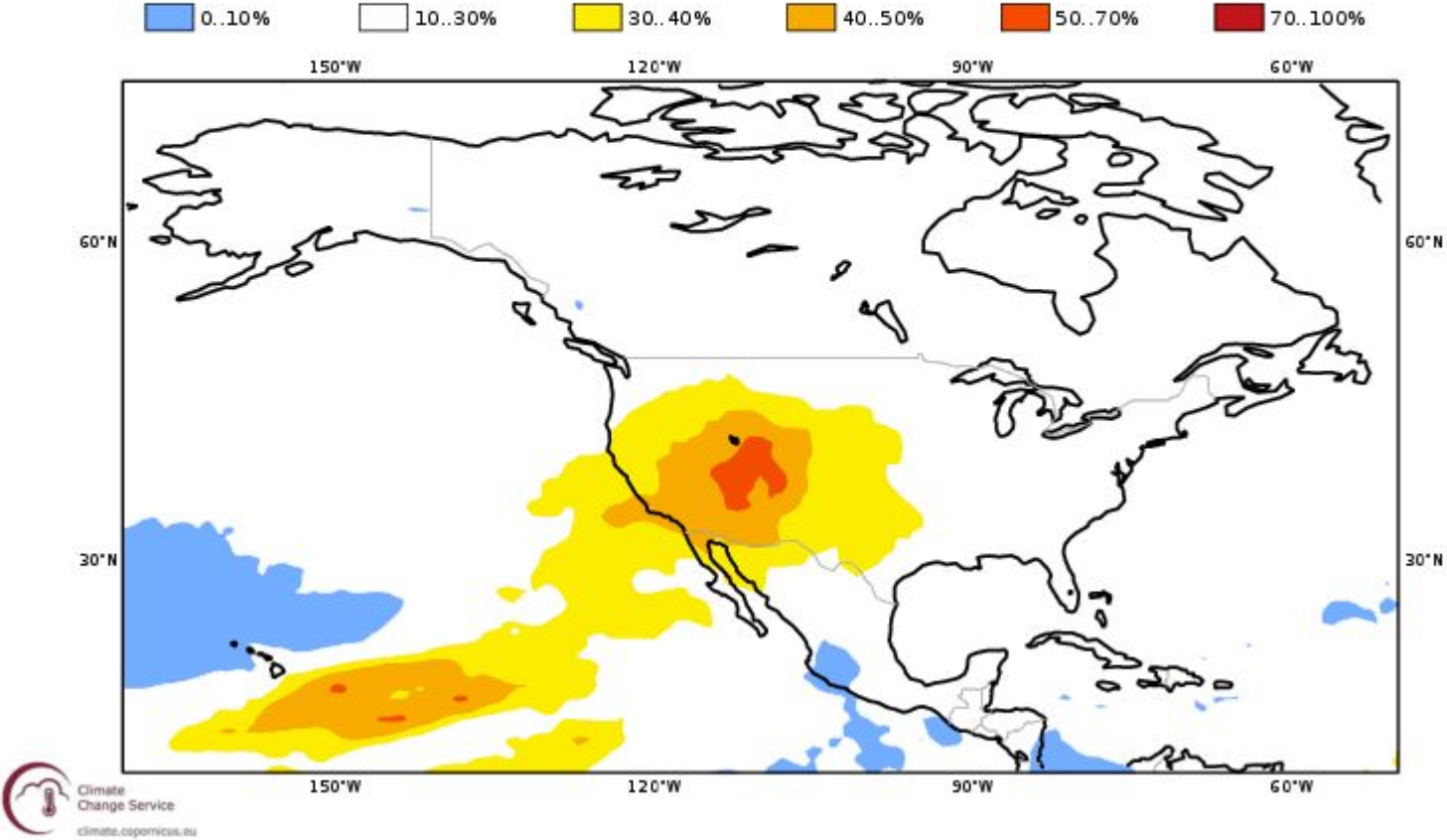
Monthly Precipitation Outlook

Valid: April 2025
 Issued: March 31, 2025



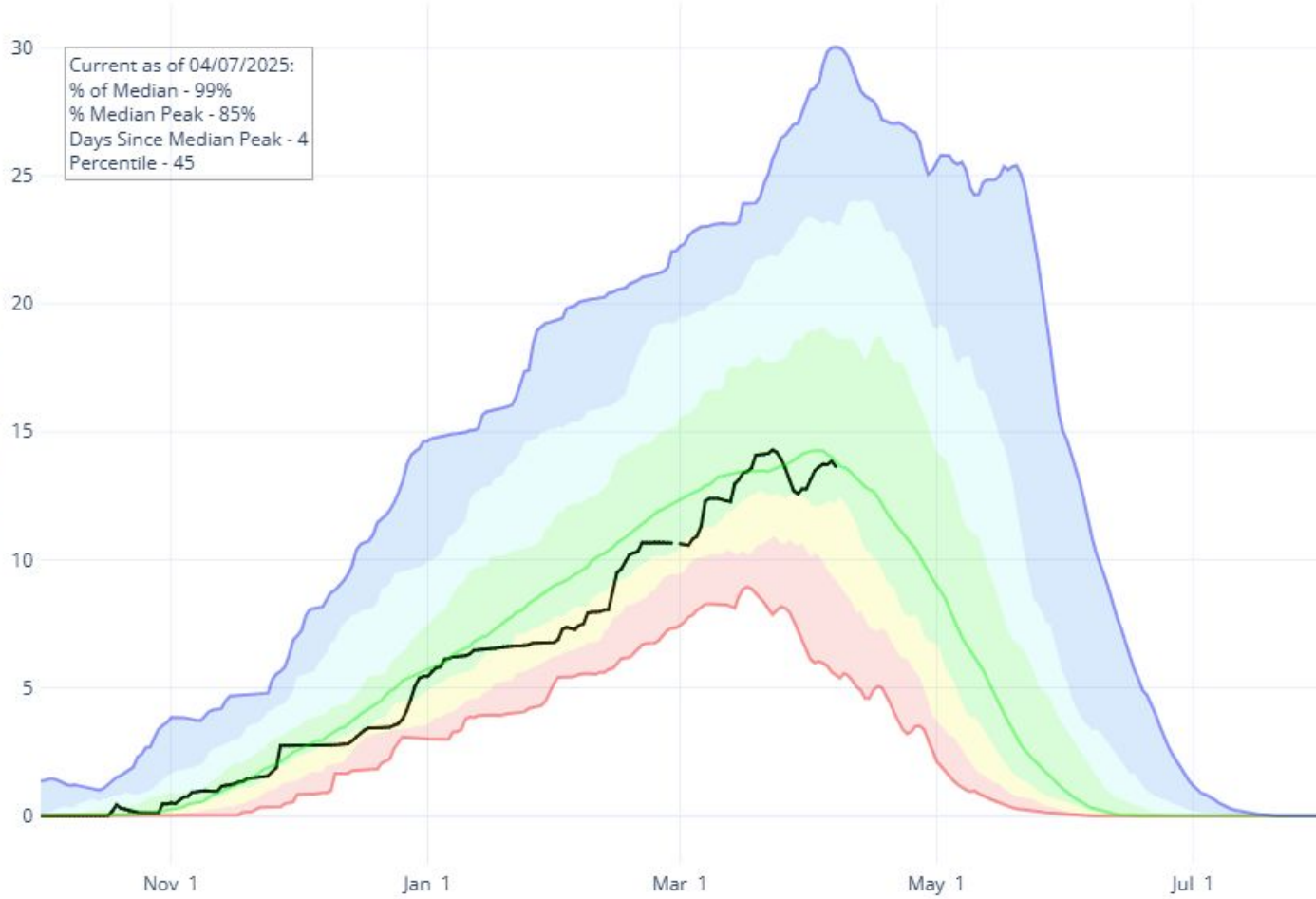
Extended Range Outlook: Apr-June Probability for Lowest 20% of Total Precipitation.

C3S multi-system seasonal forecast ECMWF/Met Office/Météo-France/CMCC/DWD/NCEP/JMA/ECCC
Prob(lowest 20% of climatology) - precipitation AMJ 2025
Nominal forecast start: 01/03/25
Unweighted mean

