



Utah Drought Monitor Webinar

The meeting will begin shortly



Thank you to our contributors



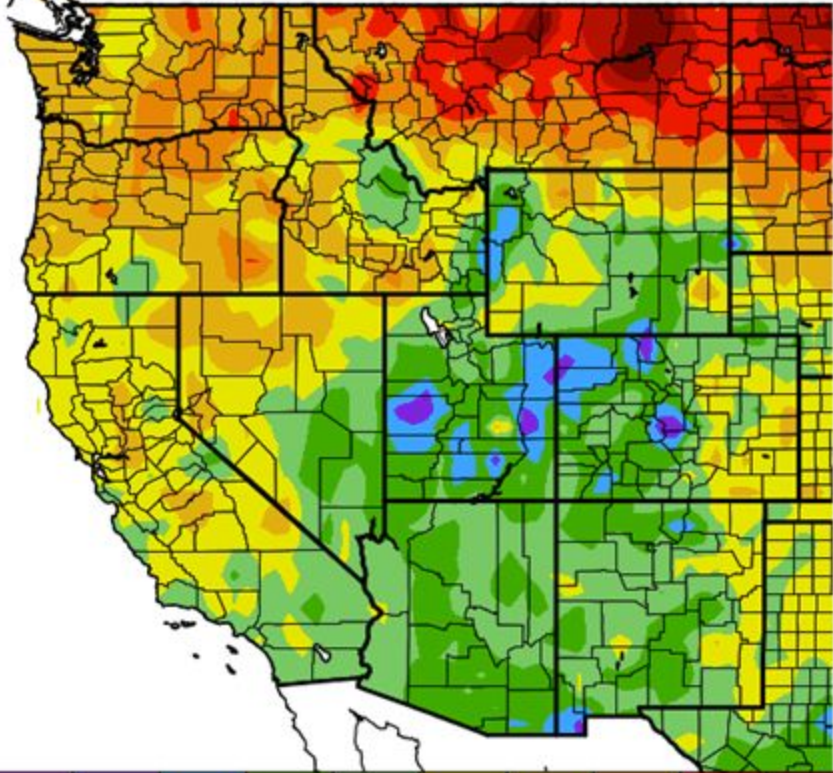


Utah Drought Monitor Webinar

January 5, 2021

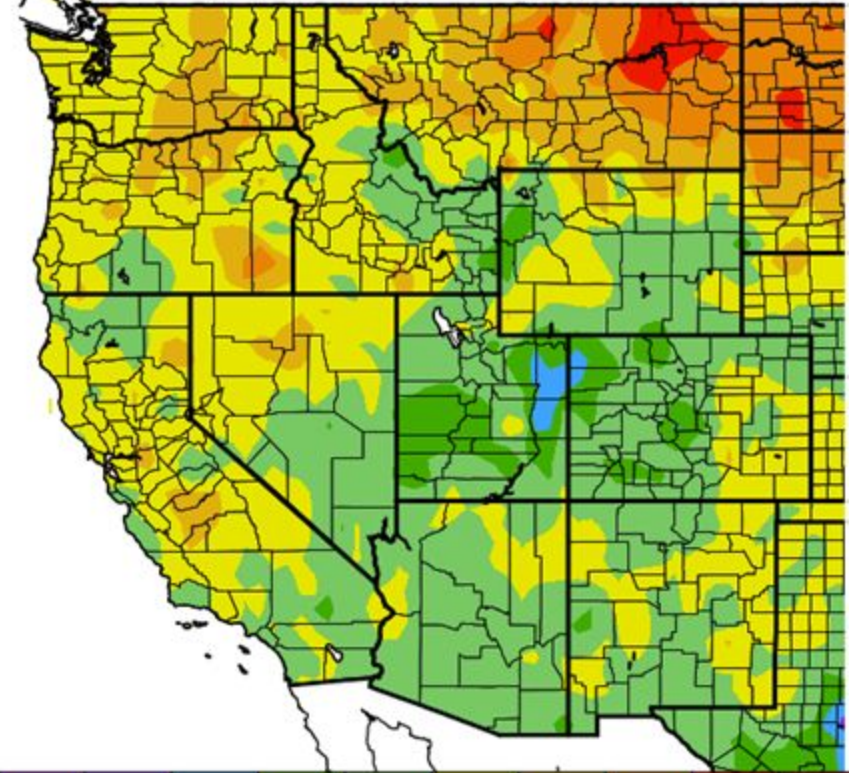
7-day Temperature

Ave. Temperature dep from Ave (deg F)
12/29/2020 – 1/4/2021



Generated 1/ 5/2021 at WRCC using provisional data.
NOAA Regional Climate Centers

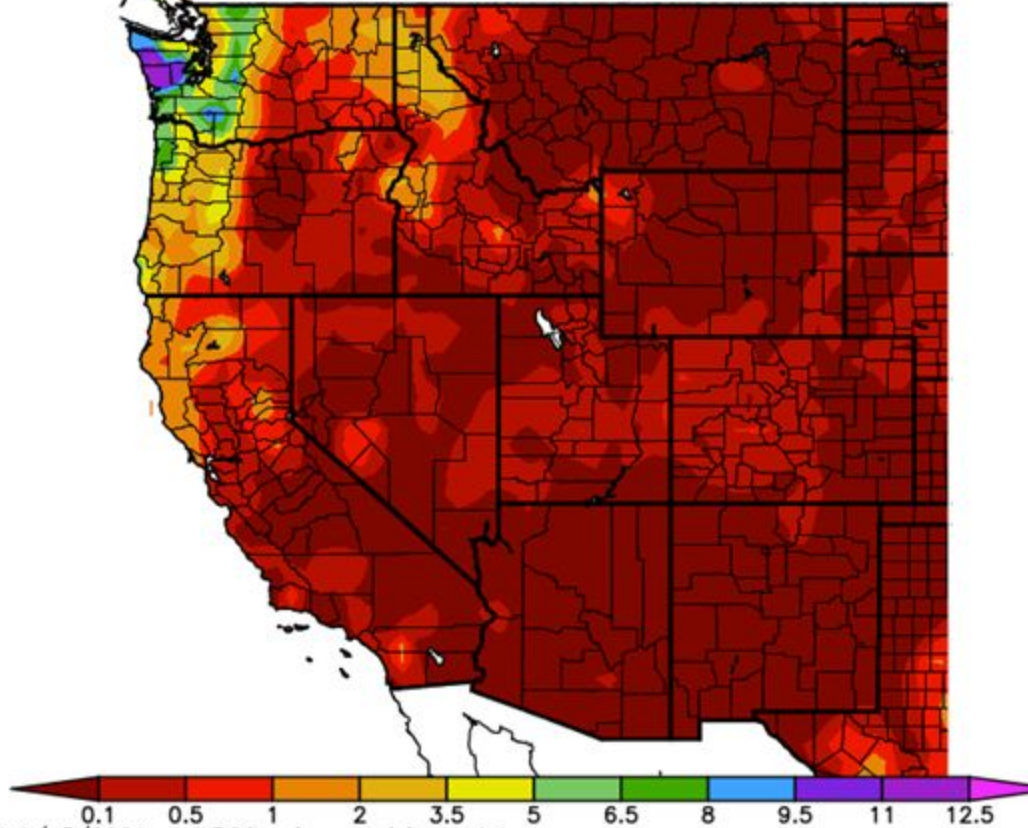
Av. Max. Temperature dep from Ave (deg F)
12/29/2020 – 1/4/2021



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NOAA Regional Climate Centers

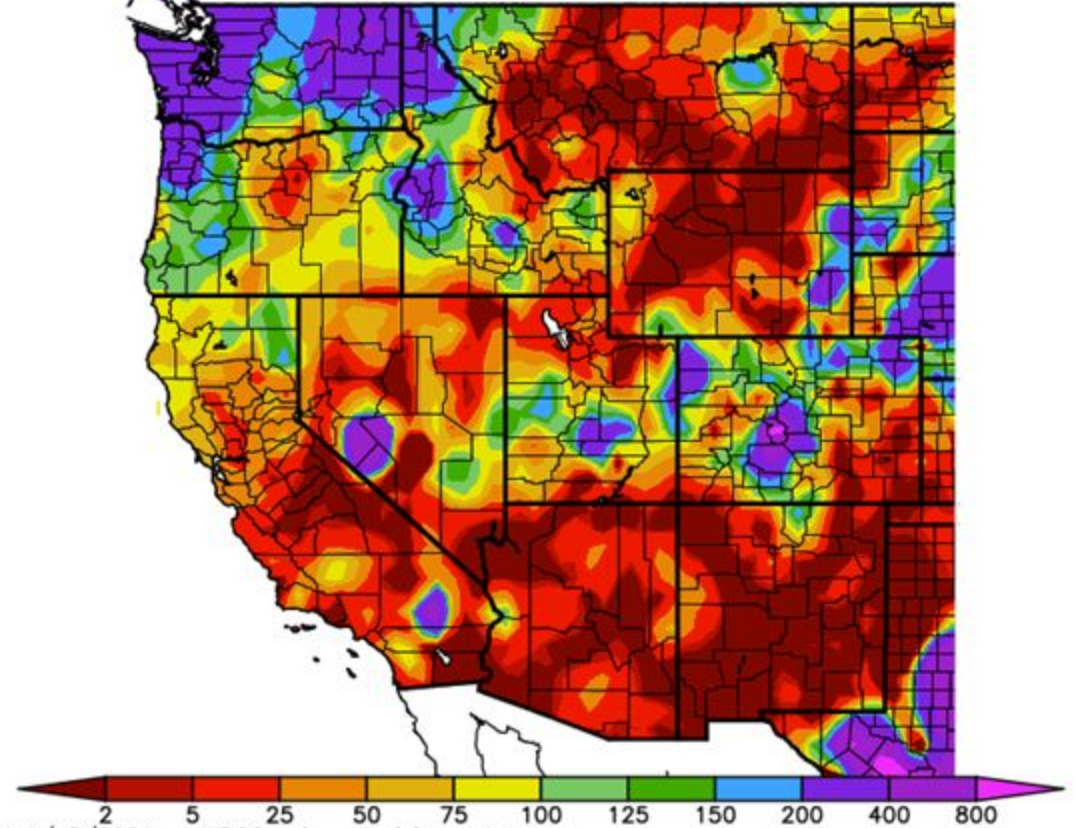
7-day Precipitation

Total Precipitation (in.)
12/29/2020 – 1/4/2021



Generated 1/ 5/2021 at WRCC using provisional data.
NOAA Regional Climate Centers

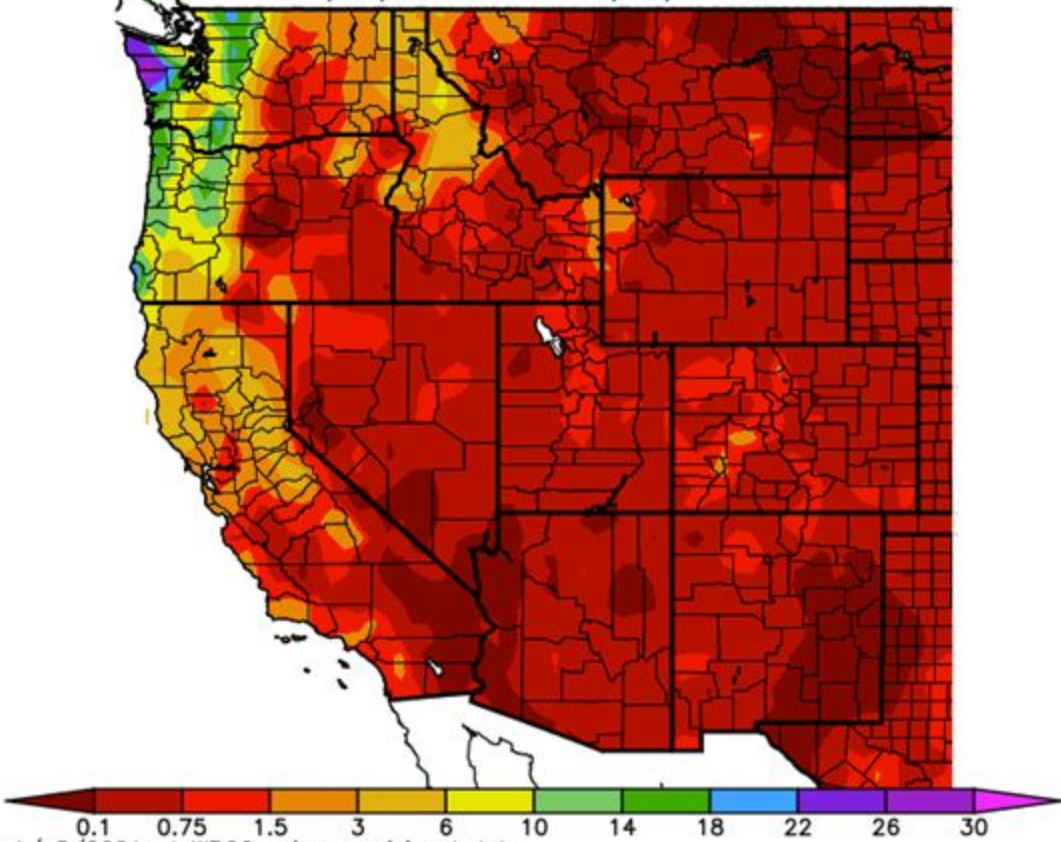
Percent of Average Precipitation (%)
12/29/2020 – 1/4/2021



Generated 1/ 5/2021 at WRCC using provisional data.
NOAA Regional Climate Centers

