



Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly



Thank you to our contributors



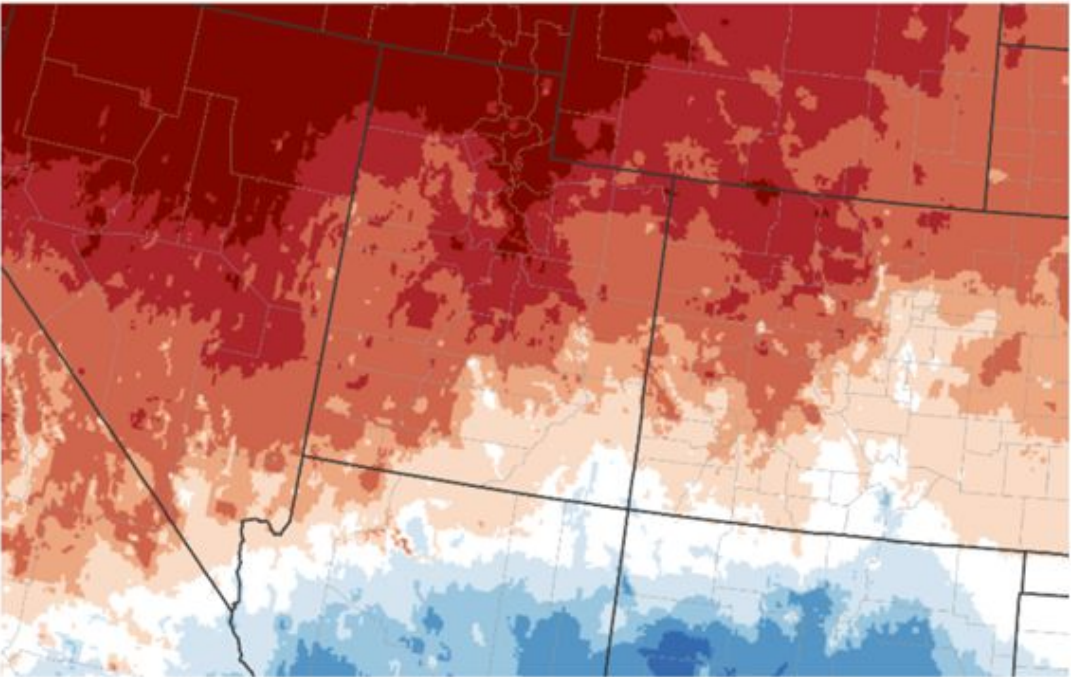


Utah Water Assessment & Conditions Monitoring Webinar

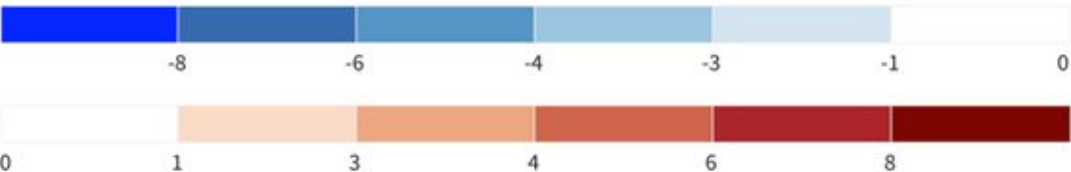
October 25, 2022

7-Day and 30-Day Temperature Anomaly

7-Day Departure from Normal Maximum Temperature (°F)



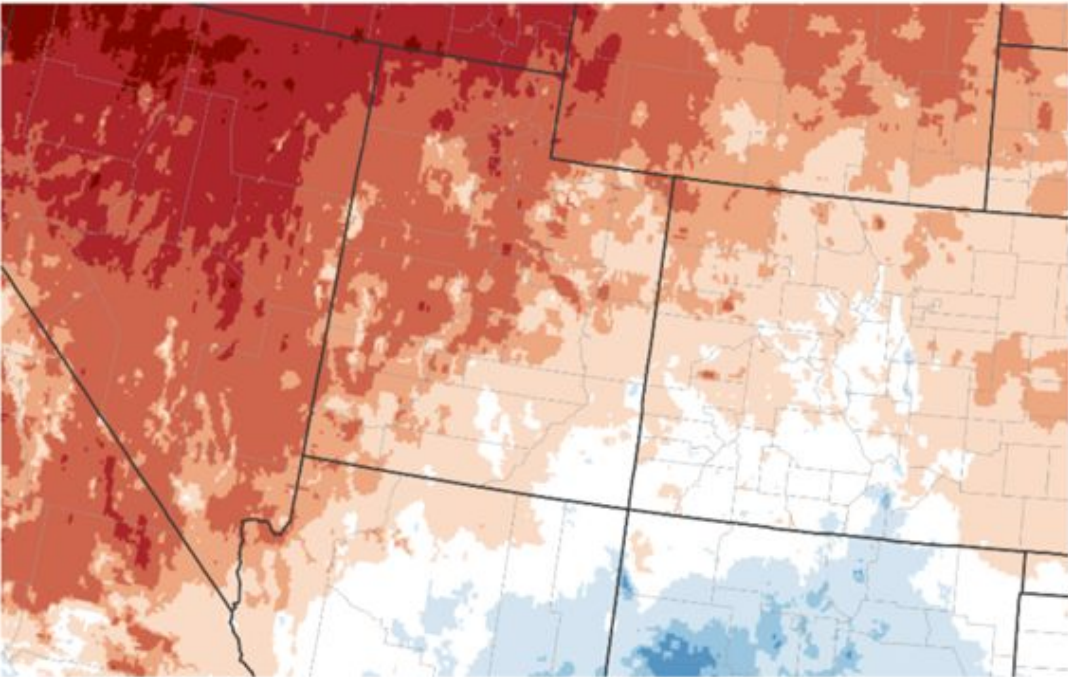
Departure from the 1991–2020 Normal Max Temperature (°F)



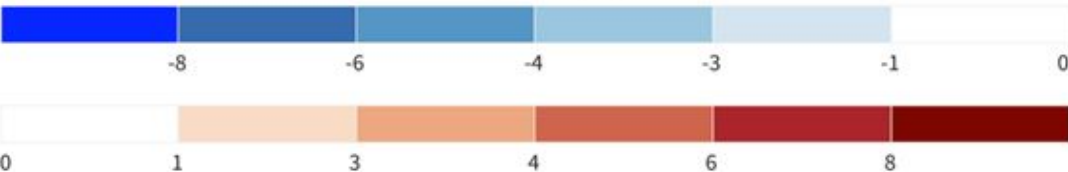
Source(s): UC Merced, Climate Engine
Data Valid - 10/22/22

Drought.gov

30-Day Departure from Normal Maximum Temperature (°F)



Departure from the 1991–2020 Normal Max Temperature (°F)



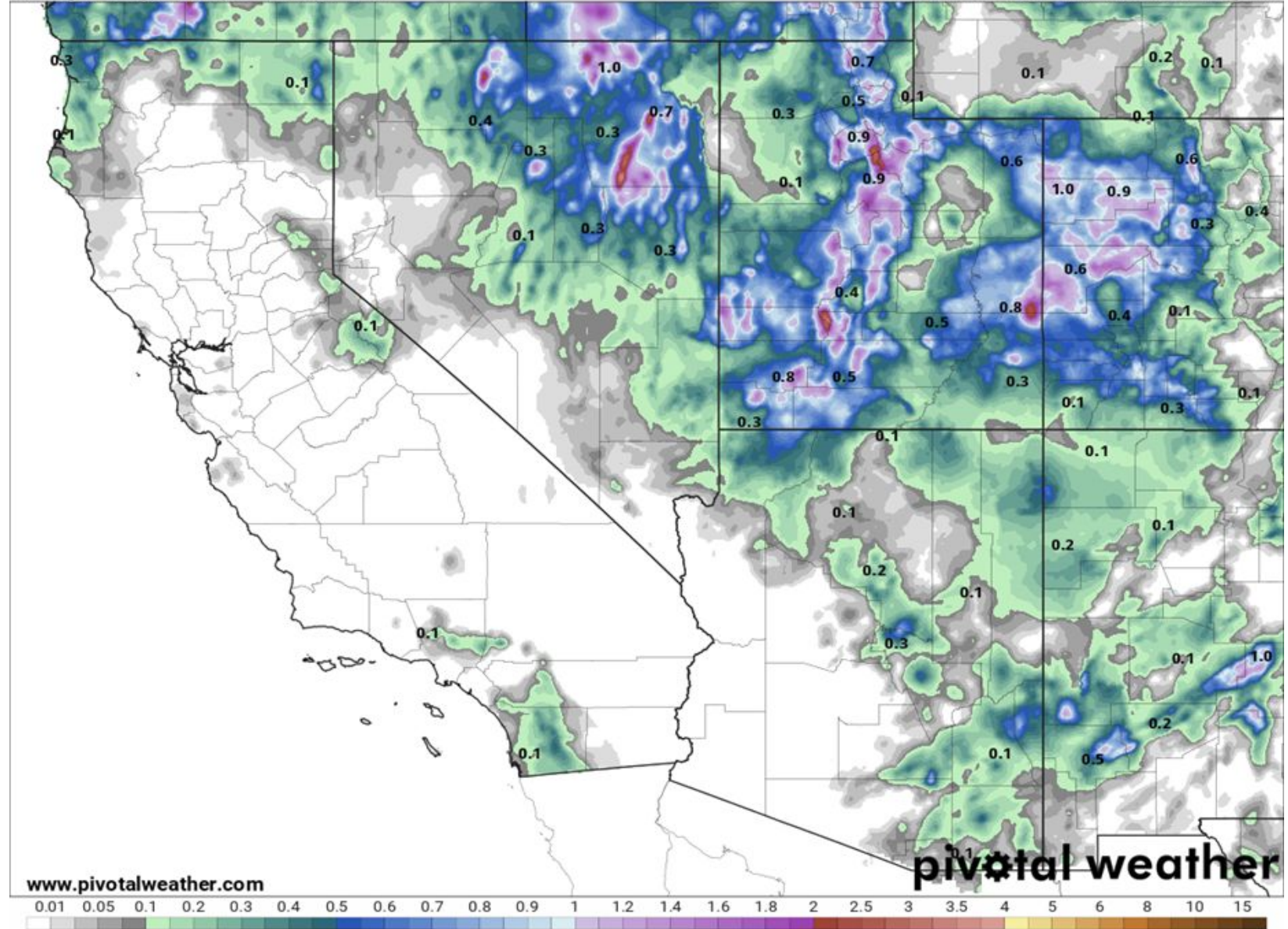
Source(s): UC Merced, Climate Engine
Data Valid - 10/22/22

Drought.gov

3-day Observed Precipitation

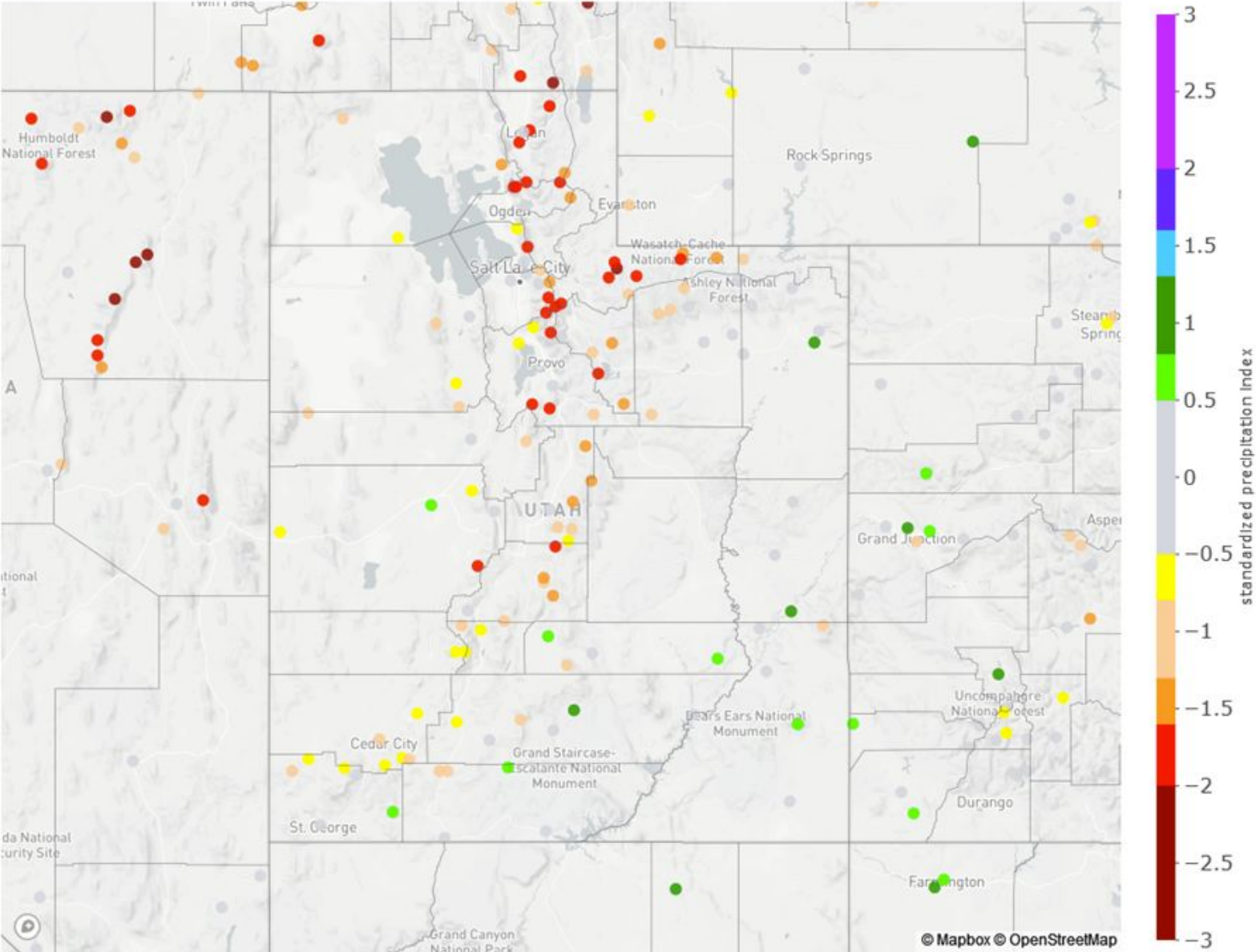
72-Hour Stage IV Precipitation Analysis (in)
Ending Monday, Oct. 24, 2022 at 5 a.m. PDT