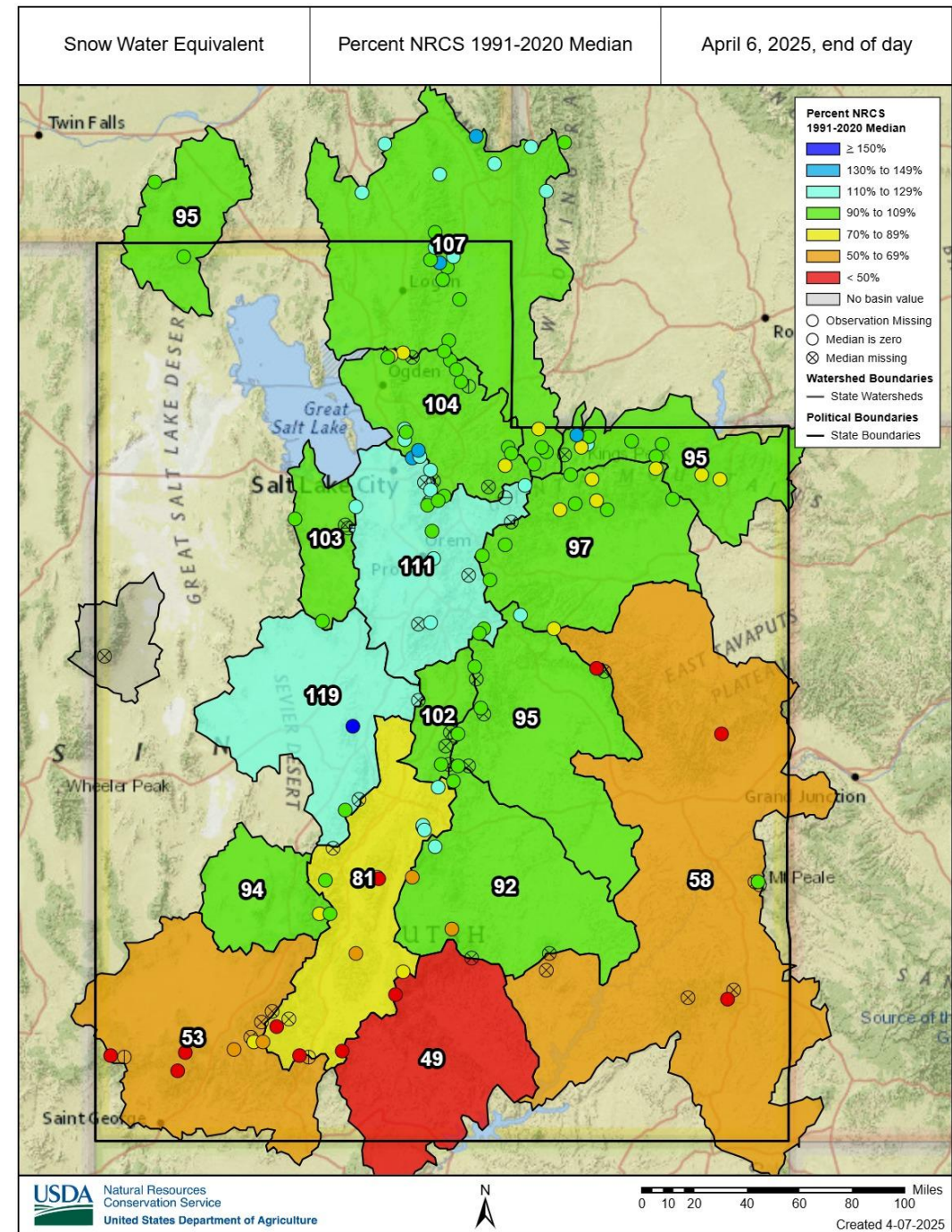


Snowpack

SNOW WATER EQUIVALENT IN STATE OF UTAH

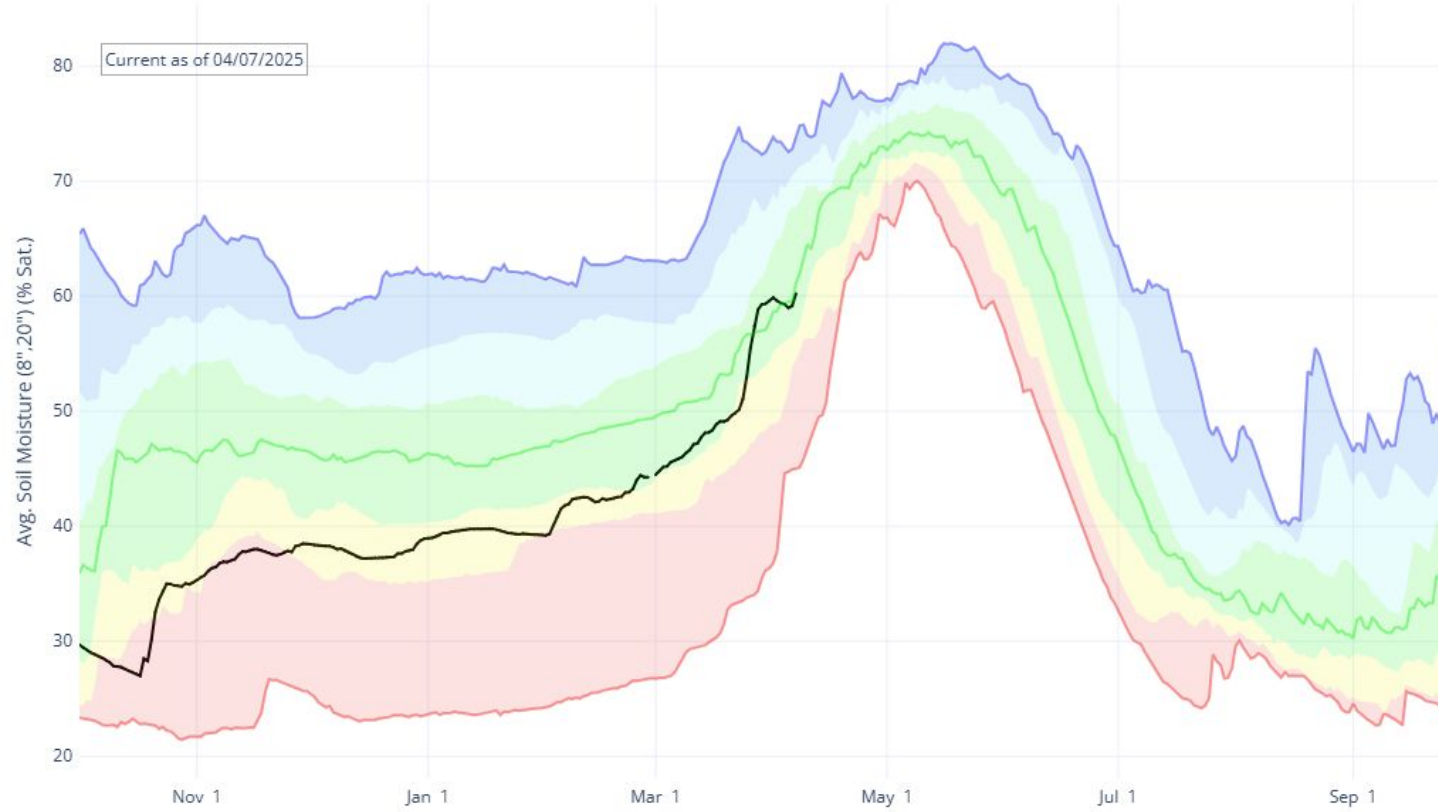


Agency - NRCS Snow Survey
 Presenter - Jordan Clayton

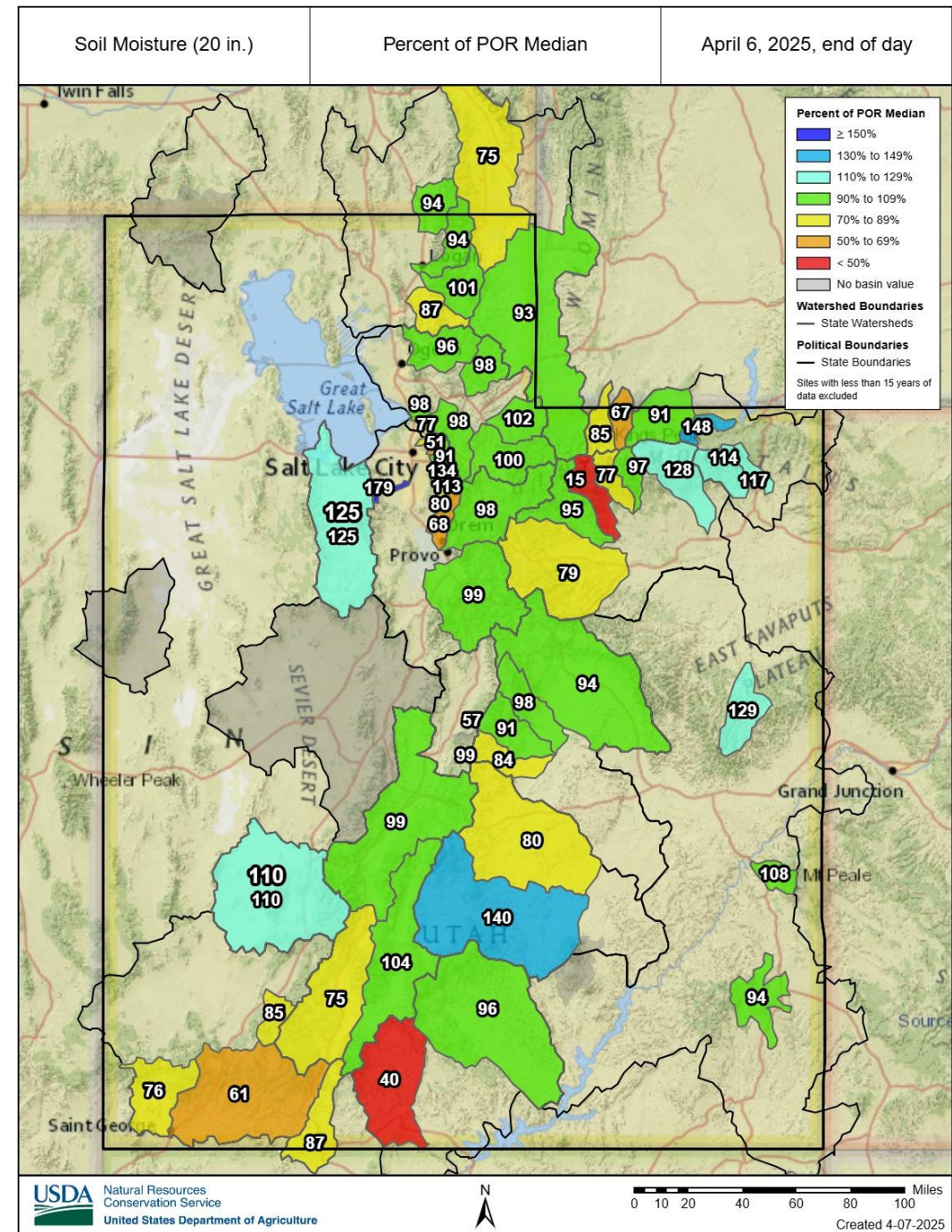


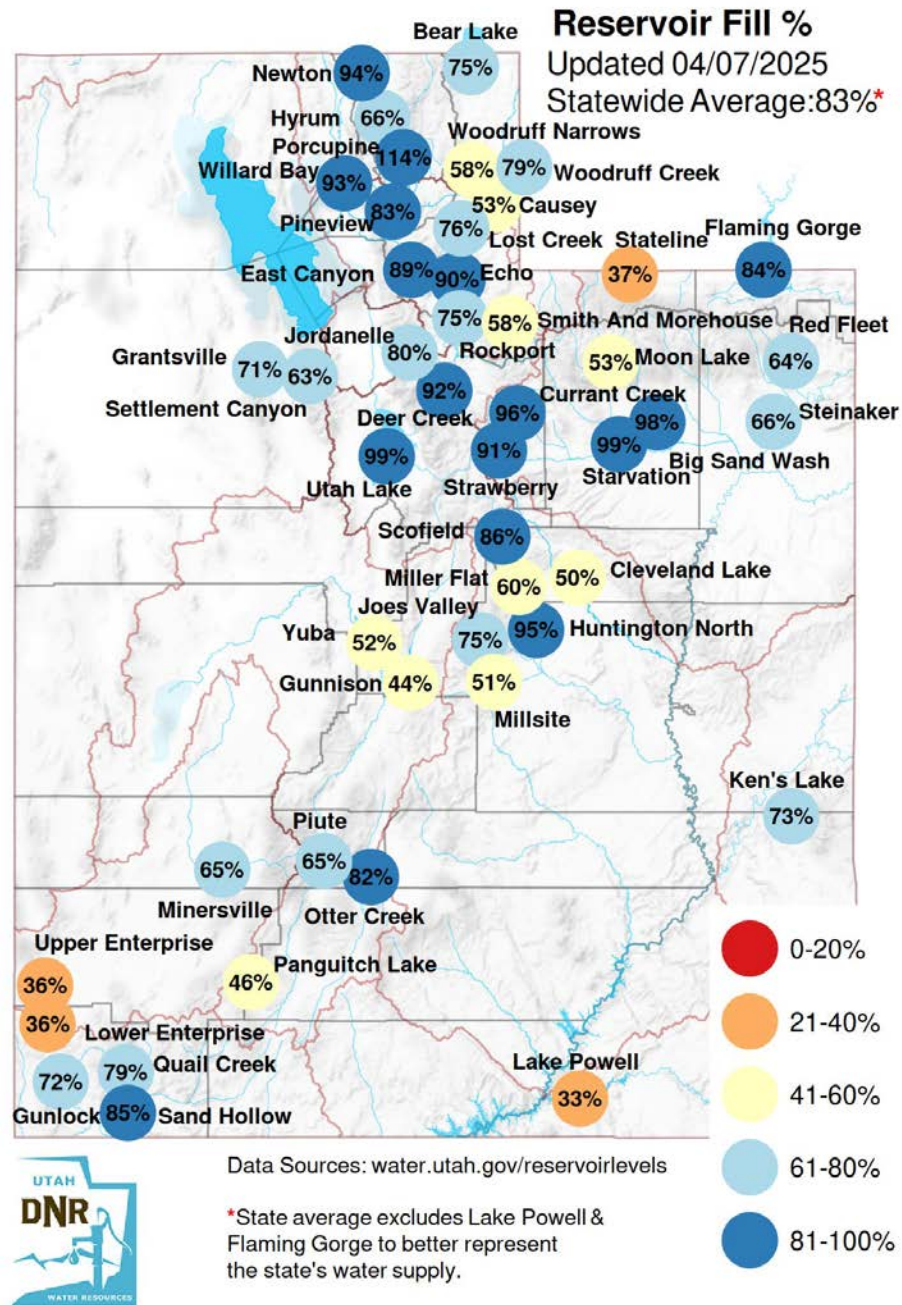
Soil Moisture

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



Agency - NRCS Snow Survey
 Presenter - Jordan Clayton

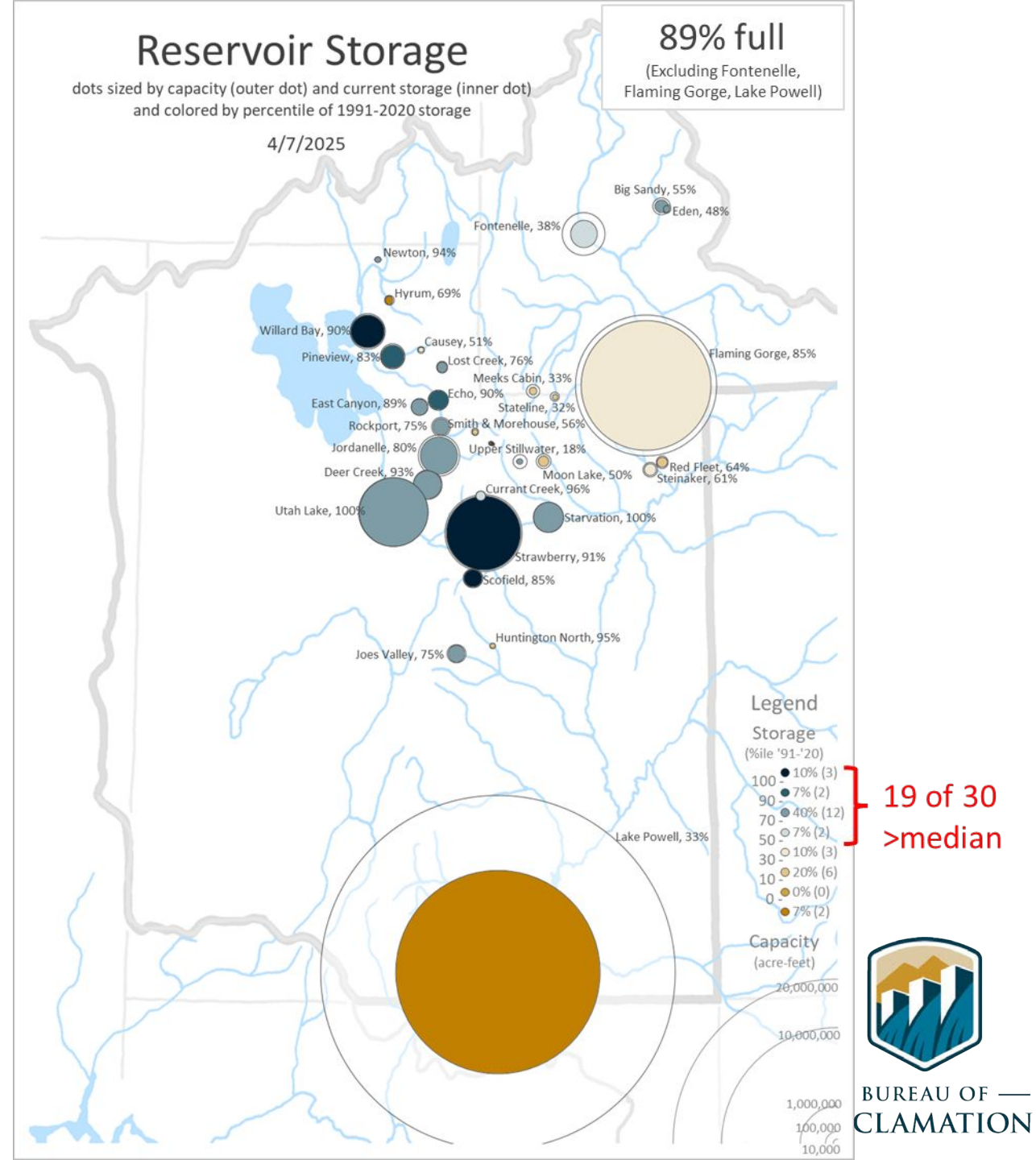




Agency - Division of Water Resources
 Presenter - Laura Haskell

Reservoir Levels

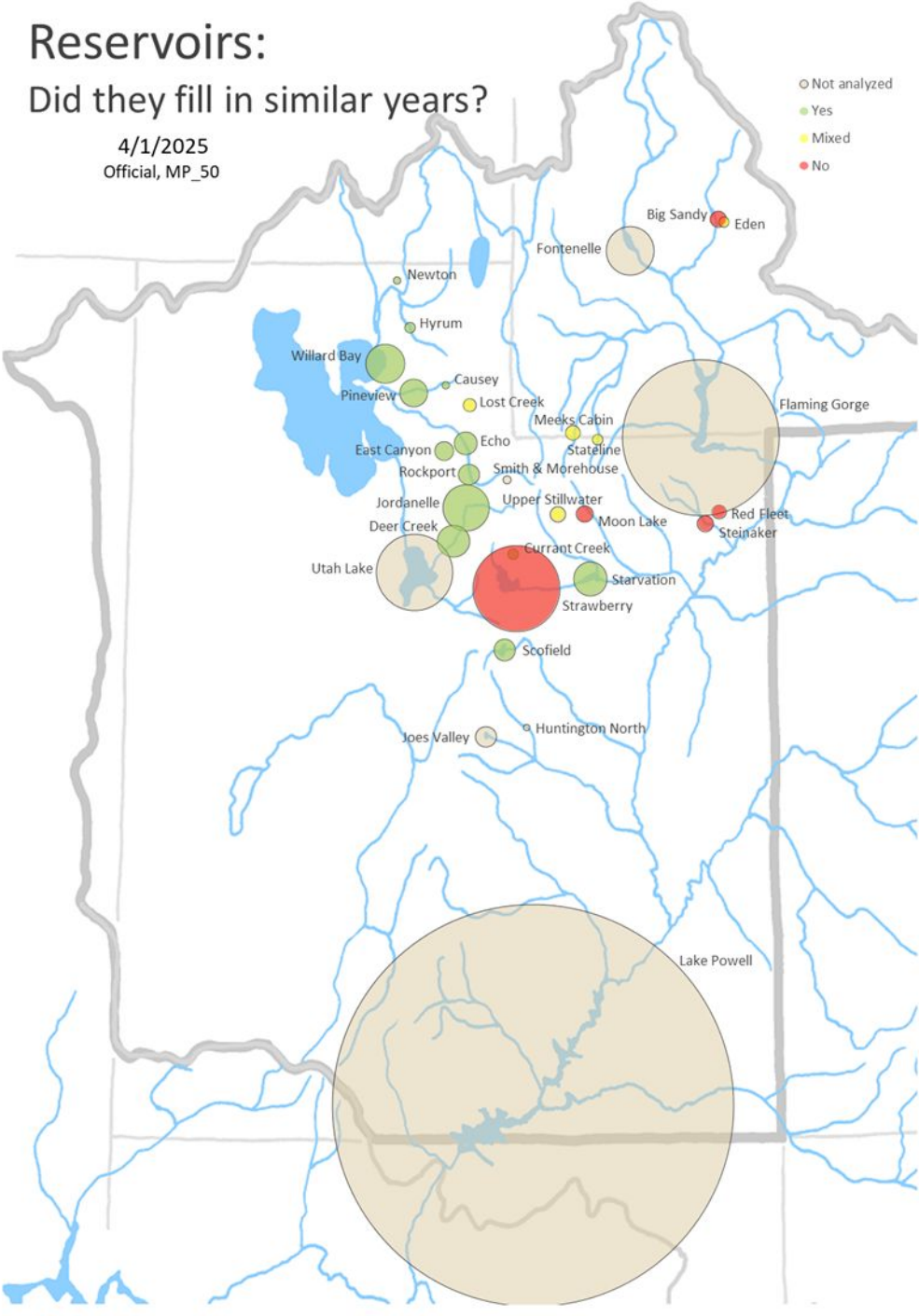
- **Overall reservoir storage is at 89% full**
(Excluding Powell, Flaming Gorge, Fontenelle)
 - up ~0.7% since Mar 24 (88%)
 - ~13% higher than the 21-year average (~75%)