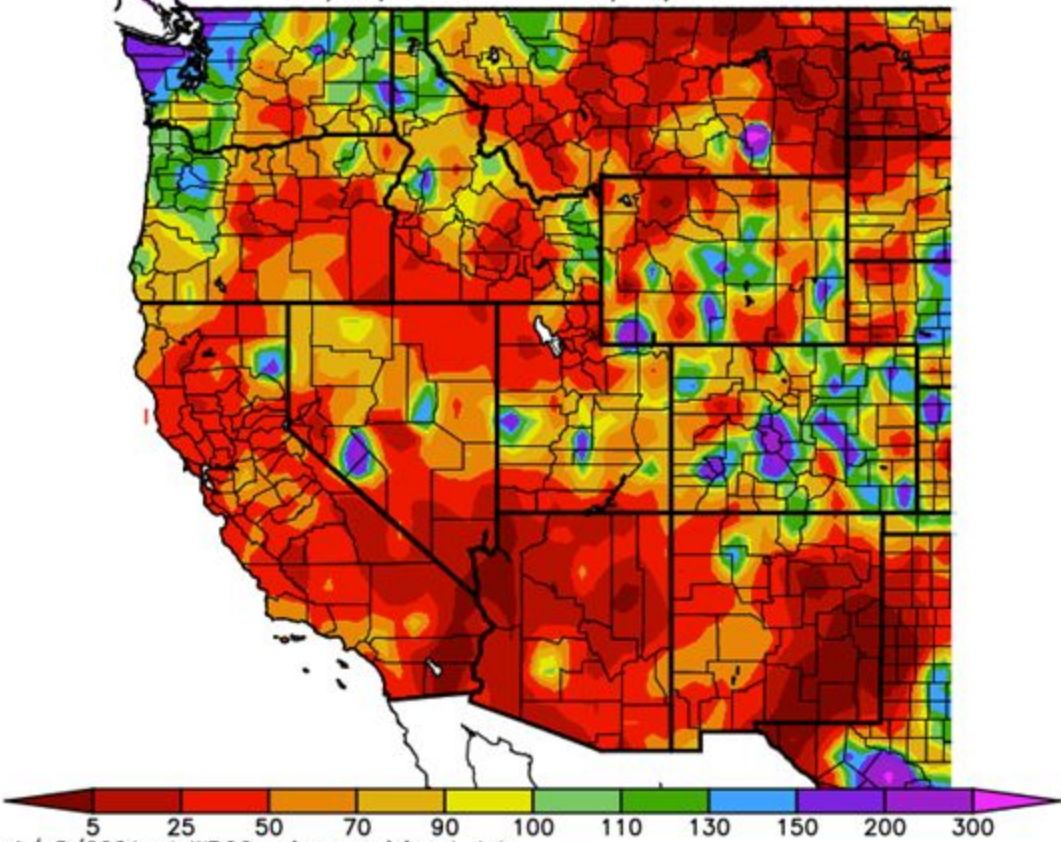
Precipitation 30 day history

Total Precipitation (in.)
12/6/2020 – 1/4/2021



Generated 1/ 5/2021 at WRCC using provisional data.
NOAA Regional Climate Centers

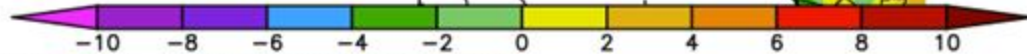
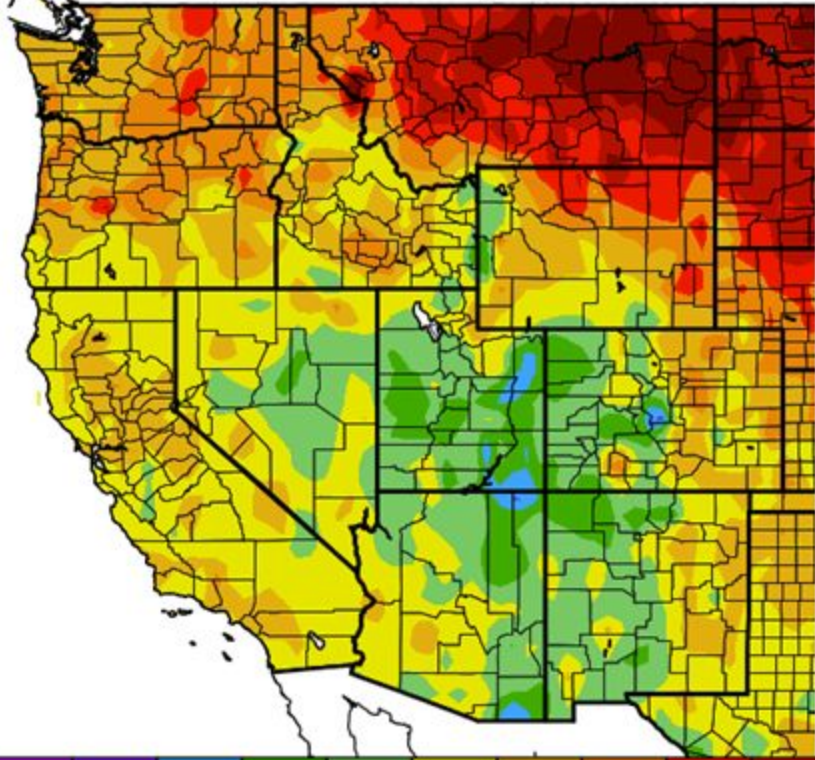
Percent of Average Precipitation (%)
12/6/2020 – 1/4/2021



Generated 1/ 5/2021 at WRCC using provisional data.
NOAA Regional Climate Centers

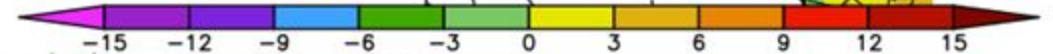
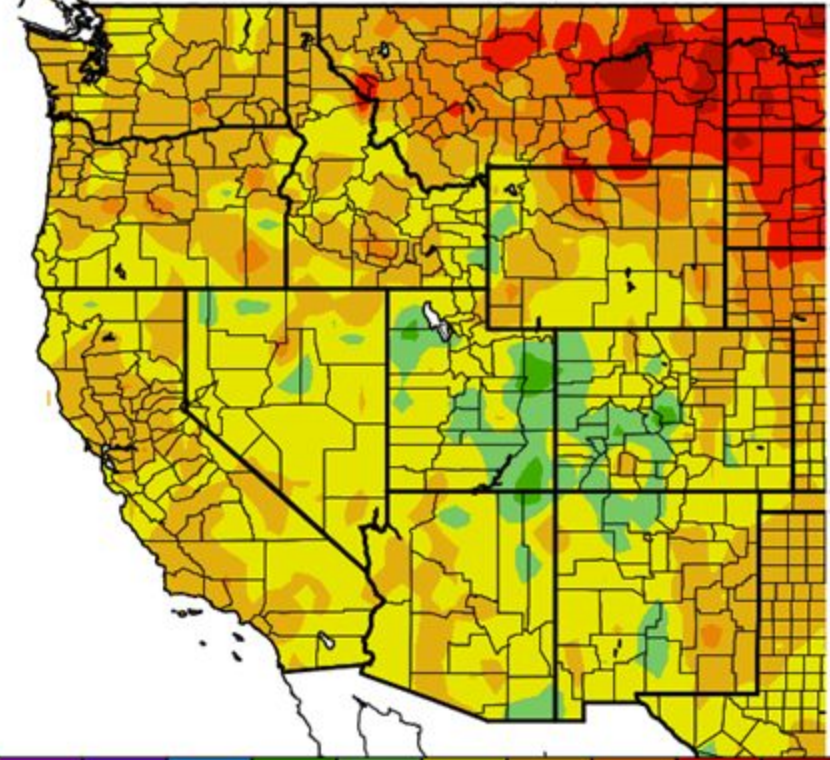
Temperature 30 day

Ave. Temperature dep from Ave (deg F)
12/6/2020 – 1/4/2021



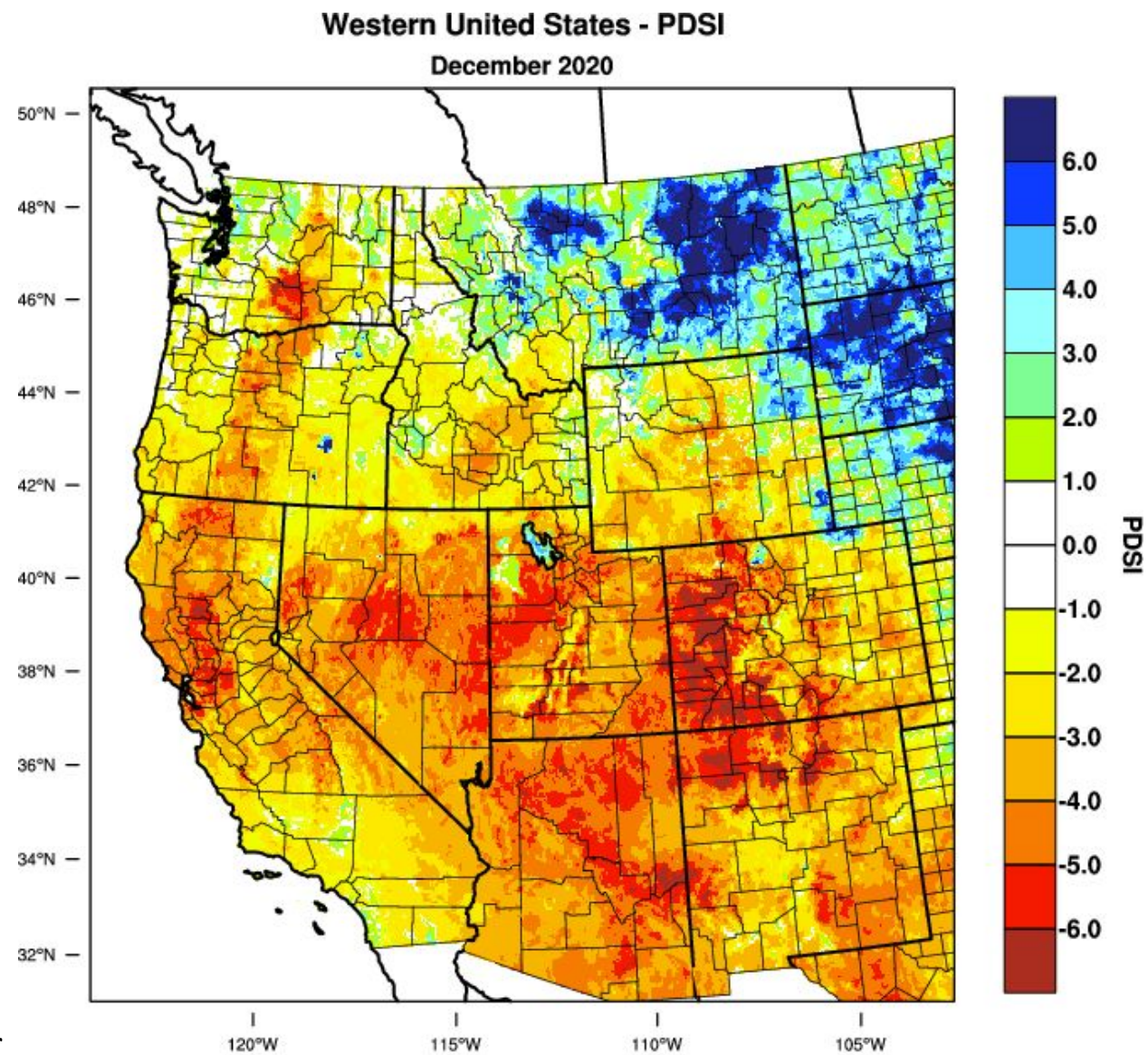
Generated 1/ 5/2021 at WRCC using provisional data.
NOAA Regional Climate Centers

Av. Max. Temperature dep from Ave (deg F)
12/6/2020 – 1/4/2021



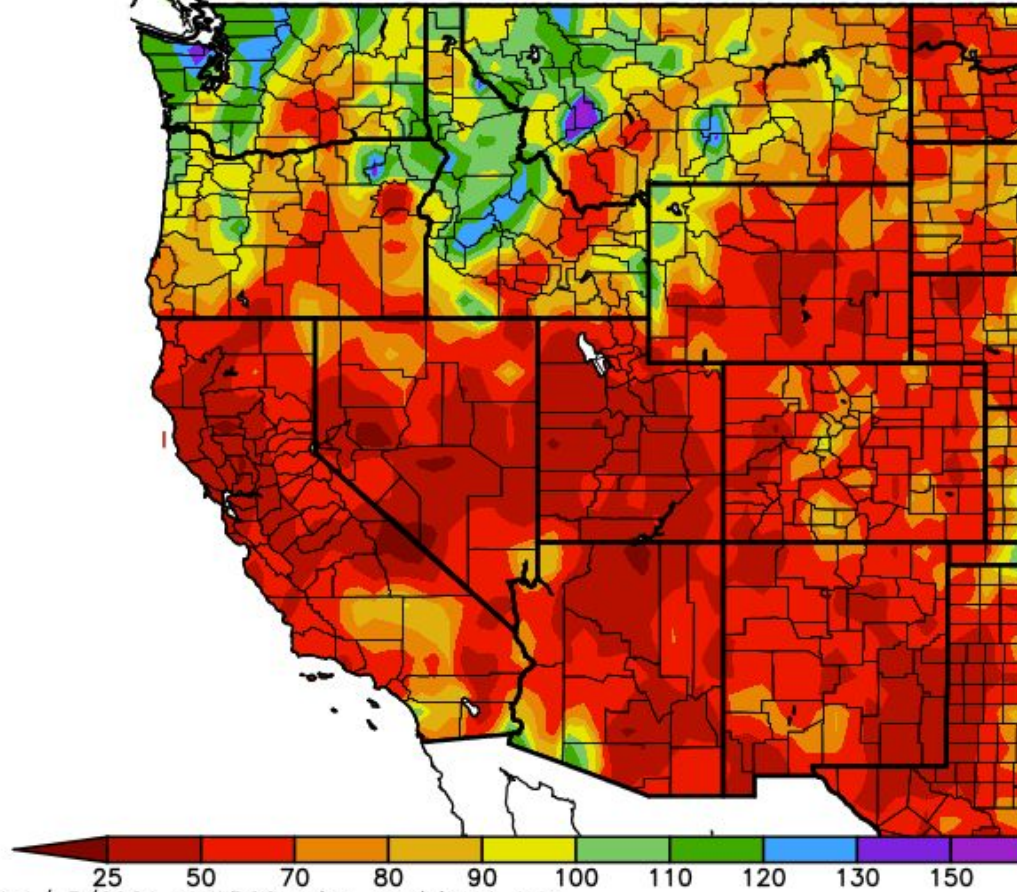
Generated 1/ 5/2021 at WRCC using provisional data.
NOAA Regional Climate Centers