Init: Mon 2022-10-24 12z NCEP Stage IV

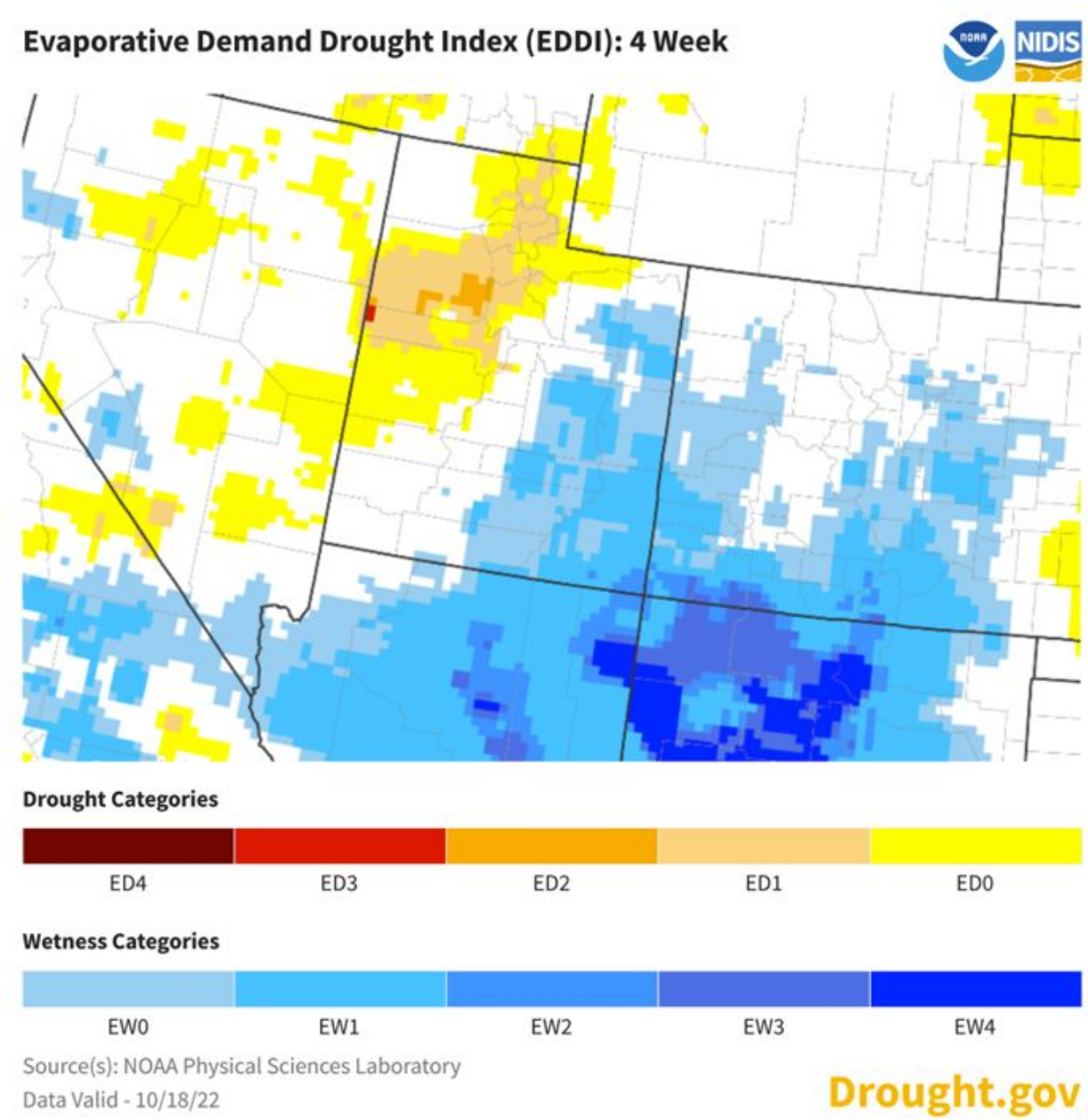


30-day SPI

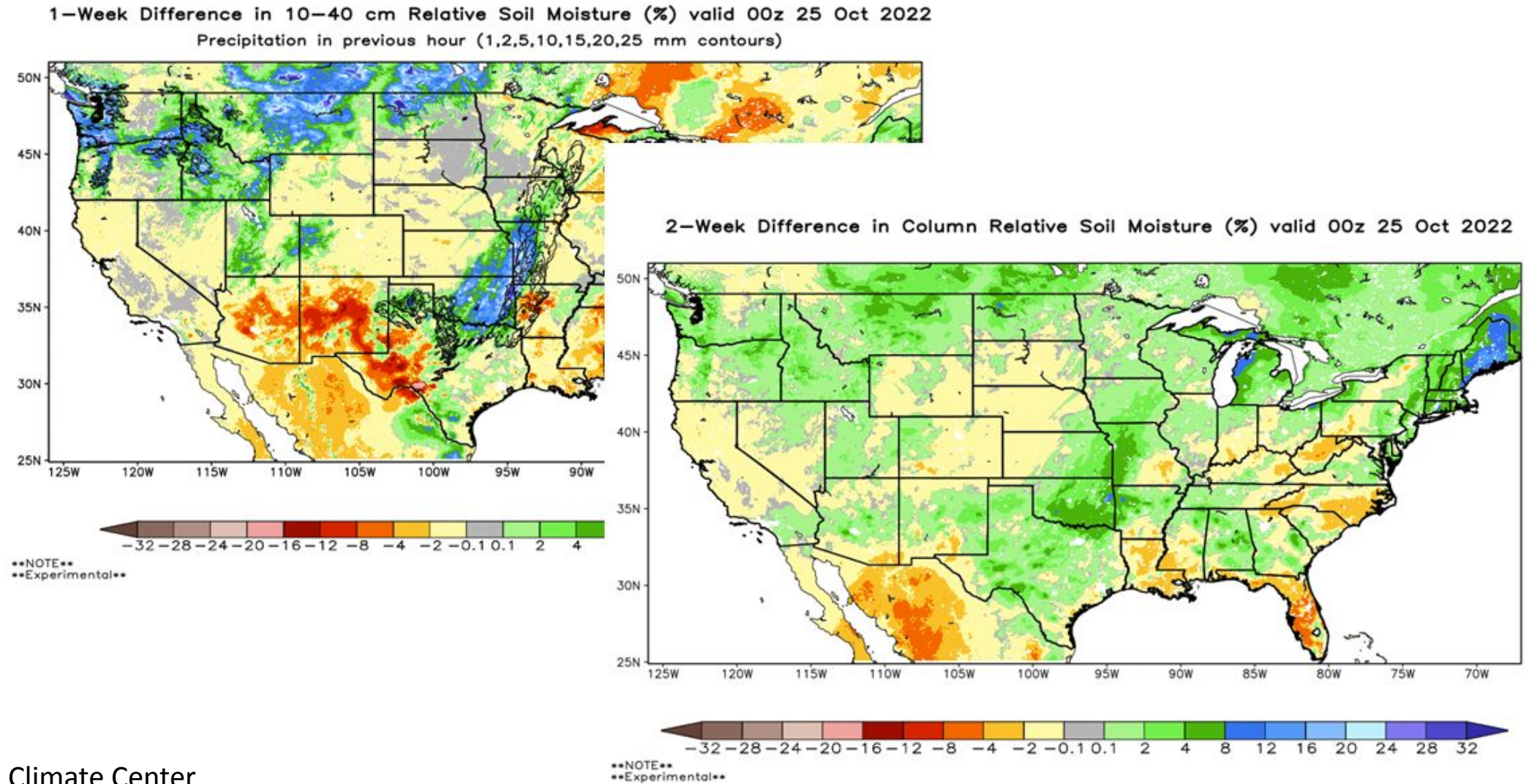
30-day Standardized Precipitation Index: 2022/09/24 - 2022/10/23



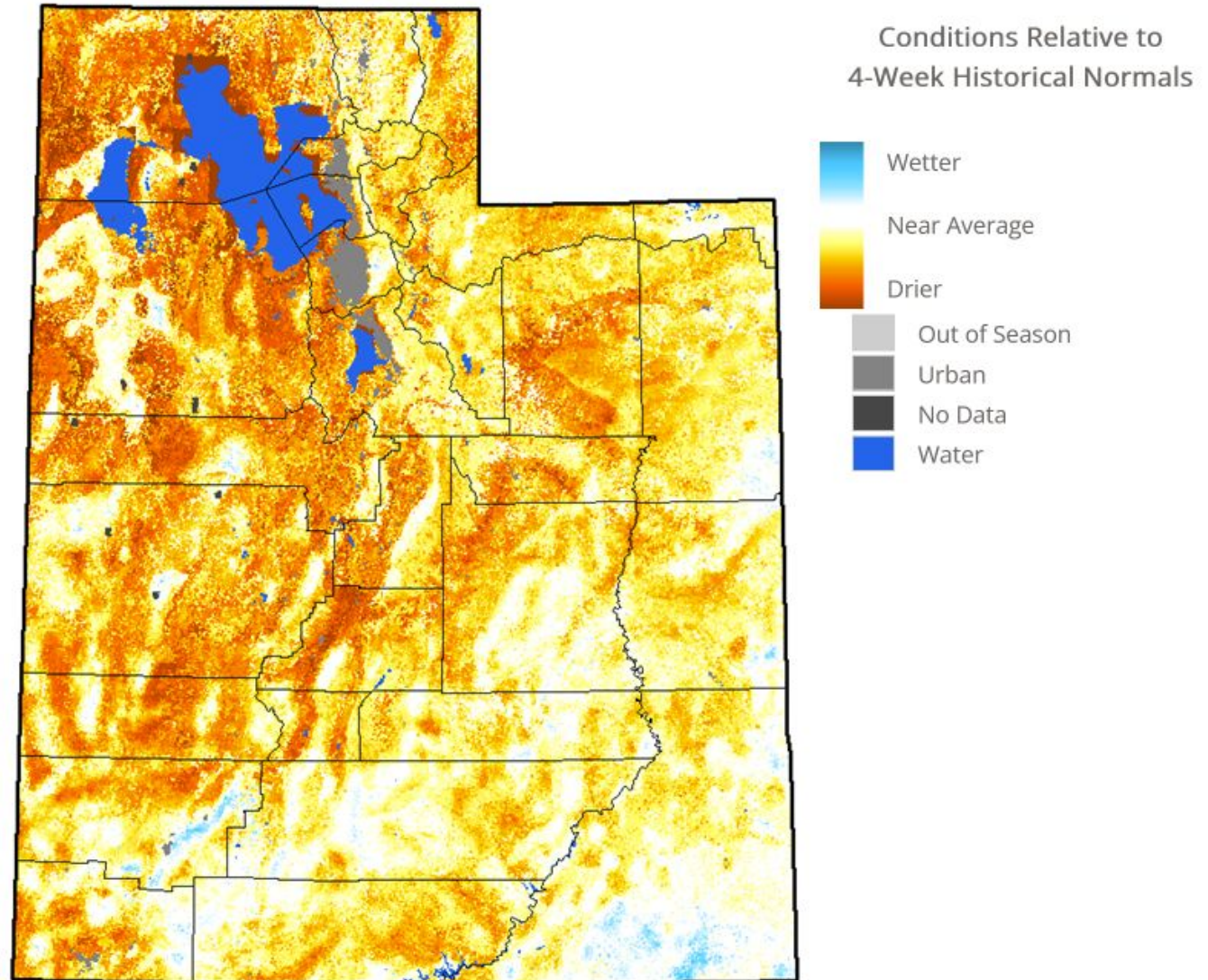
EDDI (4-week)



