



Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly



Thank you to our contributors

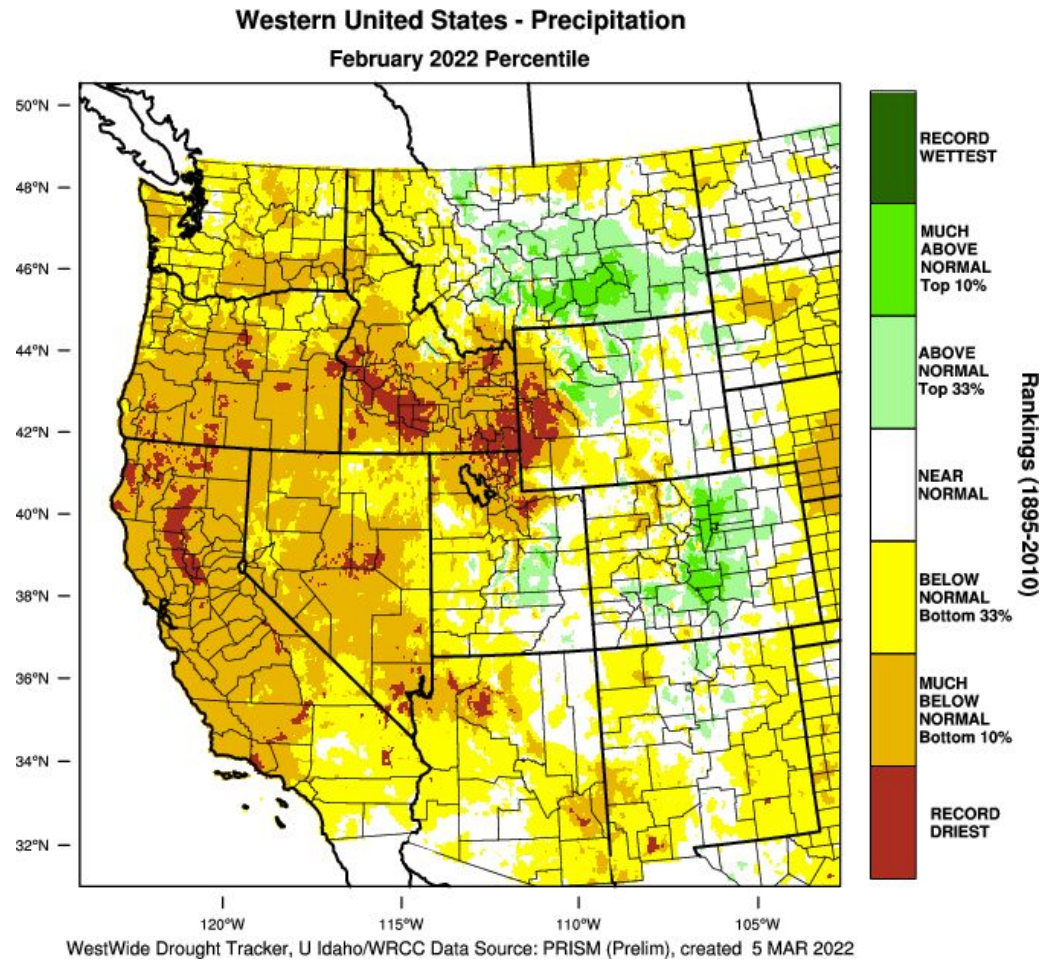




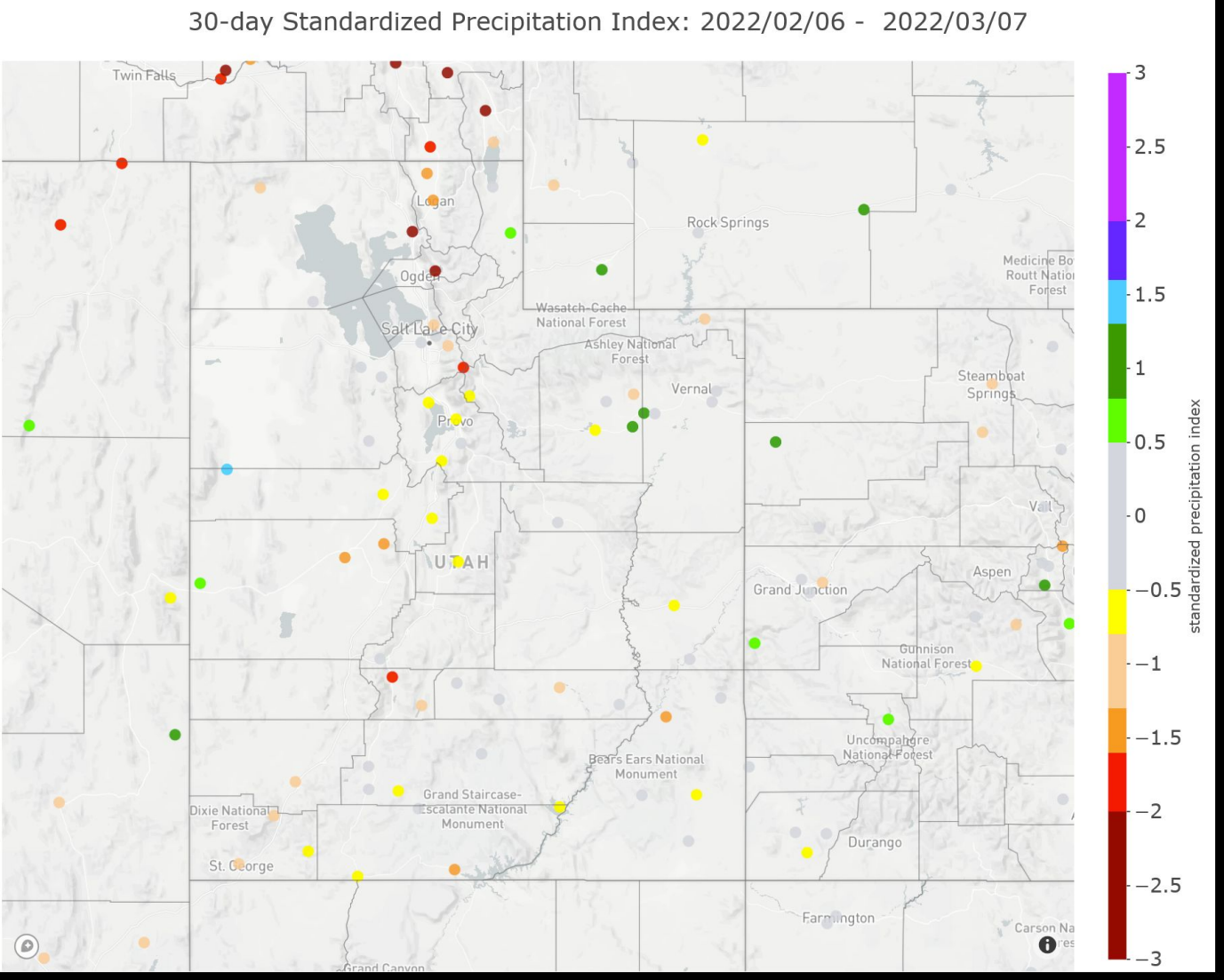
Utah Water Assessment & Conditions Monitoring Webinar