December Palmer Drought Severity Index



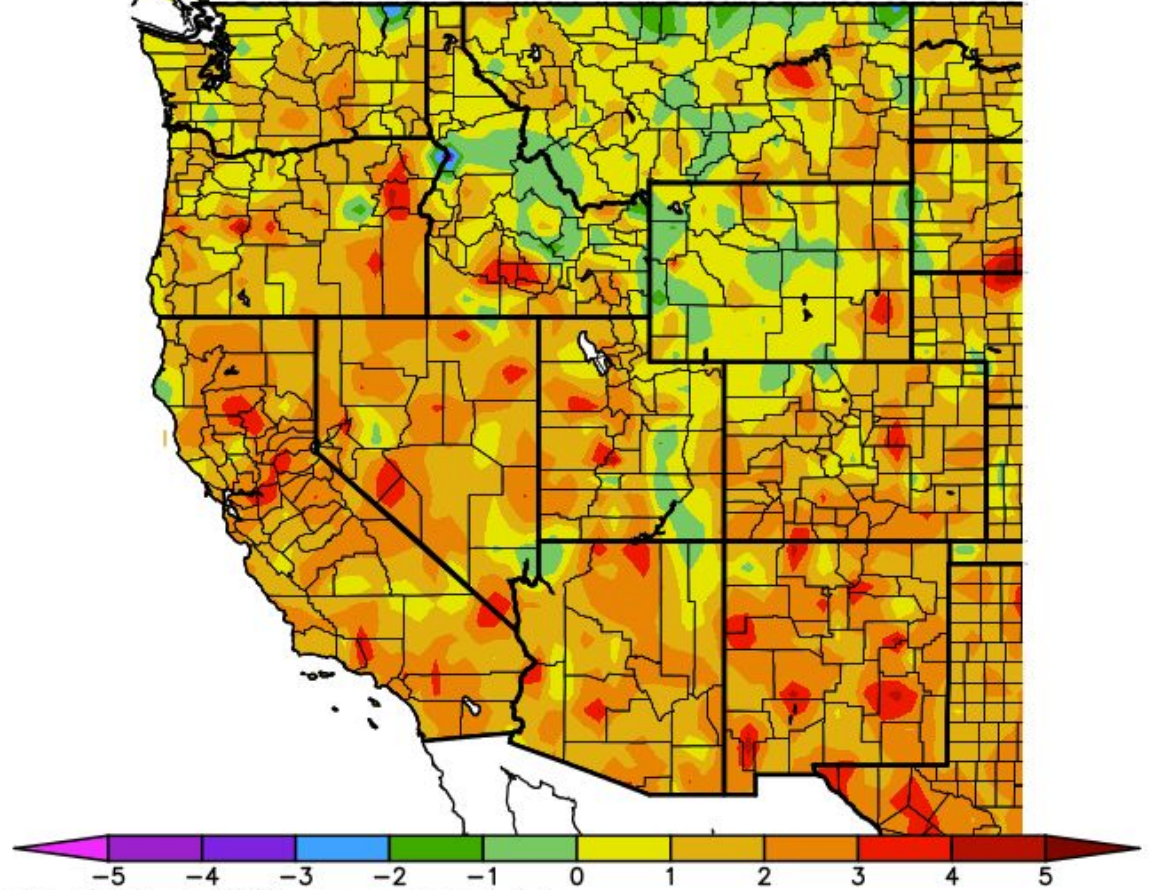
2020 Climate Summary

Percent of Average Precipitation (%)
1/5/2020 – 1/4/2021



Generated 1/ 5/2021 at WRCC using provisional data.
NOAA Regional Climate Centers

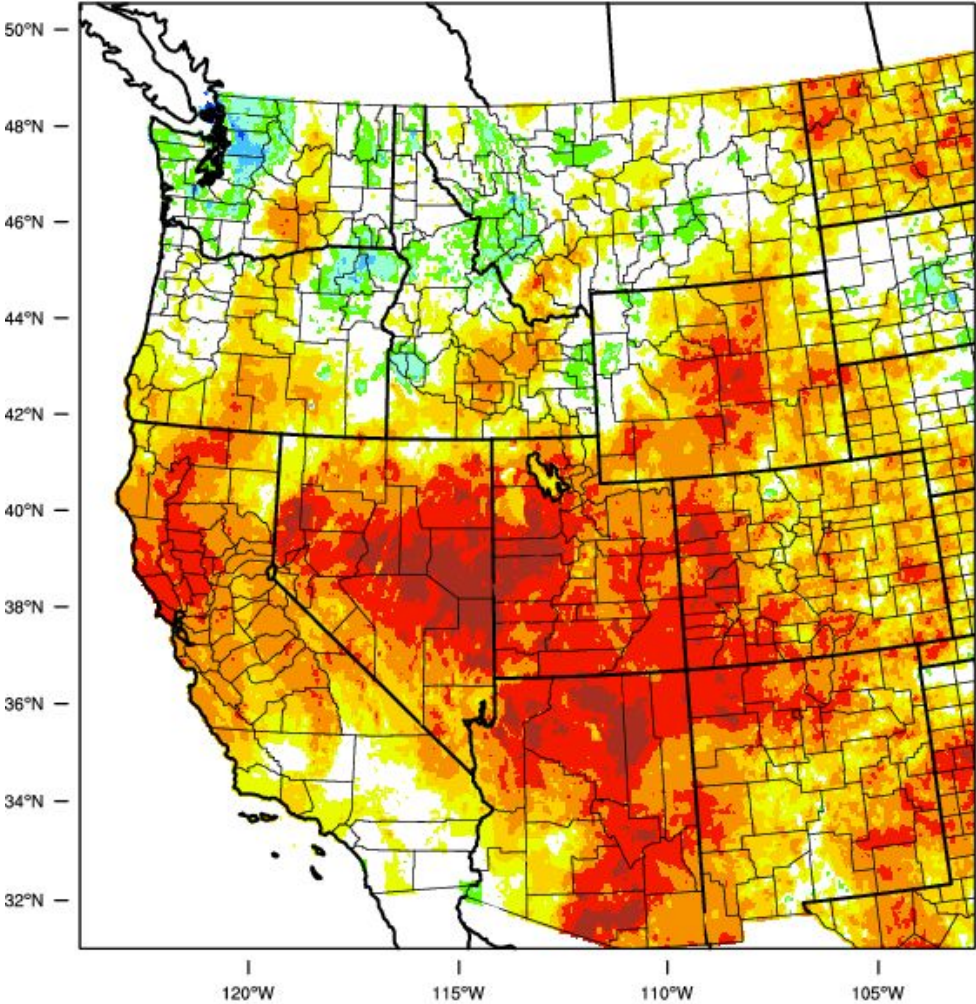
Ave. Temperature dep from Ave (deg F)
1/5/2020 – 1/4/2021



Generated 1/ 5/2021 at WRCC using provisional data.
NOAA Regional Climate Centers

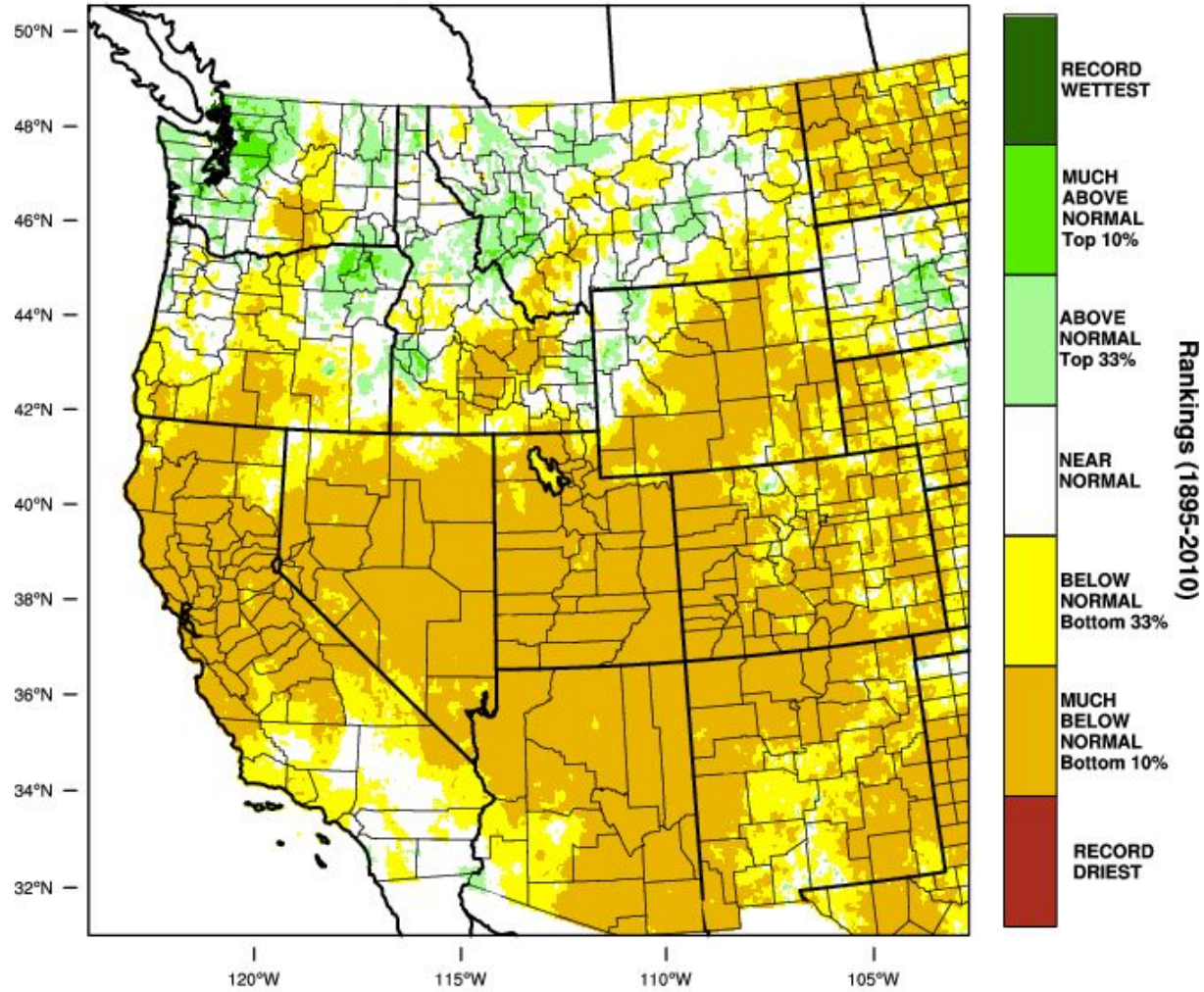
2020 Climate Summary

Western United States - 12 month SPI
December 2020



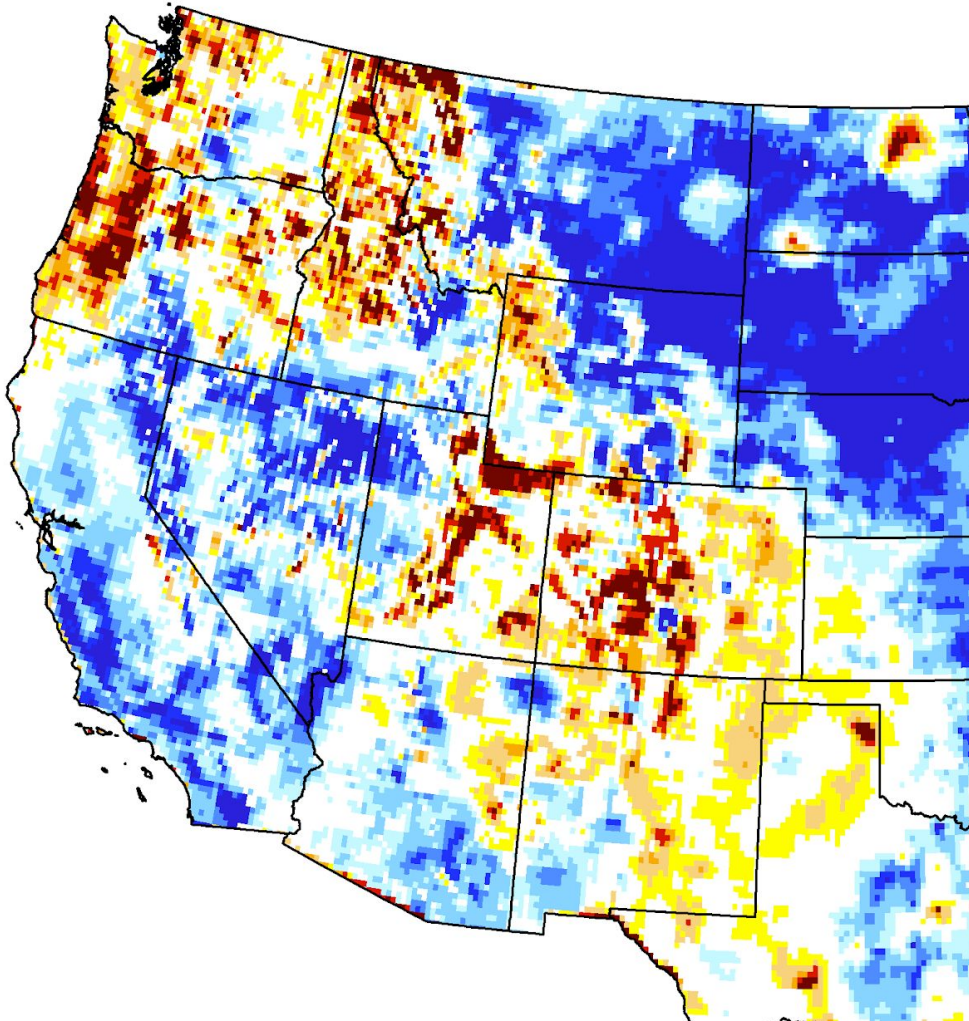
WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 JAN 2021