Change in Soil Moisture

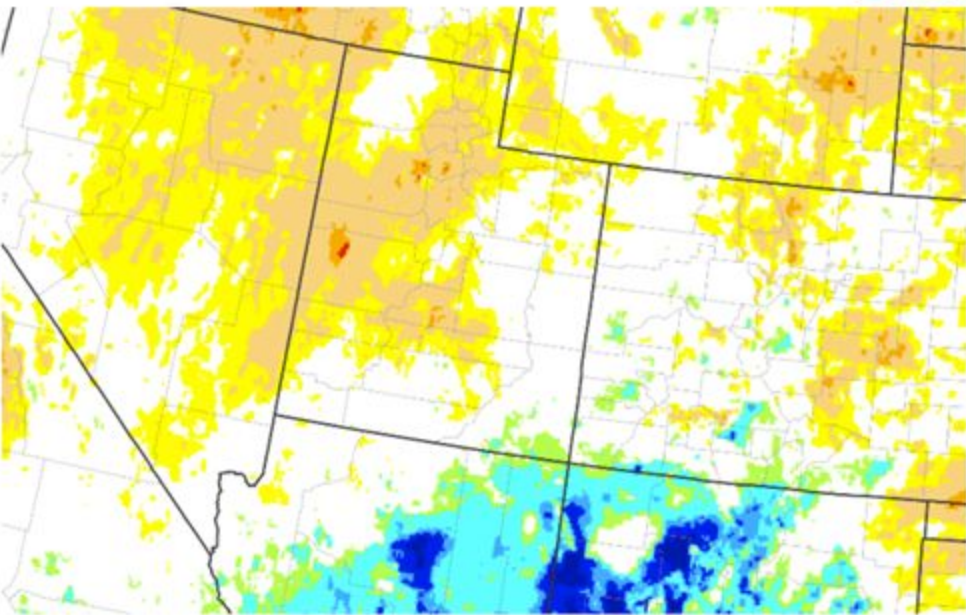


Quick-DRI Short Term Drought Stress



NIDIS Drought Indicator Blends

Short-Term Drought Indicator Blend



Dry Conditions



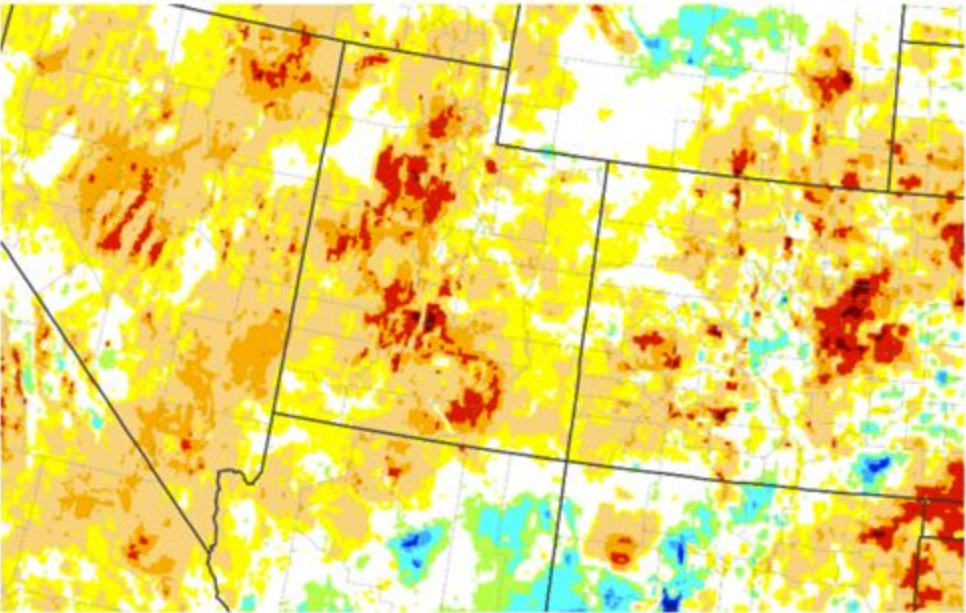
Wet Conditions



Source(s): UC Merced, Climate Engine
Data Valid - 10/17/22

Drought.gov

Long-Term Drought Indicator Blend



Dry Conditions



Wet Conditions



Source(s): UC Merced, Climate Engine
Data Valid - 10/17/22

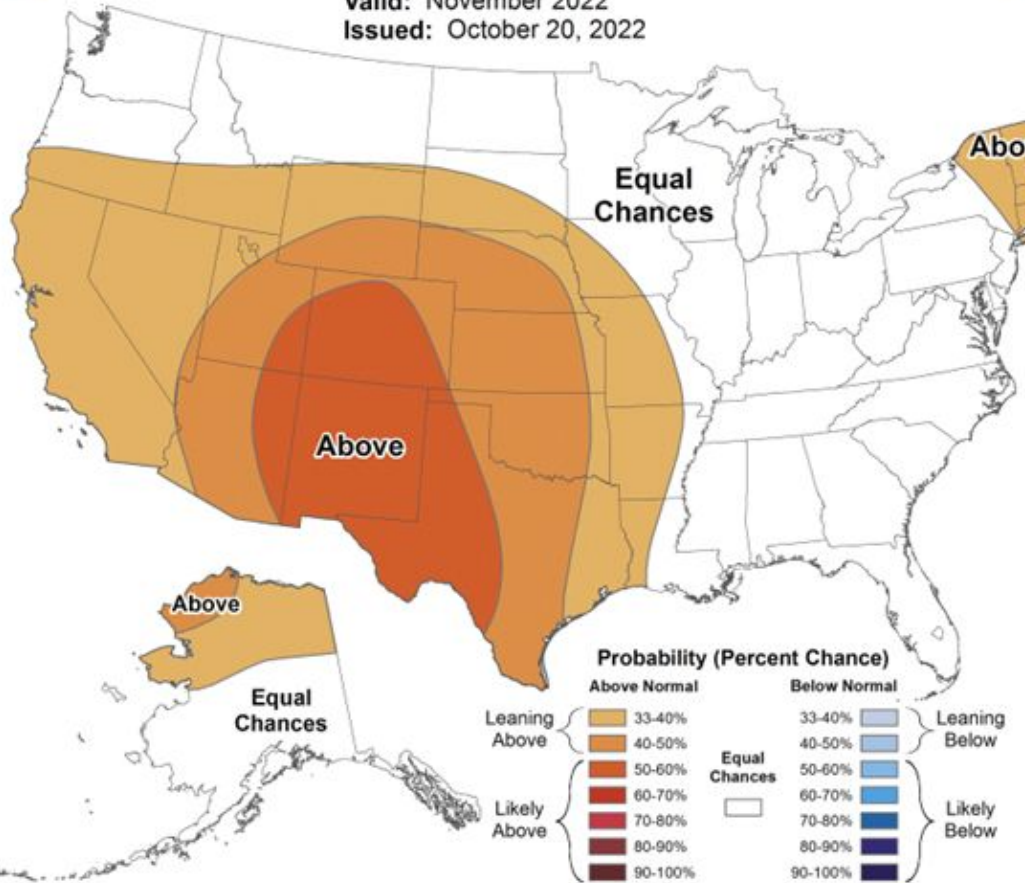
Drought.gov

CPC One-Month Outlook



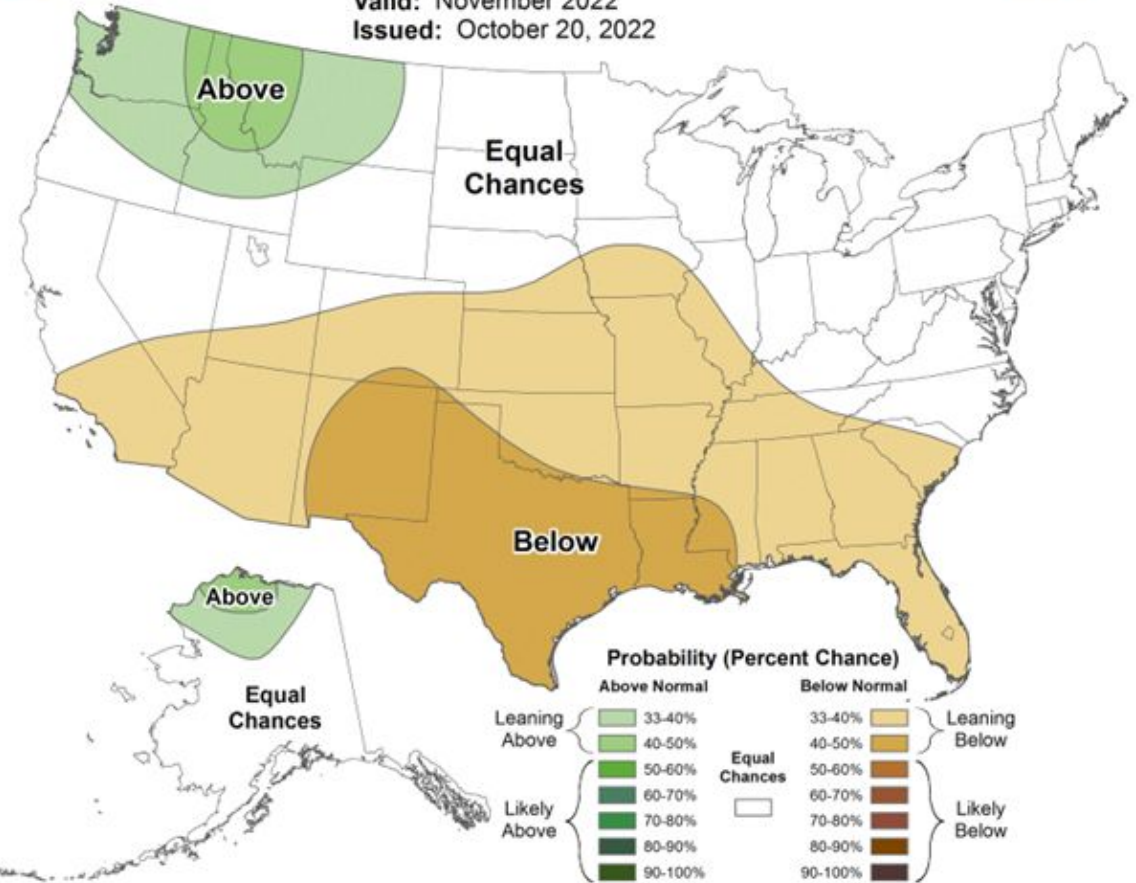
Monthly Temperature Outlook

Valid: November 2022
Issued: October 20, 2022



Monthly Precipitation Outlook

Valid: November 2022
Issued: October 20, 2022

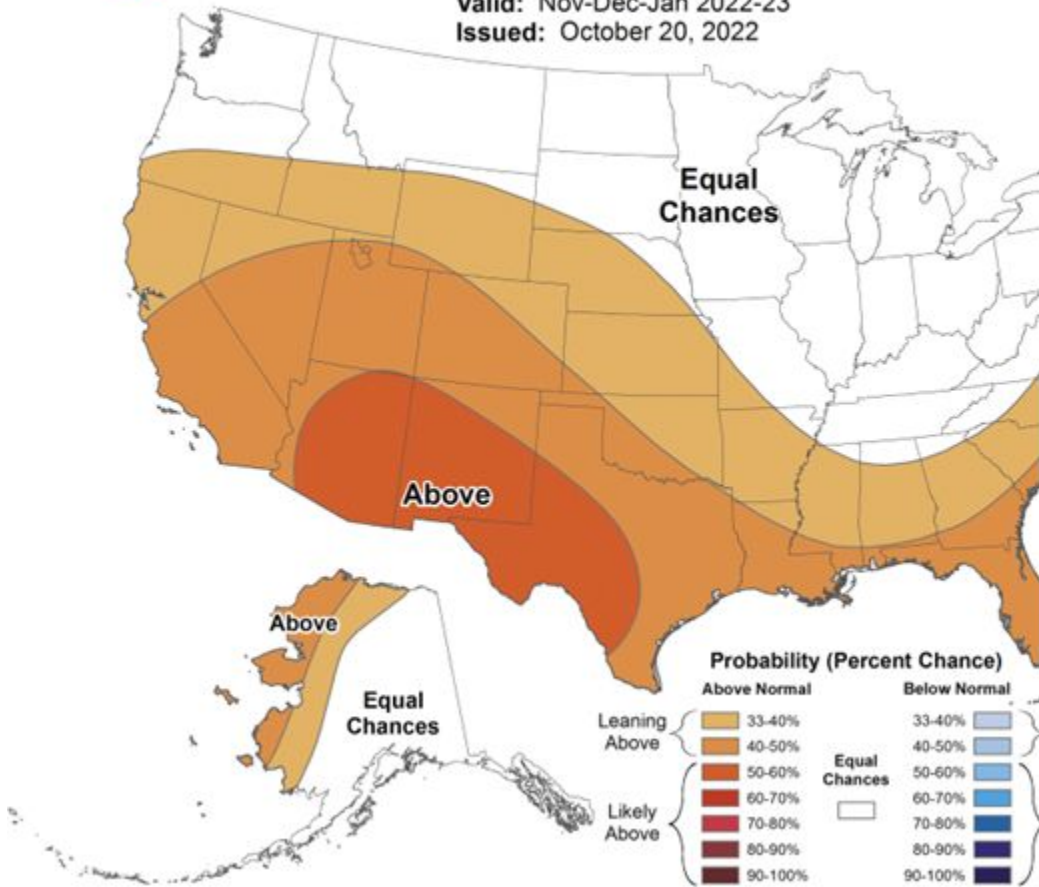


CPC Three-Month Outlook



Seasonal Temperature Outlook

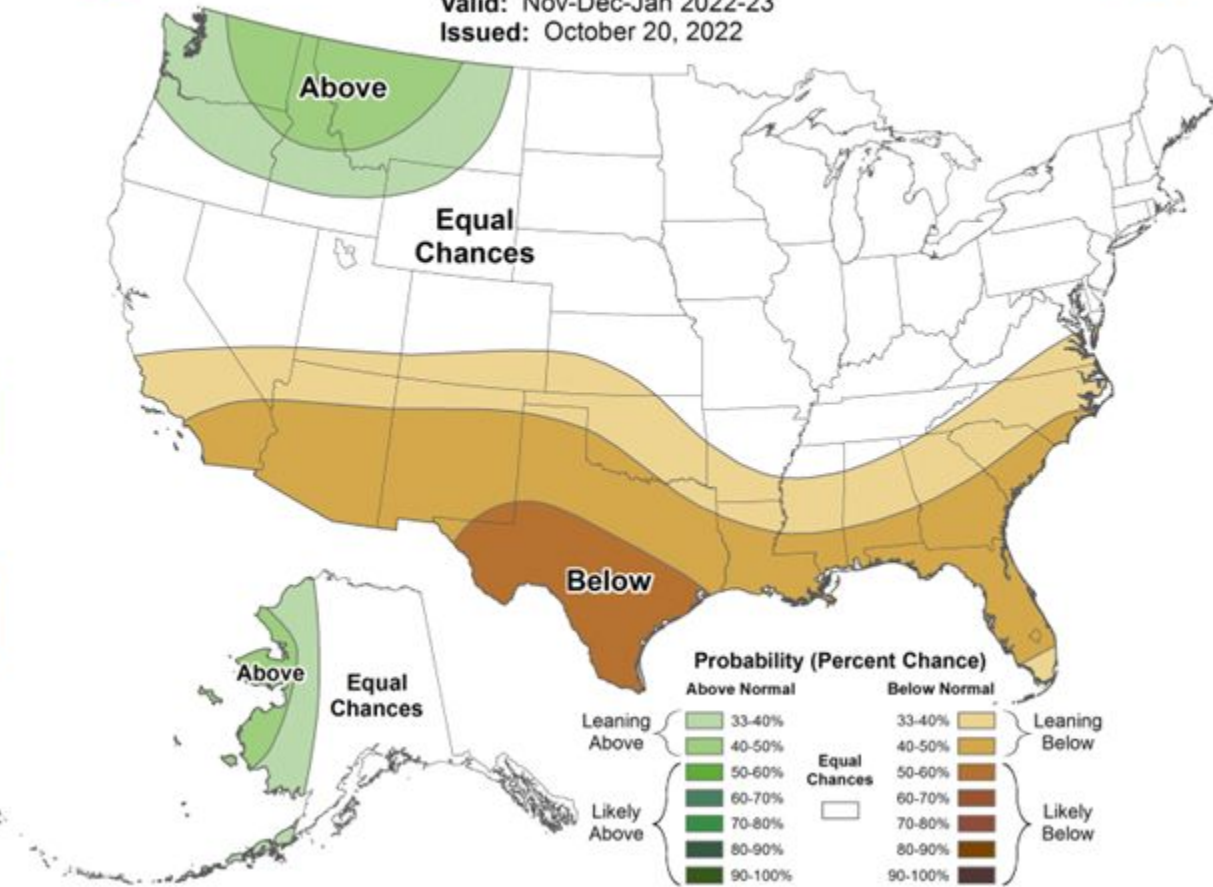
Valid: Nov-Dec-Jan 2022-23
Issued: October 20, 2022



Seasonal Precipitation Outlook



Valid: Nov-Dec-Jan 2022-23
Issued: October 20, 2022

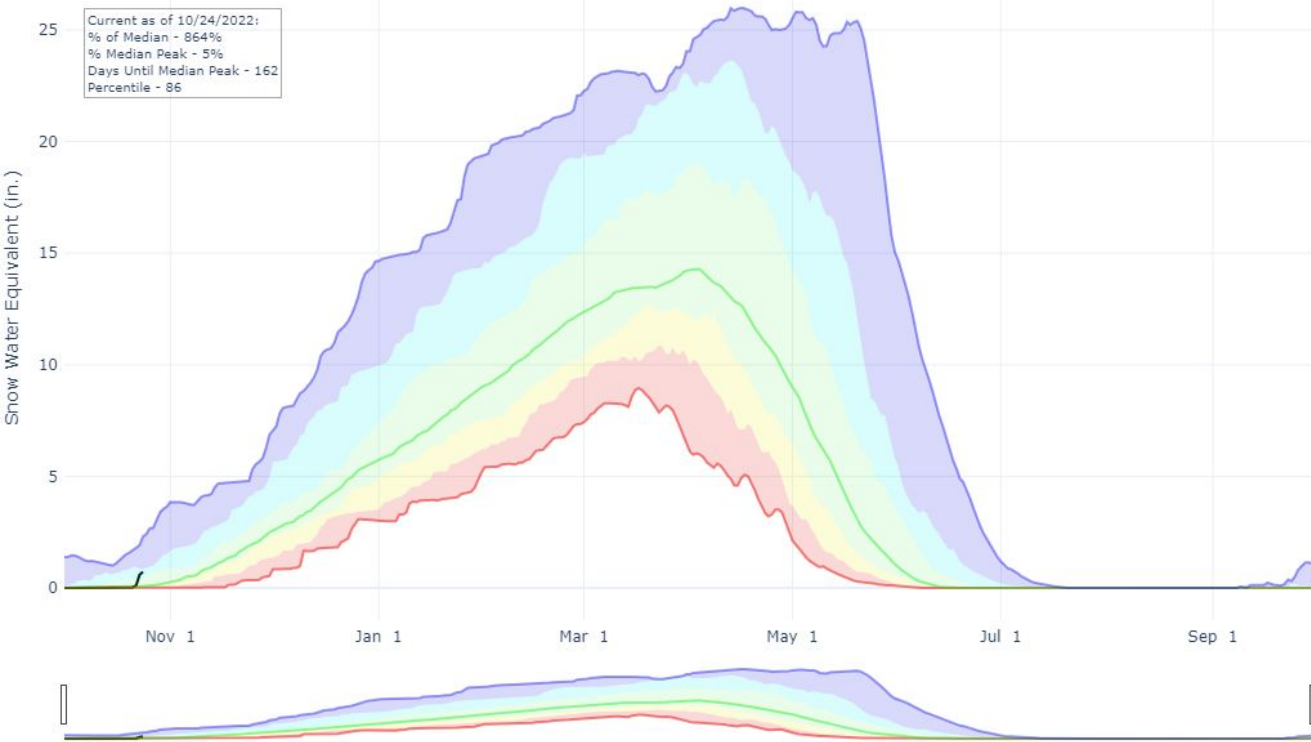


Snowpack

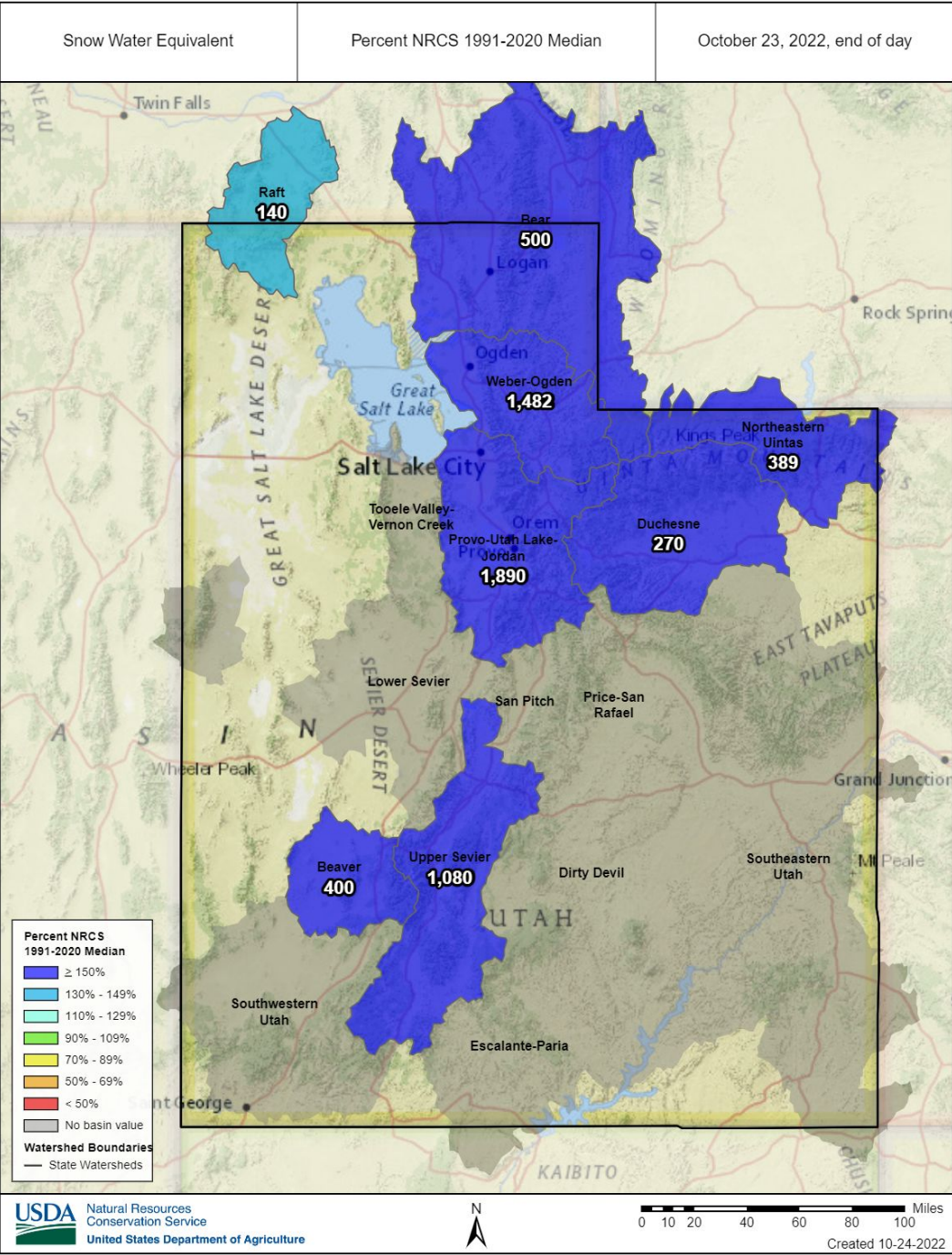
SNOW WATER EQUIVALENT IN STATE OF UTAH

Reset Range

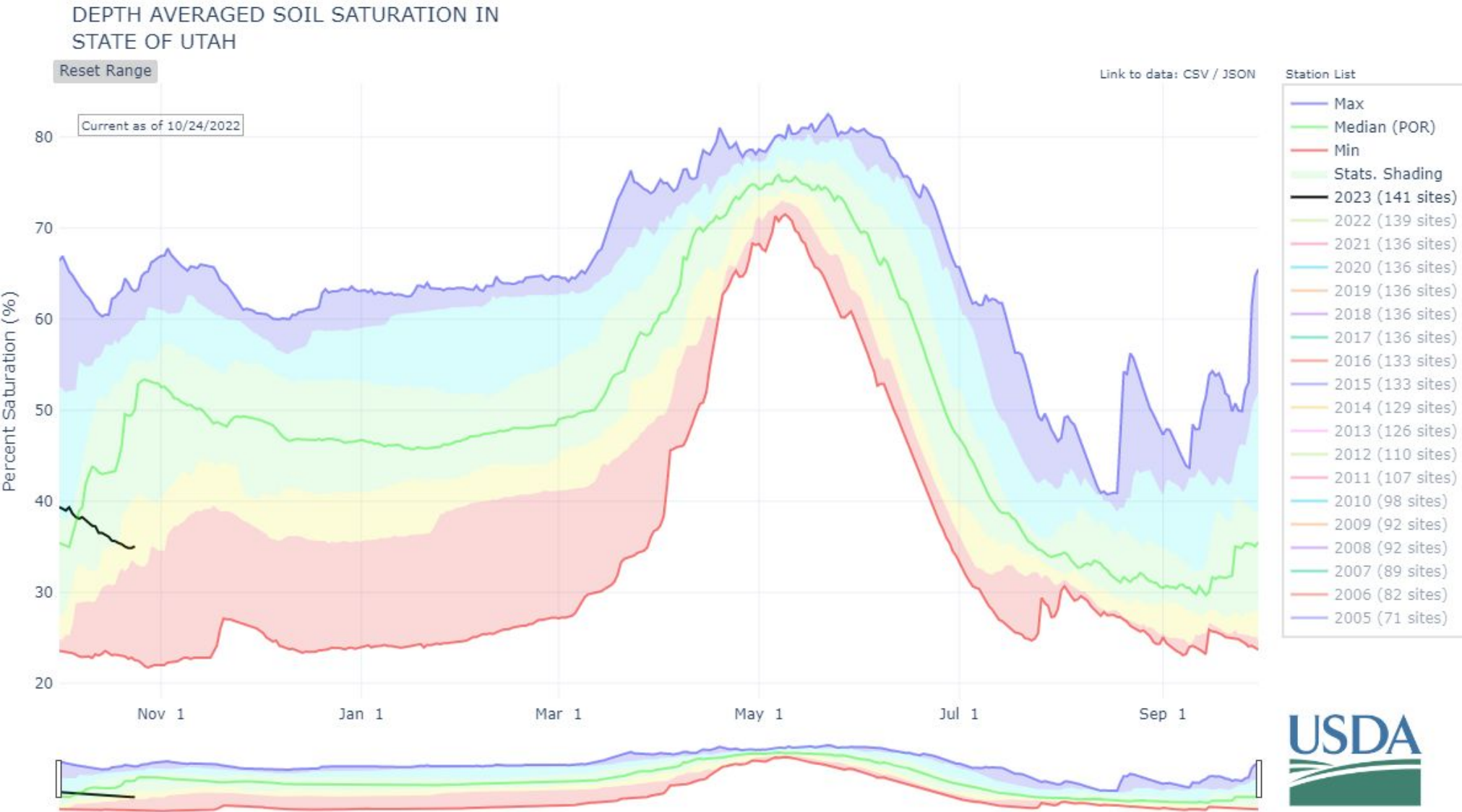
[Link to data: CSV / JSON](#)