 - about the same as last year (~89%)
- **Individual reservoirs range from 32-100% full**
 - 19/30 are above the 30-year median
 - low in the eastern Uinta basin and low at Lake Powell, otherwise in good shape
- **Outlook**
 - planning for runoff
 - minimum releases,
 - some extra: Newton, Pineview, East Canyon, Jordanelle, Utah Lake, Starvation, Scofield
 - storage gradually increasing
 - reservoir fill forecast...



Reservoir Levels

Reservoirs: Did they fill in similar years?

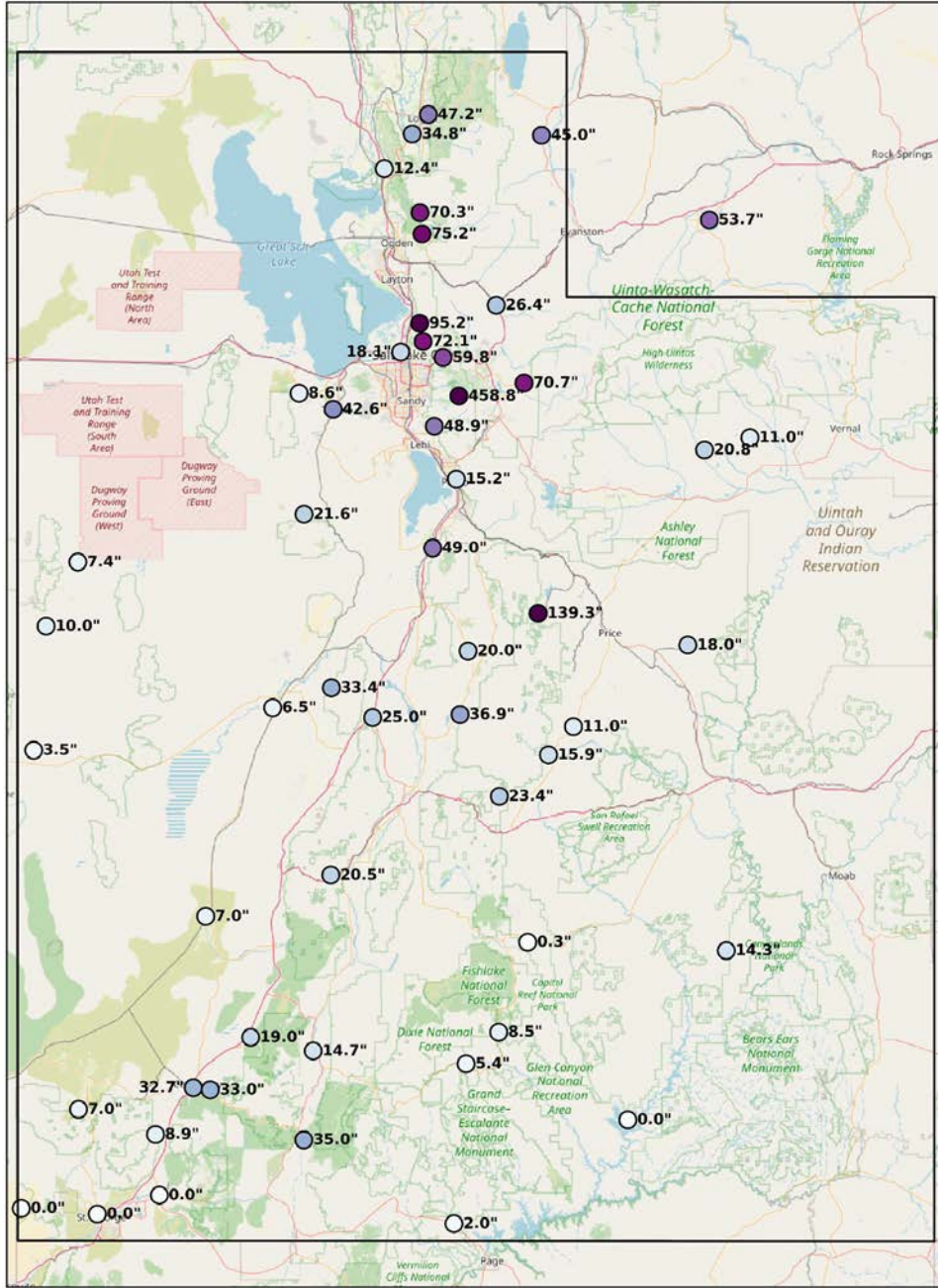
4/1/2025
Official, MP_50



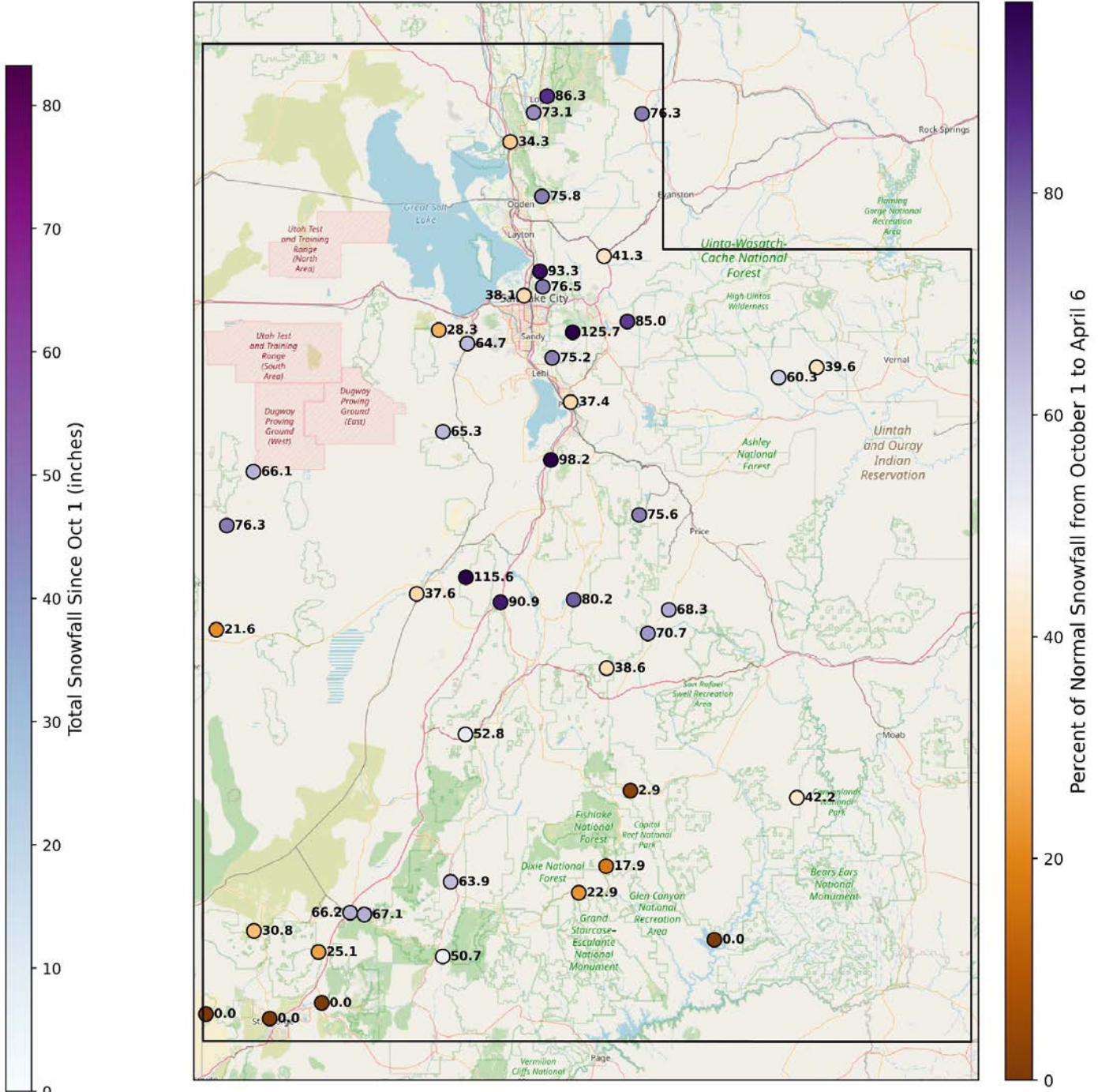
Agency - BOR
Presenter - Gary Henrie



NWS Network Snow Since Oct 1

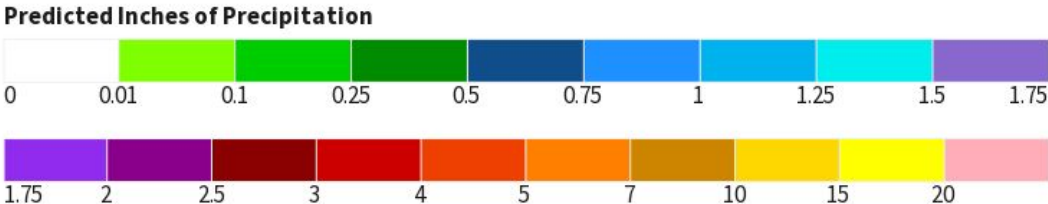
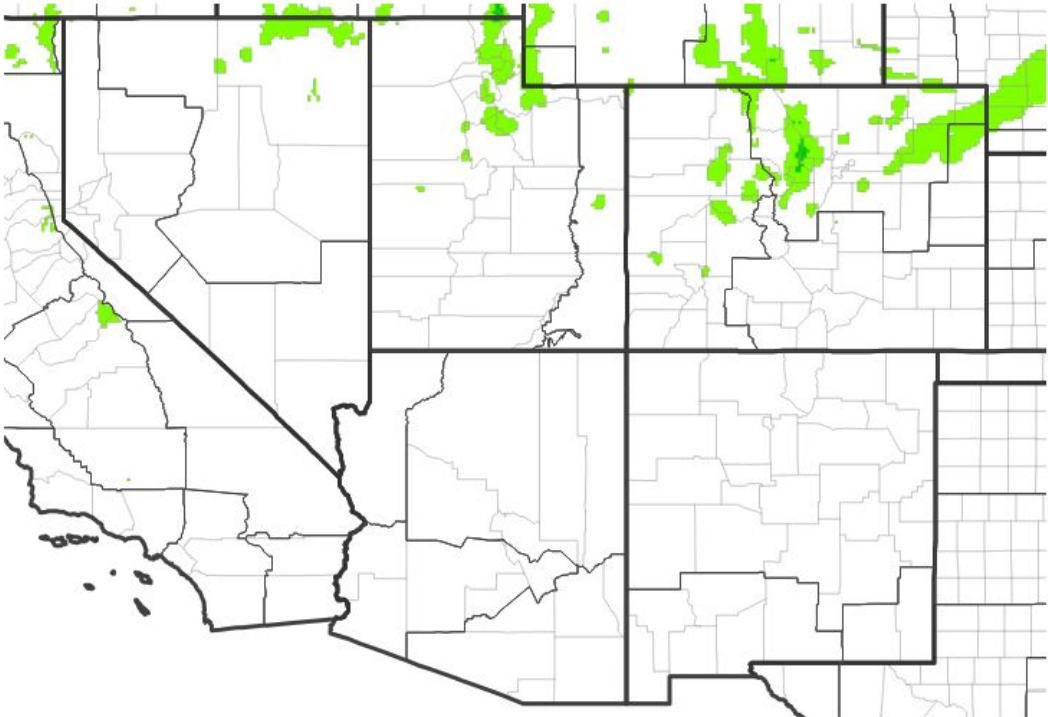