Western United States - Precipitation
January-December 2020 Percentile

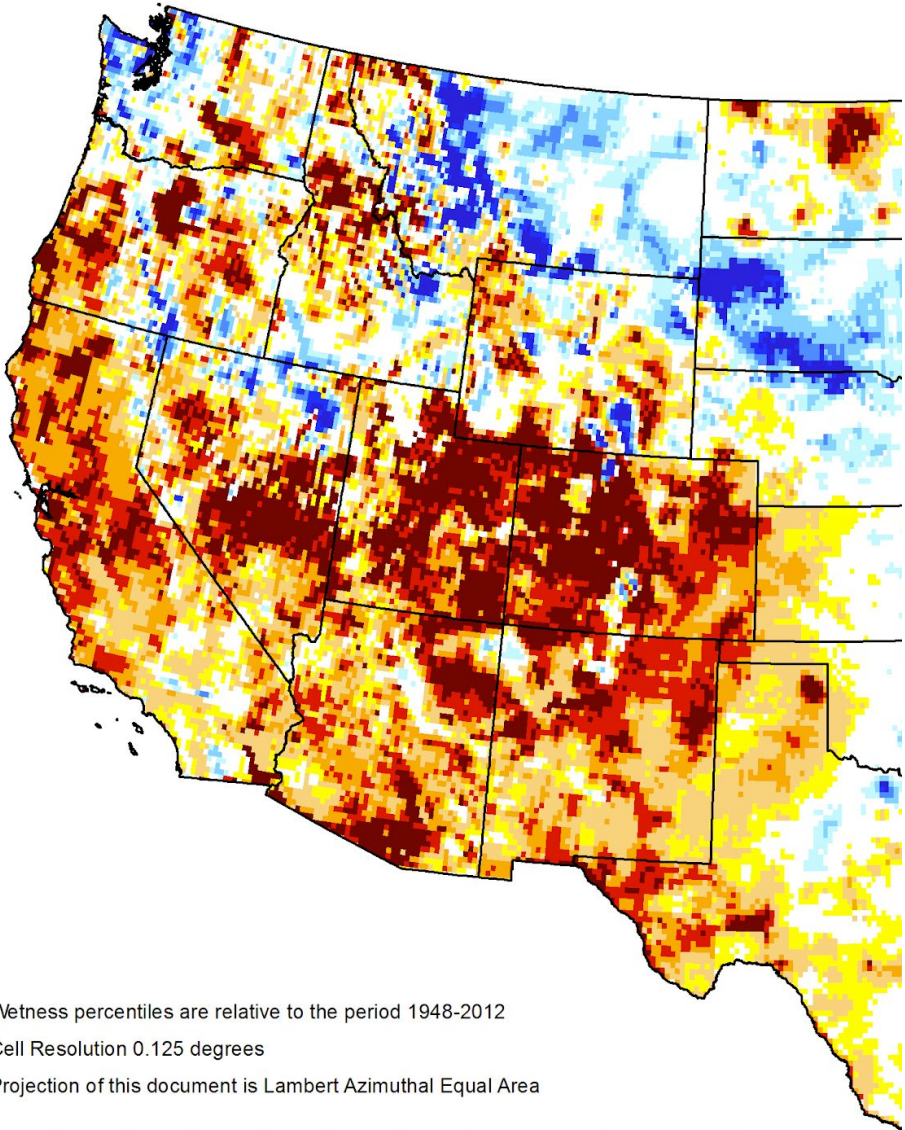


WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 JAN 2021

2020 GRACE Satellite Groundwater Trends: Jan 2020 vs Jan 2021



Agency - Utah Climate Center
Presenter - Jon Meyer

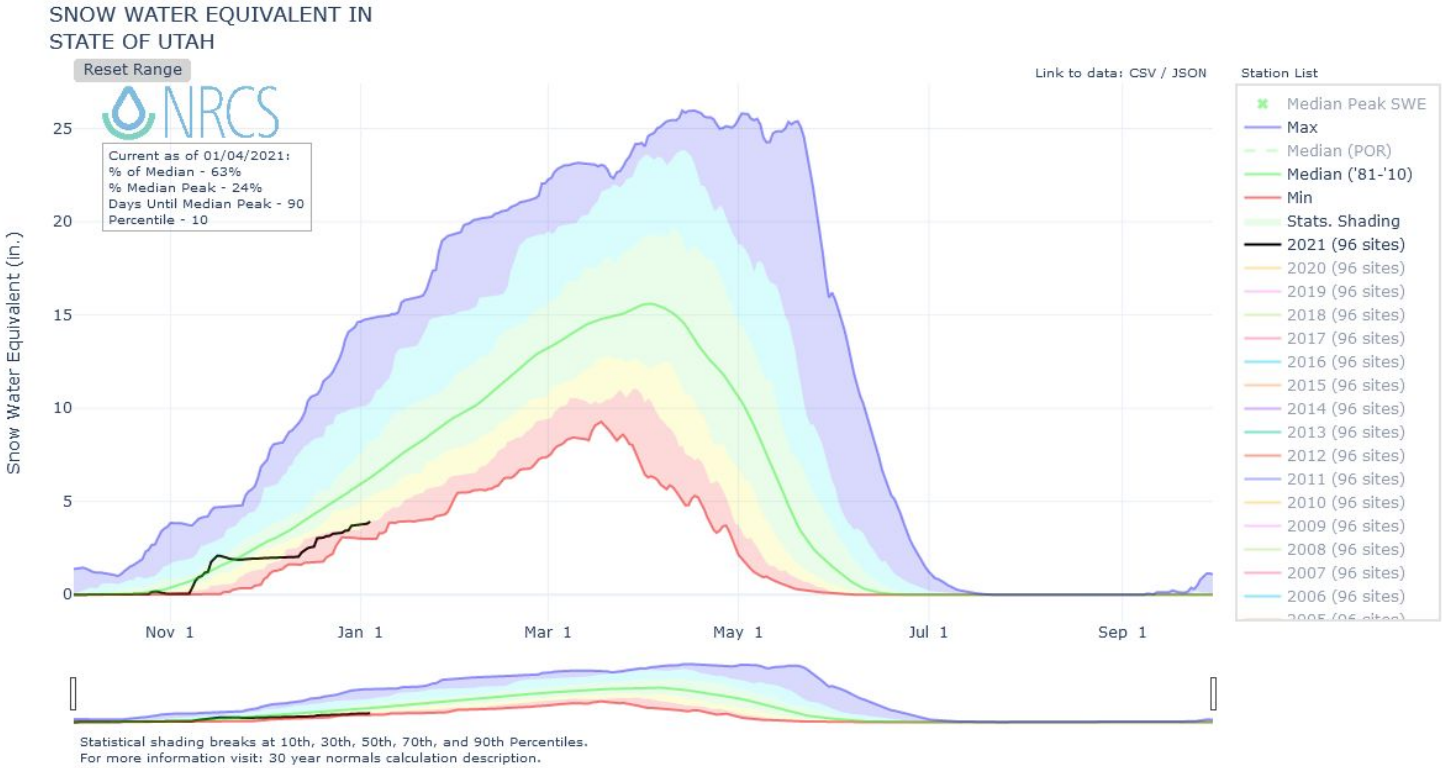


Wetness percentiles are relative to the period 1948-2012
Cell Resolution 0.125 degrees
Projection of this document is Lambert Azimuthal Equal Area

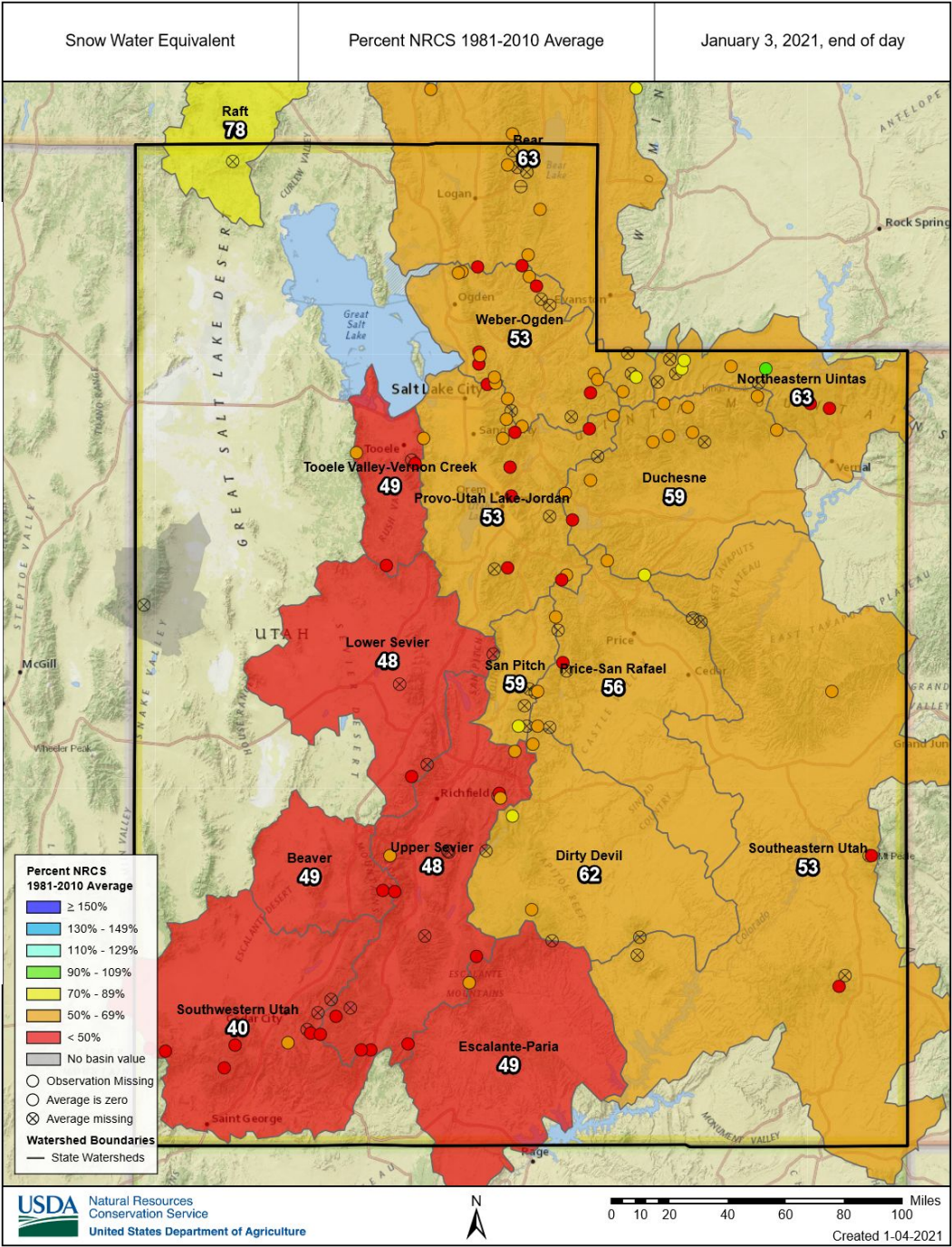
2 5 10 20 30 70 80 90 95 98

Wetness Percentile

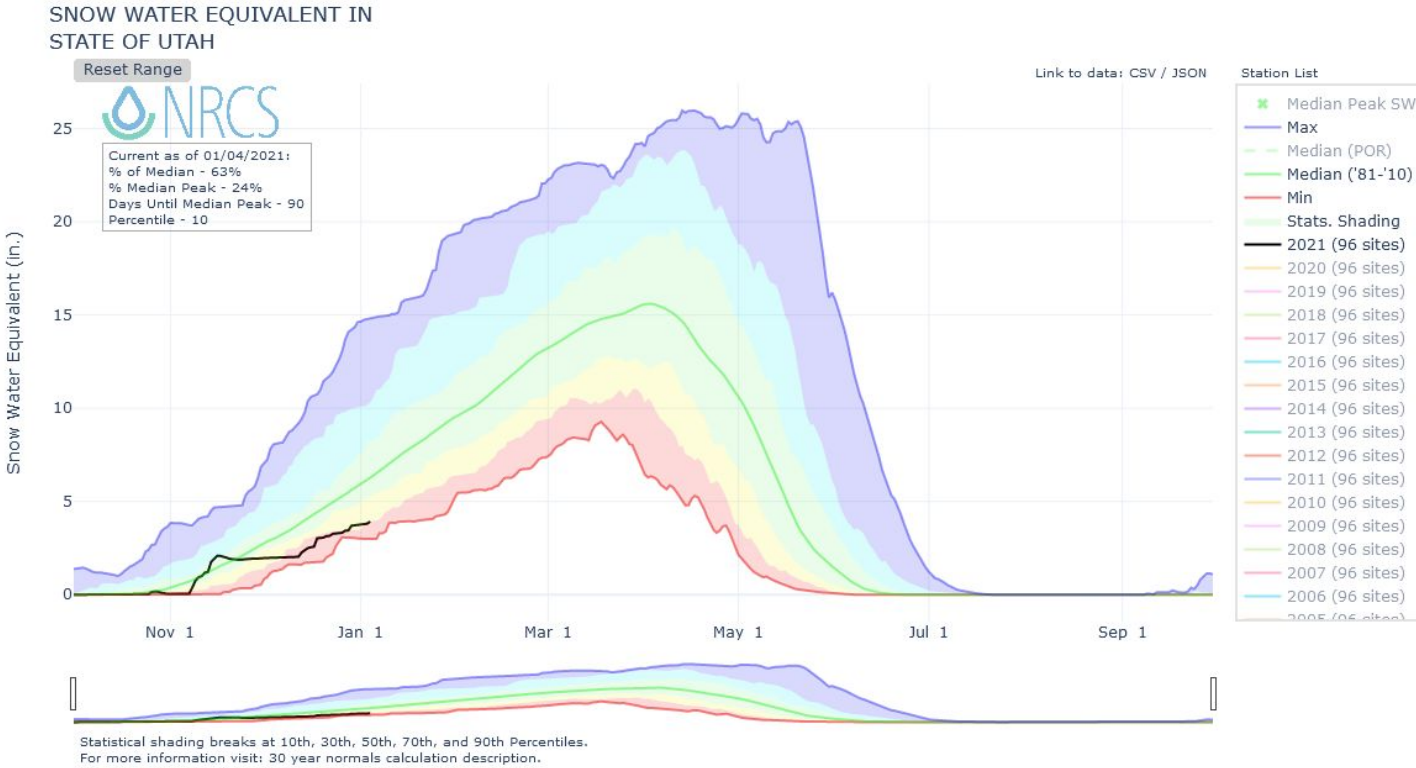
Snowpack (% normal)