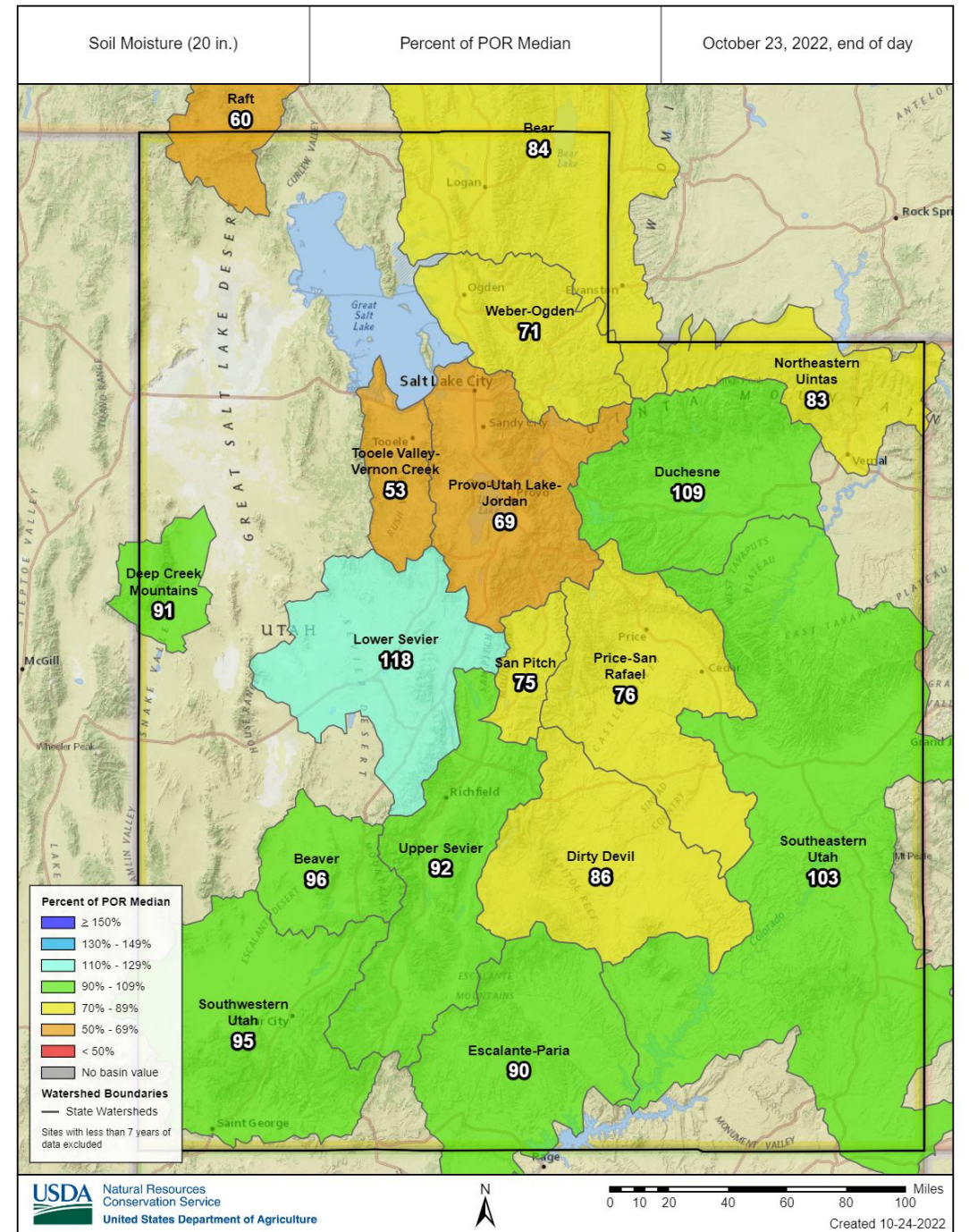
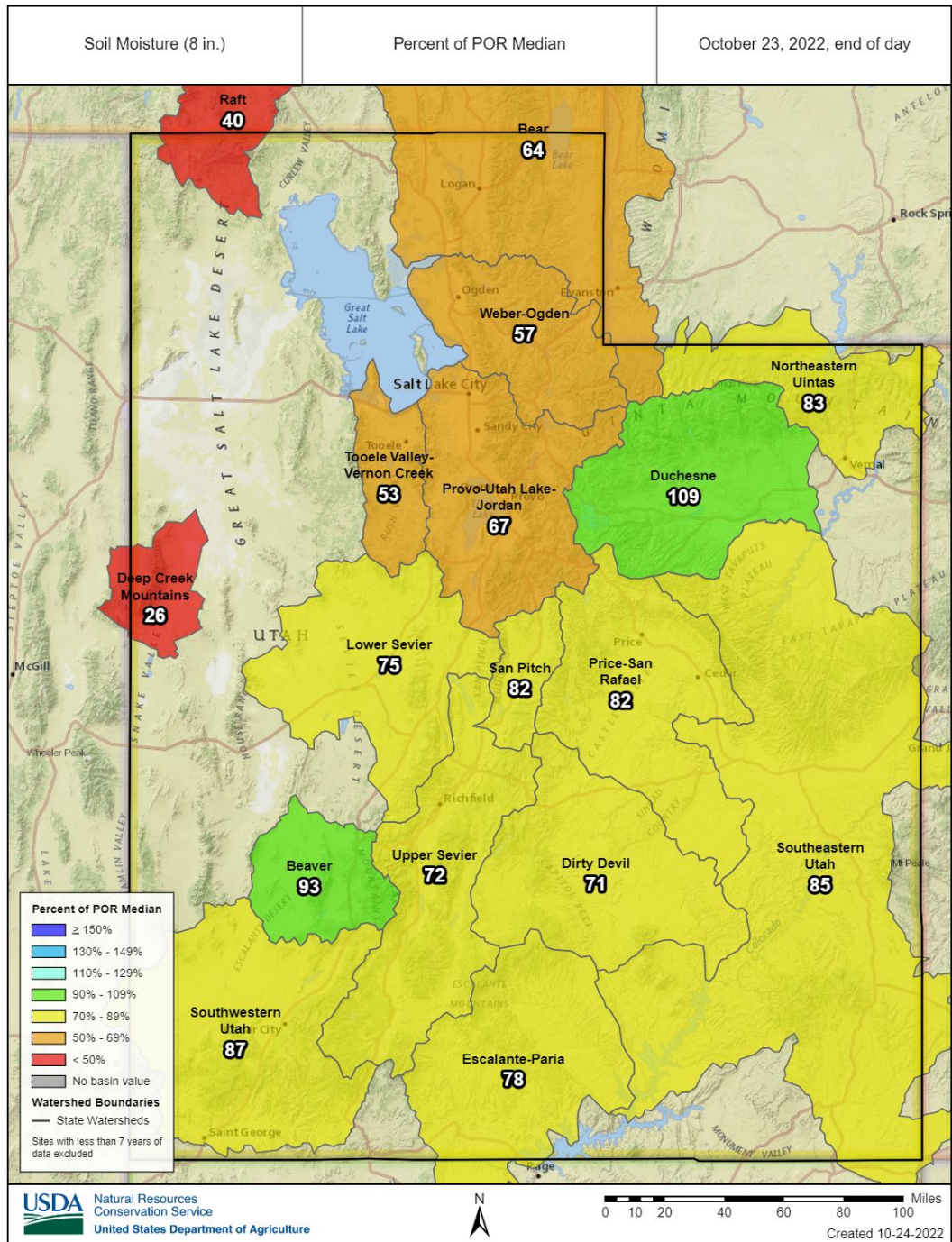


Agency - NRCS Snow Survey
Presenter - Jordan Clayton

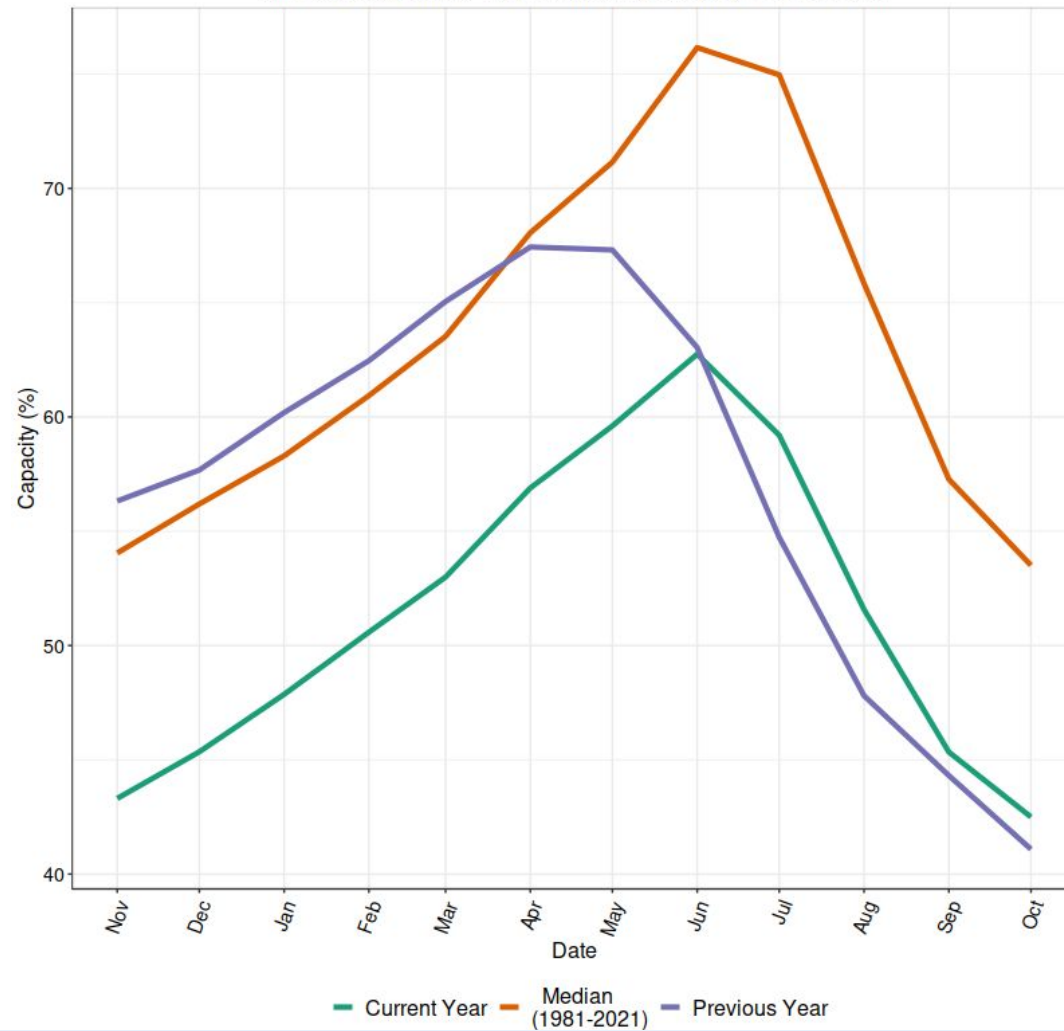


Soil Moisture

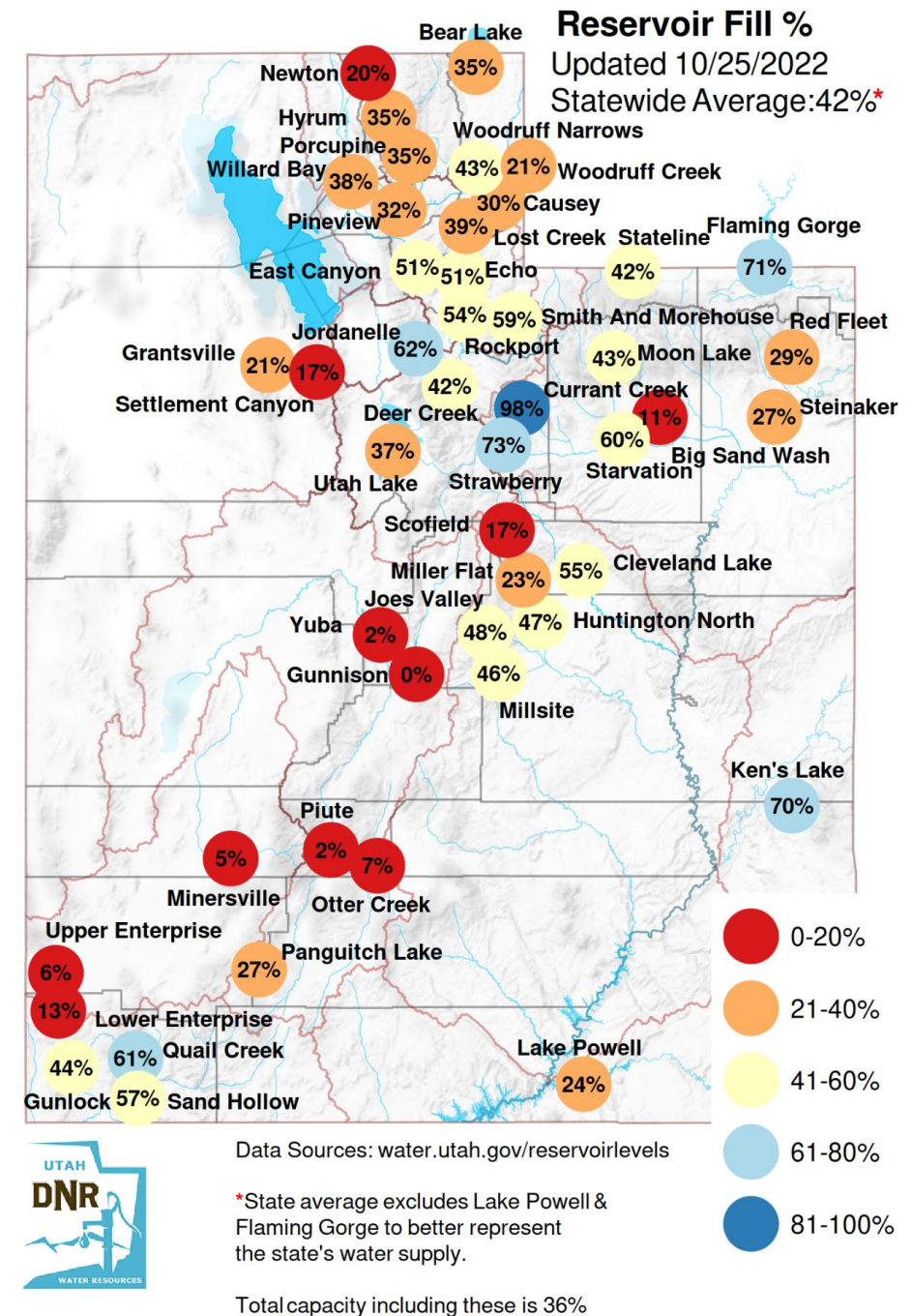




All Excluding Lake Powell & Flaming Gorge (Oct-25-2022)

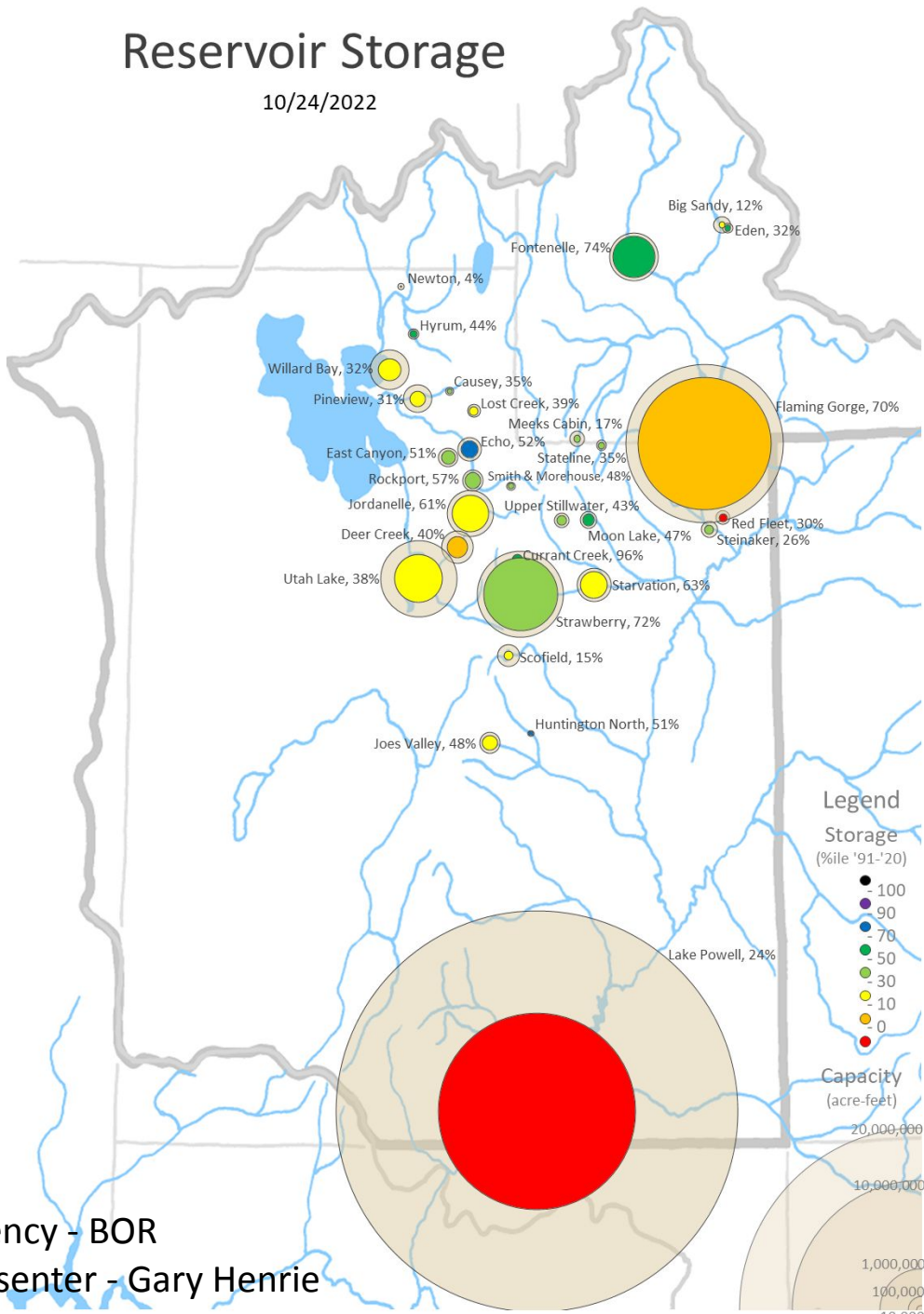


Outdoor watering is ending
Reservoir levels should be at or close to lowest until spring