March 8, 2022

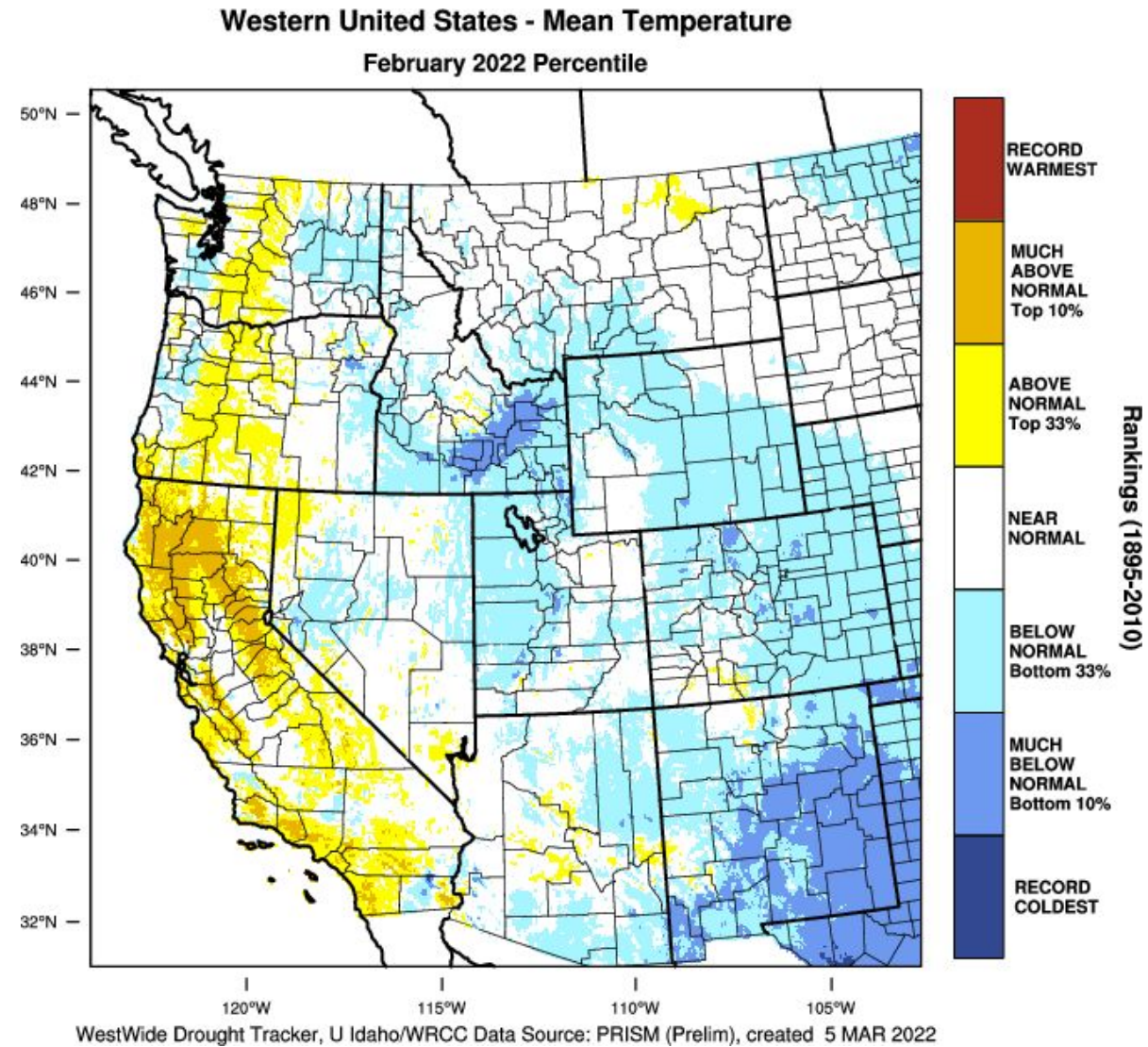
Feb Precipitation



30-day SPI

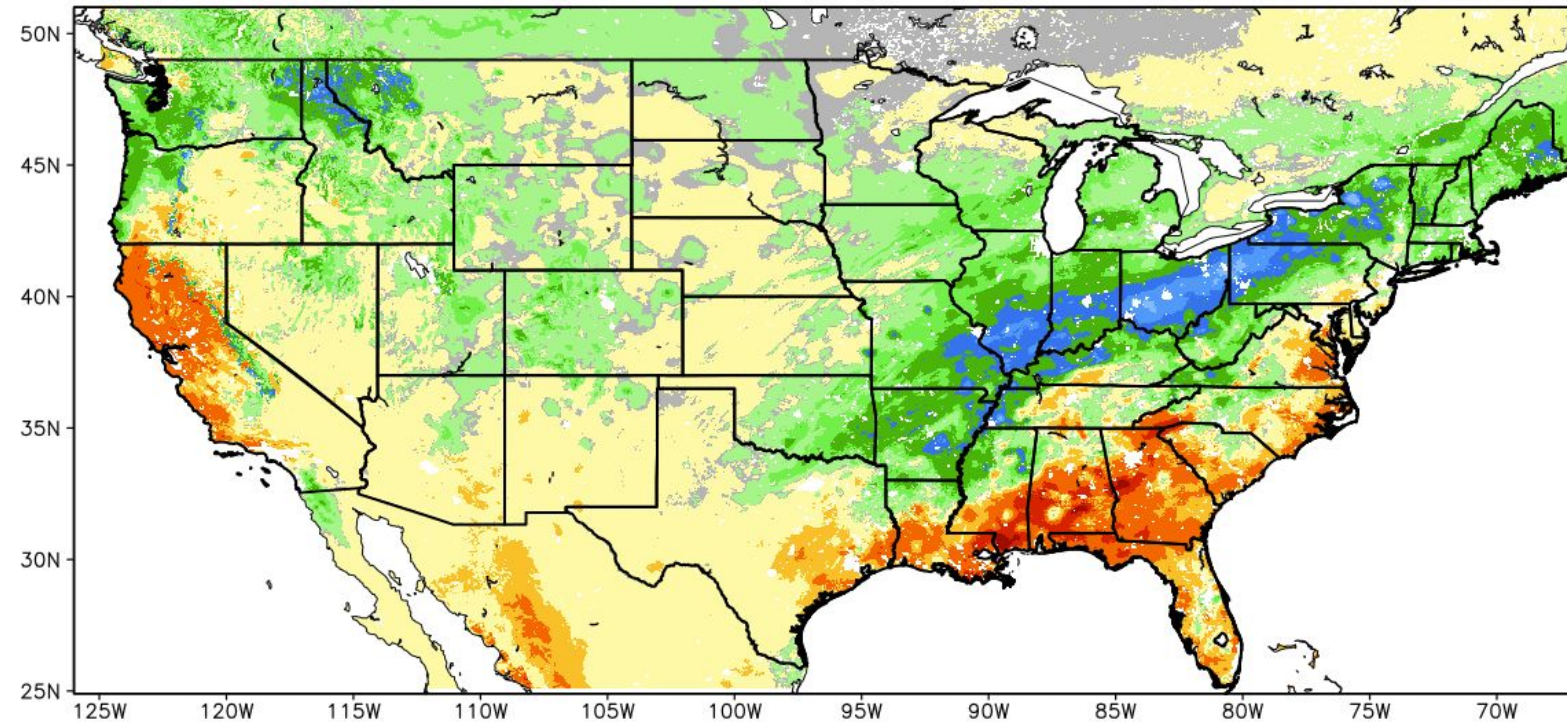


Feb Temps



Modeled Soil Moisture Changes

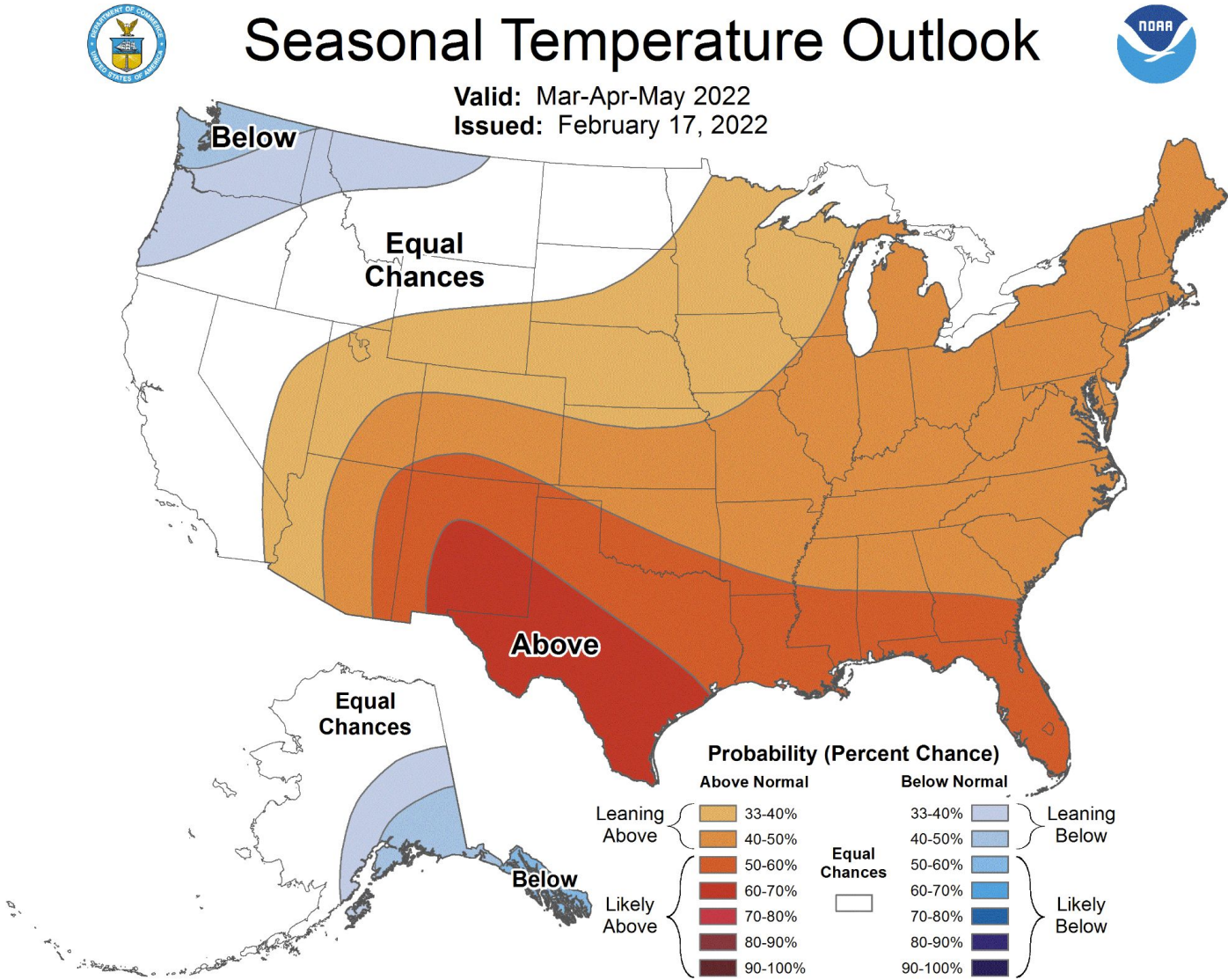
1-Month Difference in Column Relative Soil Moisture (%) valid 12z 08 Mar 2022



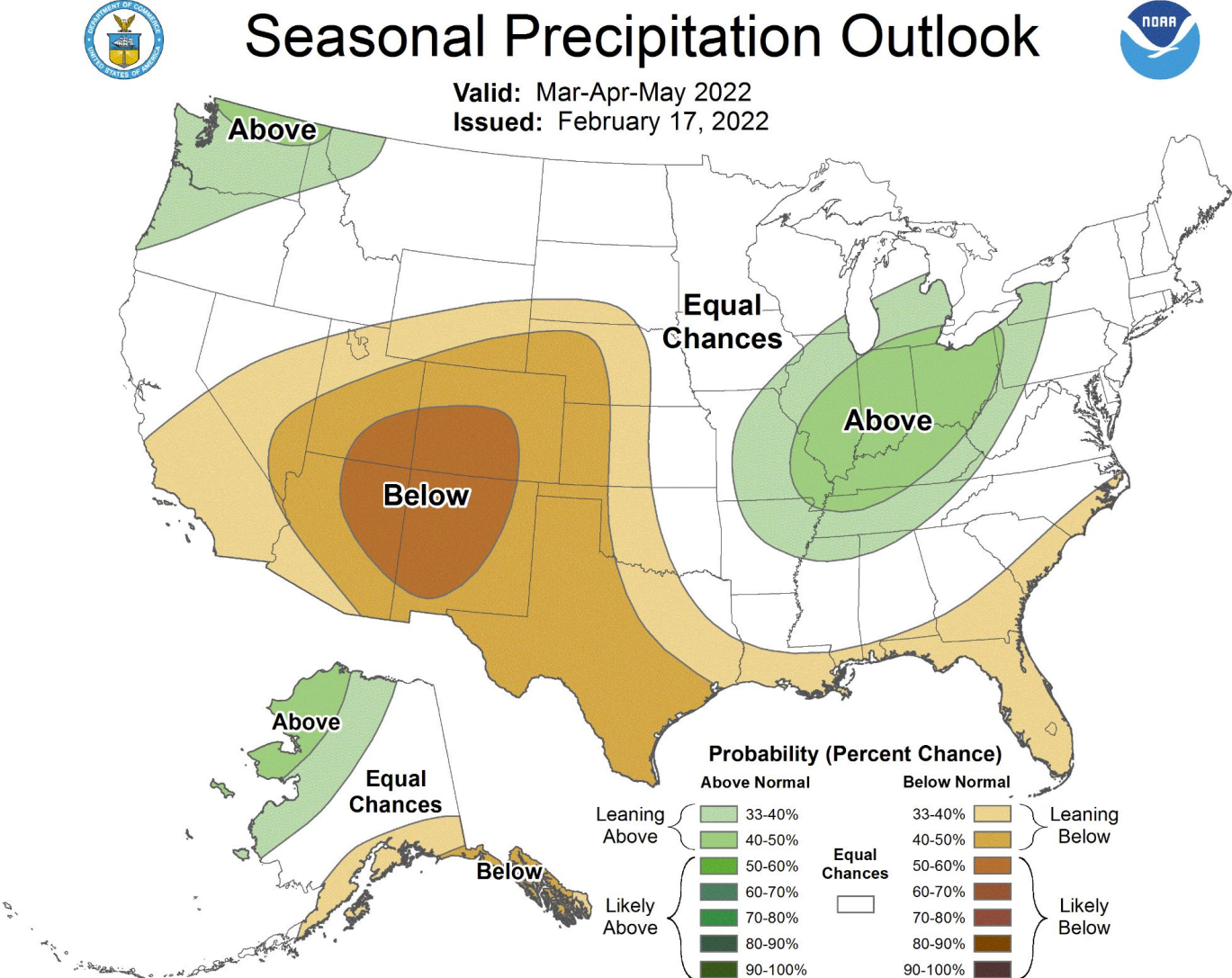
Agency - Utah Climate Center
Presenter - Jon Meyer