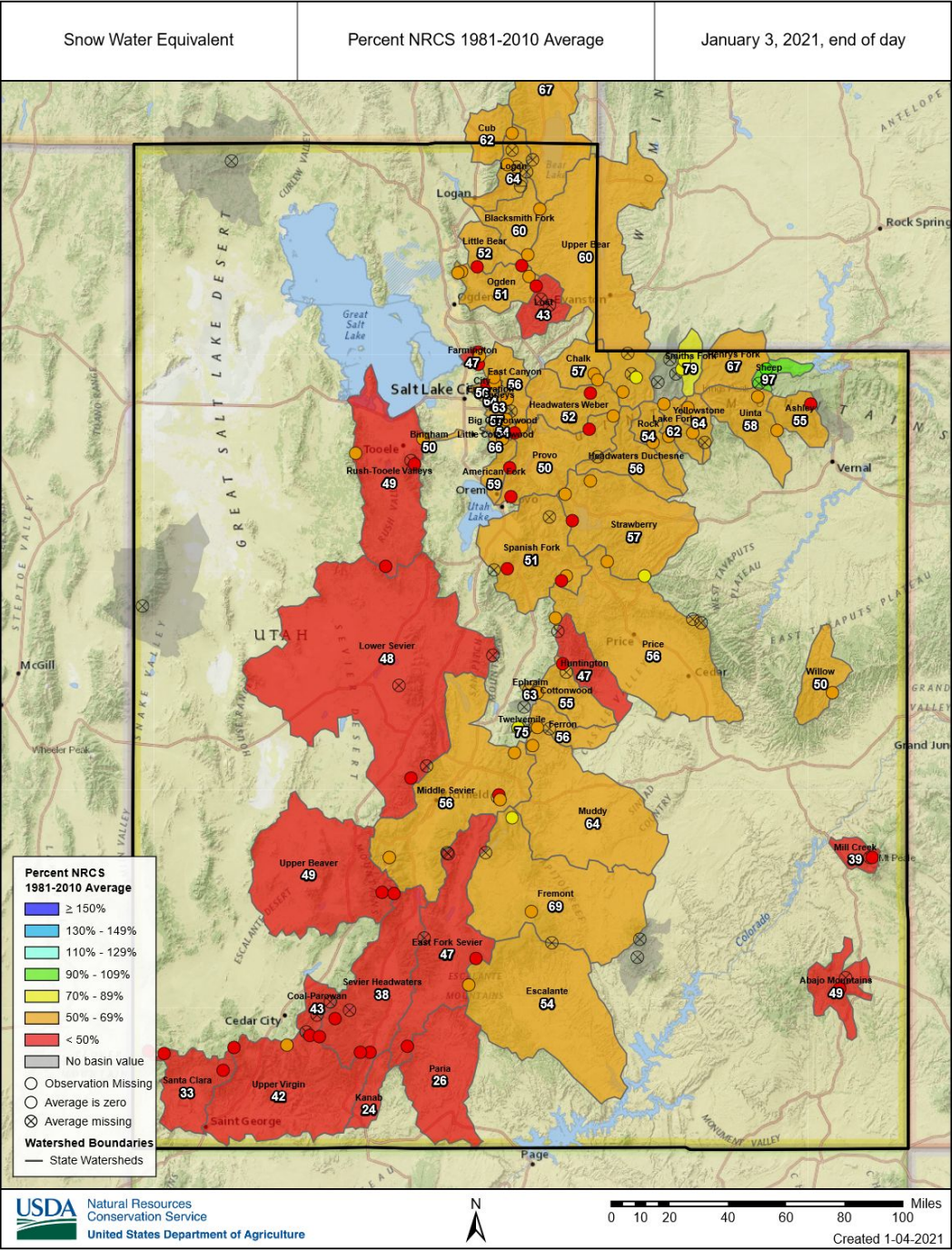
Agency - NRCS Snow Survey
Presenter - Jordan Clayton



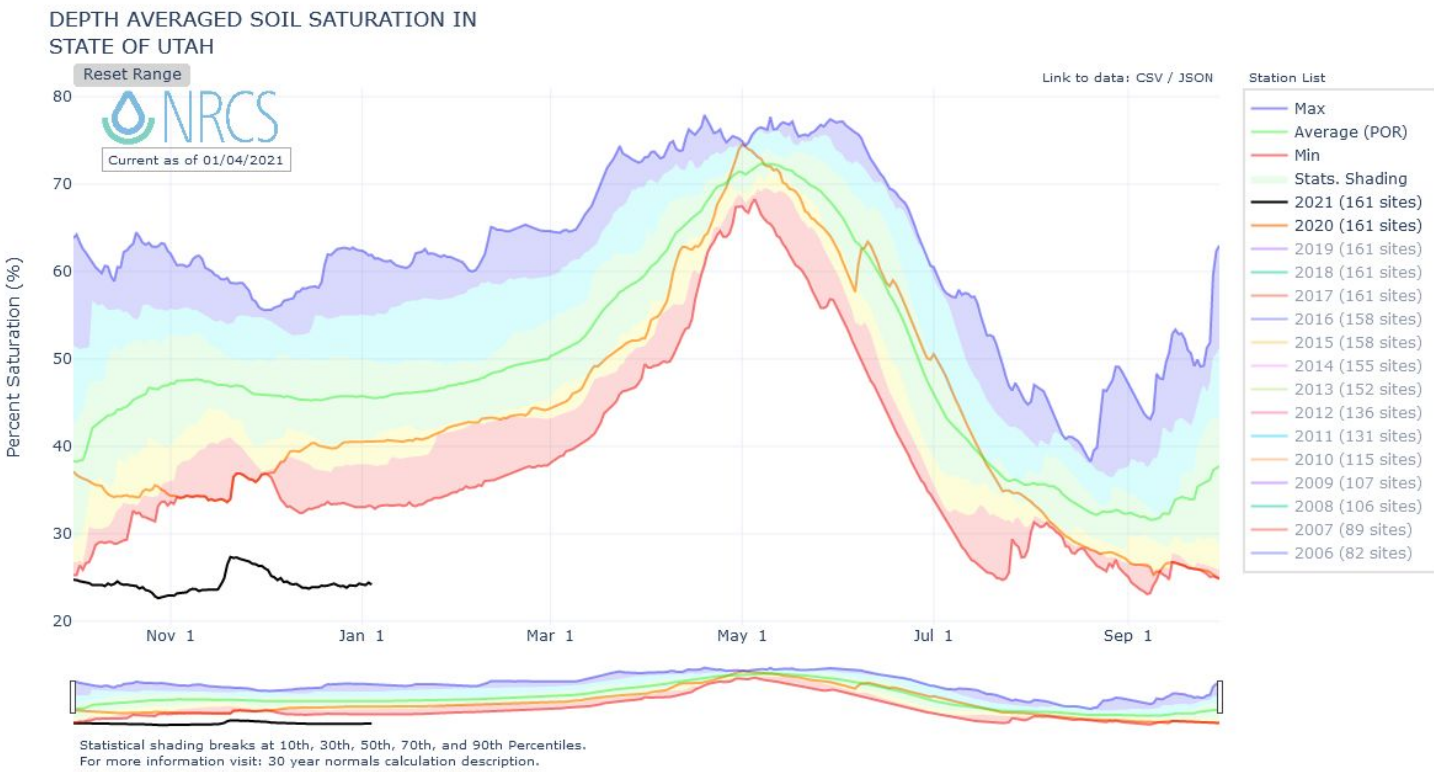
Snowpack (% normal)



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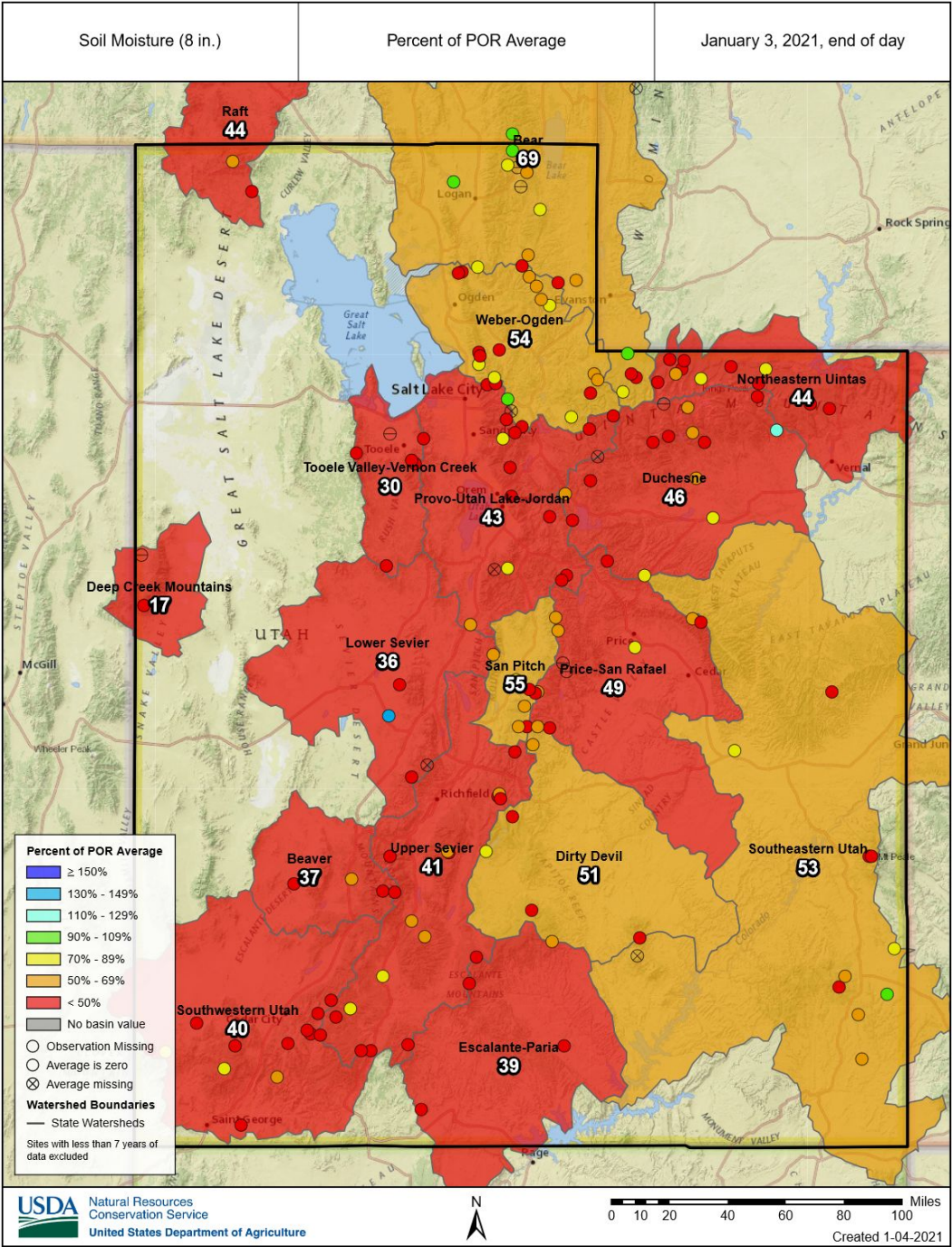
Soil Moisture



Depth-averaged (SNOTEL only)