Reservoir Storage

10/24/2022

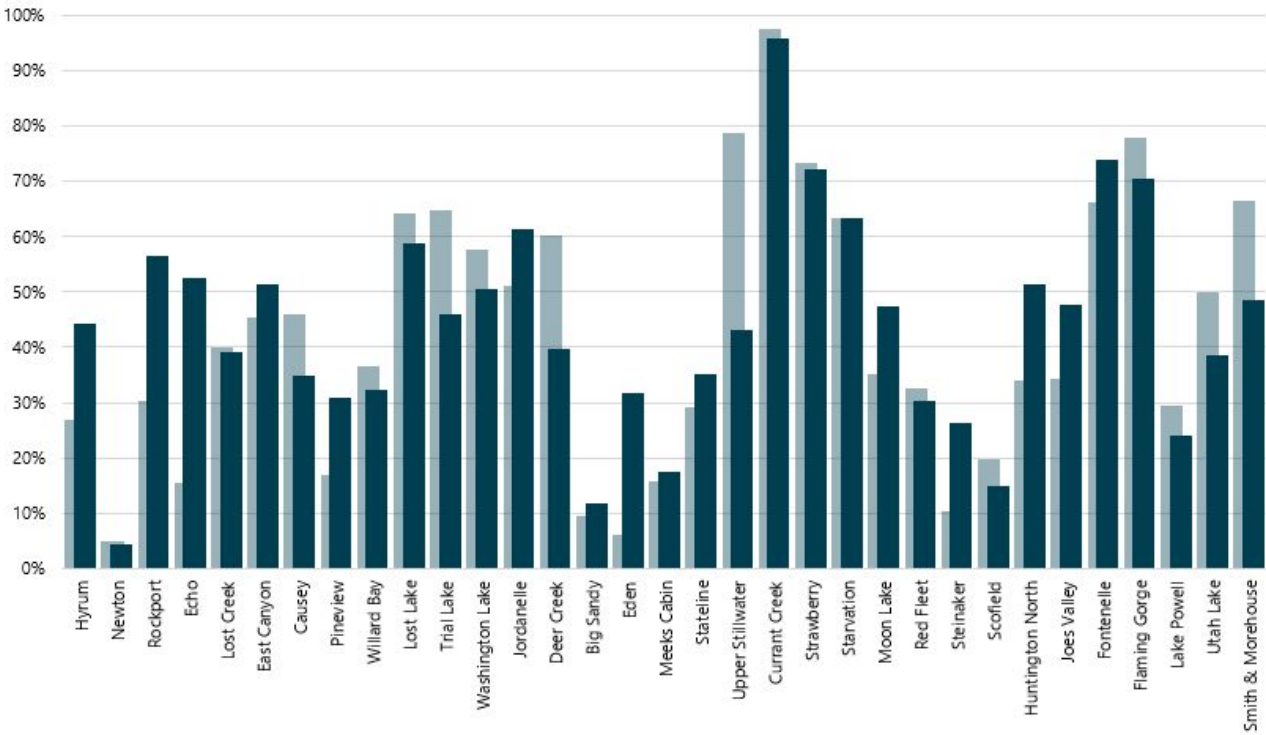


Agency - BOR
Presenter - Gary Henrie

Reservoir Storage

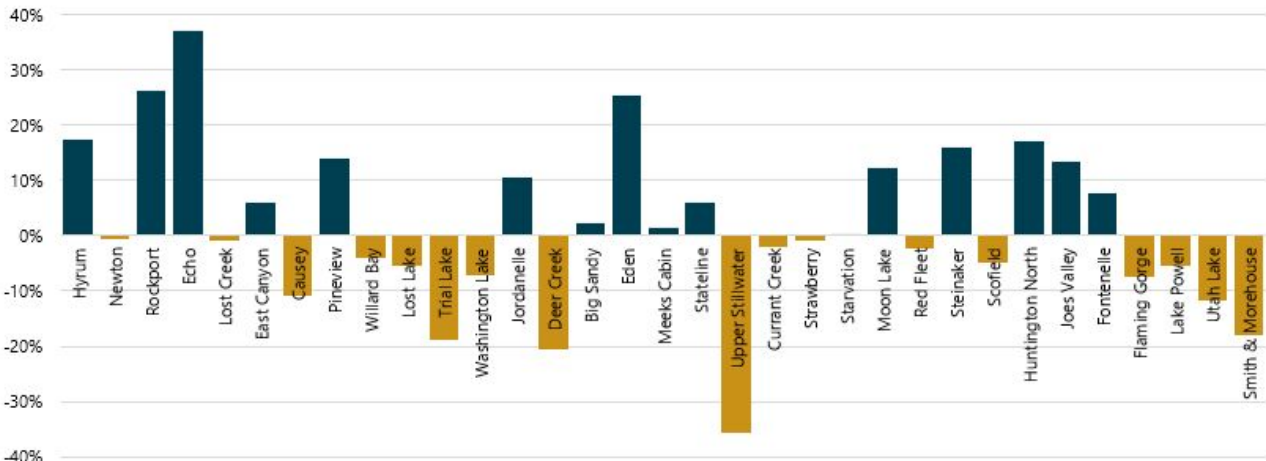
Percent Full

10/24/2021 10/24/2022



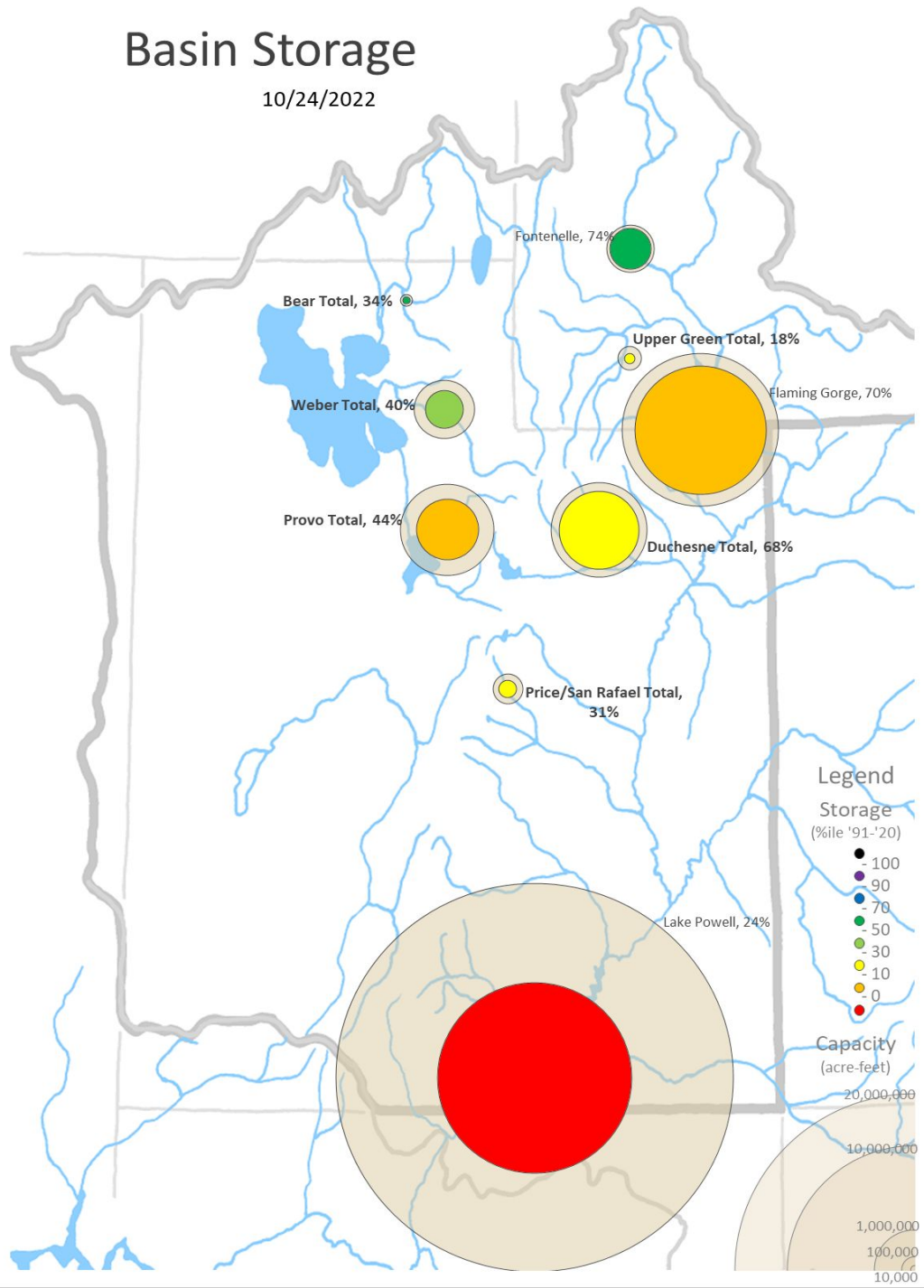
Percent Full Change

10/24/2021 to 10/24/2022



Basin Storage

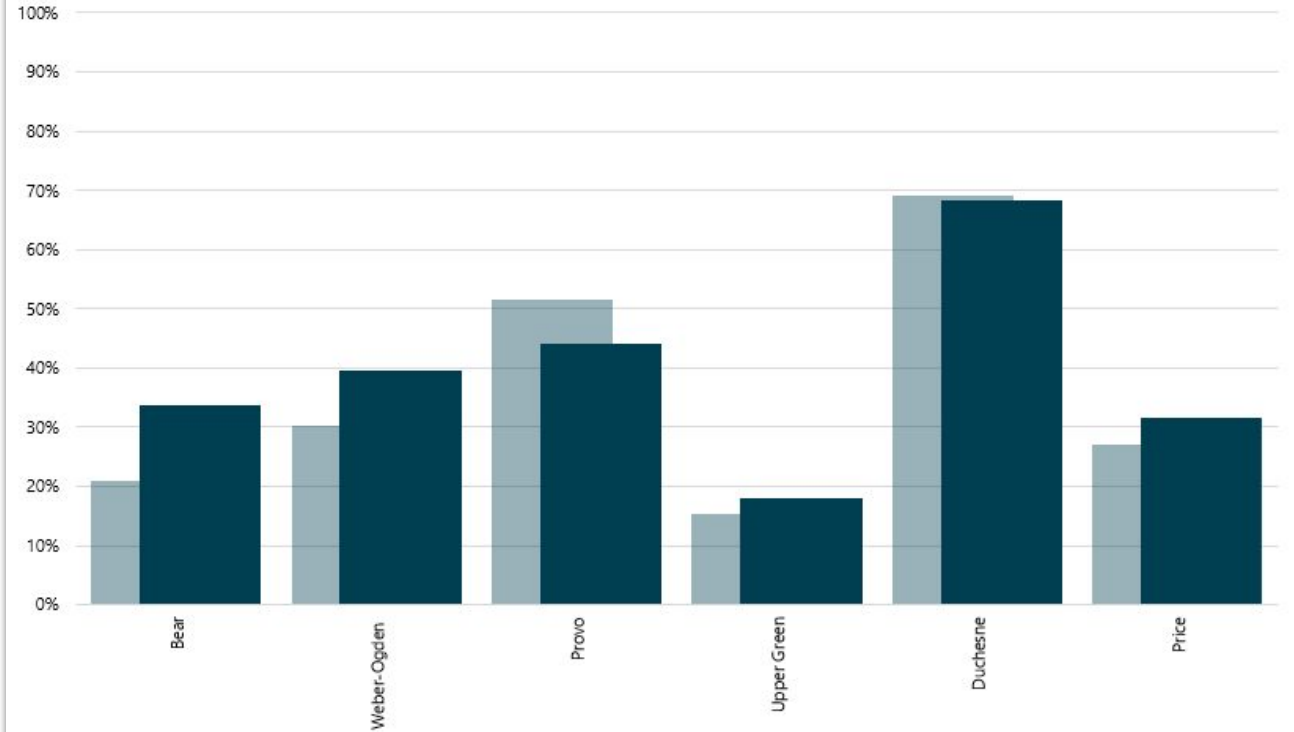
10/24/2022



Basin Storage

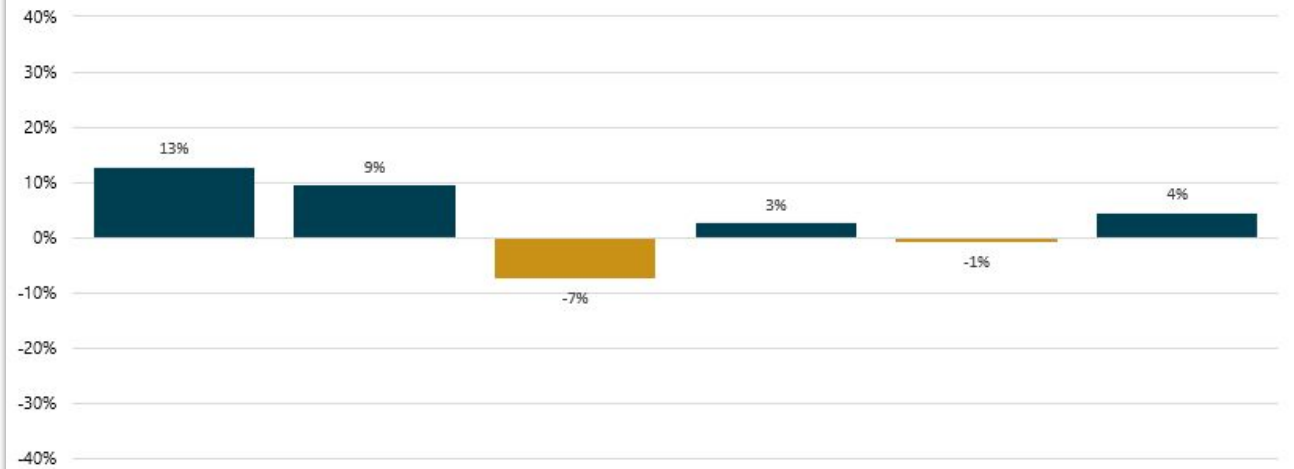
Percent Full

10/24/2021 10/24/2022



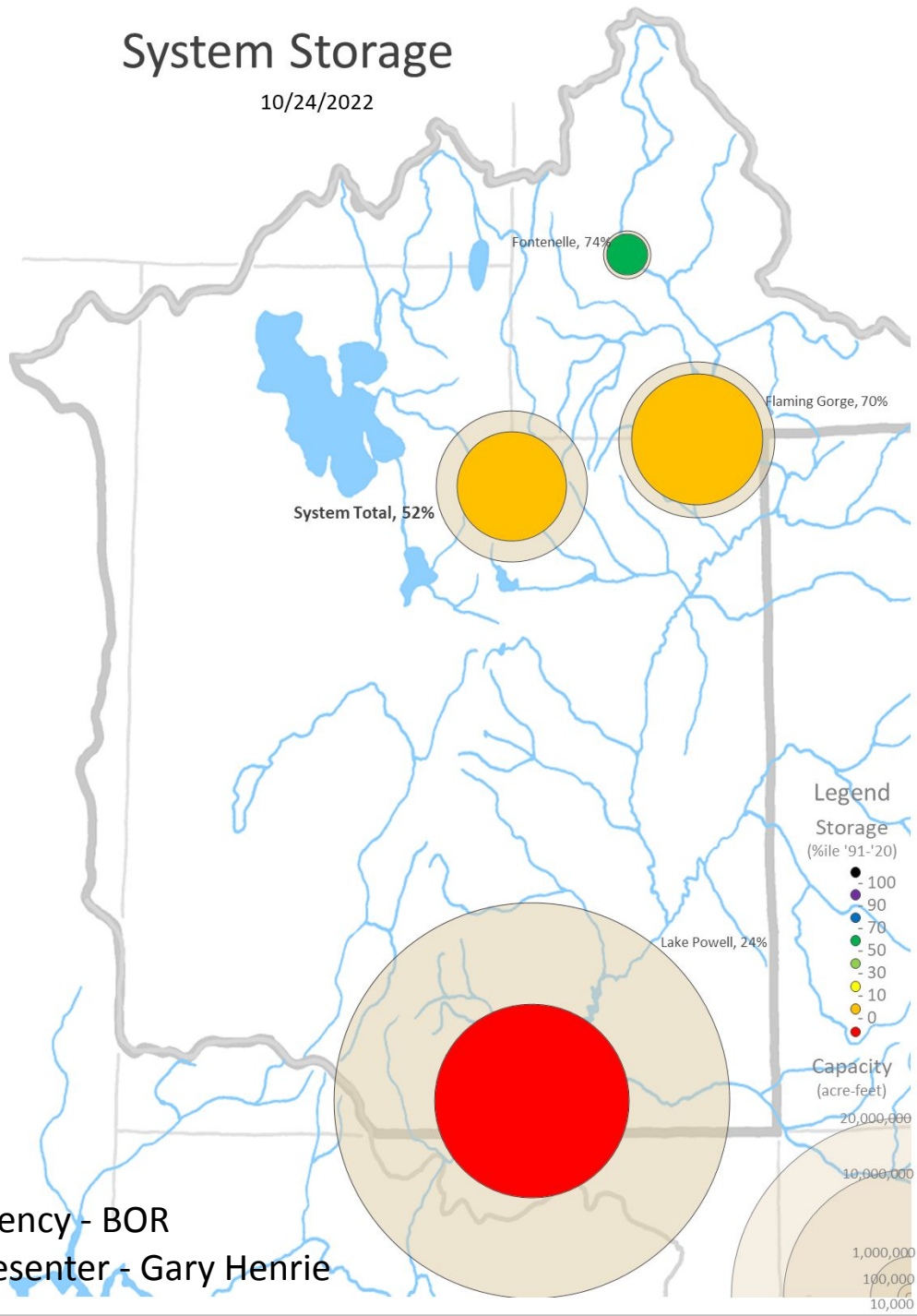
Percent Full Change

10/24/2021 to 10/24/2022



System Storage

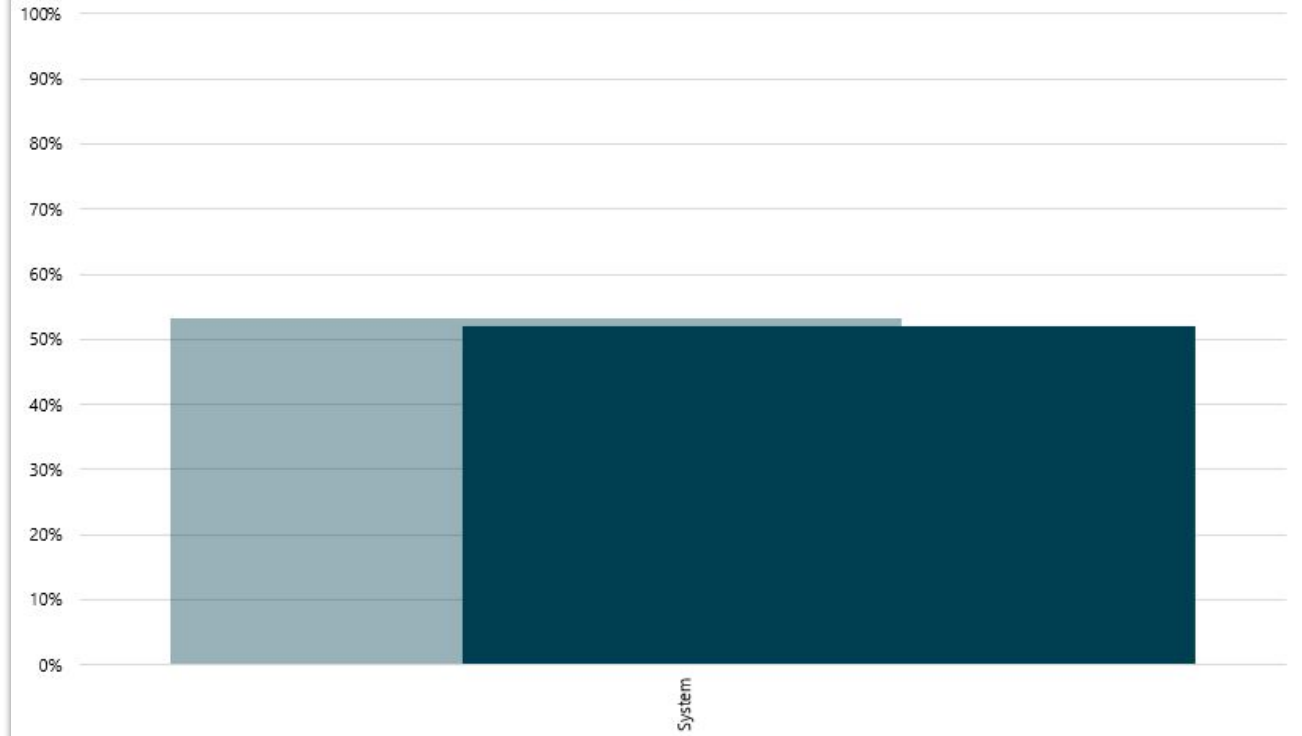