Percent of Normal Snowfall from October 1 to April 6



Weather Forecast Office Utah Day 1-7 Outlook

7-Day Quantitative Precipitation Forecast for April 8, 2025–April 15, 2025



Source(s): National Weather Service Weather Prediction Center; image courtesy of Drought.gov Last Updated: 04/08/25

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

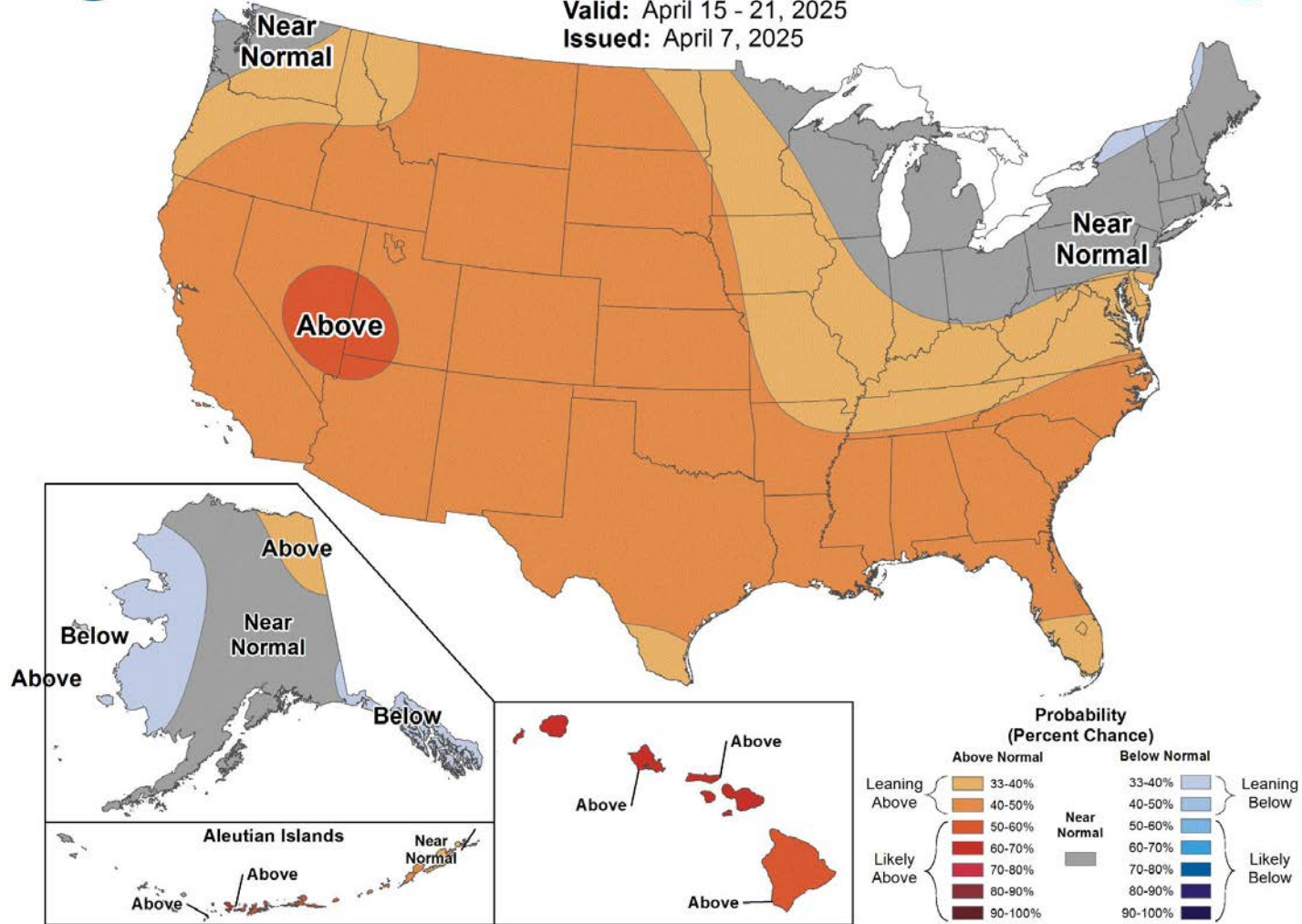
Climate Prediction Center 8 to 14 Day Outlooks - Temperature



8-14 Day Temperature Outlook



Valid: April 15 - 21, 2025
Issued: April 7, 2025



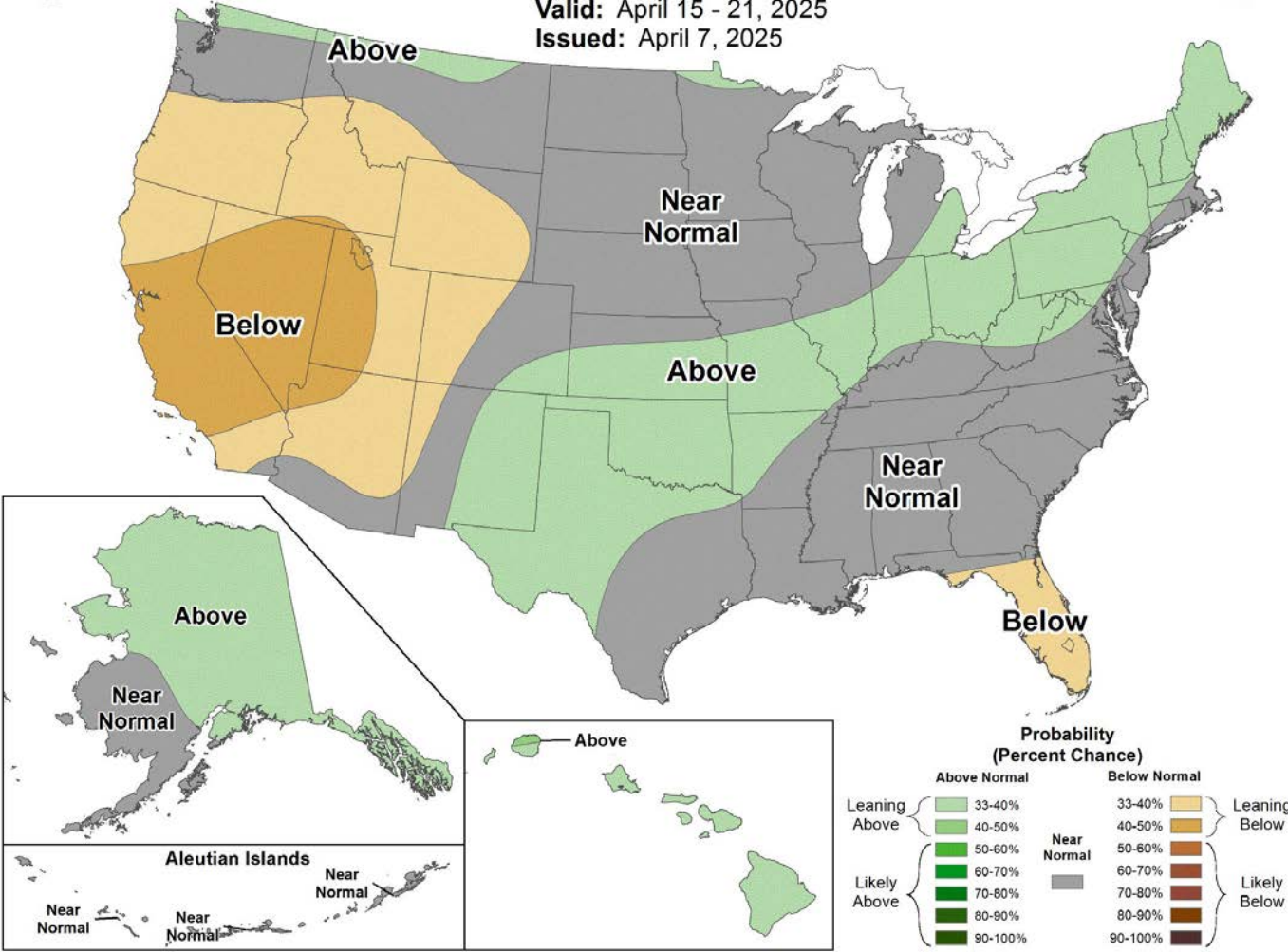
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



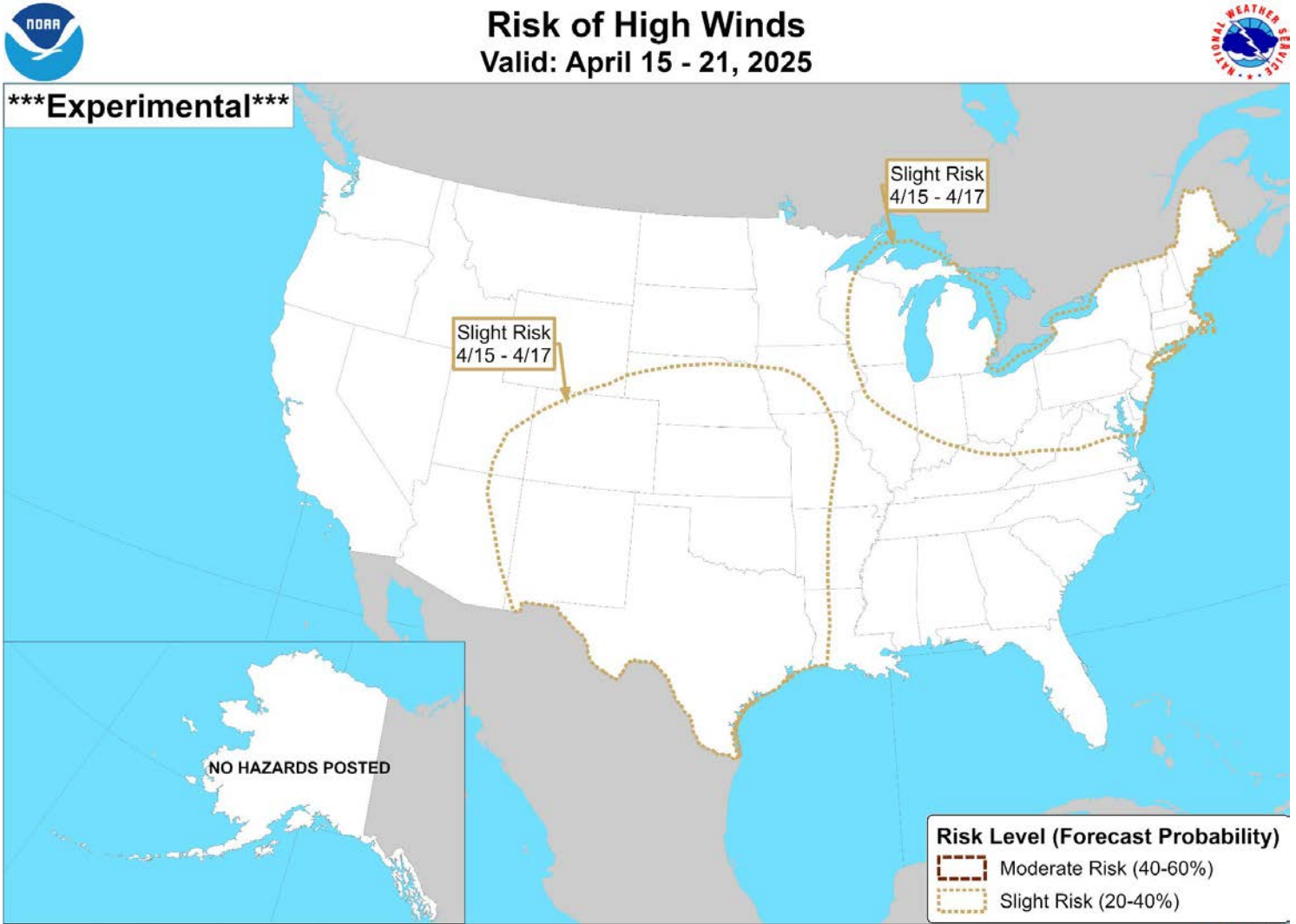
8-14 Day Precipitation Outlook



Valid: April 15 - 21, 2025
Issued: April 7, 2025



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



Climate Prediction Center

Released: April 7, 2025 3:00 PM EDT

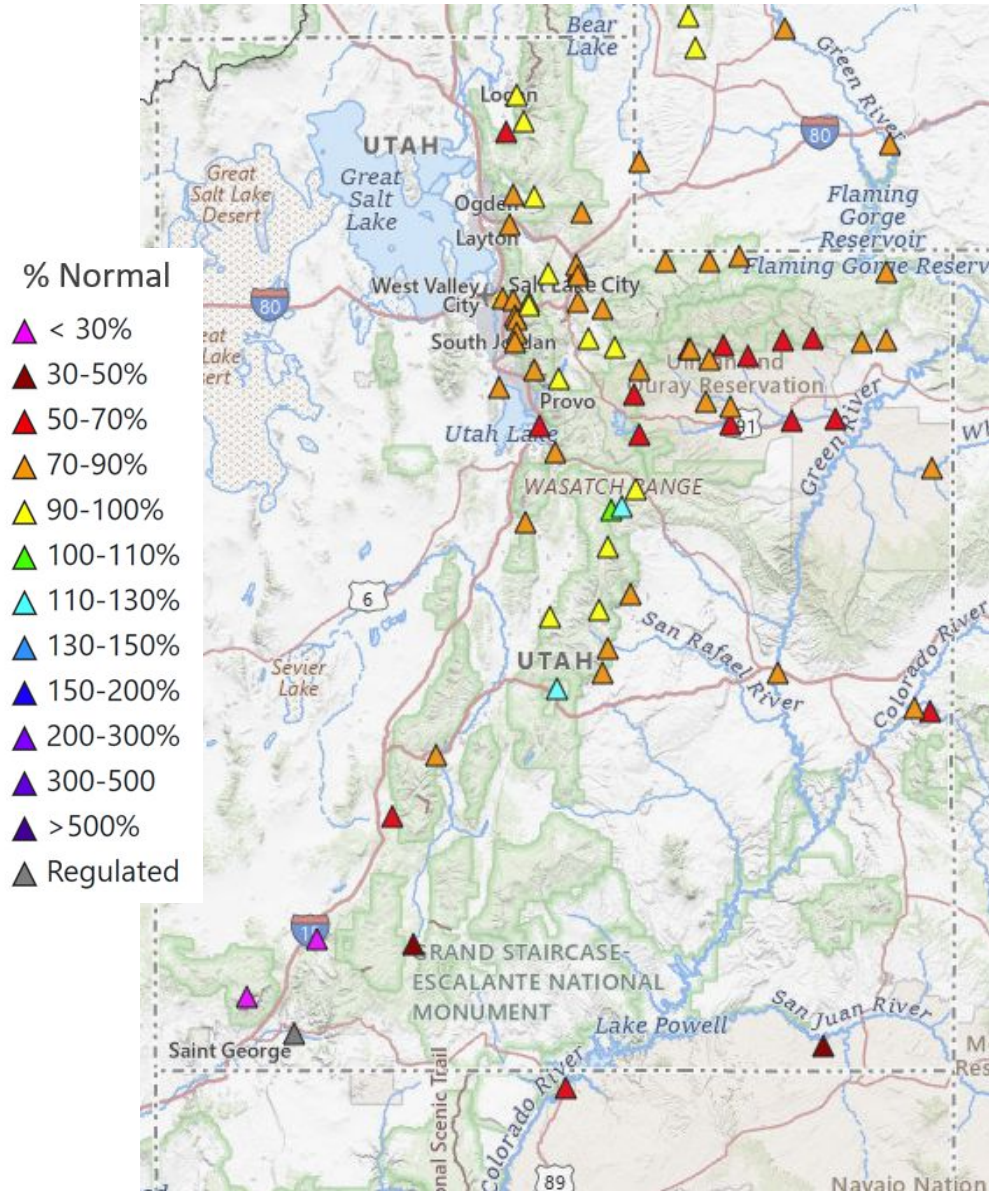
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www.cpc.ncep.noaa.gov