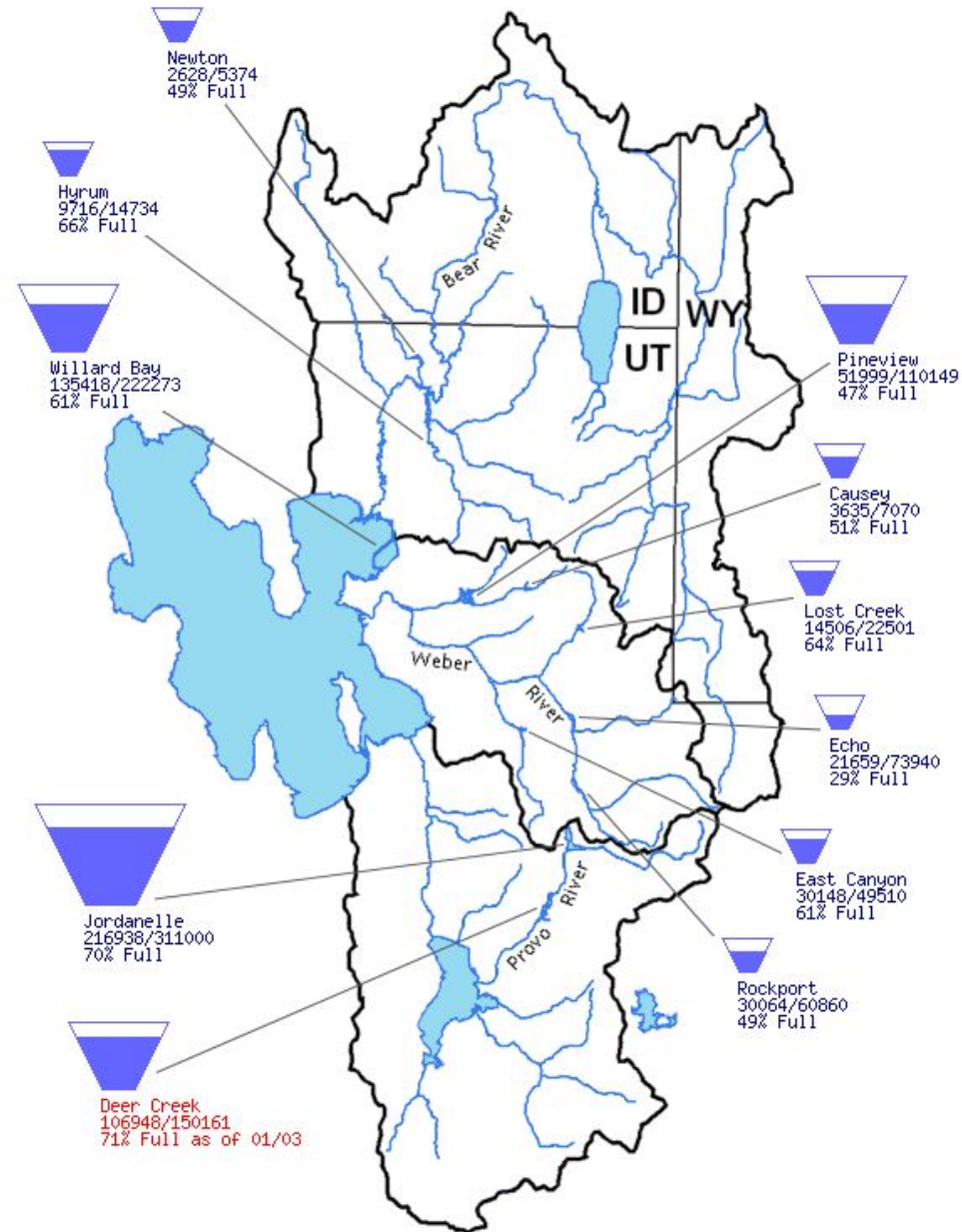
8" SM sensor (SNOTEL & SCAN)

Agency - NRCS Snow Survey
Presenter - Jordan Clayton



Data Current as of:
01/04/2021

Bear, Weber, and Provo River Basins



In the last three weeks

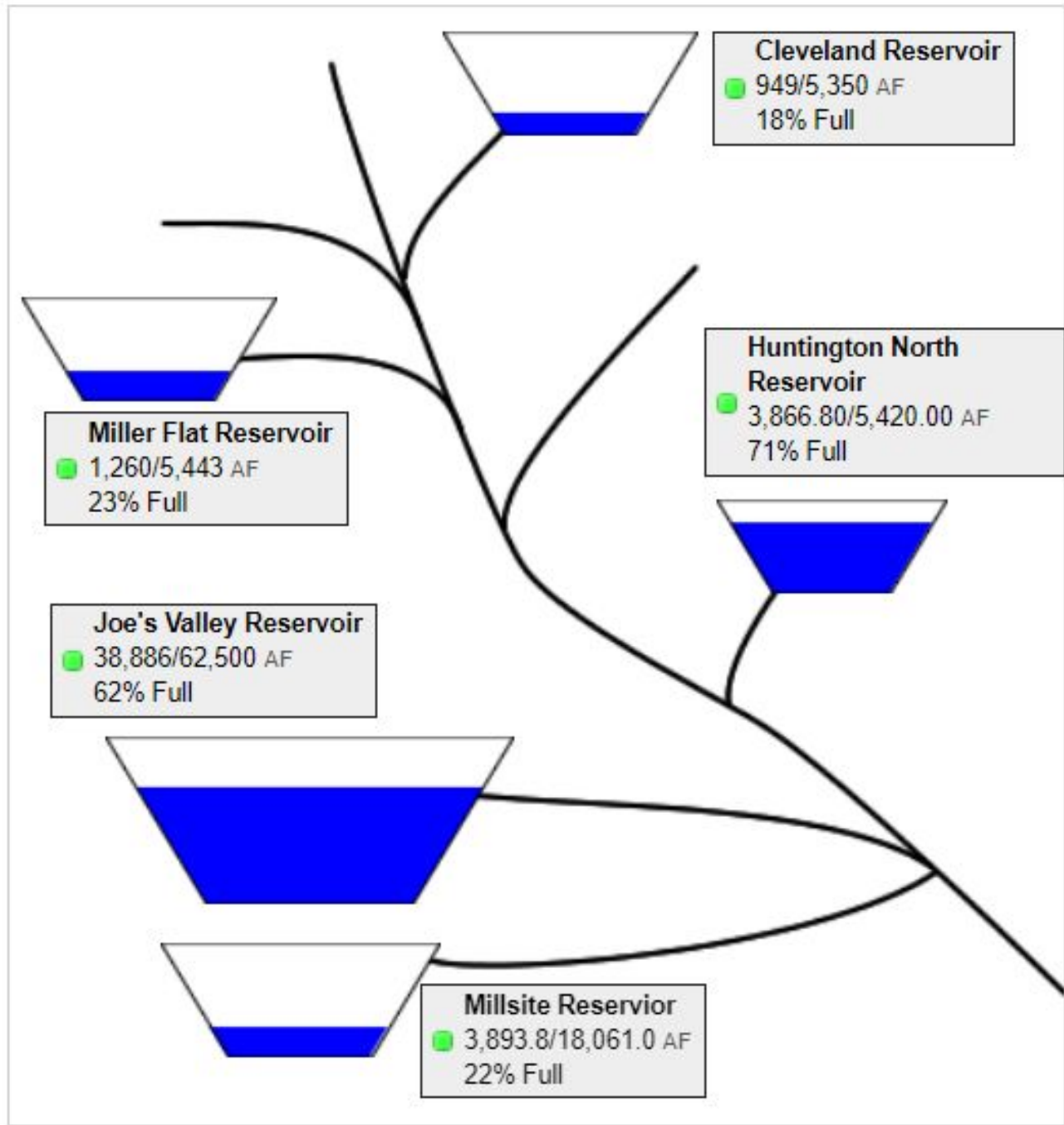
Bear River Basin: Willard Bay has gone down slightly. Newton has gone up slightly.

Weber River Basin: reservoir levels have remained basically the same

Provo River Basin: reservoir levels have remained basically the same

In the last three weeks

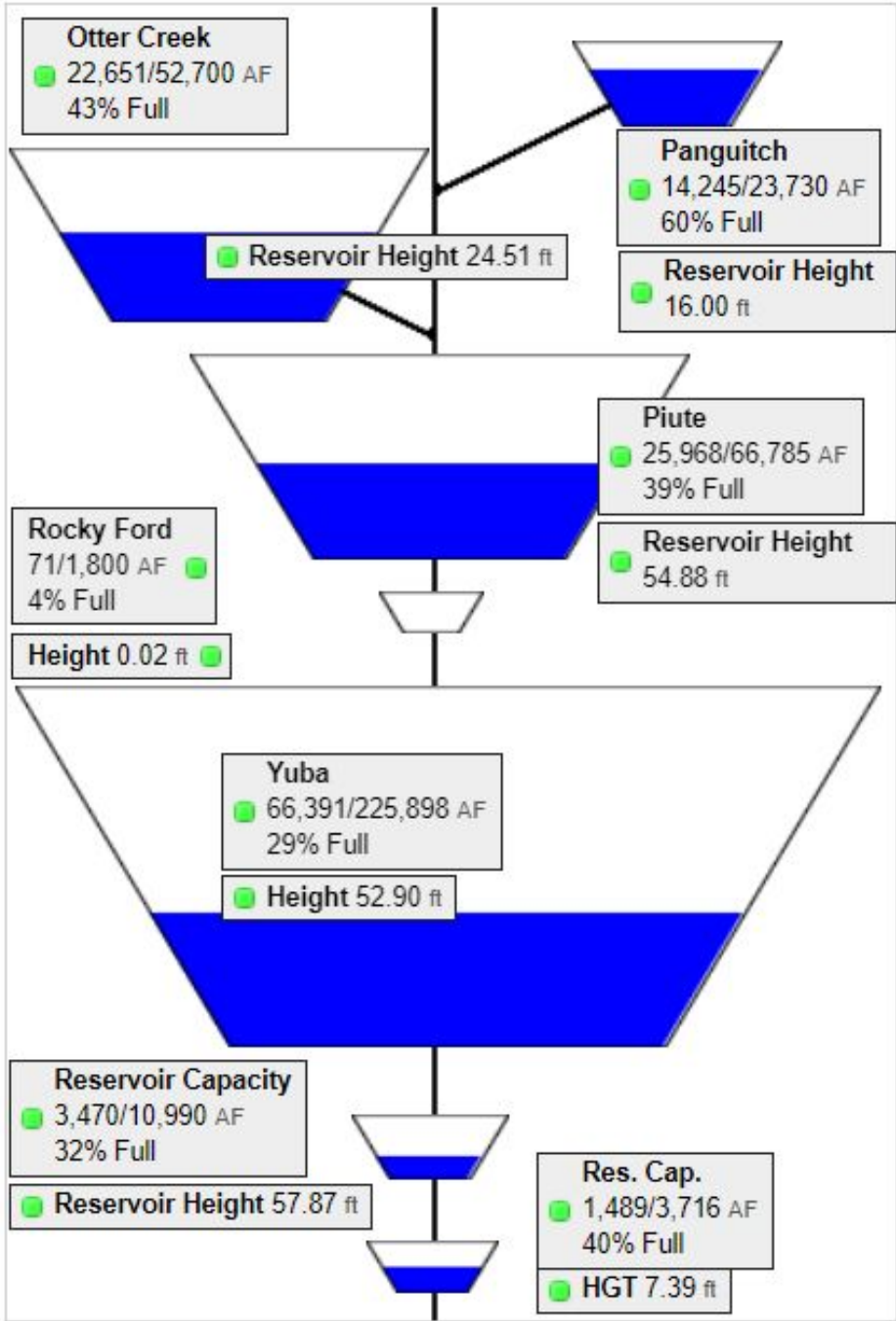
Huntington North has gone up 10%
Remaining basin storage has stayed
about the same



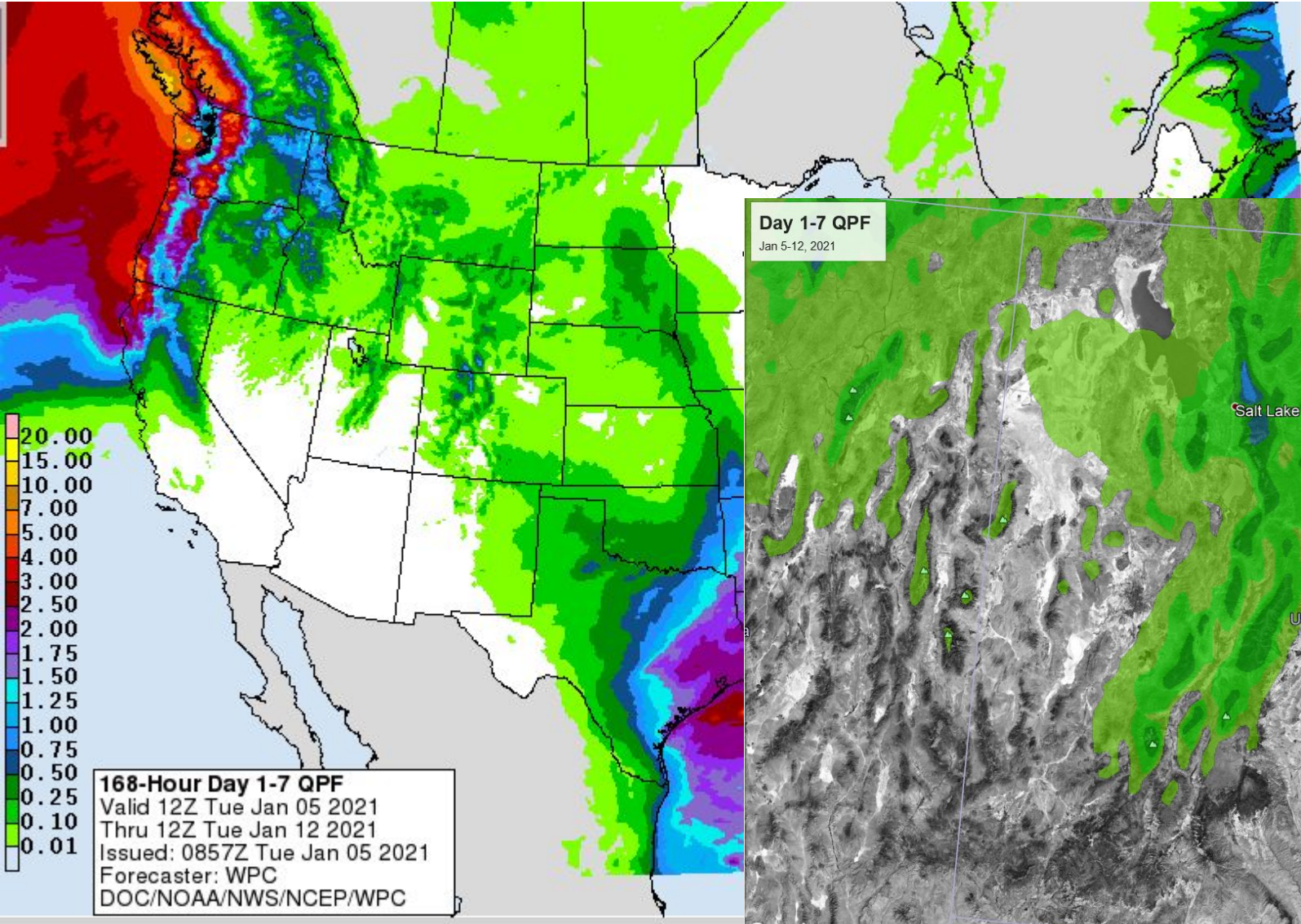
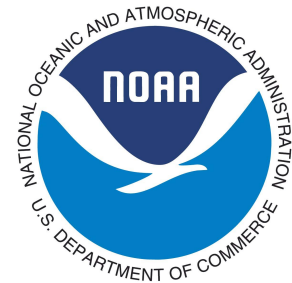
In the last three weeks