NOTE
Experimental

3-month temperature outlook



3 month outlook Precip

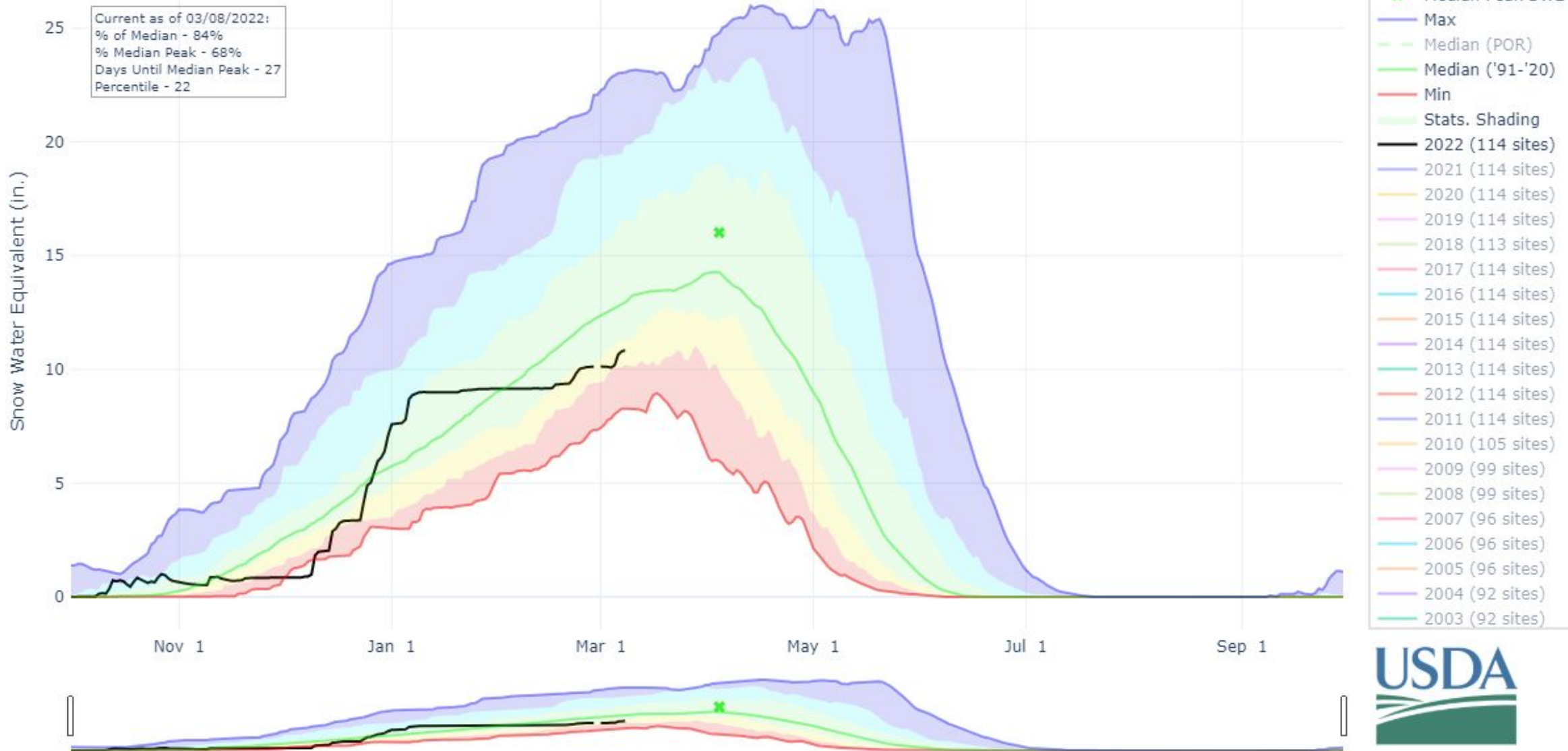


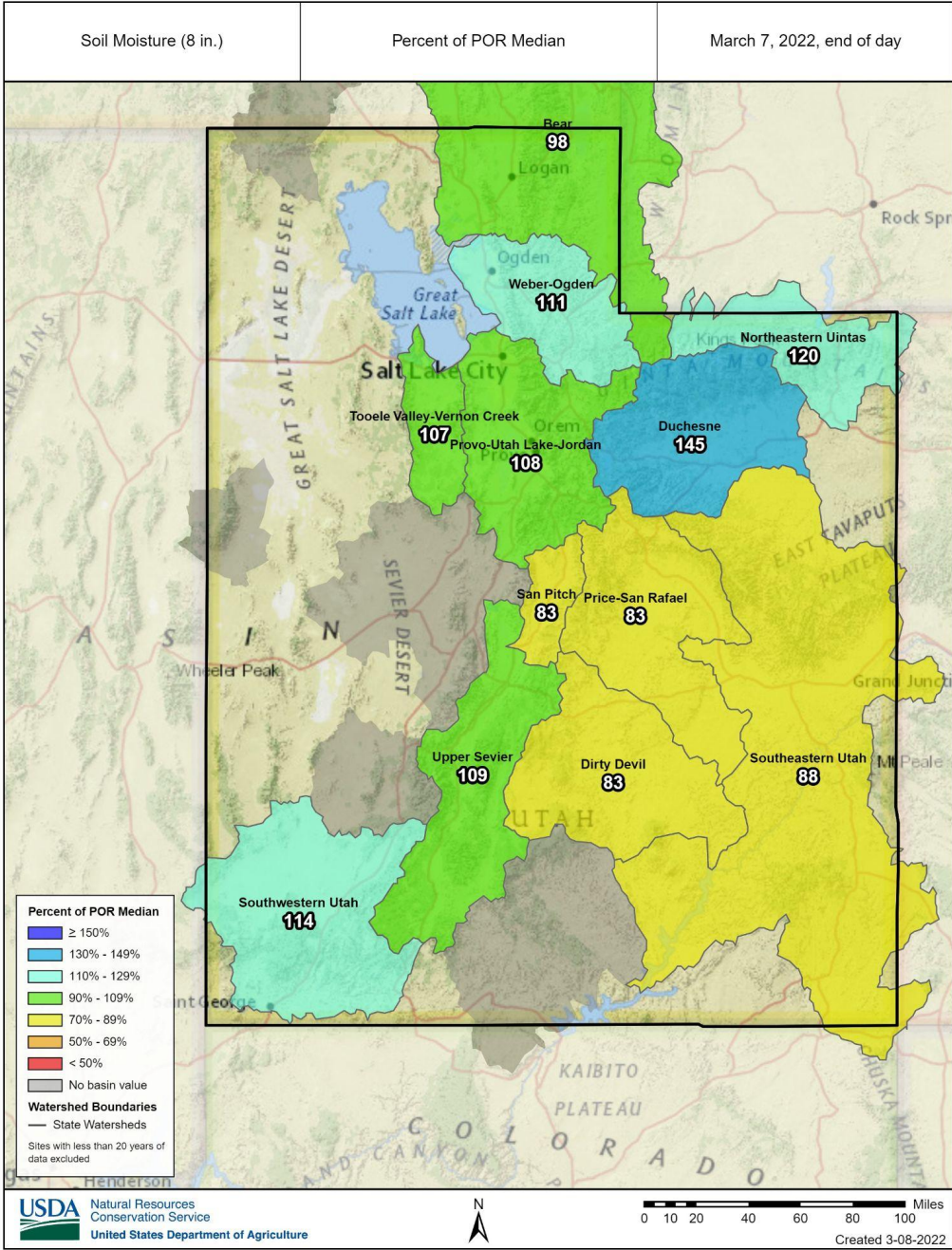
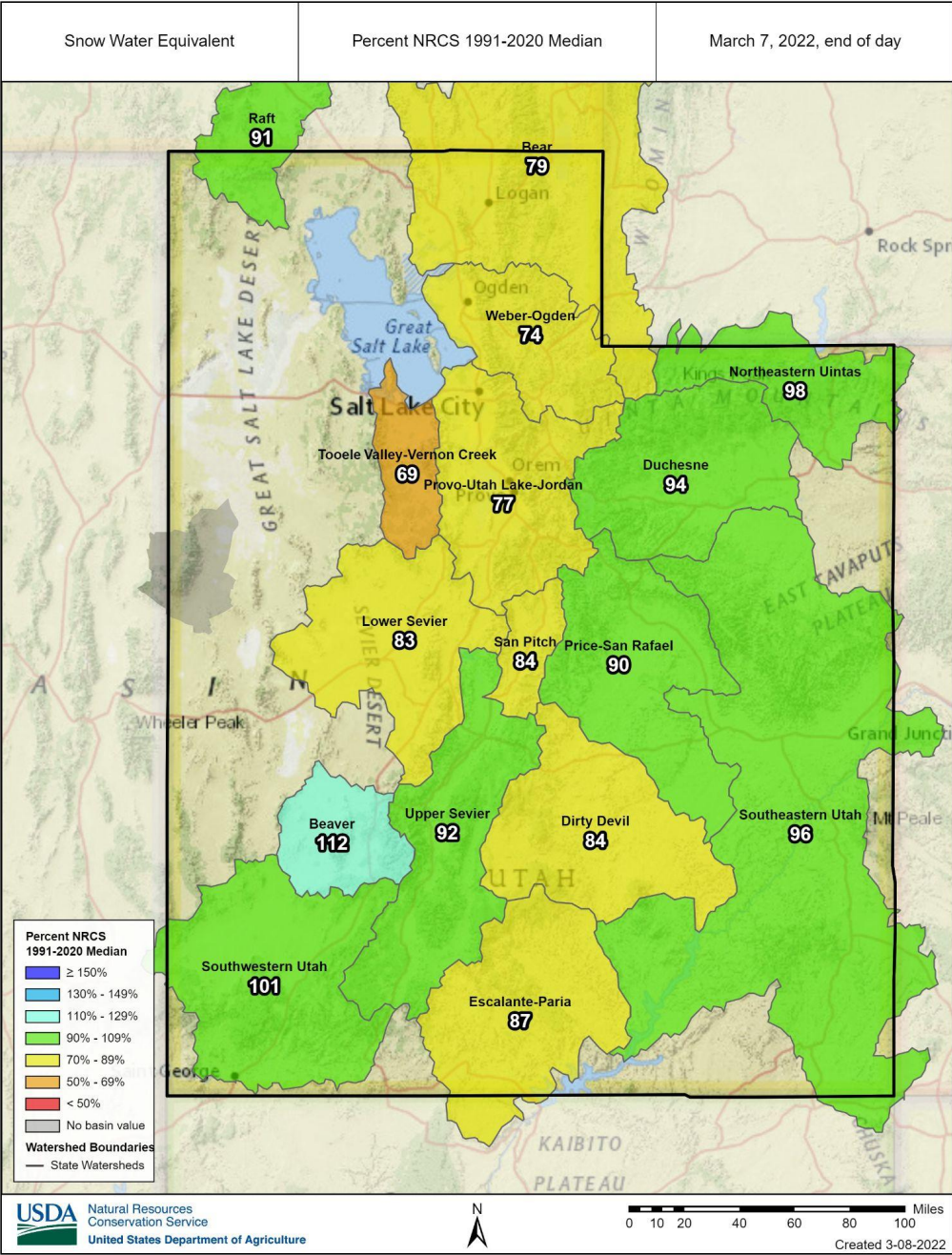
SNOW WATER EQUIVALENT IN STATE OF UTAH