Agency - National Weather Service Weather Forecast Office

Presenter - Christine Kruse

April 1 Water Supply Forecasts



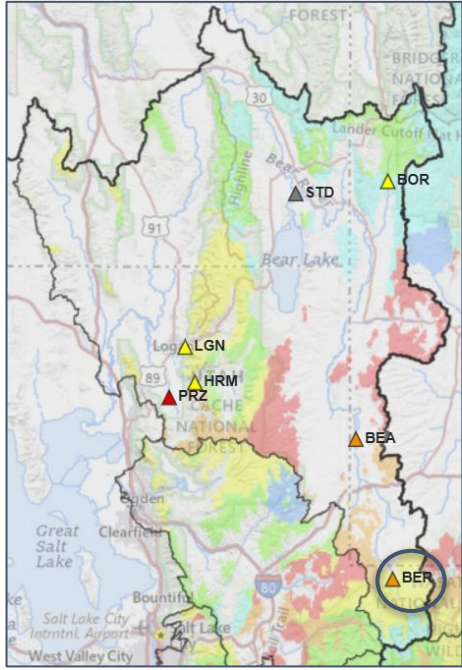
Colorado Basin River Forecast Center Water Supply Forecasts April 1, 2025			
UPPER COLORADO RIVER BASIN			
Basin	Volume (KAF)	%Normal (1991-2020)	Period
Lake Powell	4300	67	Apr-Jul
Green River Basin			
Green-Flaming Gorge Reservoir	770	80	Apr-Jul
Yampa-Deerlodge	1120	94	Apr-Jul
Duchesne-Tabiona	83	81	Apr-Jul
Colorado River Headwaters			
Colorado-Kremmling	870	100	Apr-Jul
Eagle-Gypsum	310	93	Apr-Jul
Roaring Fork-Glenwood Springs	540	82	Apr-Jul
Colorado-Cameo	2050	90	Apr-Jul
Southwest Colorado			
Gunnison-Blue Mesa Reservoir	540	85	Apr-Jul
Dolores-McPhee Reservoir	141	55	Apr-Jul
San Juan-Navajo Reservoir	300	48	Apr-Jul
Animas-Durango	270	70	Apr-Jul
LOWER COLORADO RIVER BASIN			
Virgin-Virgin (*Regulated)	22	39	Apr-Jul
Little Colorado-Chevelon Creek	0.14	1	Jan-May
Verde-Above Horseshoe Dam	51	33	Jan-May
Salt-Roosevelt	38	15	Jan-May
Upper Gila-San Carlos Reservoir	11.1	15	Jan-May
GREAT BASIN			
Bear-UT/WY State Line	91	83	Apr-Jul
Weber-Oakley	88	79	Apr-Jul
Big Cottonwood Creek	29	85	Apr-Jul
Provo-Woodland	87	91	Apr-Jul
Sevier-Hatch	16.0	30	Apr-Jul

Apr-Jul runoff volumes as a percent of the 1991-2020 average.
Jan-May runoff volumes as a percent of the 1991-2020 median.

Water supply forecasts are generally below to well below normal.

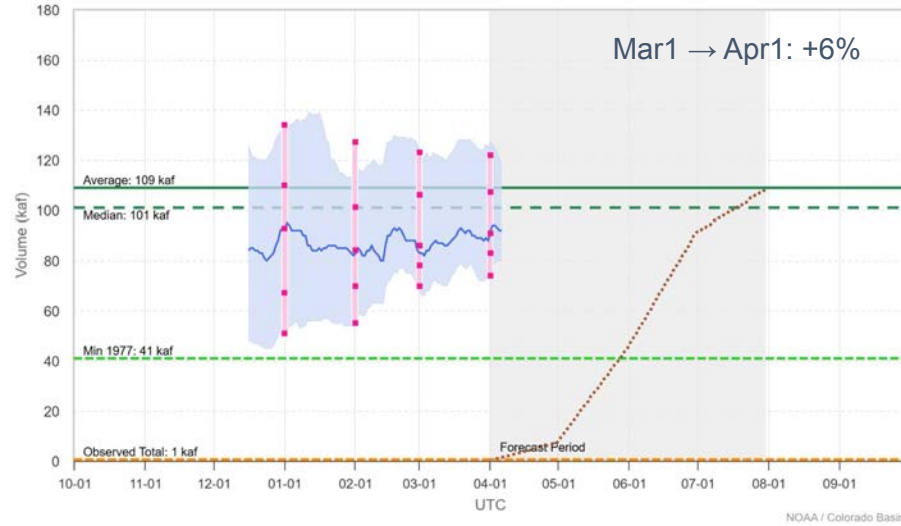
Forecasts more favorable in areas with:
-better soil moisture conditions
-better snowpack conditions

Bear and Weber Basins



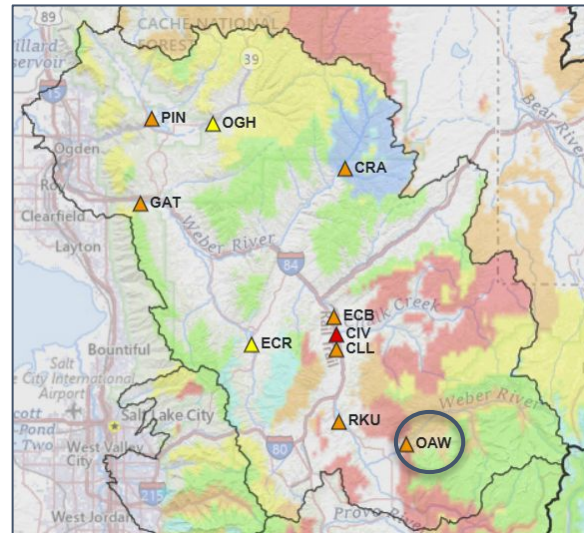
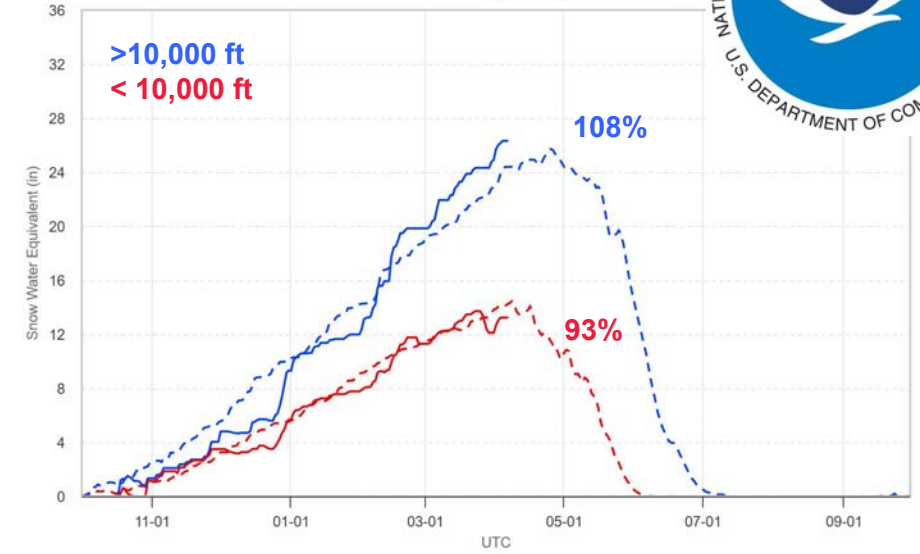
2025 Water Supply Forecast - Bear - Utah-Wyoming State Line, Nr (BERU1)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2025-04-01): 91 kaf (83% Avg, 90% Med), (31% of Yrs Below Fcst, 57 Highest Flow / 82 Tot Yrs)
 ESP 50% Fcst (2025-04-06): 92 kaf (85% Avg, 91% Med), (32% of Yrs Below Fcst, 56 Highest Flow / 82 Tot Yrs)
 Observed Volume: 0.59 kaf (1% Average, 1% Median)



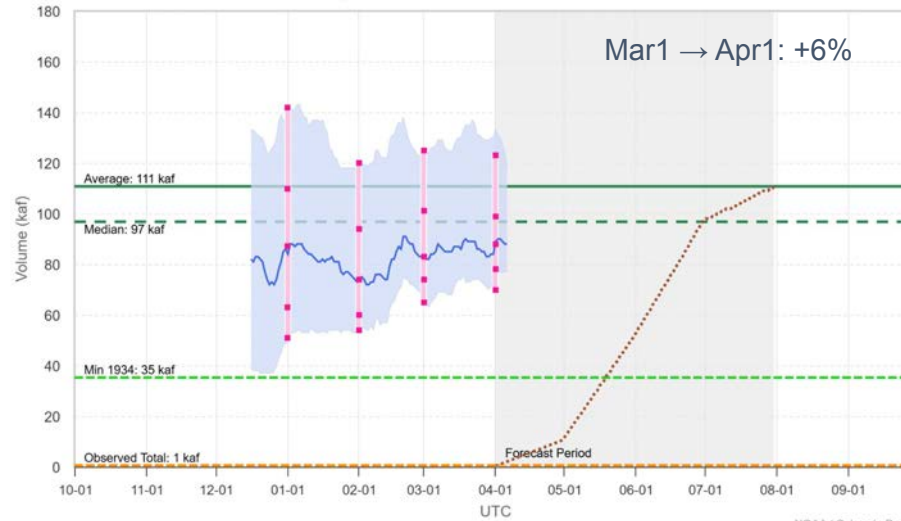
Model Snow Plot - Bear - Utah-Wyoming State Line, Nr

Created: 2025-04-07 13:21Z



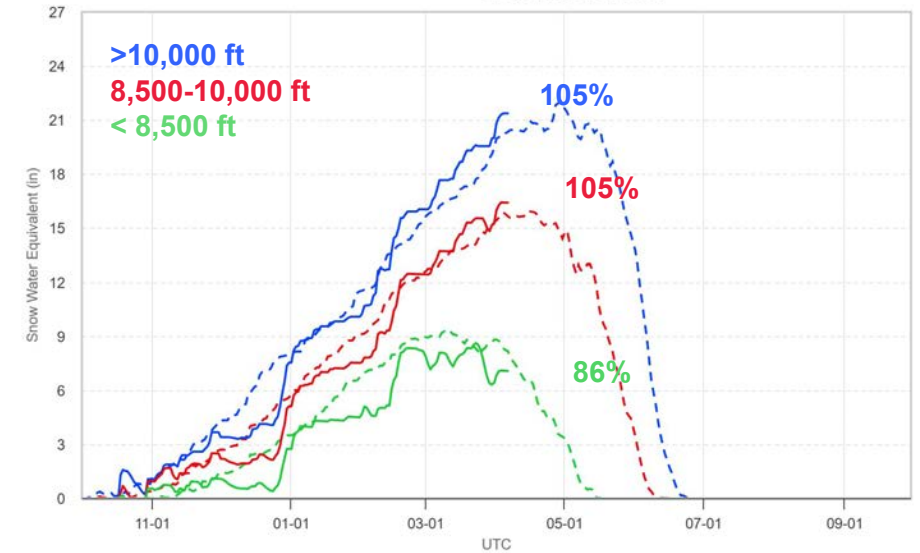
2025 Water Supply Forecast - Weber - Oakley, Nr (OAWU1)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2025-04-01): 88 kaf (79% Avg, 91% Med), (21% of Yrs Below Fcst, 95 Highest Flow / 119 Tot Yrs)
 ESP 50% Fcst (2025-04-06): 88 kaf (79% Avg, 90% Med), (21% of Yrs Below Fcst, 95 Highest Flow / 119 Tot Yrs)
 Observed Volume: 0.82 kaf (1% Average, 1% Median)