Basin storage has gone from 110,829 to 117,612 AF

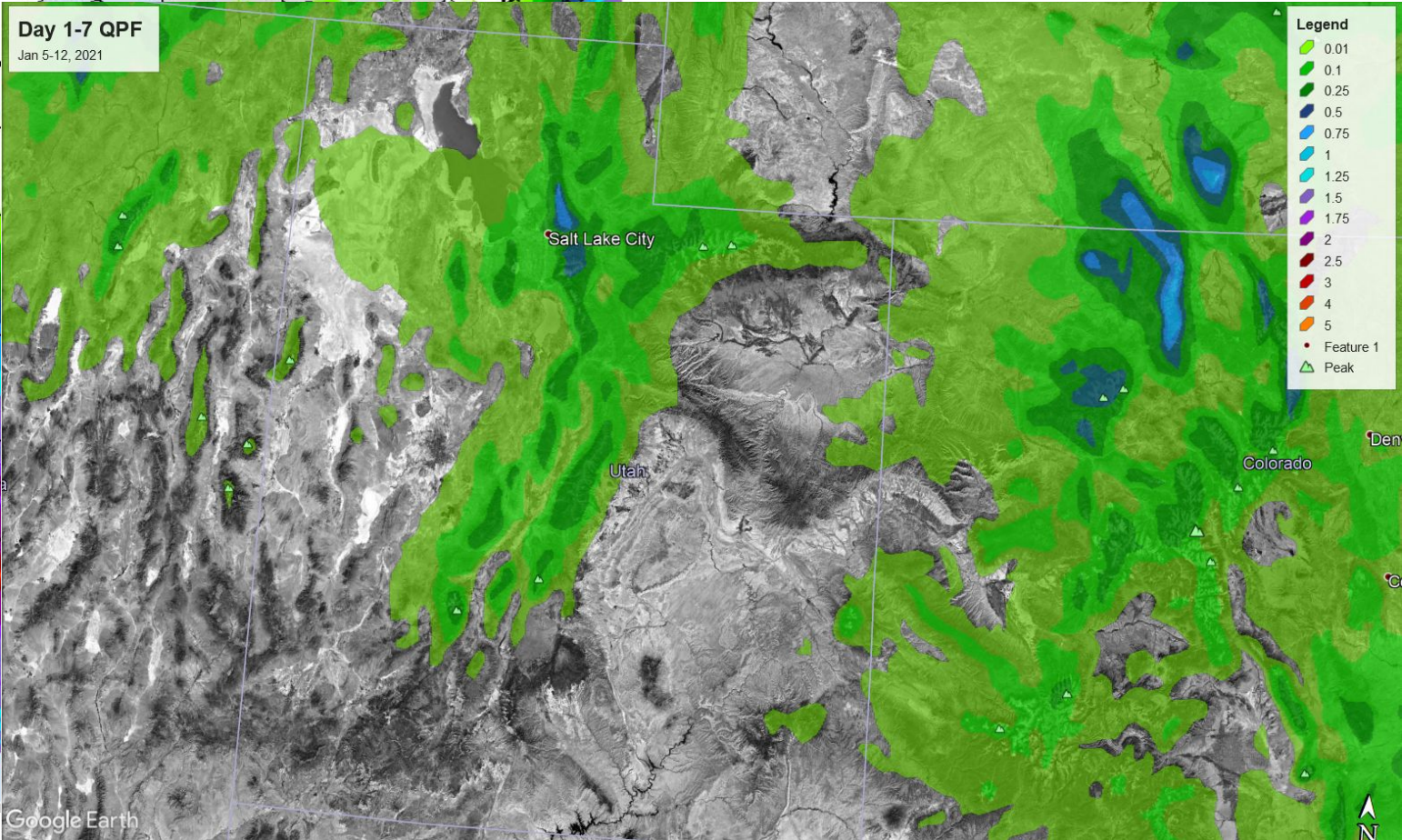
Increase of approximately 2% of total basin capacity of 385,619 AF



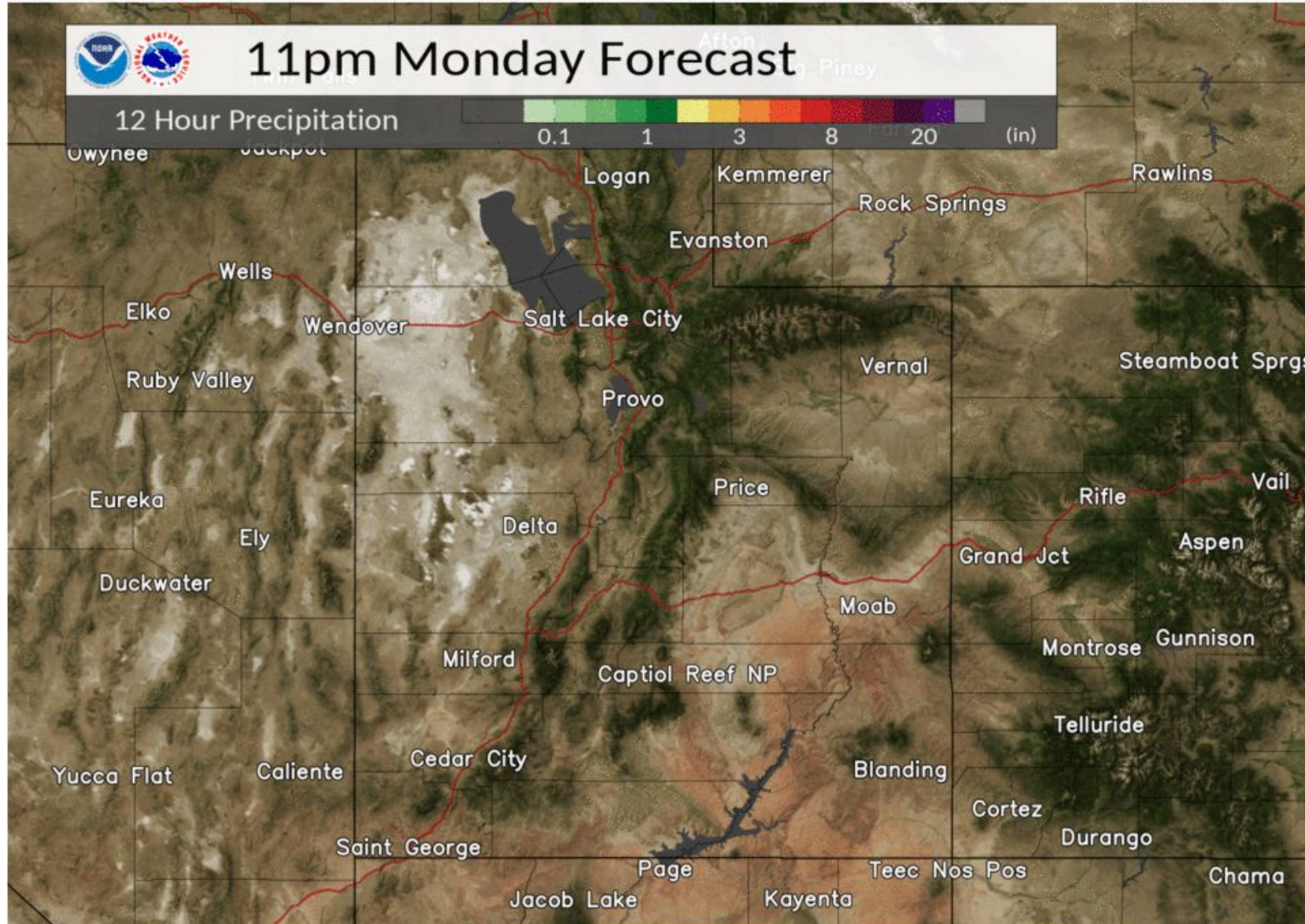
Weather Forecast Office Utah Day 1-7 Outlook (1/5>12)



7 Day forecast QPF values



Weather Forecast Office Utah - 240 Hour GFS QPF thru Jan 14

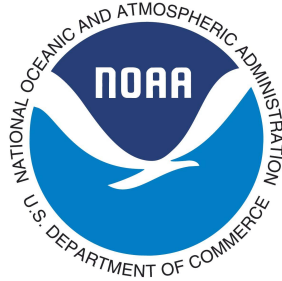


- 12Z GFS Model Run QPF for Utah
 - 1 model, 1 run
- "Potential" in this model for over 0.50" of moisture along the Wasatch Front over the next 10 days (ending on Thursday, January 14, 2021).

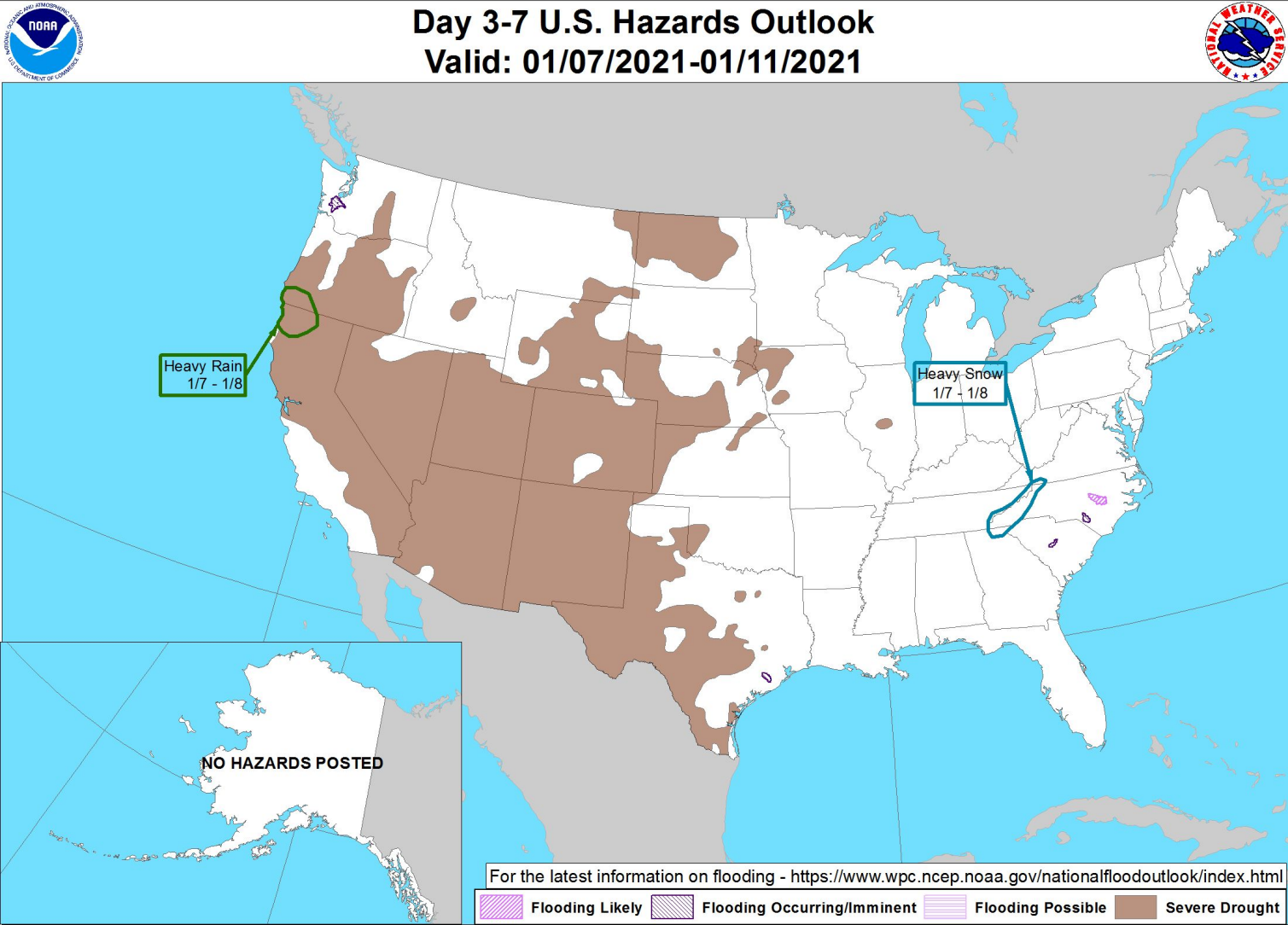
Agency - National Weather Service Weather Forecast Office

Presenter - Jeff Colton (Grand Junction)

Weather Prediction Center U.S. Day 3-7 Hazards Outlook (1/7>11)



Day 3-7 U.S. Hazards Outlook
Valid: 01/07/2021-01/11/2021



Drought conditions forecast to persist through January 11, 2021 with no other significant weather hazards expected.