10/24/2022



System Storage

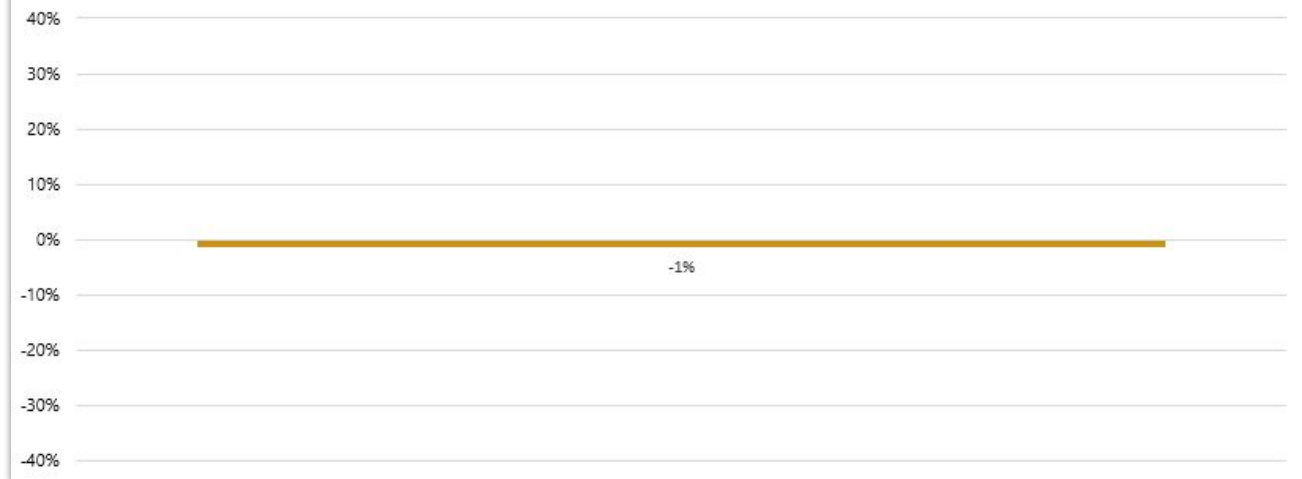
Percent Full

10/24/2021 10/24/2022

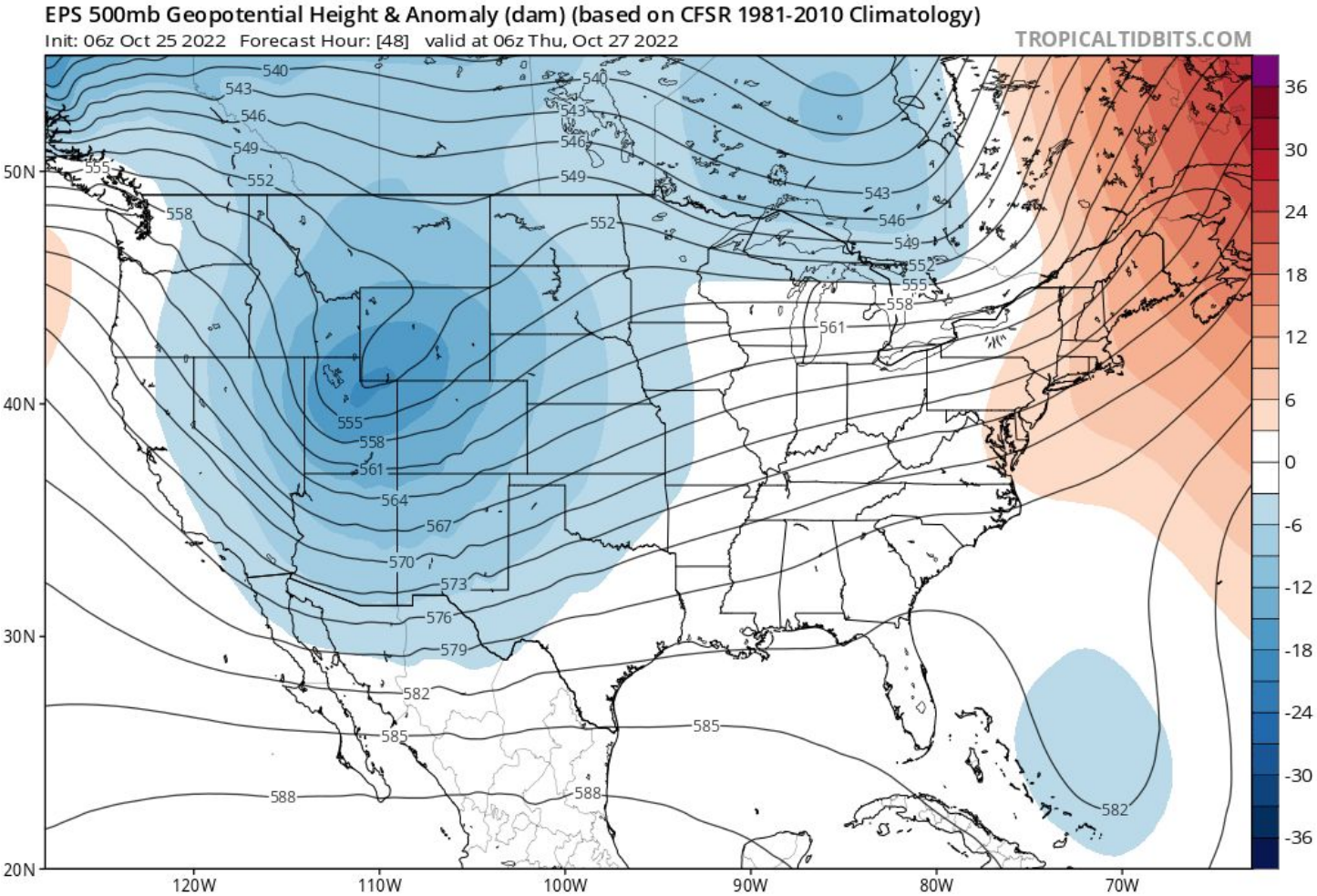
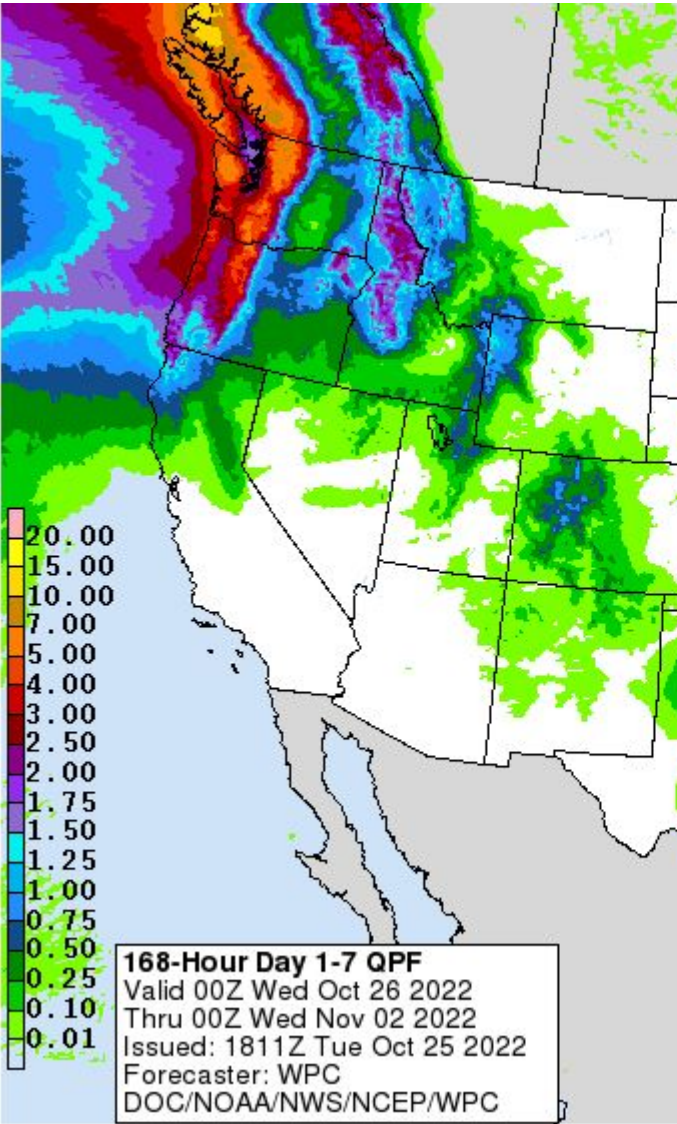
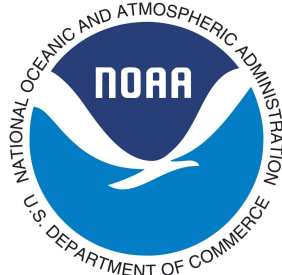


Percent Full Change

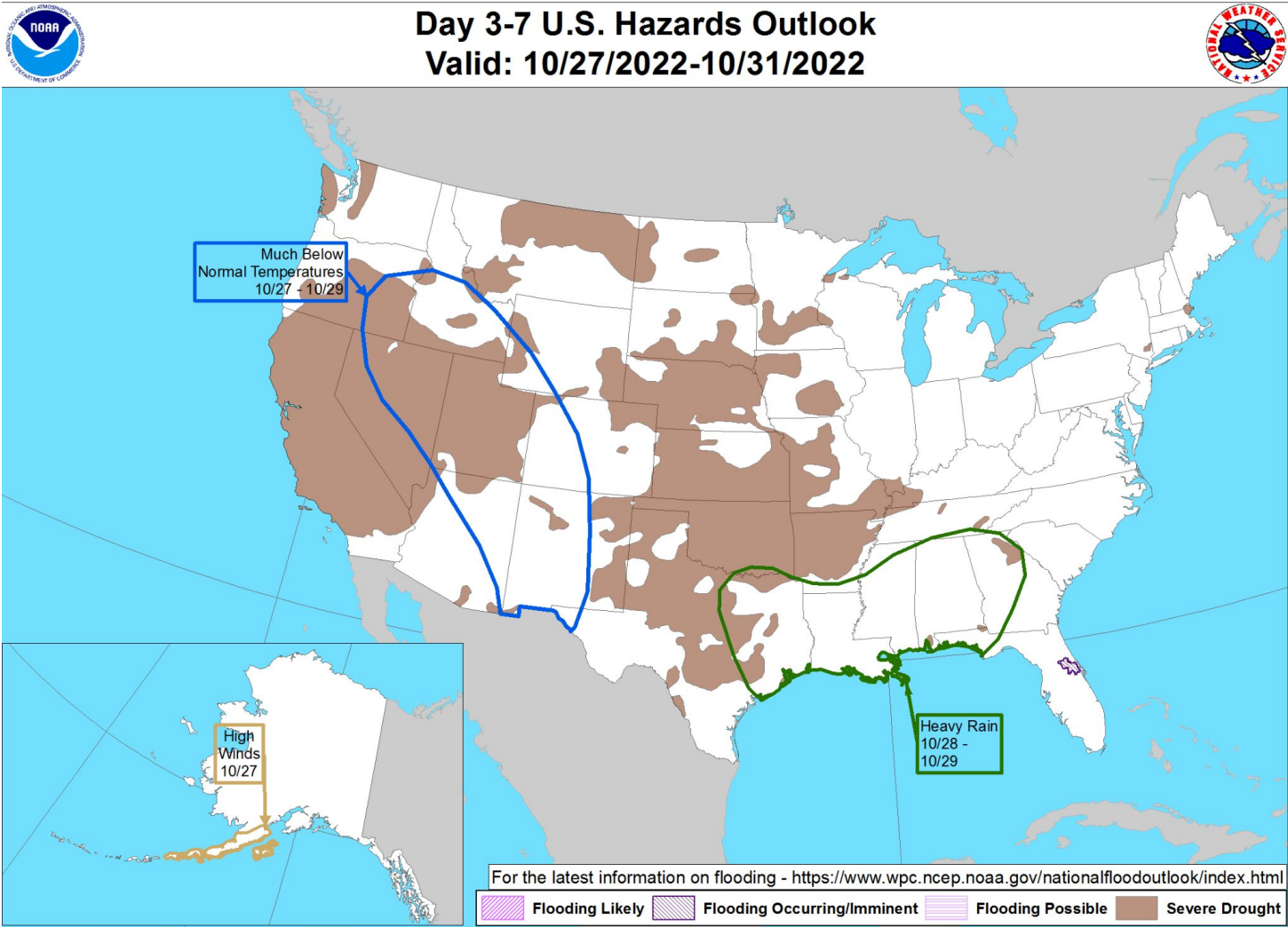
10/24/2021 to 10/24/2022



Weather Forecast Office Utah Day 1-7 Outlook



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



Weather Prediction Center
Made: 10/24/2022 3PM EDT

Follow us:  www.wpc.ncep.noaa.gov

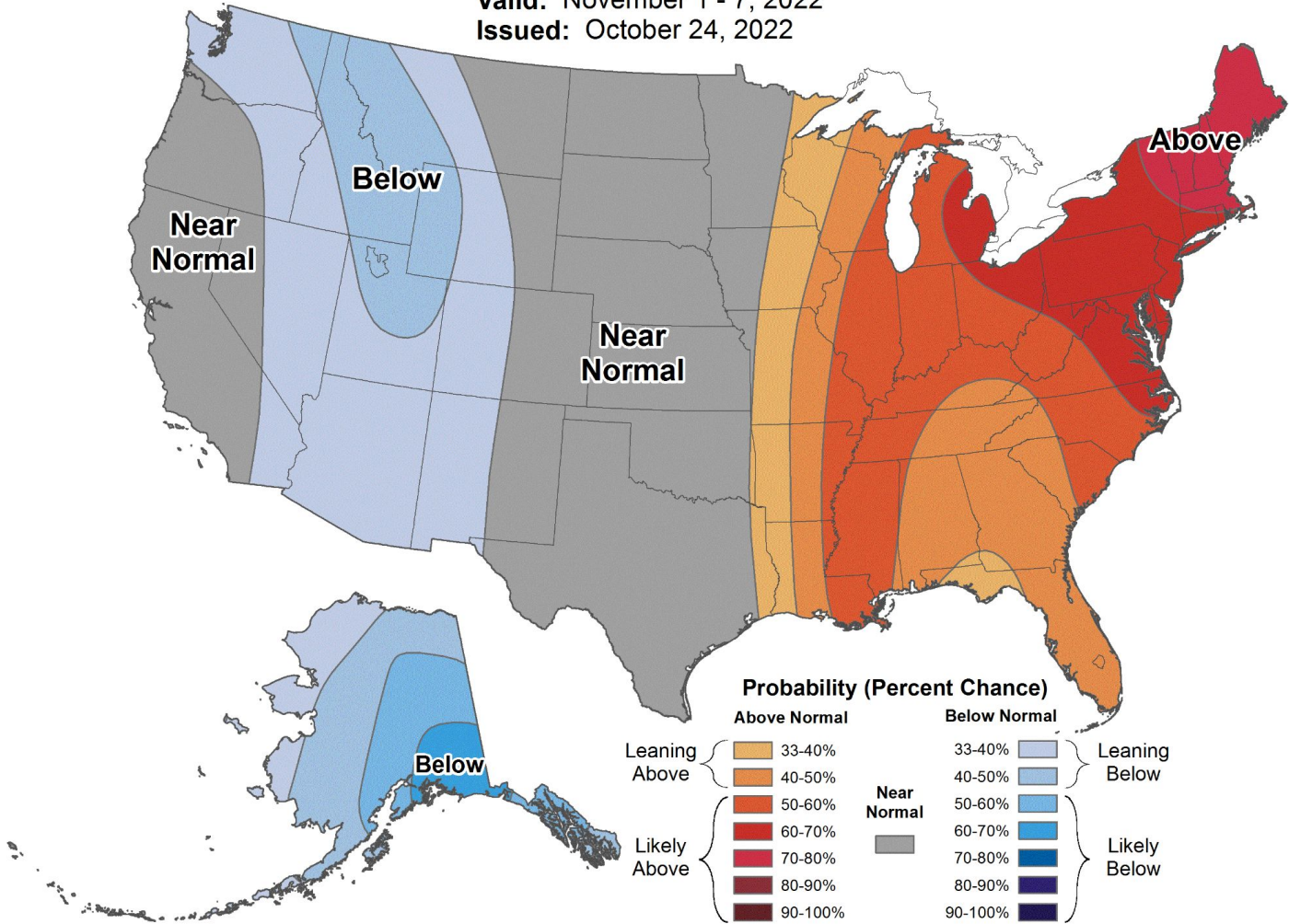
Climate Prediction Center 8 to 14 Day Outlooks - Temperature