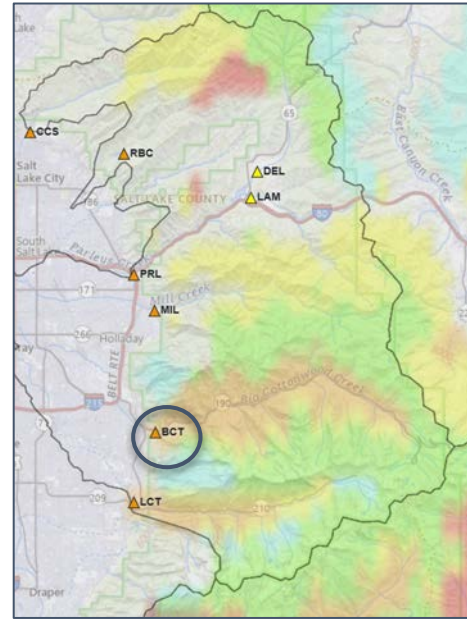


Model Snow Plot - Weber - Oakley, Nr (OAWU1) - NOAA/CBRFC

Created: 2025-04-07 13:26Z



Big Cottonwood Creek and Provo River Basins



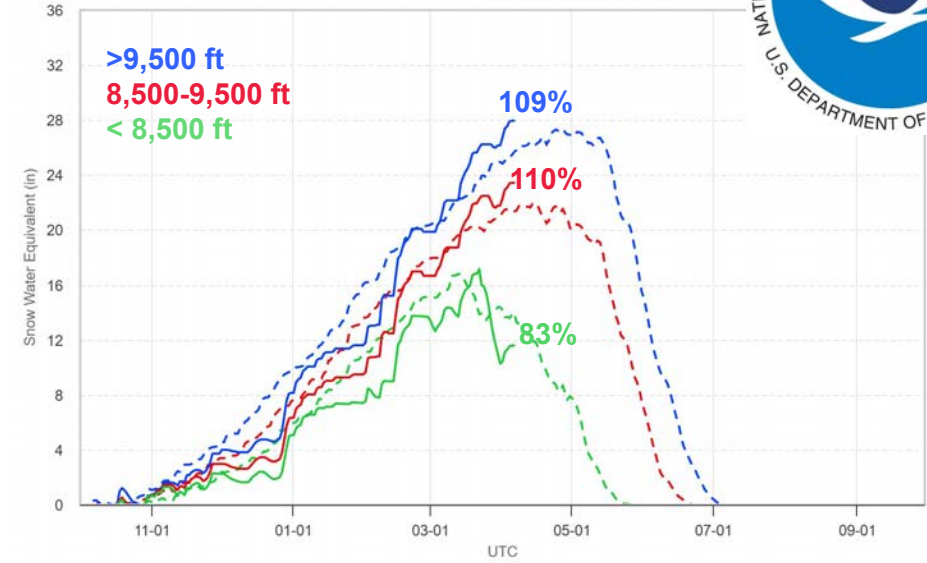
2025 Water Supply Forecast - Big Cottonwood Ck - Salt Lake City, Nr (BCTU1)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2025-04-01): 29 kaf (85% Avg, 100% Med), (32% of Yrs Below Fcst, 64 Highest Flow / 94 Tot Yrs)
 ESP 50% Fcst (2025-04-06): 30 kaf (88% Avg, 104% Med), (39% of Yrs Below Fcst, 58 Highest Flow / 94 Tot Yrs)
 Observed Volume: 0.53 kaf (2% Average, 2% Median)



Model Snow Plot - Big Cottonwood Ck - Salt Lake City, Nr

Created: 2025-04-07 13:39Z



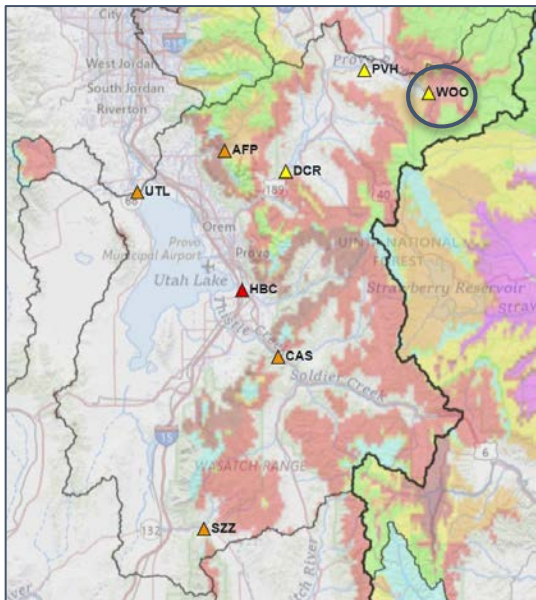
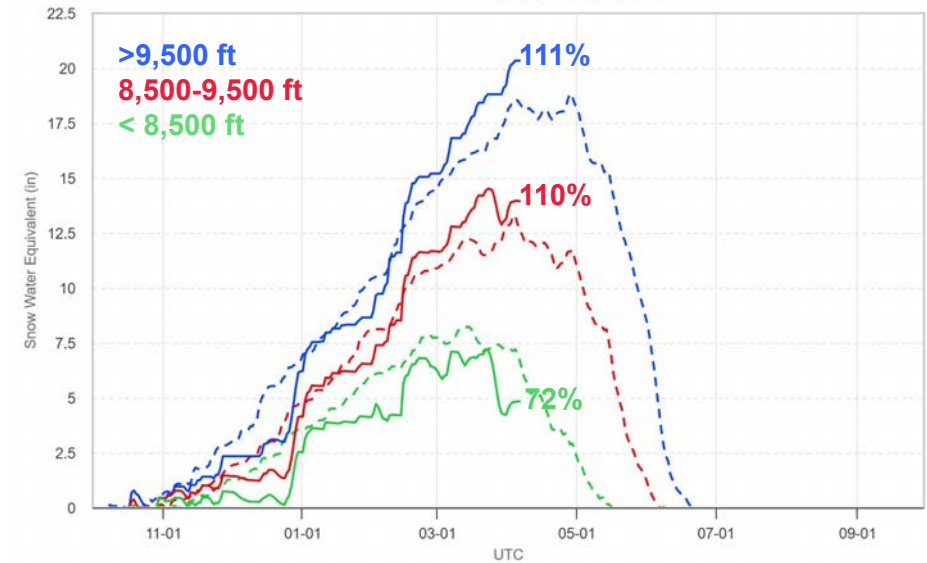
2025 Water Supply Forecast - Provo - Woodland, Nr (WOUU1)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2025-04-01): 87 kaf (91% Avg, 104% Med), (45% of Yrs Below Fcst, 34 Highest Flow / 60 Tot Yrs)
 ESP 50% Fcst (2025-04-06): 89 kaf (92% Avg, 105% Med), (45% of Yrs Below Fcst, 34 Highest Flow / 60 Tot Yrs)
 Observed Volume: 0.93 kaf (1% Average, 1% Median)



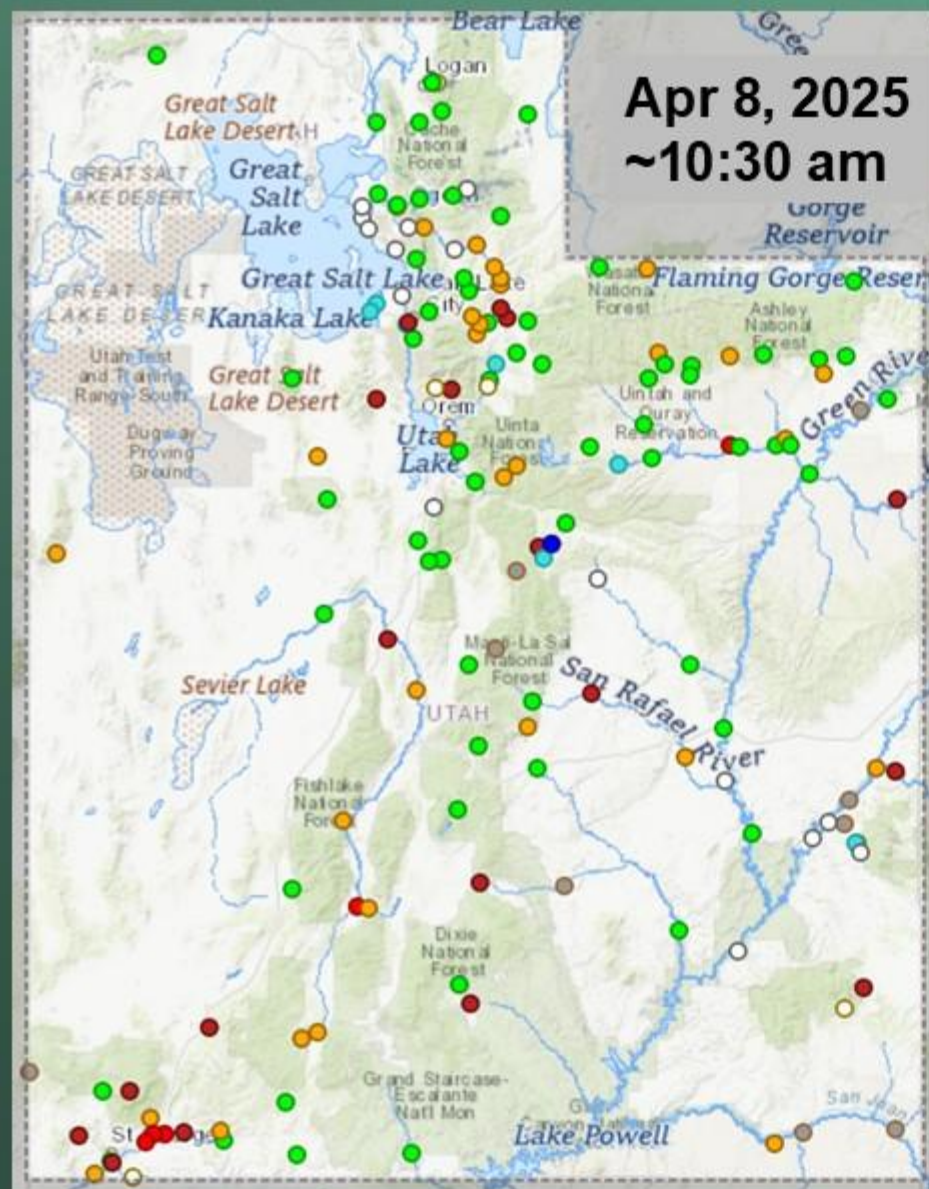
Model Snow Plot - Provo - Woodland, Nr (WOUU1) - NOAA/CBRFC

Created: 2025-04-07 13:42Z



Current Streamflow Conditions

Streamflow



Day-of-Year Status	Mar. 25	Apr 8
All-time high for this day-of-year	0.0%	0 0.0%
Much above normal for this day-of-year	2.5%	1 0.6%
Above normal for this day-of-year	5.7%	8 5.1%
Normal for this day-of-year	39.9%	66 41.8%
Below normal for this day-of-year	23.4%	31 19.6%
Much below normal for this day-of-year	5.7%	18 11.4%
All-time low for this day-of-year	0.6%	5 3.2%
Not ranked - insufficient record	13.3%	17 10.8%
Not ranked - no recent measurement	3.2%	6 3.8%
Not ranked - no measurement	3.8%	2 1.3%
Not ranked - stream not flowing	1.9%	4 2.5%

Streamflow: Status

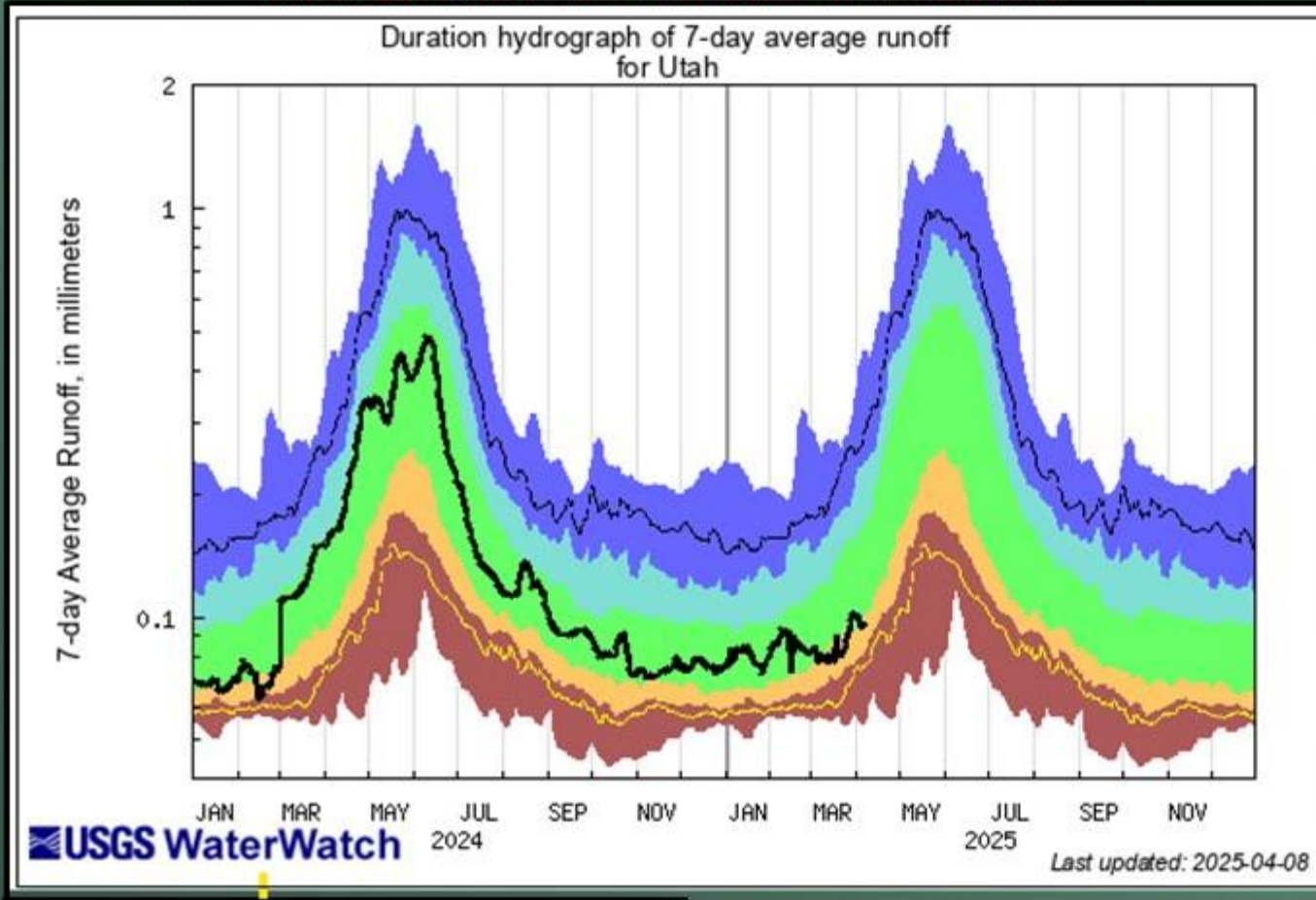
- Above flood stage
- All-time high for this day (100th percentile (maximum))
- Much above normal (>90th percentile)
- Above normal (76th – 90th percentile)
- Normal (25th – 75th percentile)
- Below normal (10th – 24th percentile)
- Much below normal (<10th percentile)
- All-time low for this day (0th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



Provisional data, subject to revision

Utah Area-Based Runoff Duration Hydrograph

For some streams, flow statistics may have been computed from mixed regulated and unregulated flows; this can affect depictions of flow conditions.