Reset Range

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

Station List





Basin Reservoir percent of capacity

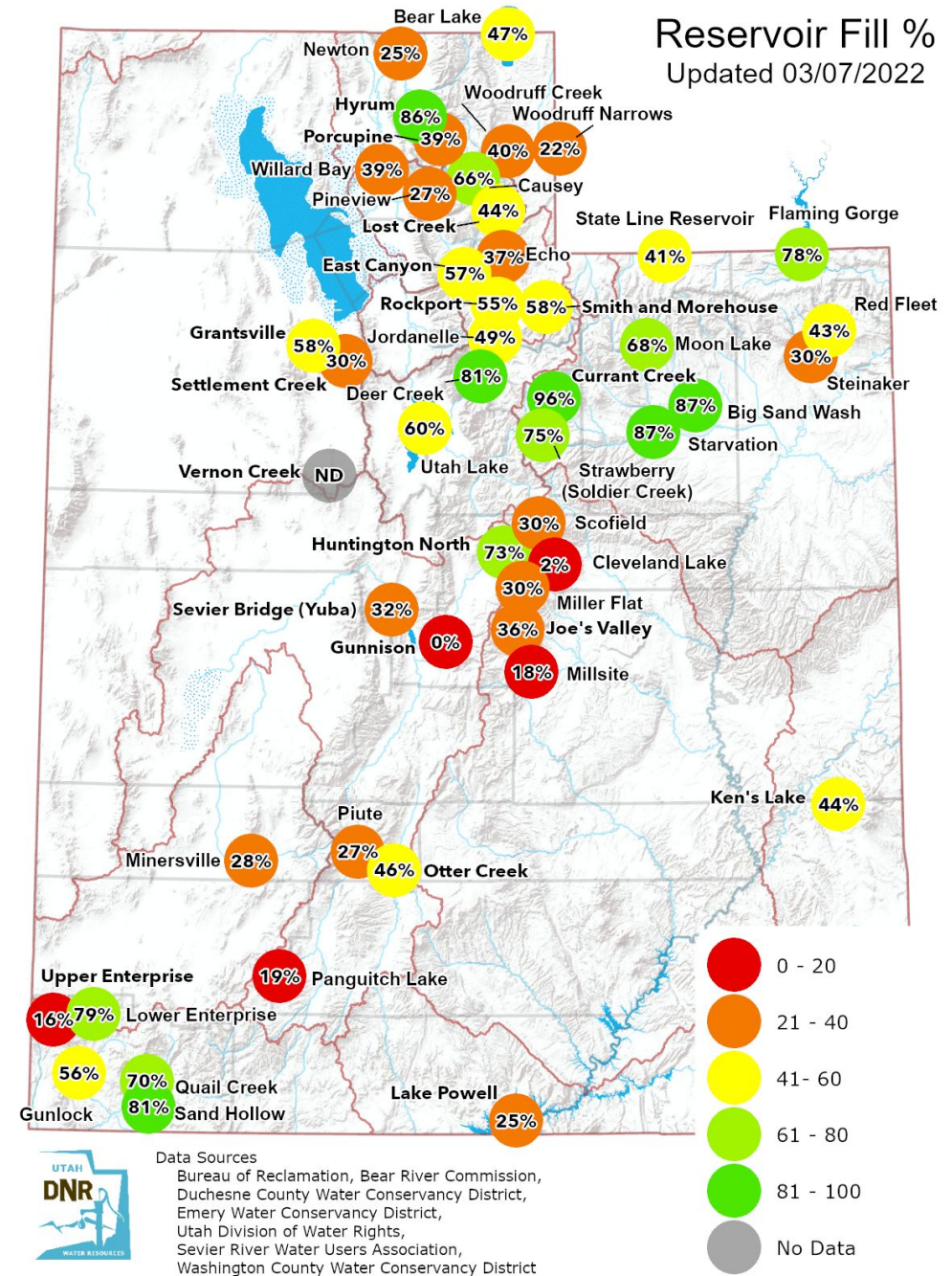
Bear River 51% current 62% last year
Cedar/Beaver 27% current 35% last year

Sevier 30% current 42% last year
Uintah 75% current 82% last year

Utah Lake 60% current 74% last year
Virgin River 75% current 80% last year

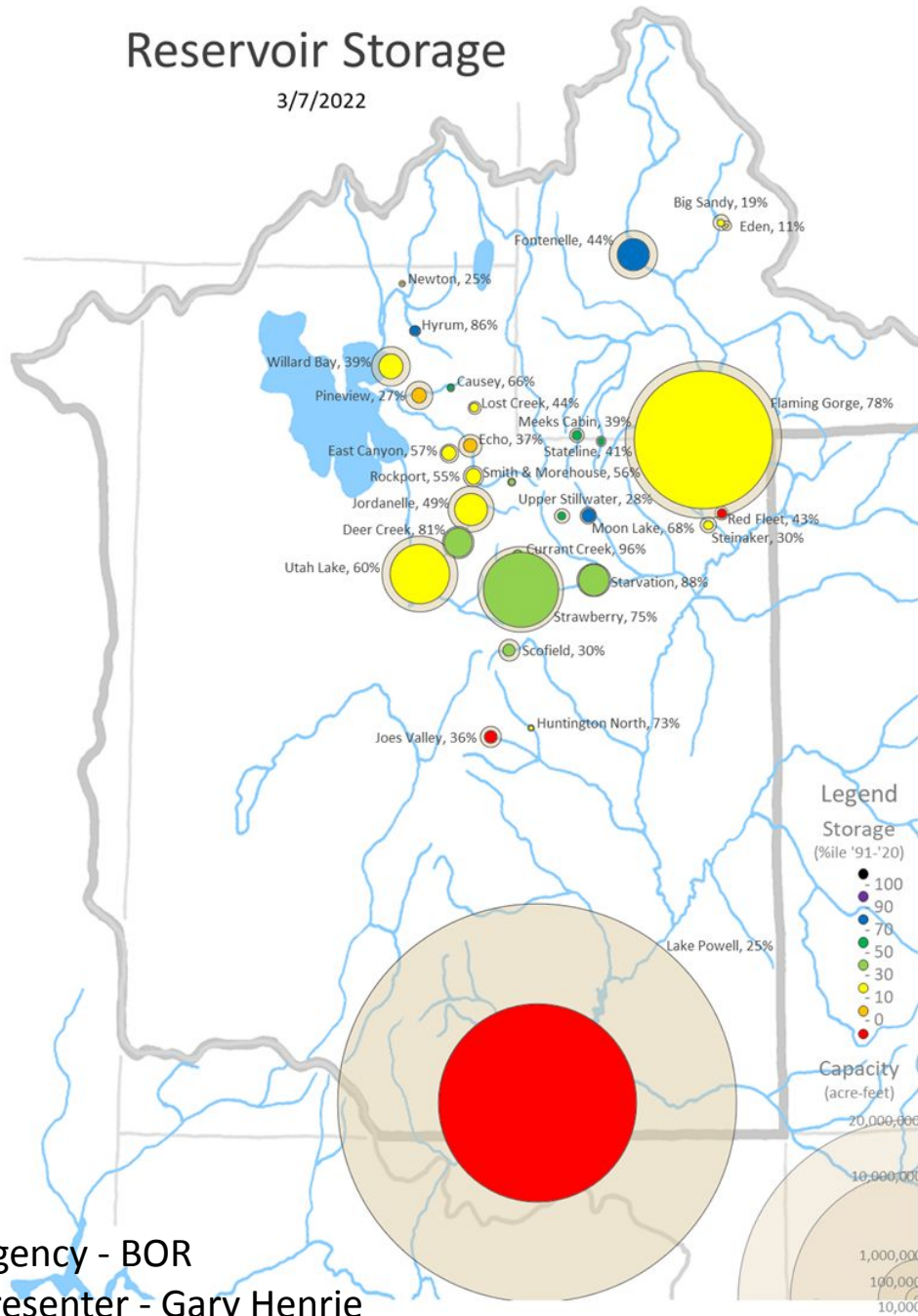
Weber River 41% current 57% last year
West Colorado 32% current 55% last year