8-14 Day Temperature Outlook

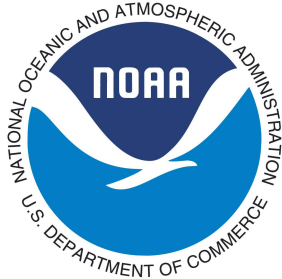


Valid: November 1 - 7, 2022
Issued: October 24, 2022

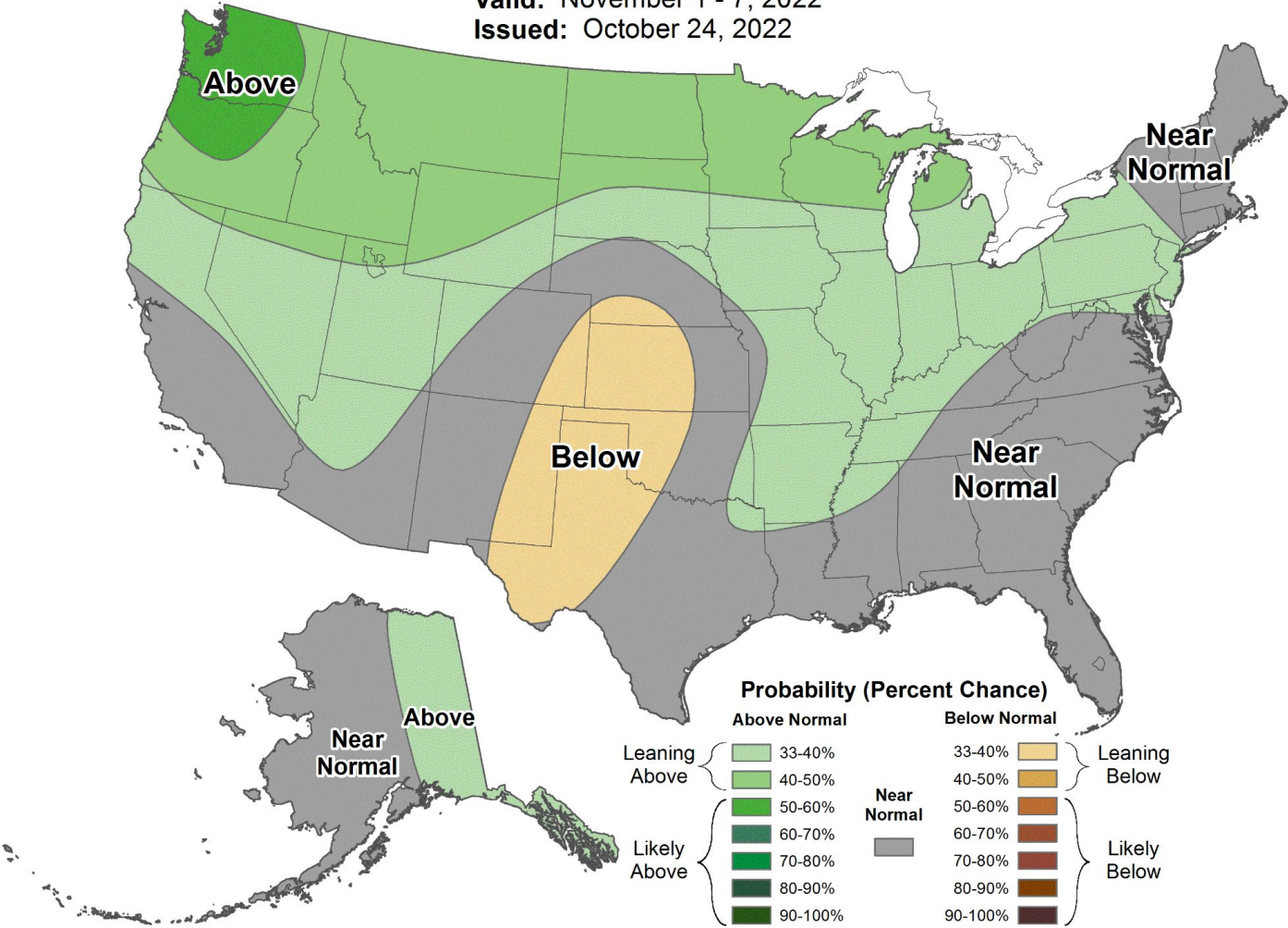


Climate Prediction Center 8 to 14 Day Outlooks - Precipitation

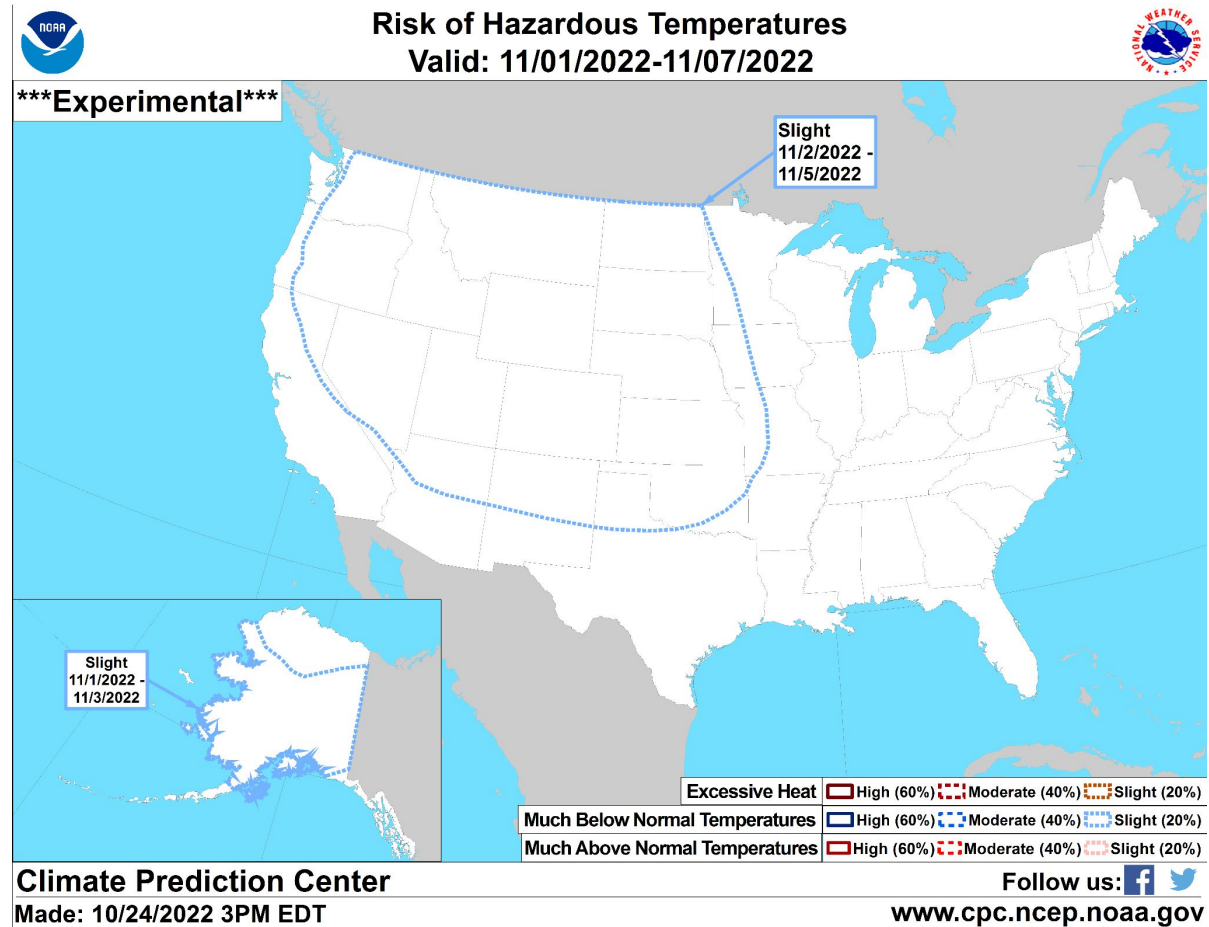
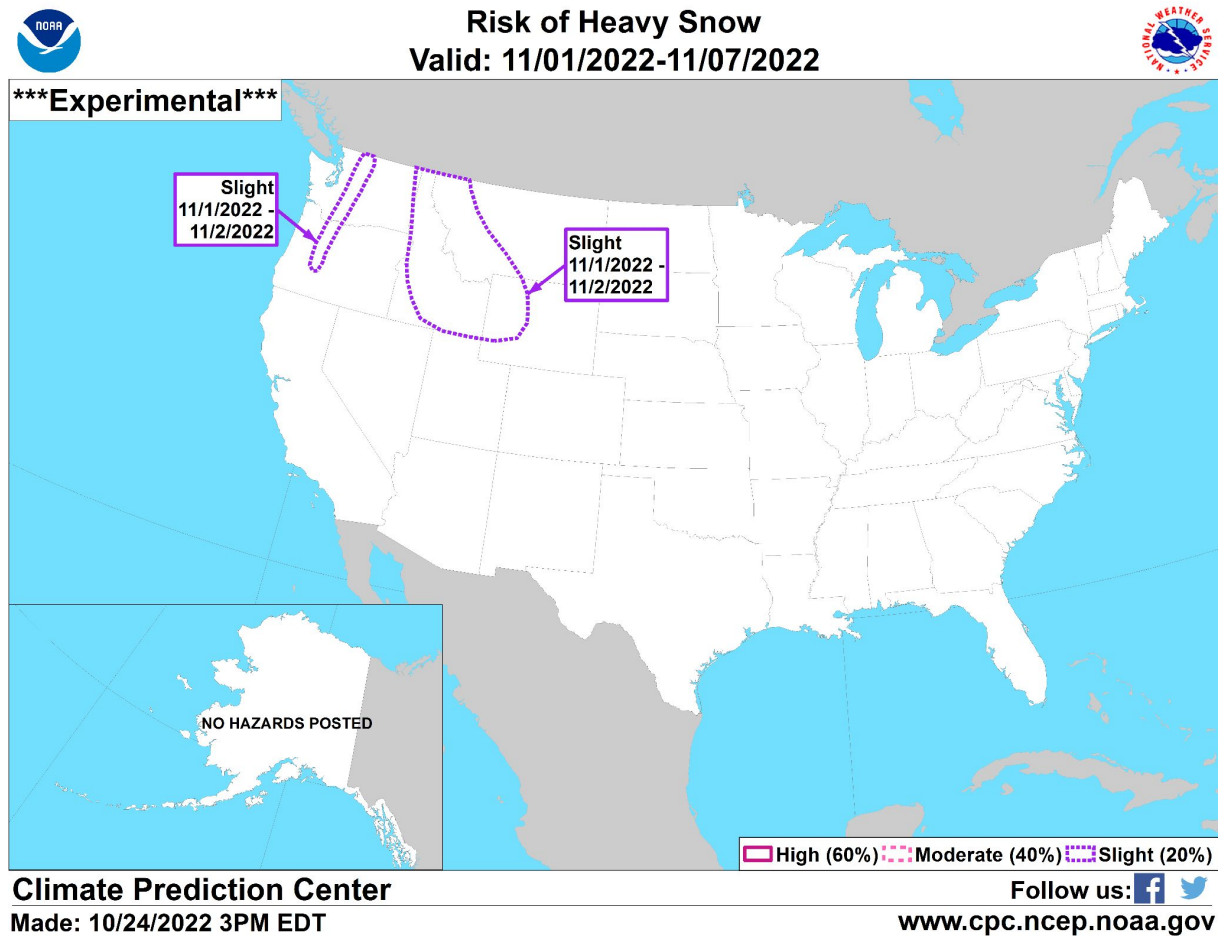
8-14 Day Precipitation Outlook



Valid: November 1 - 7, 2022
Issued: October 24, 2022

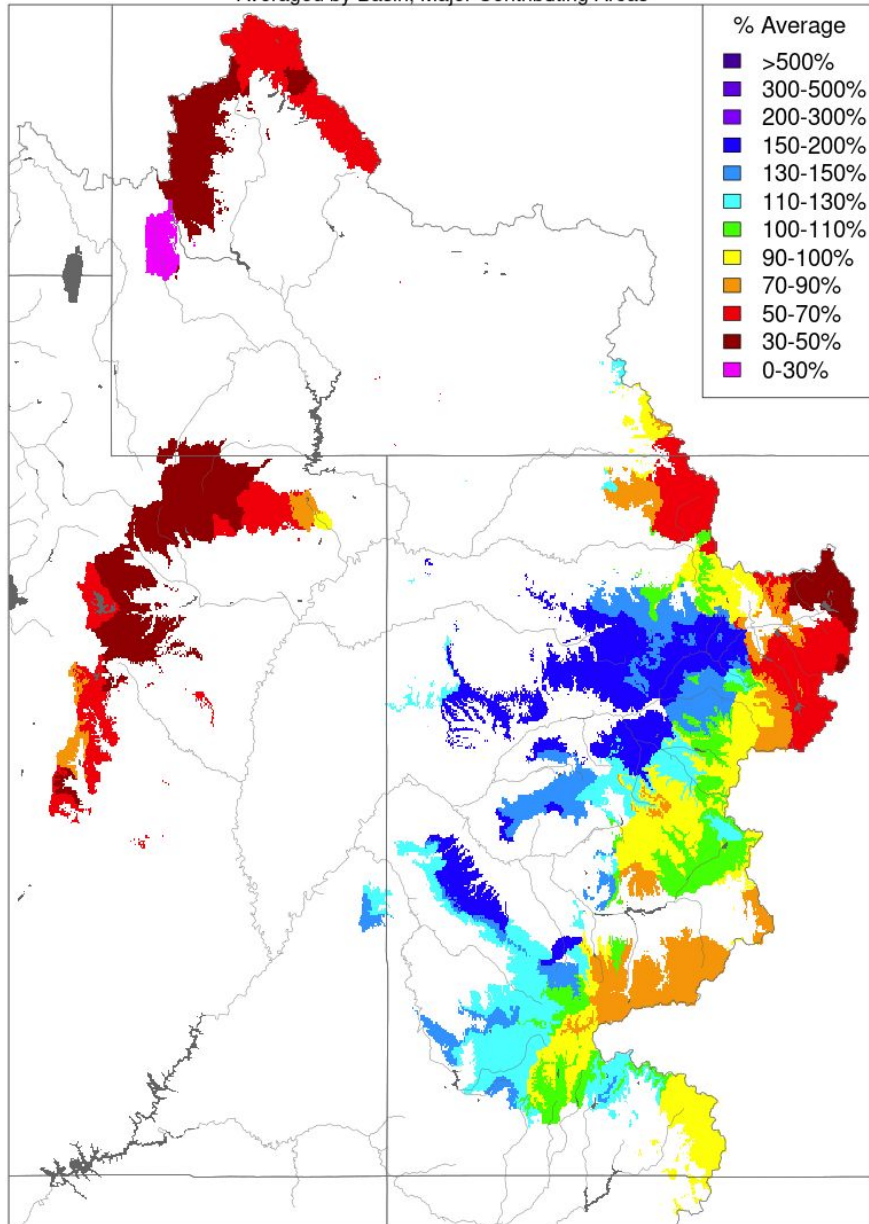


Climate Prediction Center U.S. Week-2 Hazards Outlook

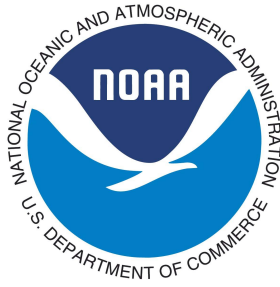


Month to Date Precipitation - October 25 2022

Averaged by Basin, Major Contributing Areas

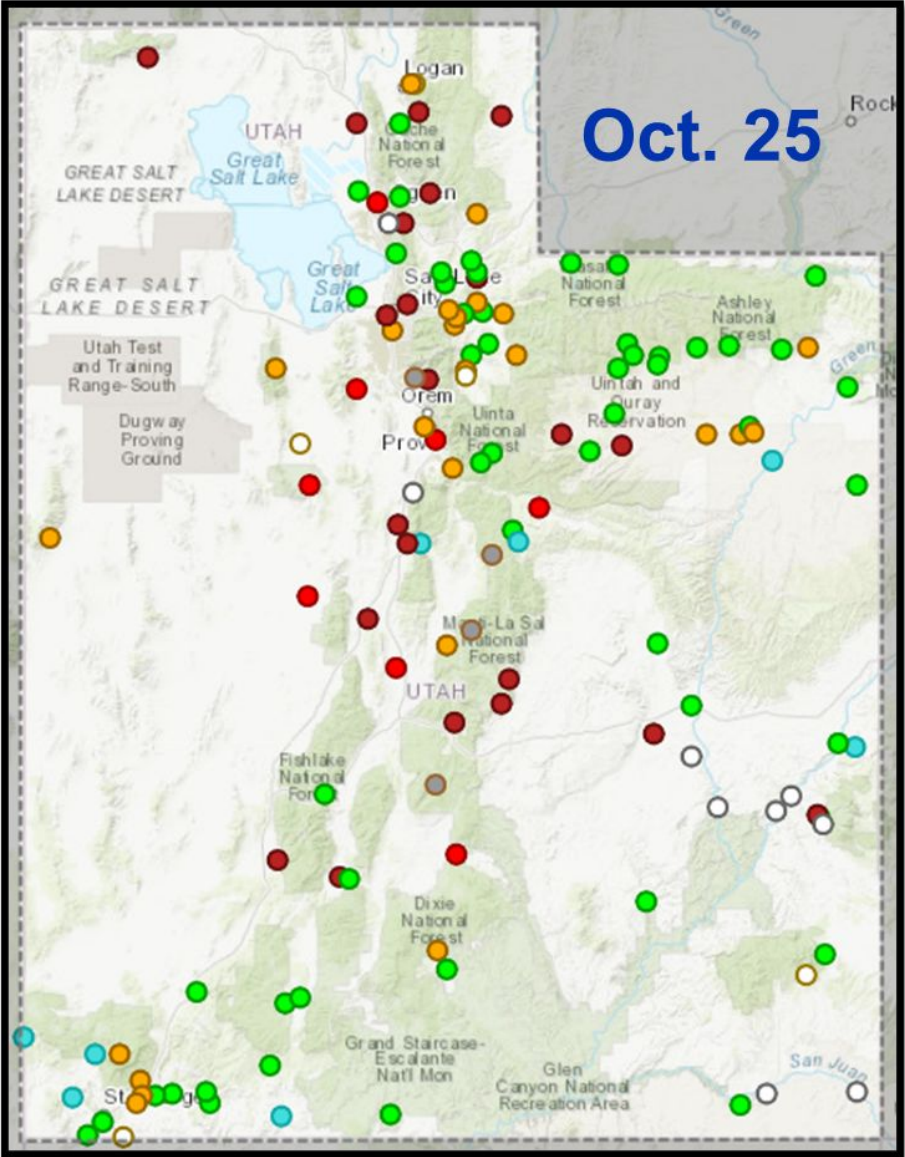


Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov



Recent storms have been beneficial to the Upper Colorado and Great Basin areas. A storm forecasted over the next few days is expected to bring precipitation to the Upper Green River Basin. It's still early in the season, but it's a good start!

Current Streamflow Conditions

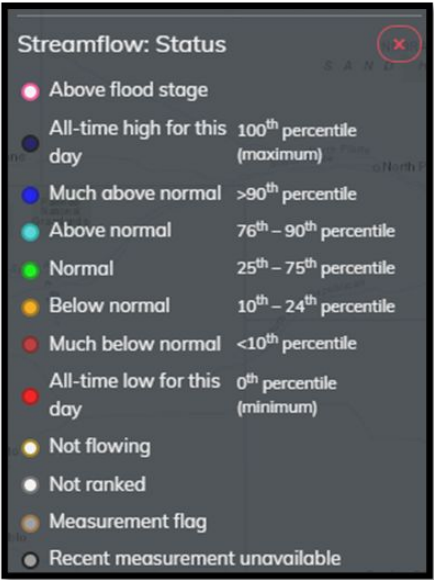


National Water Dashboard

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

Oct. 11 Oct. 25

| Day-of-Year Status | % Gages | |
|----------------------------------------|---------|---------|
| All-time high for this day-of-year | 0.0% | 0.0% |
| Much above normal for this day-of-year | 1.5% | 0.0% |
| Above normal for this day-of-year | 3.6% █ | 6.6% █ |
| Normal for this day-of-year | 35.8% █ | 39.4% █ |
| Below normal for this day-of-year | 22.6% █ | 18.2% █ |
| Much below normal for this day-of-year | 20.4% █ | 16.1% █ |
| All-time low for this day-of-year | 4.4% █ | 6.6% █ |
| Not ranked - insufficient record | 8.0% █ | 8.0% █ |
| Not ranked - no measurement | 3.6% █ | 1.5% |



Agency - USGS UT WSC
Presenter - Ryan Rowland

Heads up: Legacy Real-Time Pages Replaced by Next Generation Monitoring Location Pages

USGS 09266500 ASHLEY CREEK NEAR VERNAL, UT PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site Time-series: Current/Historical Observations

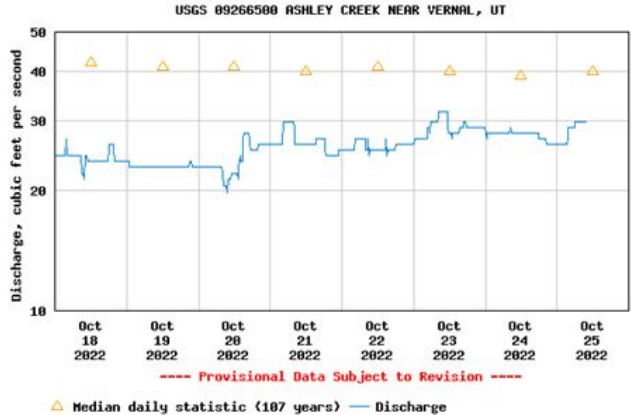
This station managed by the Salt Lake City Field Office.

| Available Parameters | Available Period | Output format |
|-------------------------------------------------------------------|-----------------------|------------------------------------------------|
| <input type="checkbox"/> All 4 Available Parameters for this site | | <input checked="" type="radio"/> Graph |
| <input checked="" type="checkbox"/> 00060 Discharge | 1983-10-01 2022-10-25 | <input type="radio"/> Graph w/ stats |
| <input checked="" type="checkbox"/> 00065 Gage height | 2007-10-01 2022-10-25 | <input type="radio"/> Graph w/o stats |
| <input checked="" type="checkbox"/> 61035 Voltage [Gage] | 2022-06-27 2022-10-25 | <input type="radio"/> Graph w/ (up to 3) parms |
| <input checked="" type="checkbox"/> 70969 DCP battery voltage | 2022-06-27 2022-10-25 | <input type="radio"/> Table |
| | | <input type="radio"/> Tab-separated |

[Summary of all available data for this site](#)
[Instantaneous-data availability statement](#)

Discharge, cubic feet per second

Most recent instantaneous value: 29.7 10-25-2022 09:45 MDT



Create [presentation-quality](#) / [stand-alone](#) graph. Subscribe to [WaterAlert](#) P00060 144062 A(0)

Add up to 2 more sites and
cubic feet per second"

☒ Add site numbers [Note](#)

Enter up to 2 site numbers separated by a comma. A site number consists of 8 to 15 digits

GO

About Water Data for the Nation Data Information Data Inventory Why Next Gen? How-to

ASHLEY CREEK NEAR VERNAL, UT

IMPORTANT [Legacy real-time page](#)

Monitoring location 09266500 is associated with a STREAM in UTAH COUNTY, UTAH. Current conditions of DISCHARGE and GAGE HEIGHT are available. Water data back to 1912 are available online.