- ❑ 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.

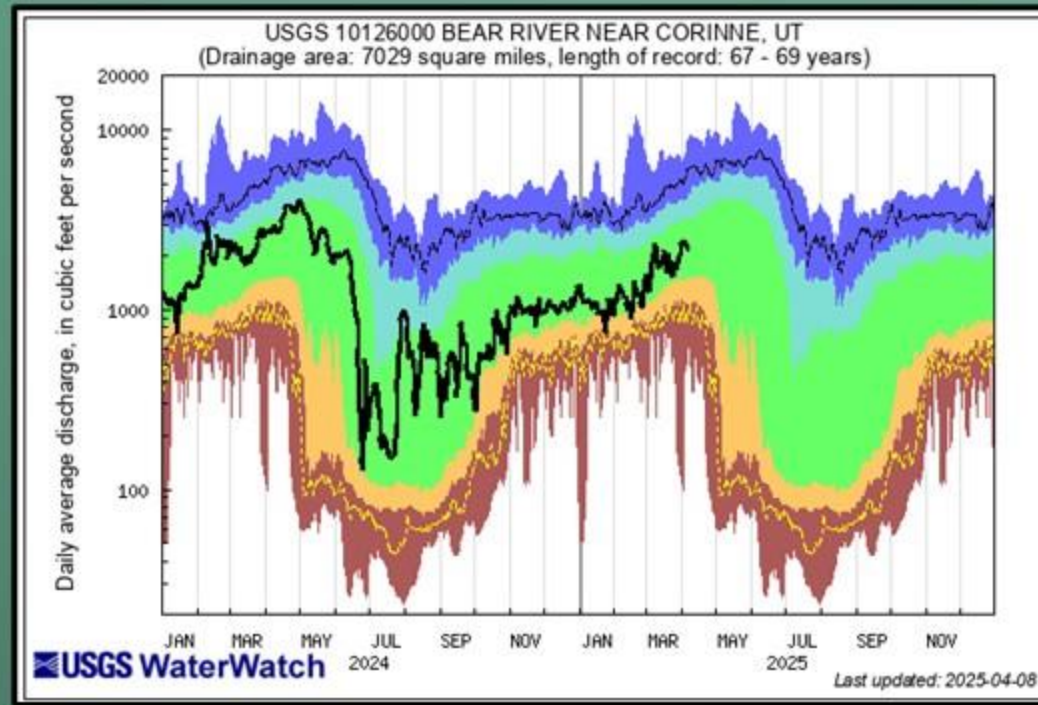
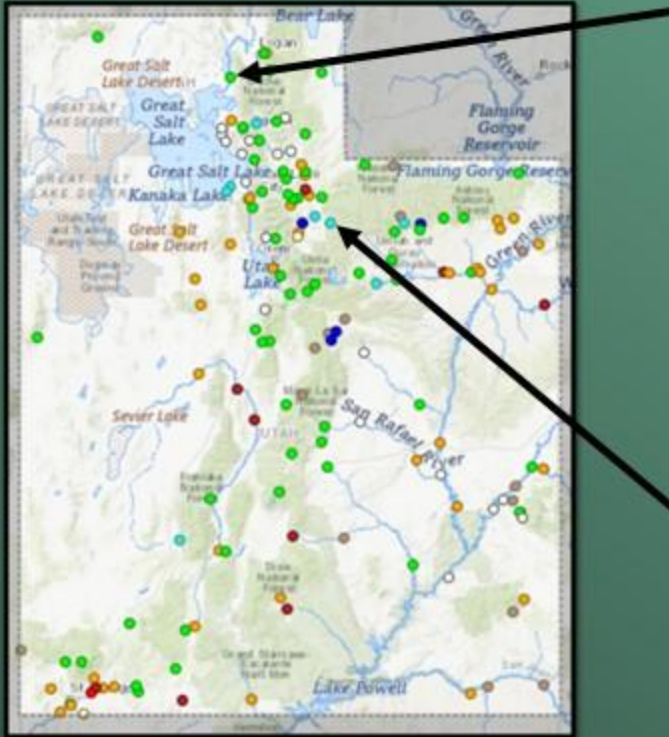
Streamflow

Explanation - Percentile classes

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

Provisional data, subject to revision

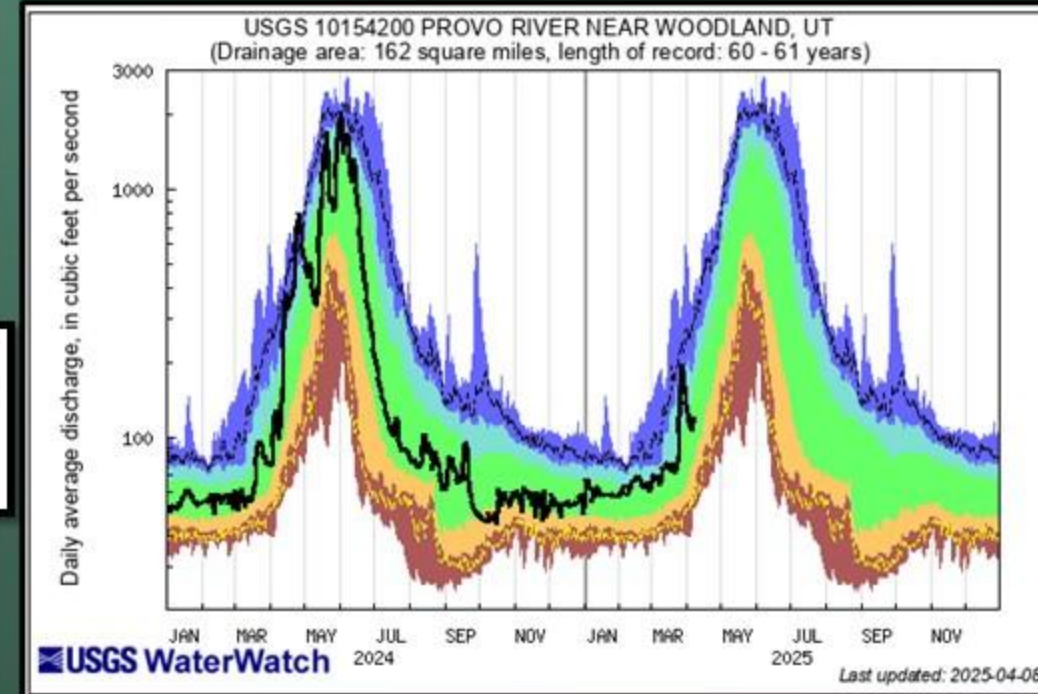
Streamflow at Selected Gages



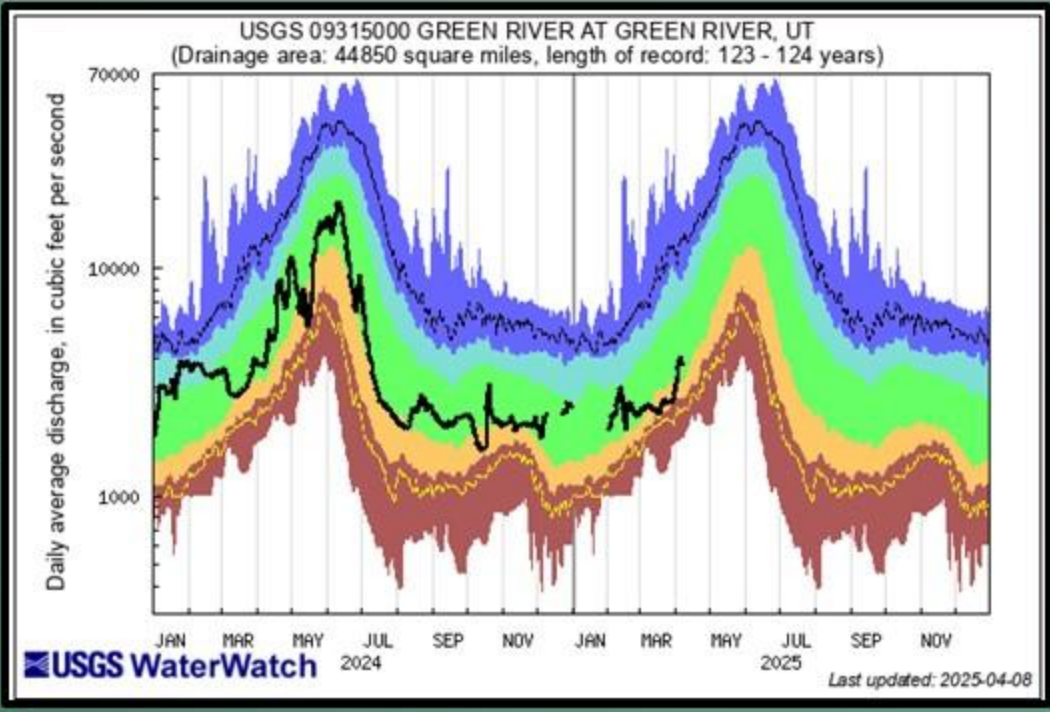
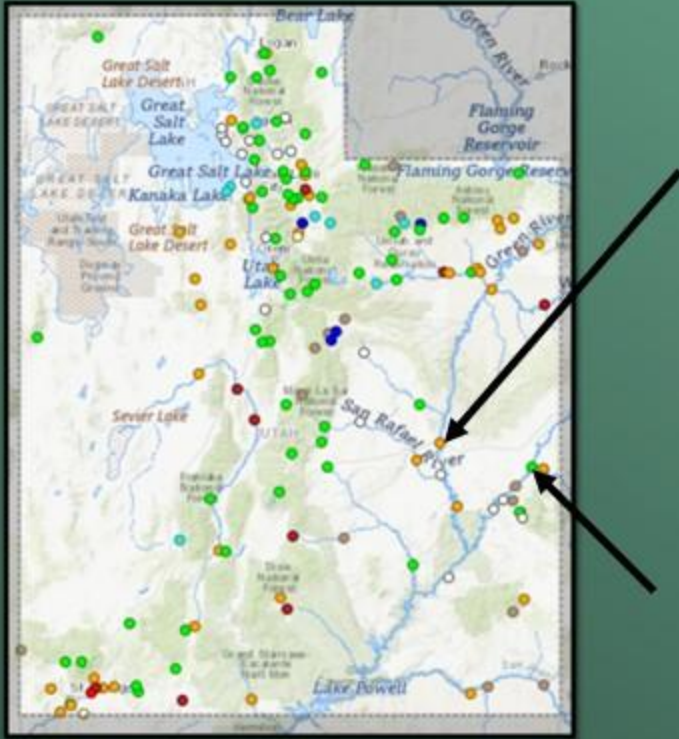
Streamflow

Explanation - Percentile classes

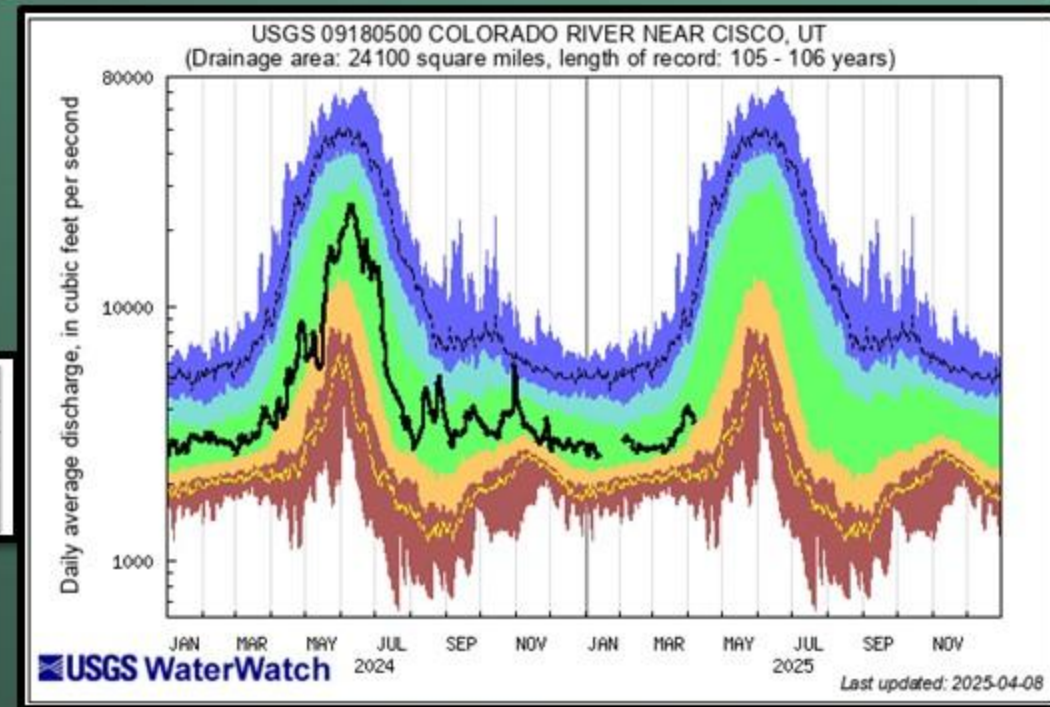
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile - highest	Flow
Much below Normal	Below normal	Normal	Above normal	Much above normal			