West Desert 53% current 53% last year



Reservoir Storage

3/7/2022

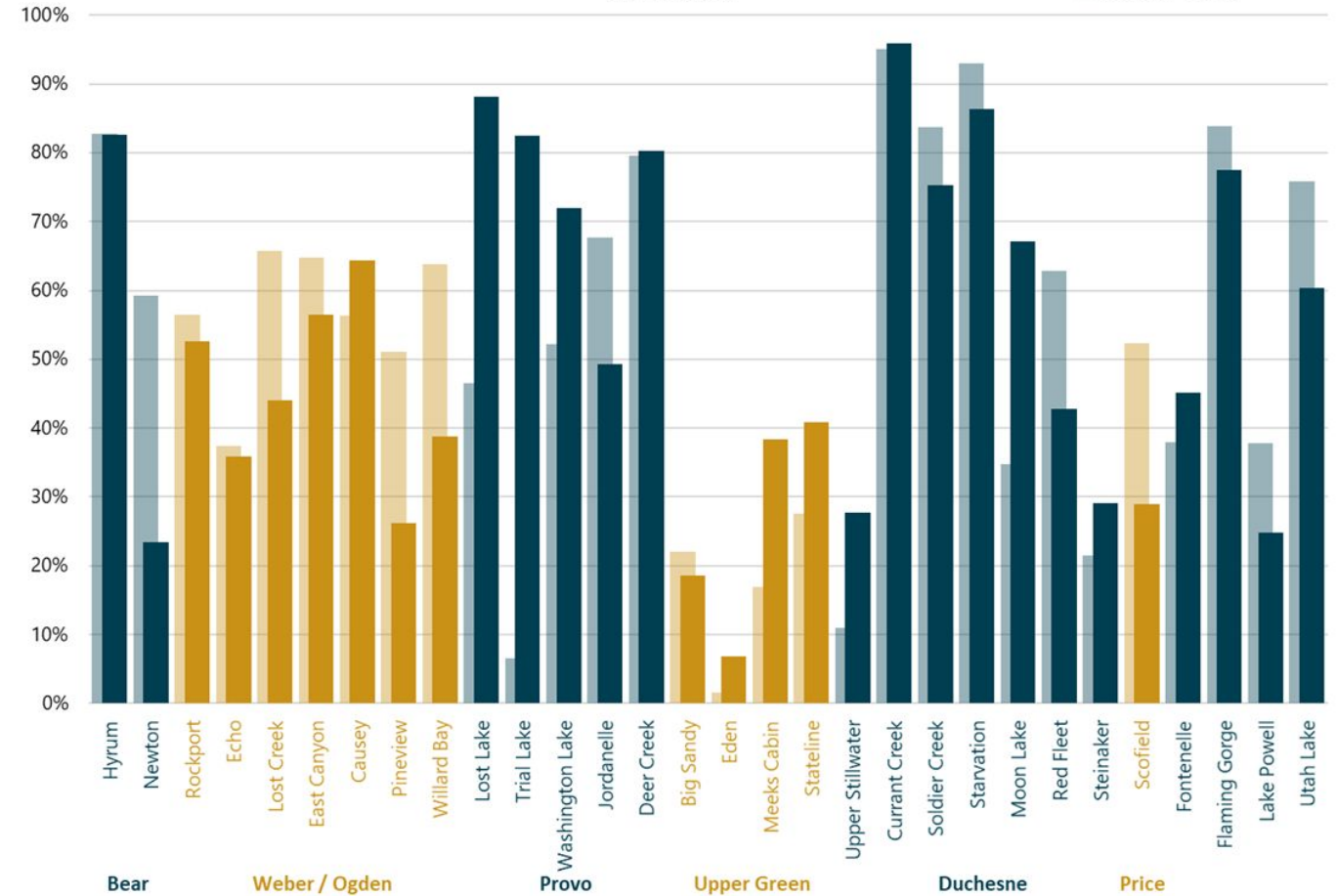


Agency - BOR
Presenter - Gary Henrie

Reservoir Storage

in Percent Full

01-Mar-2021
01-Mar-2022



Overall storage:
(Excluding Fontenelle, Flaming Gorge, and Lake Powell)
Current: 61%
Last year: 72%

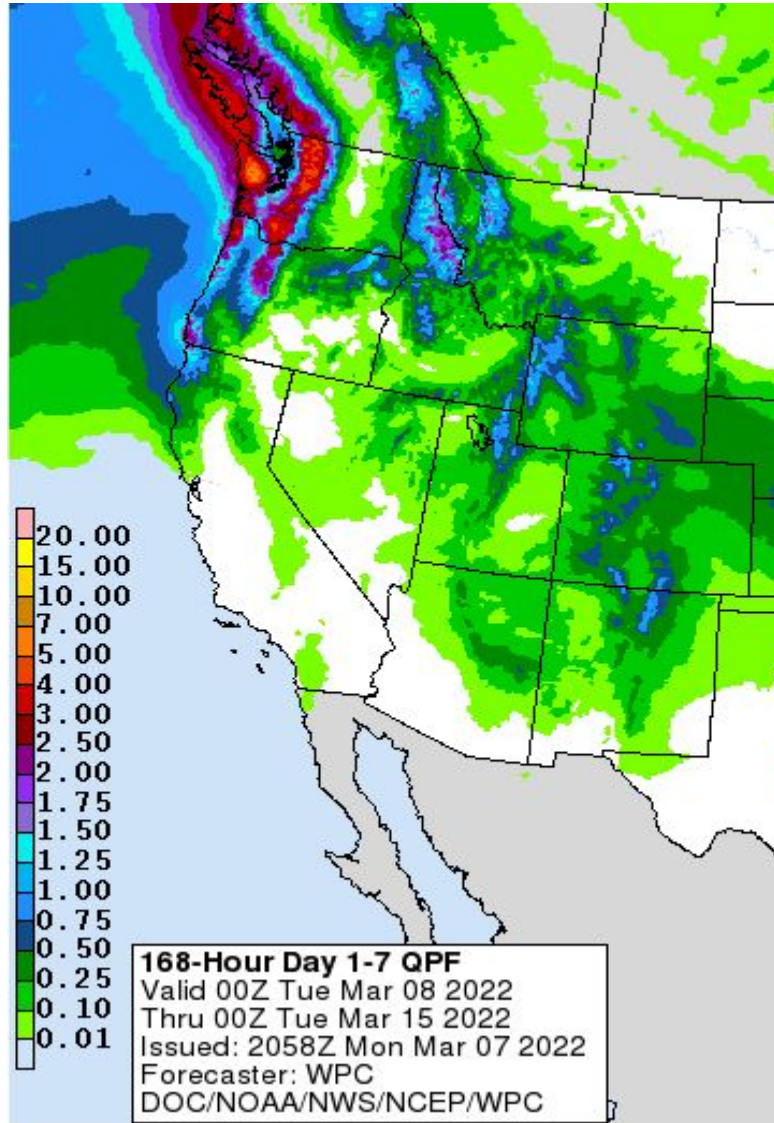
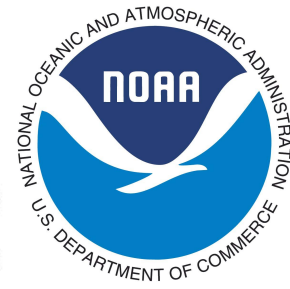
Reservoirs storage:

Pineview: -25%
Willard Bay: -25%
Jordanelle: -18%
Strawberry: -8%
Starvation: -7%
Scofield: -23%
Lake Powell: -13%
Utah Lake: -16%

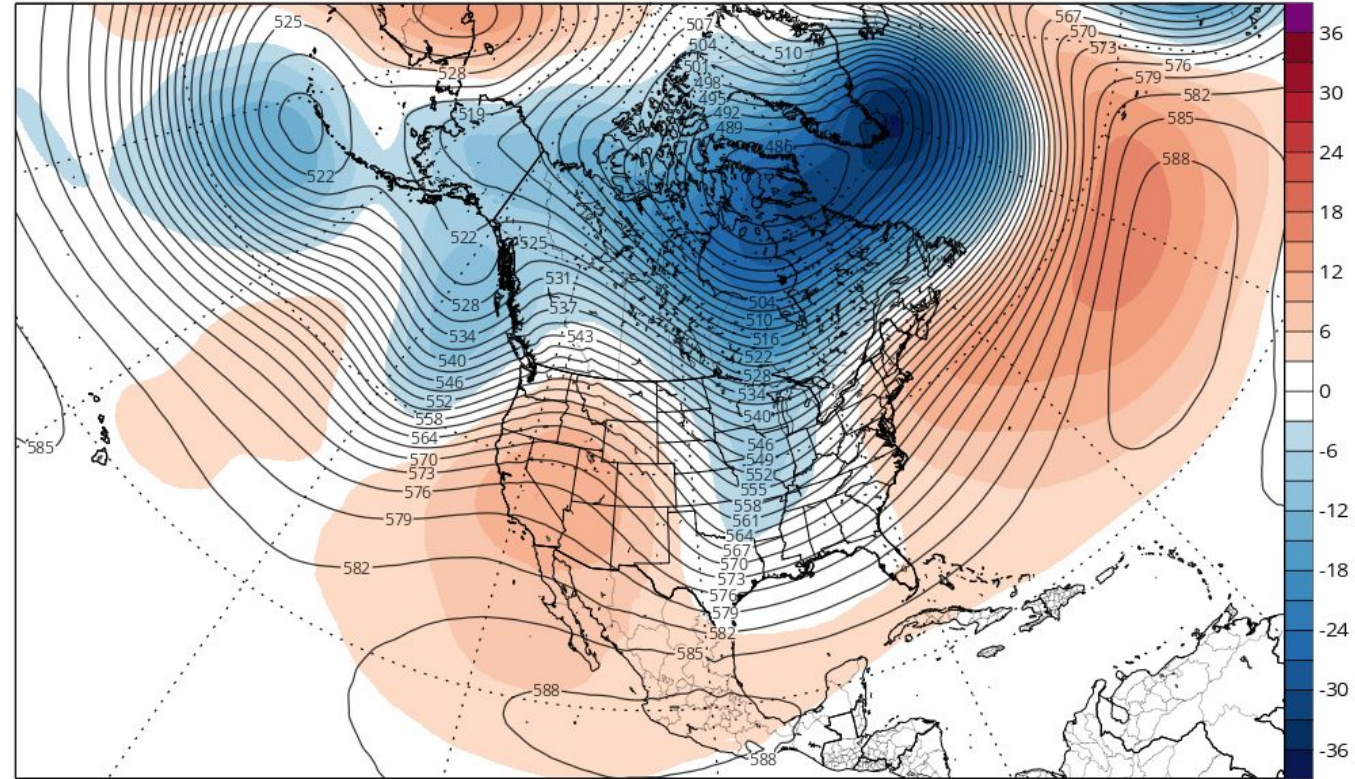


BUREAU OF
RECLAMATION

Weather Forecast Office Utah Day 1-7 Outlook



GEFS 500mb Geopotential Height & Anomaly (dam) (based on CFSR 1981-2010 Climatology)
Init: 18z Mar 07 2022 Forecast Hour: [174] valid at 00z Tue, Mar 15 2022 TROPICALTIDBITS.COM