☒ 7 days ☐ 30 days ☐ 1 year

Change time span Retrieve data



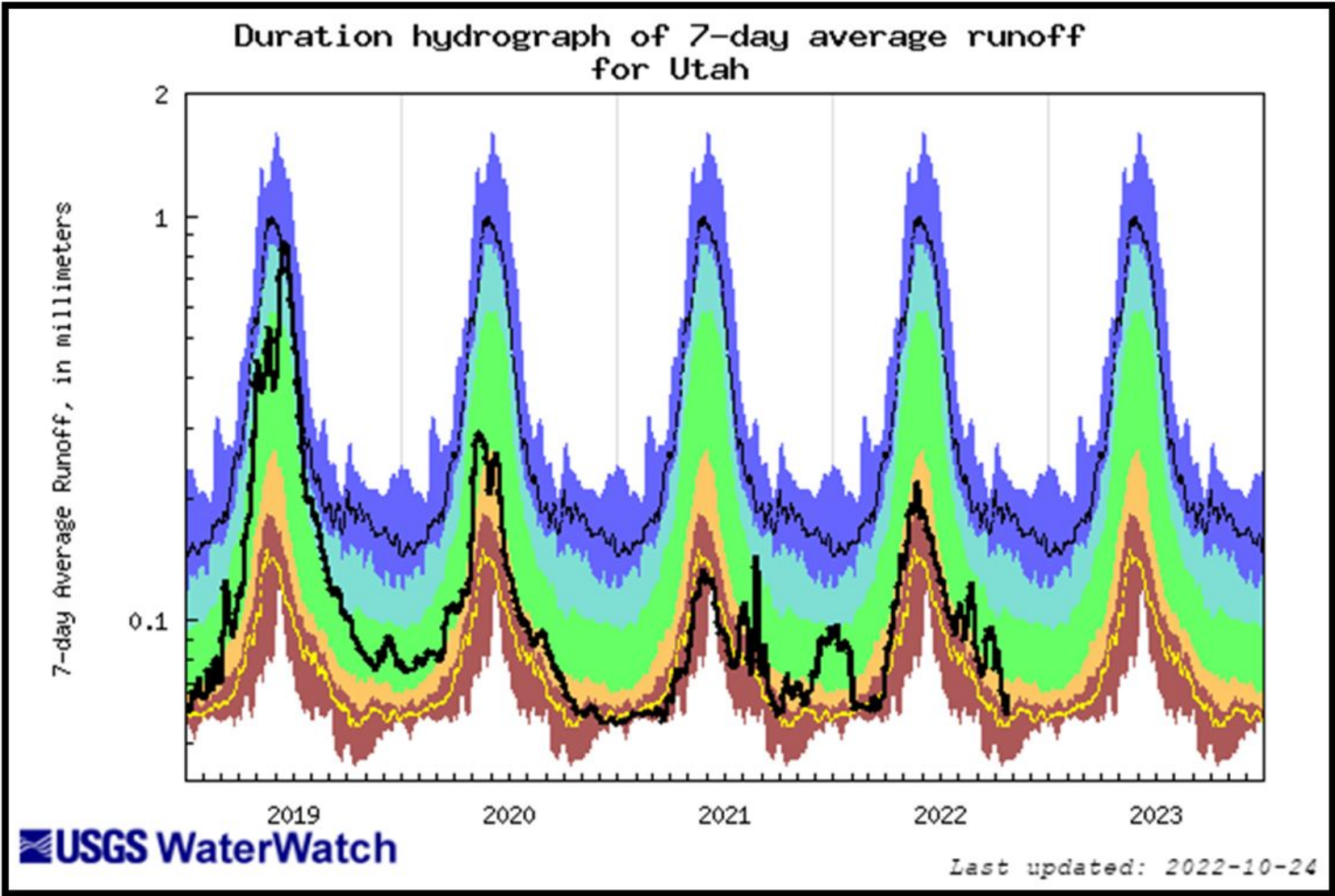
IMPORTANT Data may be provisional - [learn more](#)

Select data to graph

☐ Gage height, feet 2007-10-01 to 2022-10-25
☒ Discharge, cubic feet per second 1912-10-01 to 2022-10-25

Questions or Comments

Area Based Runoff Duration Hydrograph for Utah



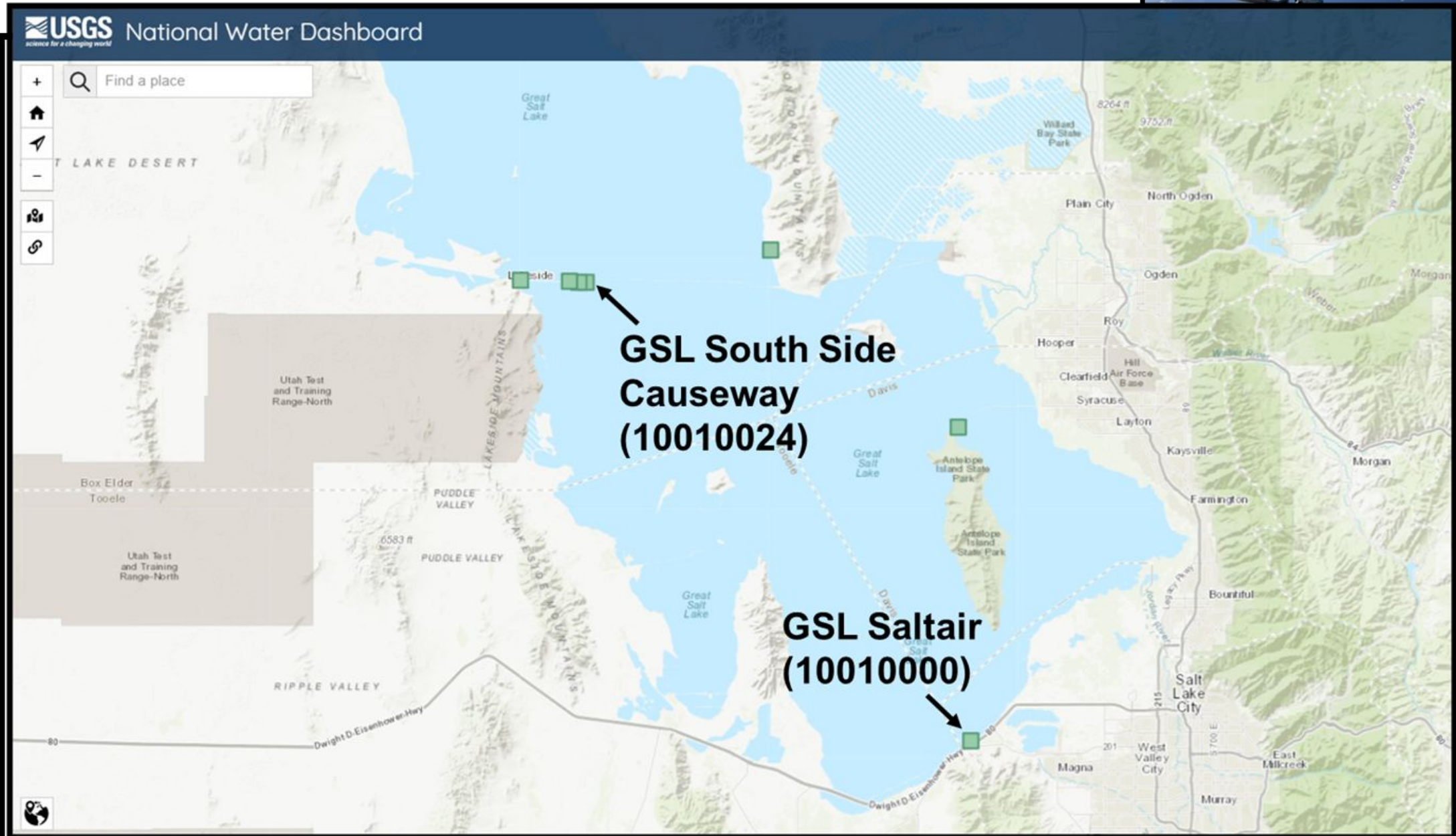
□ Area based runoff computed from mixed regulated and unregulated streamflows

| 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 | | Runoff |

Agency - USGS UT WSC
Presenter - Ryan Rowland

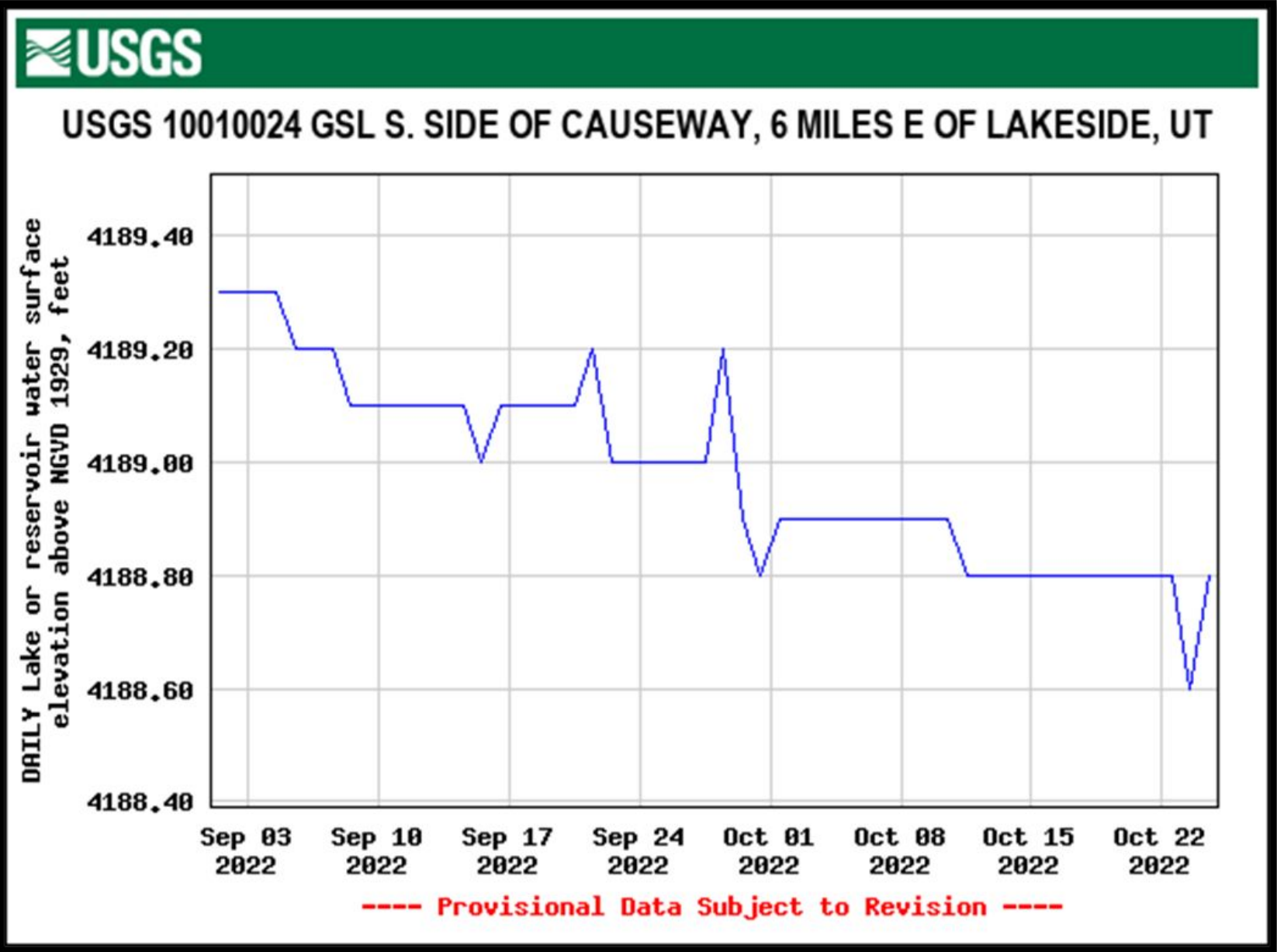


Great Salt Lake Water Surface Elevation (South Arm)



Presenter - Ryan Rowland

Great Salt Lake Water Surface Elevation (South Arm)



- Mean daily value 10/24/2022 = 4,188.8'
- Mean daily value 10/10/2022 = 4,188.9'
- Currently 2.6' below seasonal max in April

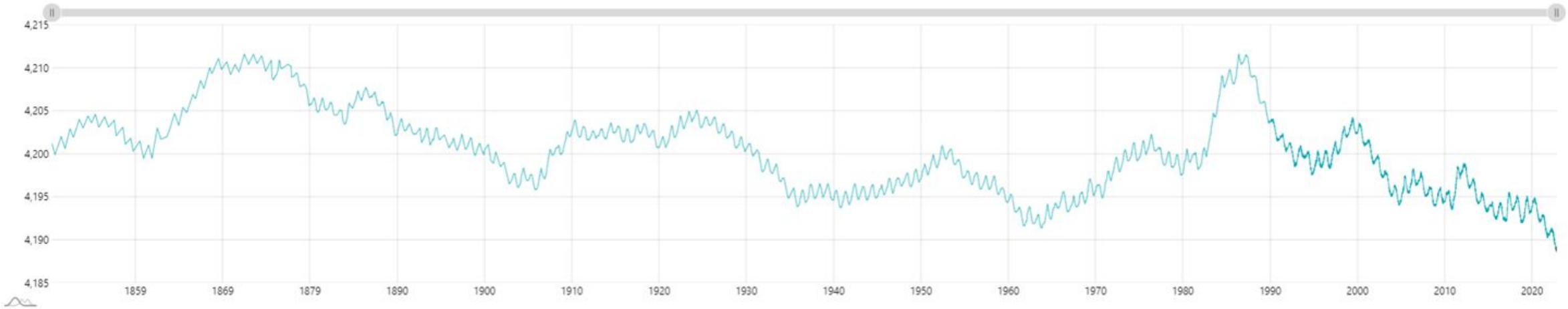
Great Salt Lake Hydro Mapper

Great Salt Lake at Saltair Boat Harbor, UT

Monitors lake elevation in the south arm and is located in the GSL Marina harbor, at the southern end of GSL. Water surface elevation measured by this gage is representative of the portion of GSL south of the railroad causeway. Historic water surface elevation measurements made at various locations on the southern end of GSL have been combined such that this gage is associated with an elevation record dating back to 1847. Some data included on this graph are [provisional](#) and may be revised.

Note that as of September 25, 2022, data for the USGS Great Salt Lake at Saltair Boat Harbor gage are temporarily unavailable due to low lake levels. Current lake levels for the southern half of the lake are available via the USGS Great Salt Lake gage on the south side of the railroad causeway (site ID 10010024), which has been added to the plot below.

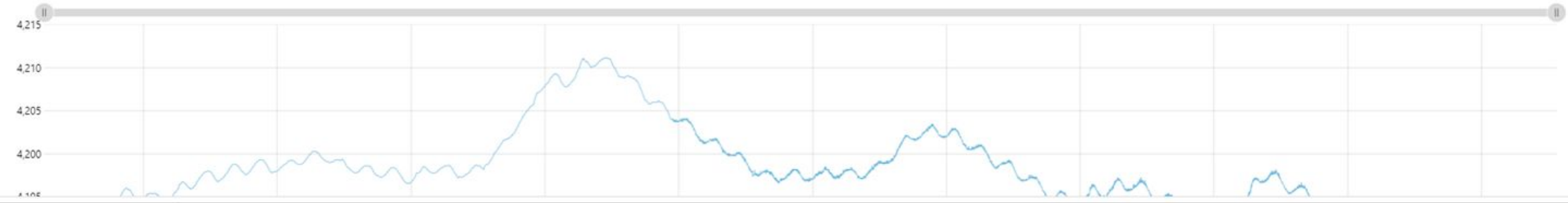
[USGS Gaging Station 10010000](#) and [USGS Gaging Station 10010024](#)



Great Salt Lake Near Saline, UT

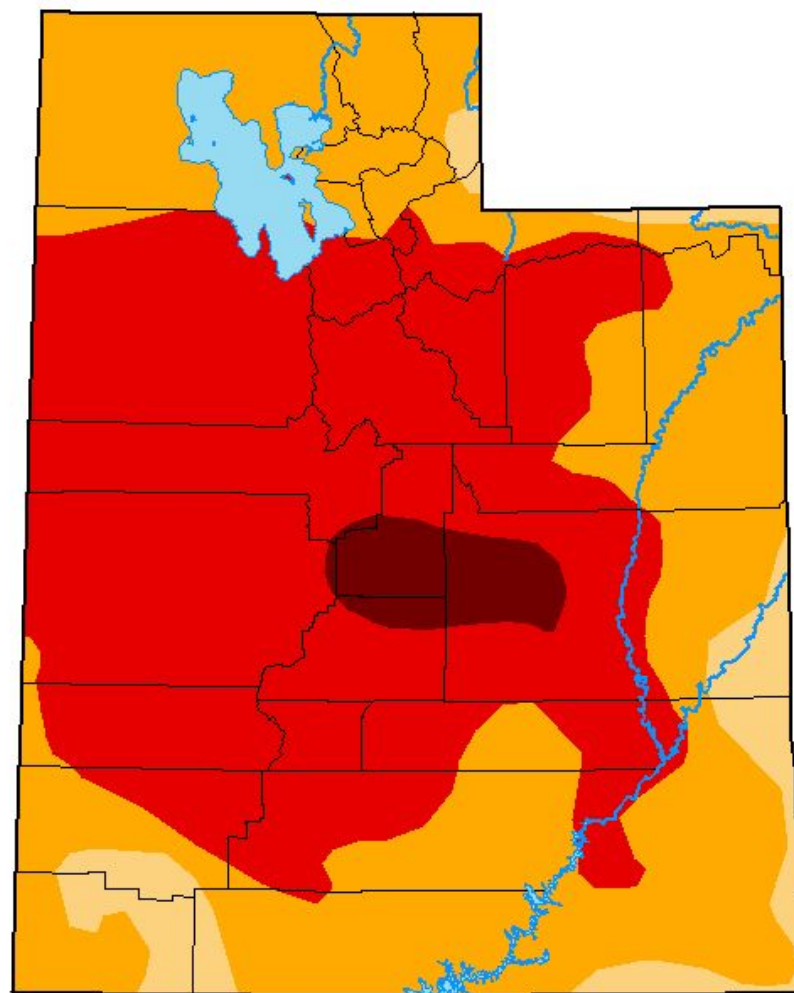
Monitors lake elevation in the north arm and is located about 3.4 miles northwest of Saline, UT, in the historic Little Valley boat harbor. Water surface elevation measured by this gage is representative of the portion of GSL north of the railroad causeway. This gage has an elevation record dating back to 1966. Some data included on this graph are [provisional](#) and may be revised.

[USGS Gaging Station 10010100](#)

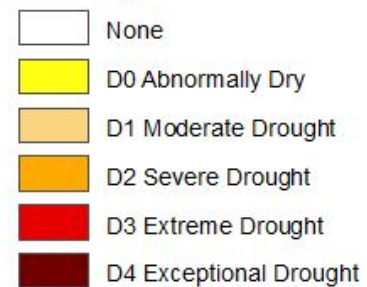


U.S. Drought Monitor Utah

October 18, 2022
(Released Thursday, Oct. 20, 2022)
Valid 8 a.m. EDT



Intensity:



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:

Adam Hartman
NOAA/NWS/NCEP/CPC



droughtmonitor.unl.edu