Streamflow at Selected Gages



Streamflow

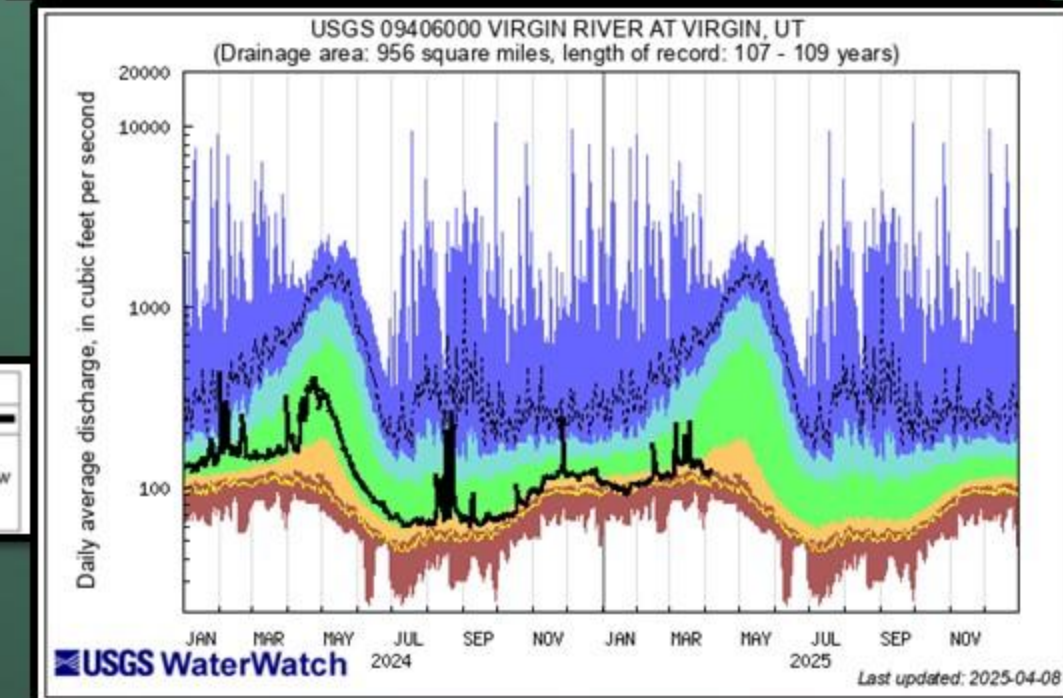
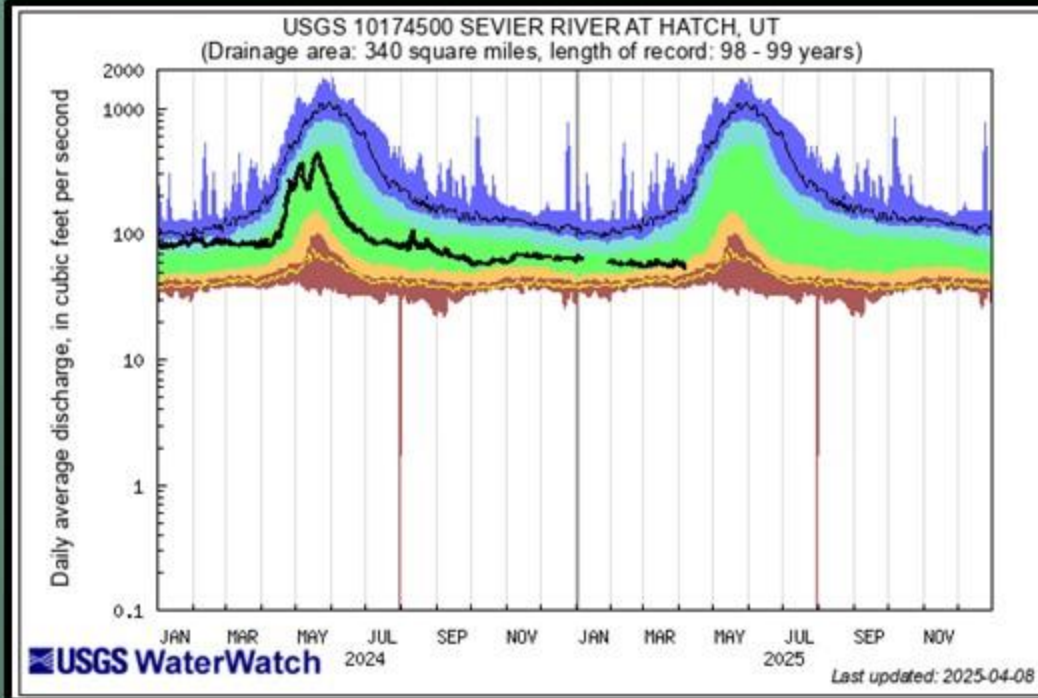
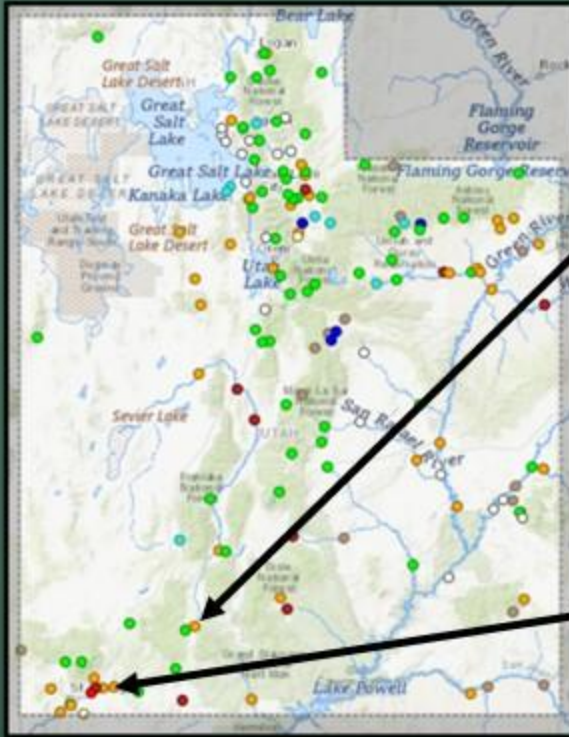


Explanation - Percentile classes

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



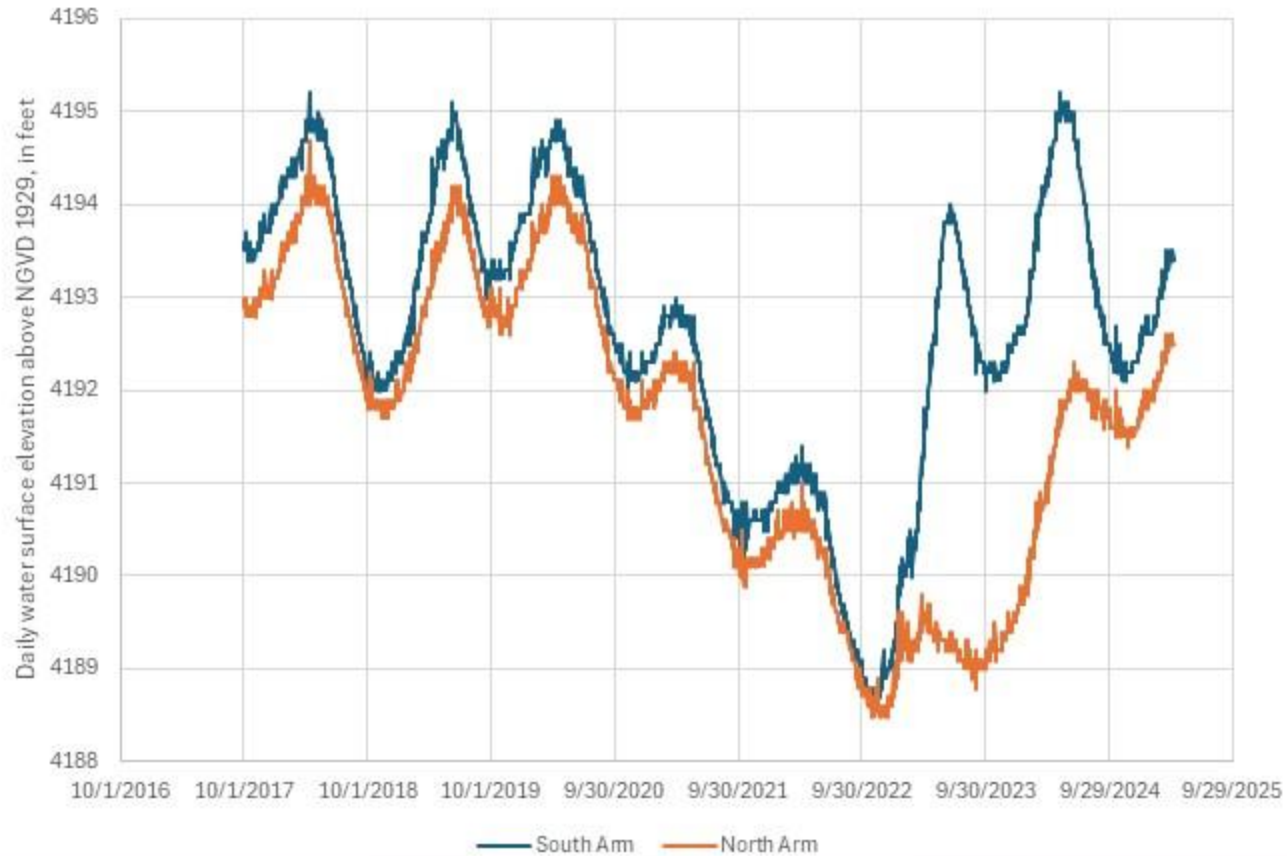
Explanation - Percentile classes

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

Great Salt Lake Water Surface Elevations

USGS 10010000 Great Salt Lake at Saltair Boat Harbor, UT; USGS 10010100 Great Salt Lake near Saline, UT



Daily Values 4/7/2025




- South Arm: 4,193.4'
 - Up 1.3' since seasonal low in Nov. 2024
- North Arm: 4,192.5'
 - Up 1.1' since seasonal low in Nov. 2024

GSL Elevation

U.S. Drought Monitor

[Current](#)[Maps](#)[Data](#)[Summary](#)[About](#)[Conditions & Outlooks](#)[Ag in Drought](#)[En Español](#)[NADM](#)

Intensity and Impacts

 None D0 (Abnormally Dry) D1 (Moderate Drought) D2 (Severe Drought) D3 (Extreme Drought) D4 (Exceptional Drought) No Data - Delineates dominant impacts

S - Short-term impacts, typically less than 6 months (agriculture, grasslands)

L - Long-term impacts, typically greater than 6 months (hydrology, ecology)

SL - Short- and long-term impacts

For local details and impacts, please contact your [State Climatologist](#) or [Regional Climate Center](#).

Map Download

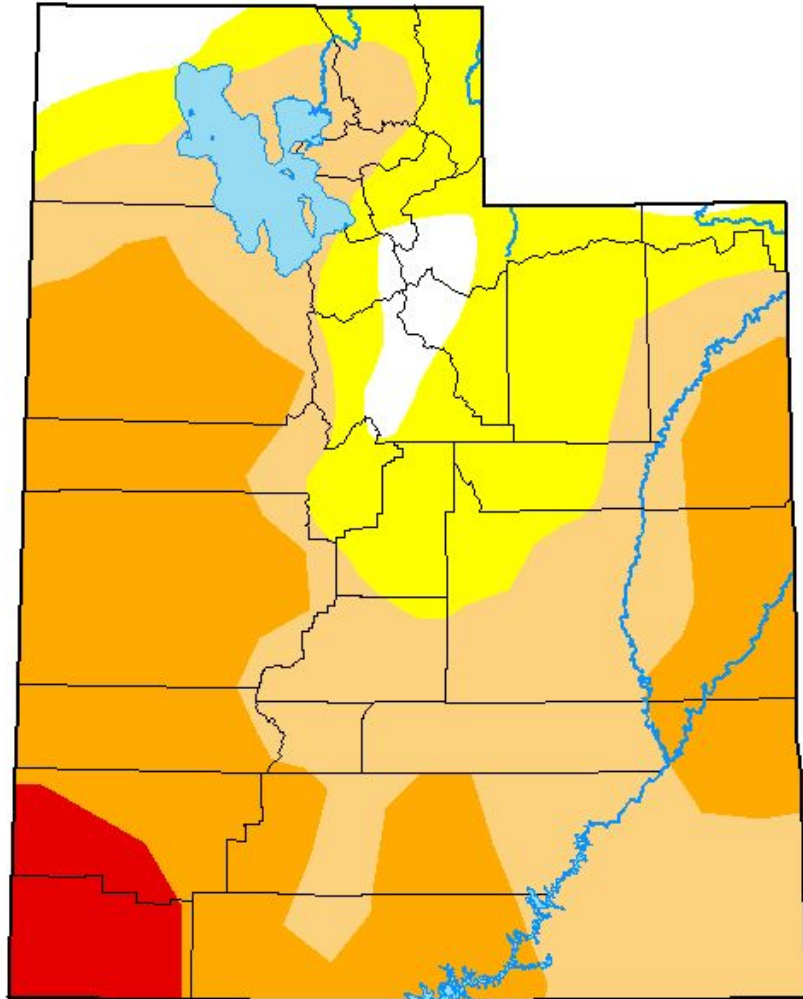
[United States and Puerto Rico \(Page 1\)](#)[Current Map ▾](#)[Previous Map ▾](#)[U.S. Affiliated Pacific Islands and Virgin Islands \(Page 2\)](#)[Current Map ▾](#)[Previous Map ▾](#)

How is drought affecting you?

You can submit a Condition Monitoring Observer Report (CMOR), including photos. Reporting regularly can help people see what normal, wet and dry conditions look like in your part of the country.







[Submit report](#)

U.S. Drought Monitor Utah



April 1, 2025
(Released Thursday, Apr. 3, 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

To report on conditions between meetings:

Submit a report on CMOR drought website

Email Lhaskell@utah.gov

email drought@utah.gov