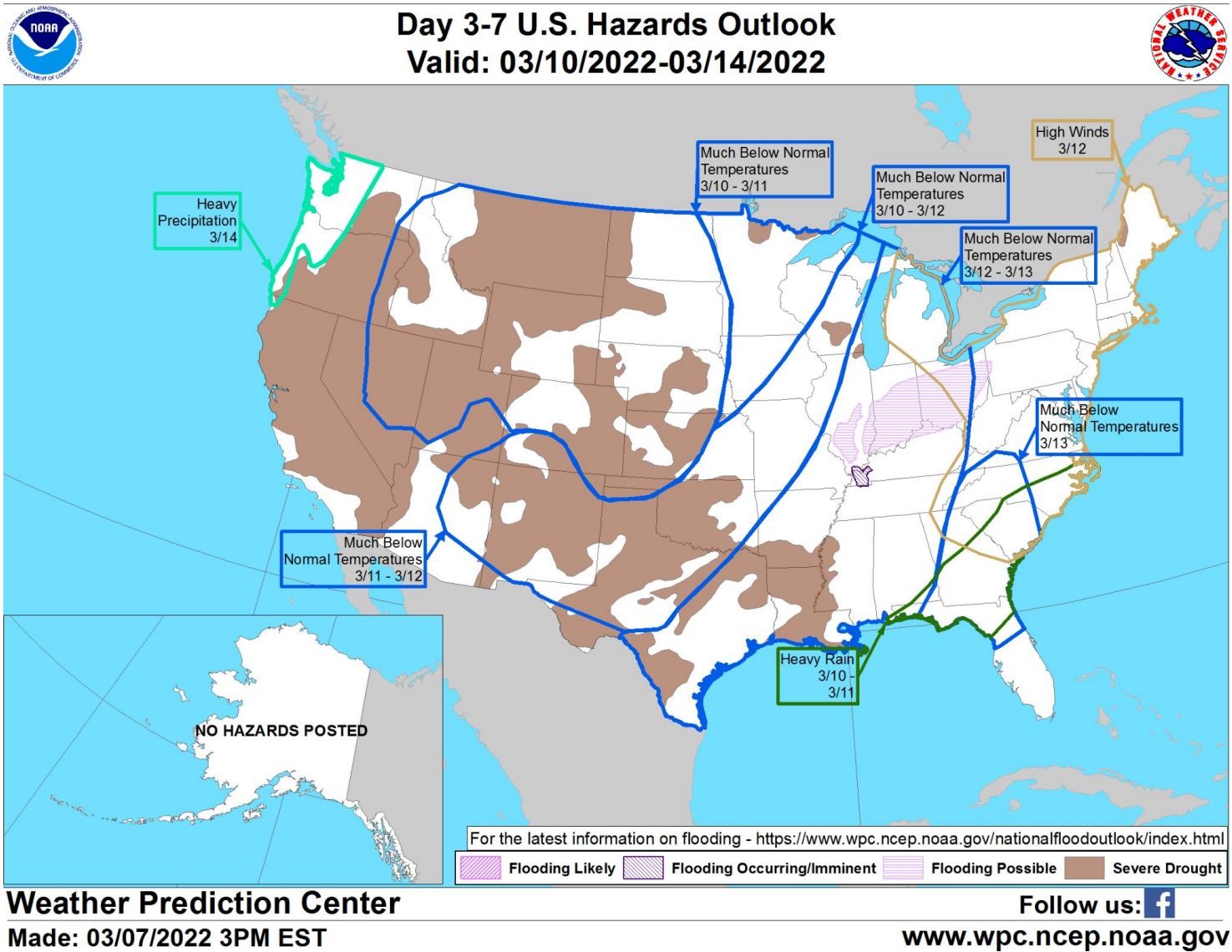
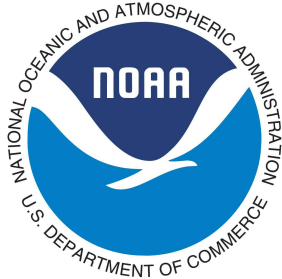


- Beneficial storm Tuesday in to Thursday, but normal for this time of year.
- High pressure is forecast to dominate thereafter with minimal additional precipitation.
- Temperatures remain well below average through late week, then moderate to near normal by early next week.

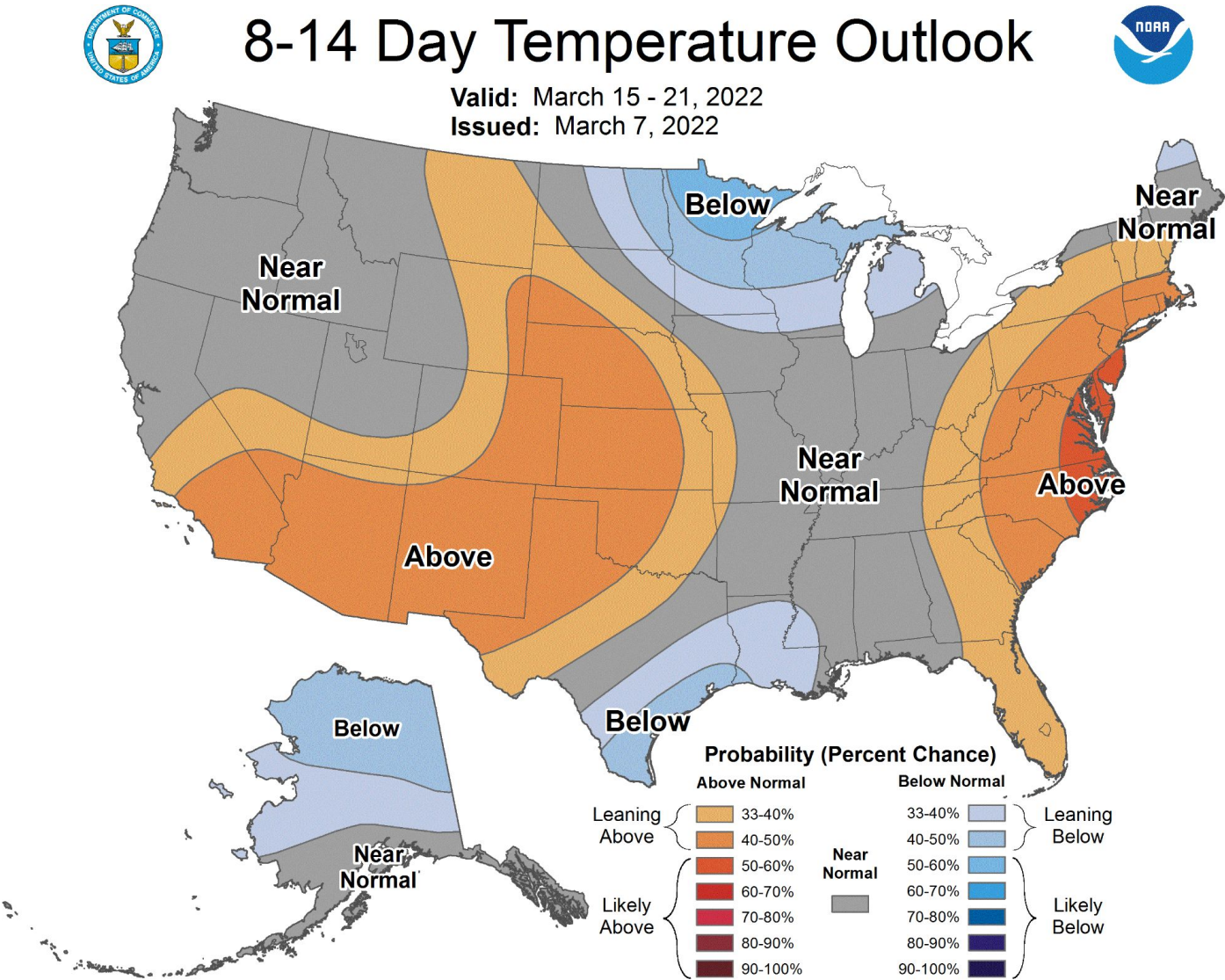
Agency - National Weather Service Weather Forecast Office

Presenter - Alex Desmet

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



Climate Prediction Center 8 to 14 Day Outlooks - Temperature



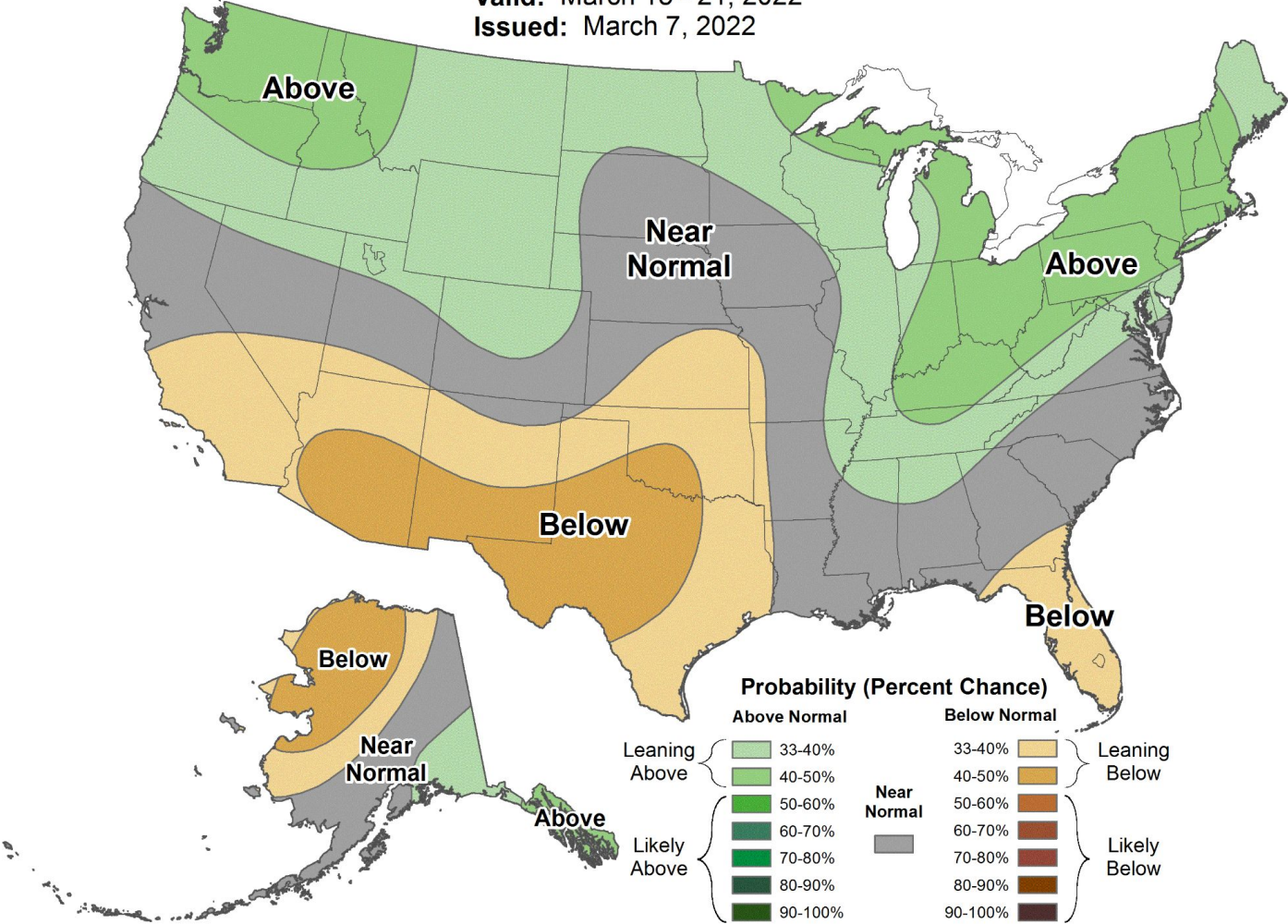
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