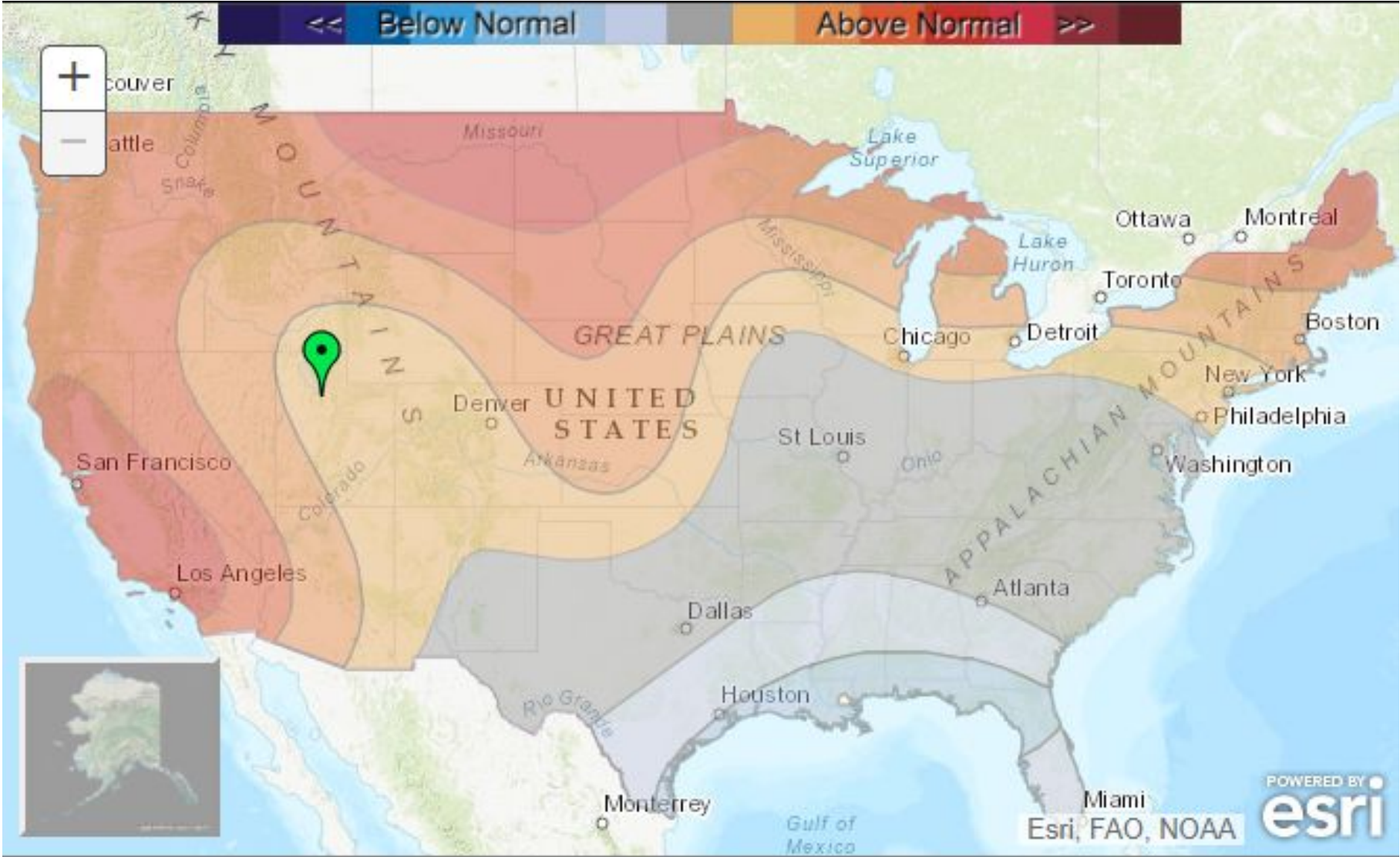
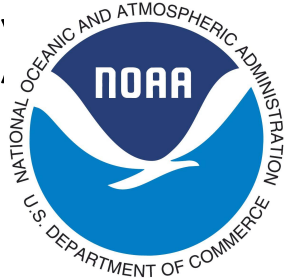
Weather Prediction Center

Made: 01/04/2021 3PM EST

Agency - National Weather Service Weather Forecast Office
Presenter - Jeff Colton (Grand Junction)

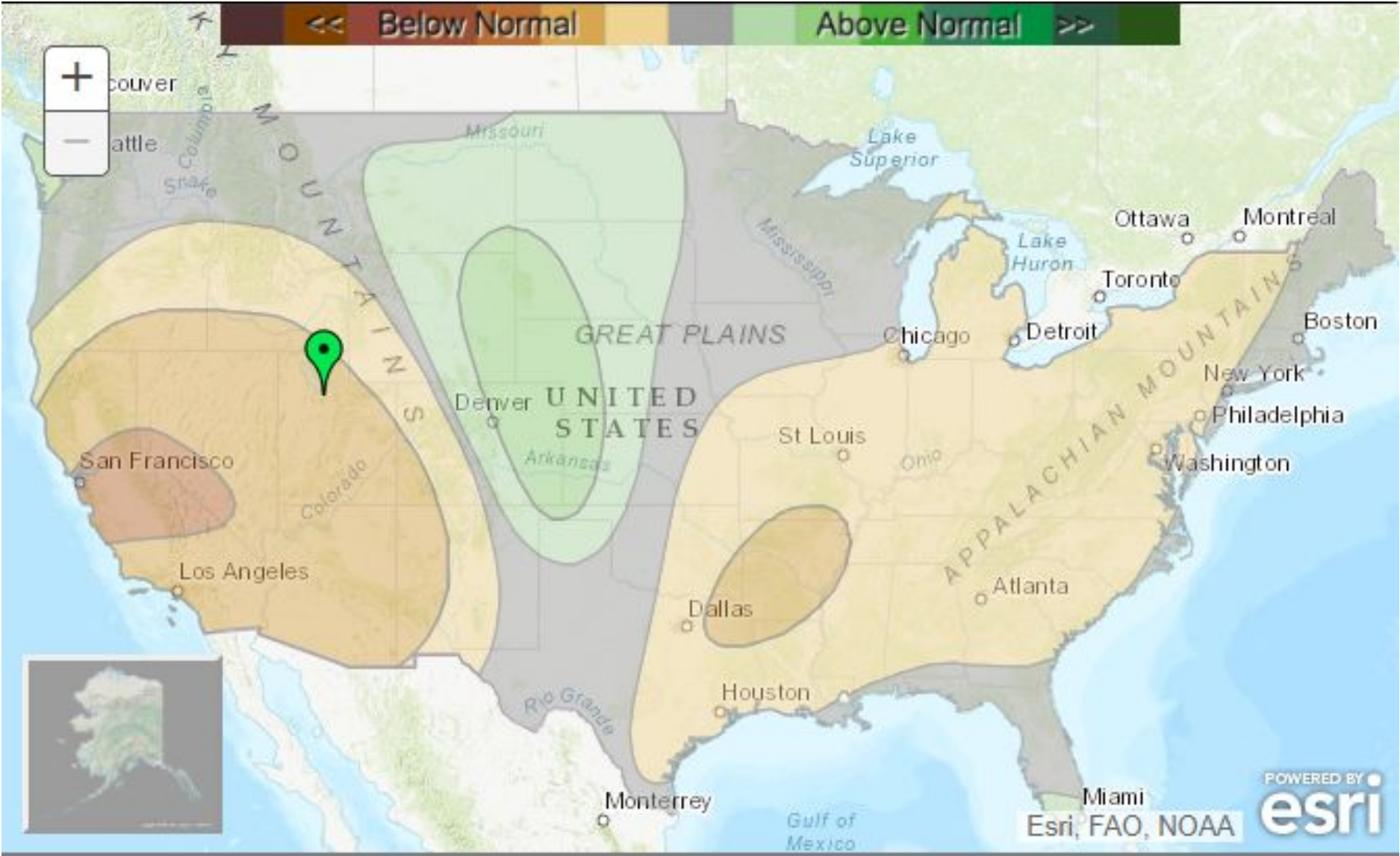
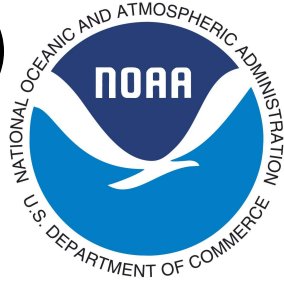
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Climate Prediction Center 8 to 14 Day Outlooks - Temperature (1/12>18)



Temperature odds favoring warmer than normal conditions from January 12-18, 2021

Climate Prediction Center 8 to 14 Day Outlooks - Precipitation (1/12>18)

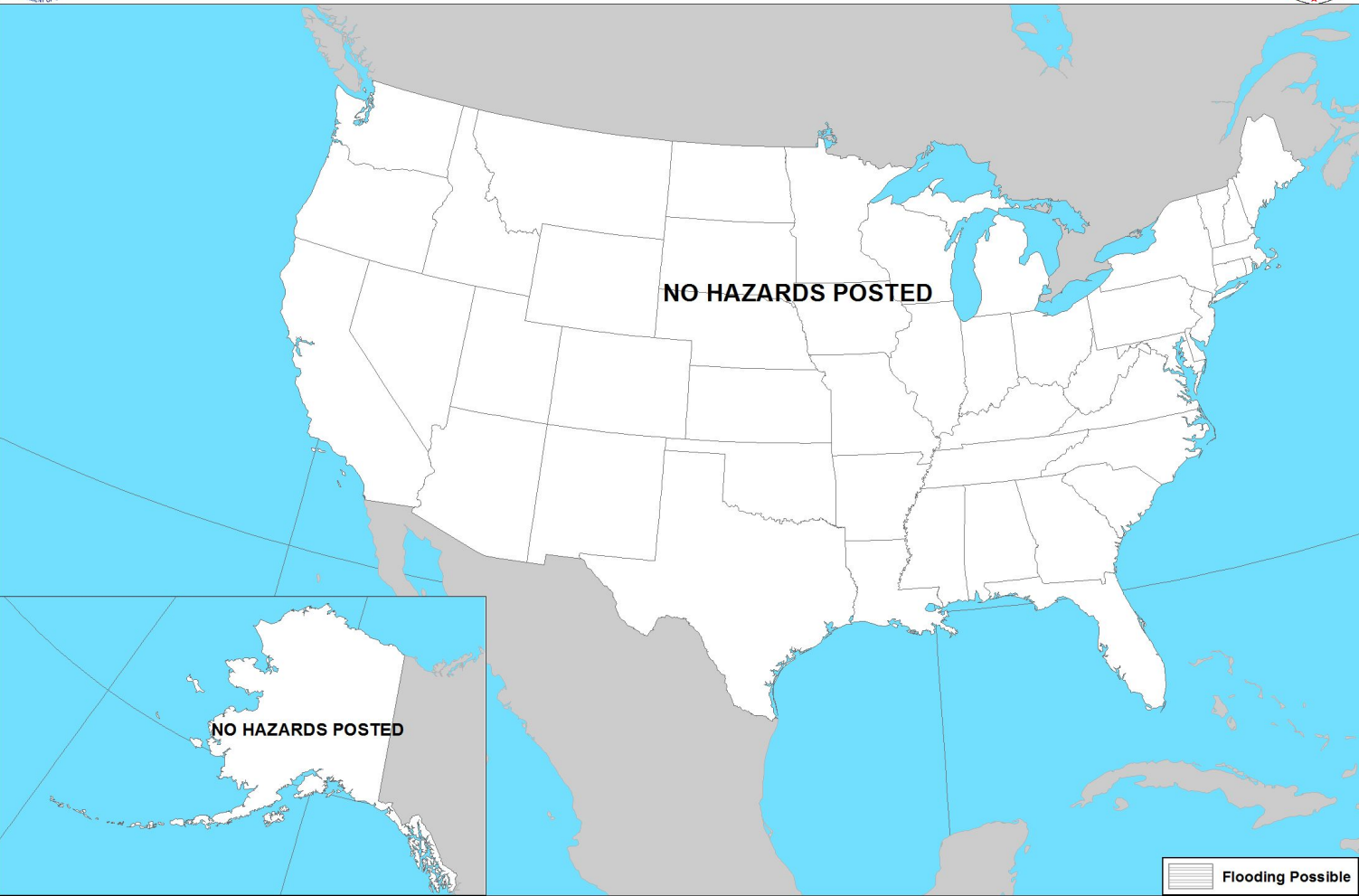


Precipitation odds favoring “drier” than normal conditions from January 12-18, 2021

Climate Prediction Center U.S. Week-2 Hazards Outlook (1/12>18)



Day 8-14 U.S. Hazards Outlook
Valid: 01/12/2021-01/18/2021



Climate Prediction Center
Made: 01/04/2021 3PM EST

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Agency - National Weather Service Weather Forecast Office
Presenter - Jeff Colton (Grand Junction)

January 1, 2021 Water Supply Forecasts / Runoff (Percent of Average)

Map of seasonal water supply forecasts
Summary of conditions:

- Weber 43%
- Bear 56%
- Six Creeks 42%
- Utah Lake 50%
- Sevier 40%
- Green River 59%
- San Juan 49%
- Lake Powell 51%