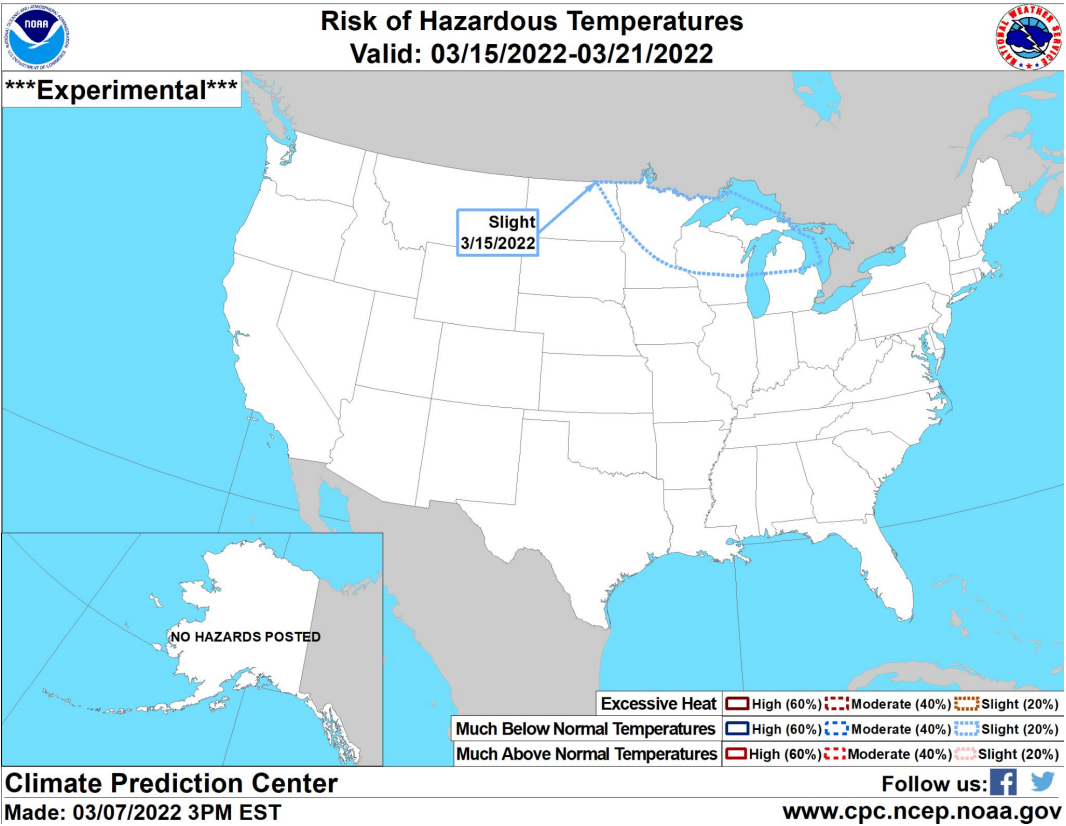
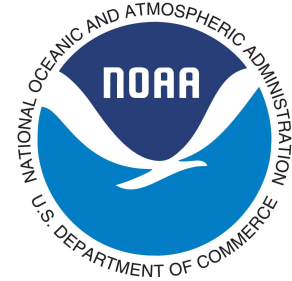
8-14 Day Precipitation Outlook



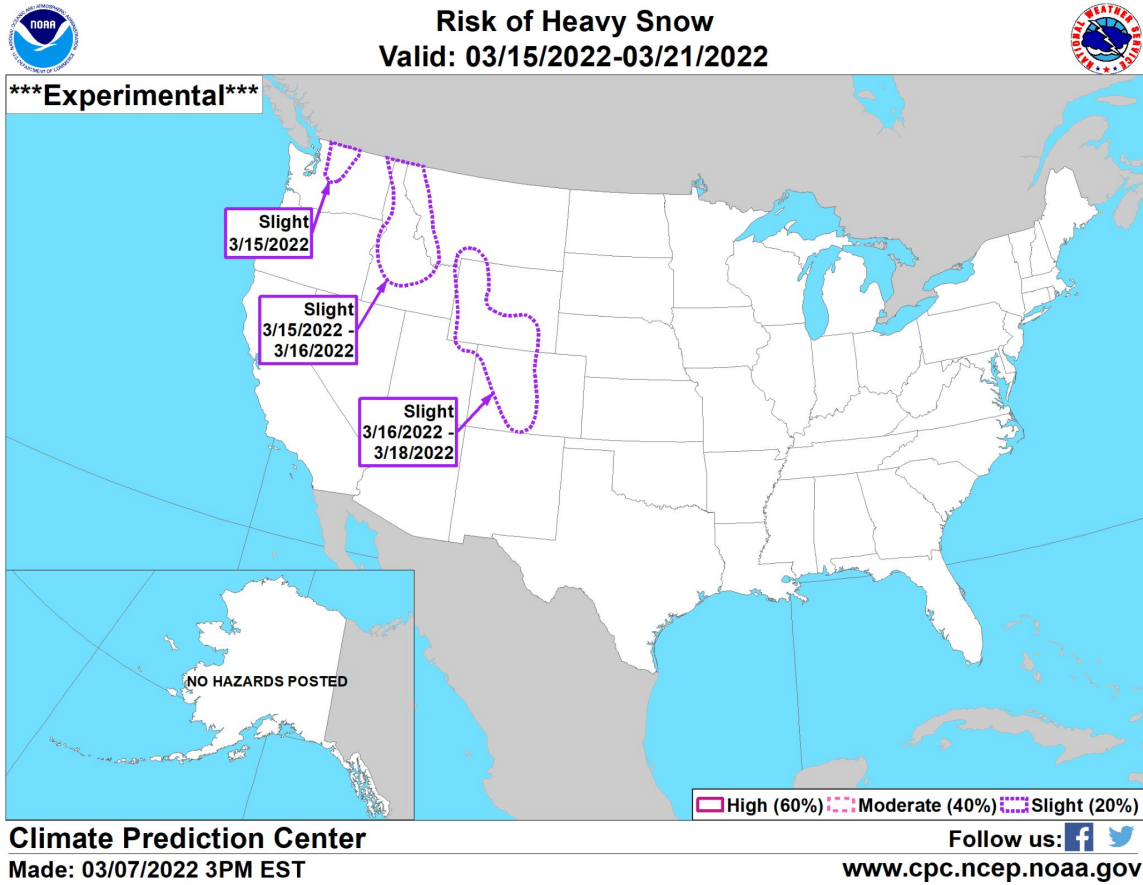
Valid: March 15 - 21, 2022
Issued: March 7, 2022



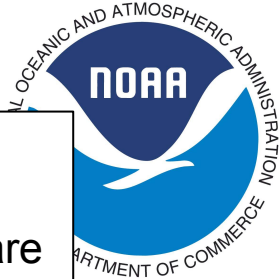
Climate Prediction Center U.S. Week-2 Hazards Outlook



- Temperatures largely near normal, no extremes.
- No anomalous snow forecast, but still somewhat active in the north.



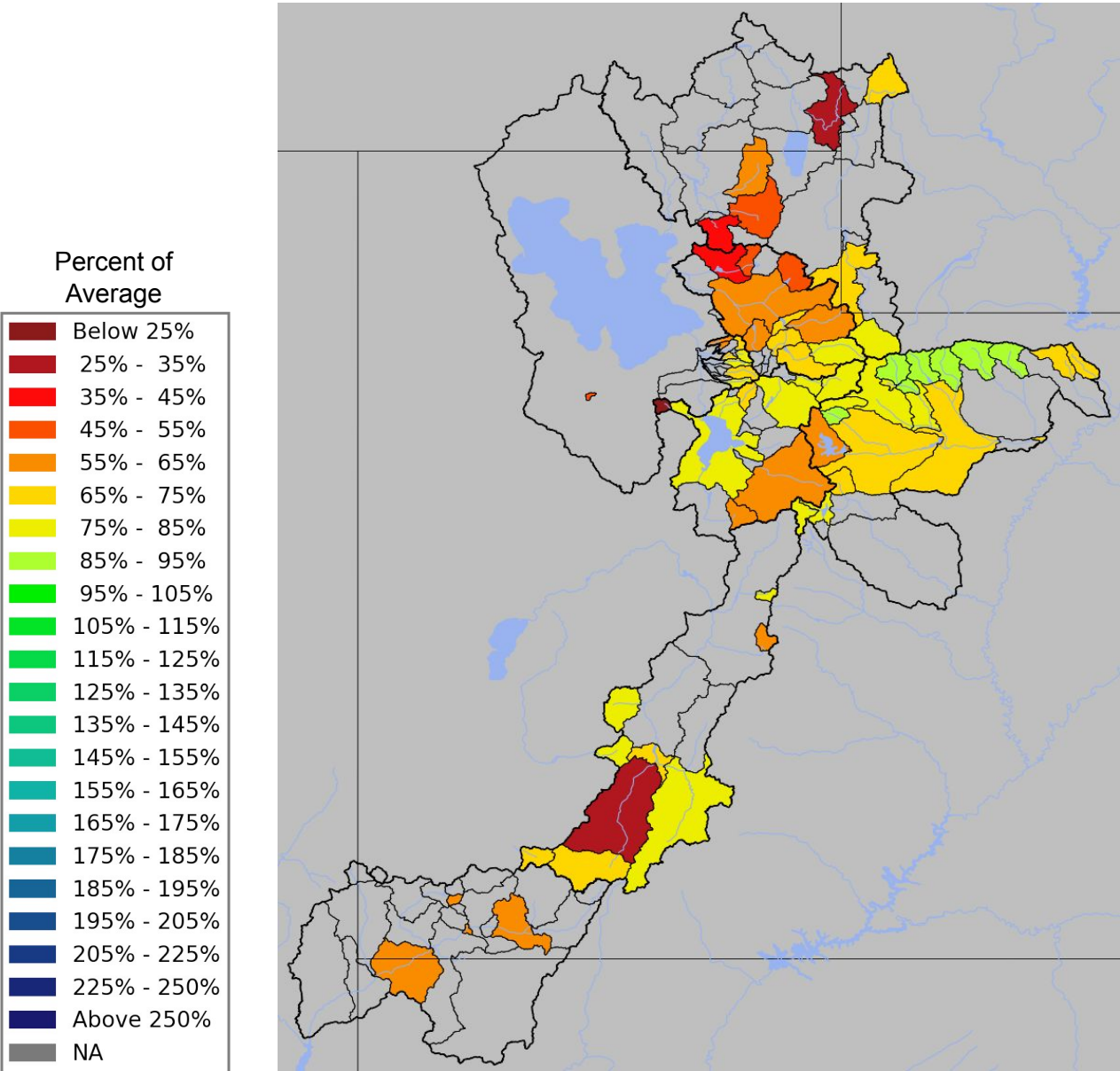
Utah Water Supply Forecasts - Overview



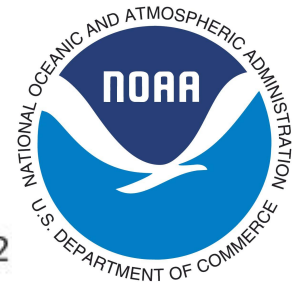
- March 1 Forecast for April-July Volume
- April-July Forecast Streamflow Volumes are in percent of 1991-2020 average
- 15-25% declines in forecasts from Feb. 1

Median value of the...
...individual forecasts (in % of average)
...by Forecast Group.

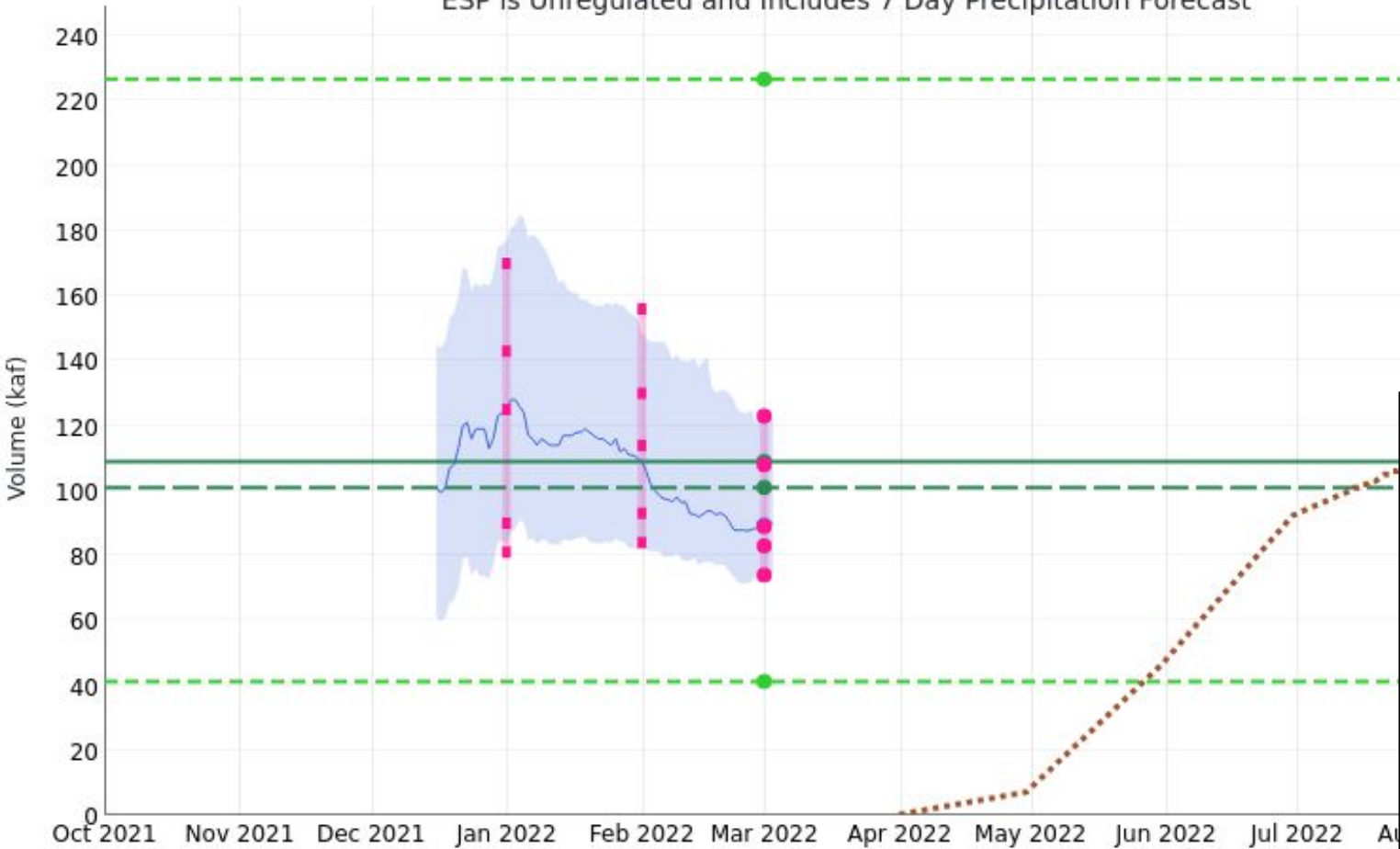
Weber	65%
Bear	60%
Six Creeks	75%
Provo / Utah Lake	70%
Sevier	75%
Duchesne	75%
Virgin	60%



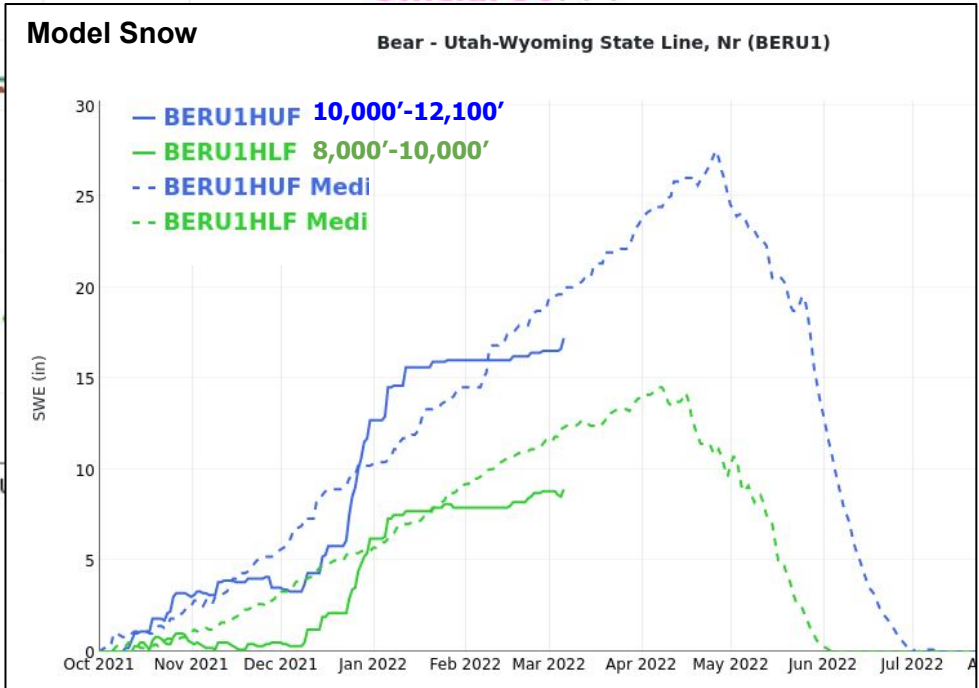
Utah Water Supply Forecasts - Bear



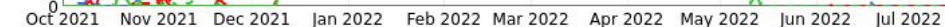
Bear - Utah-Wyoming State Line, Nr (BERU1)
Period: Apr-Jul, Official 50% Forecast (2022-03-01): 89 kaf (82% Average, 88% Median)
ESP is Unregulated and Includes 7 Day Precipitation Forecast



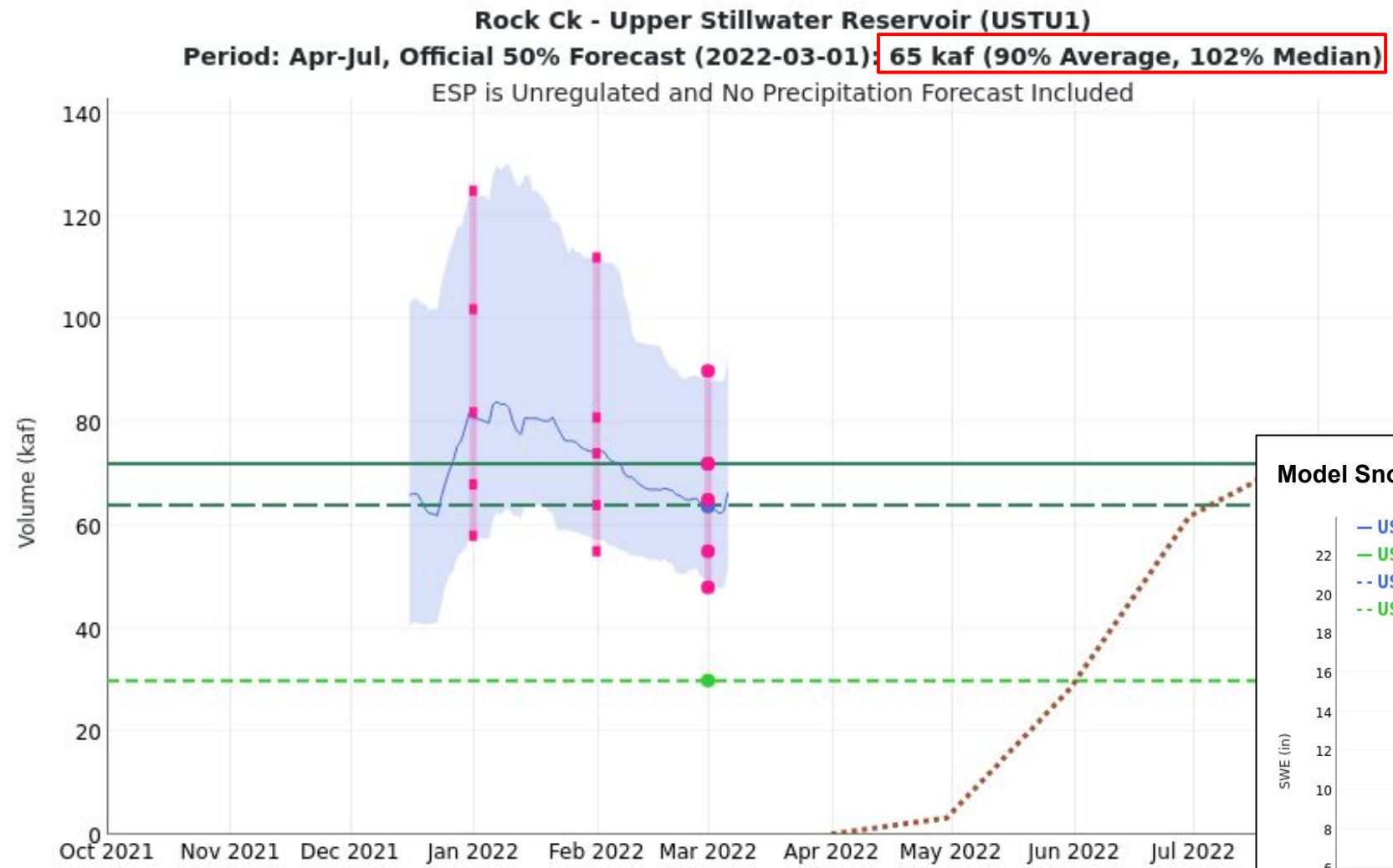
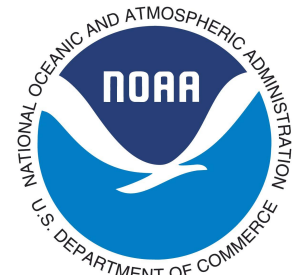
2022/03/01:
Max 2011: 226.82
Min 1977: 41.21
Average: 109
Median: 101
ESP: 89.3
Official 10: 123
Official 30: 108
Official 50: 89
Official 70: 83
Official 90: 74



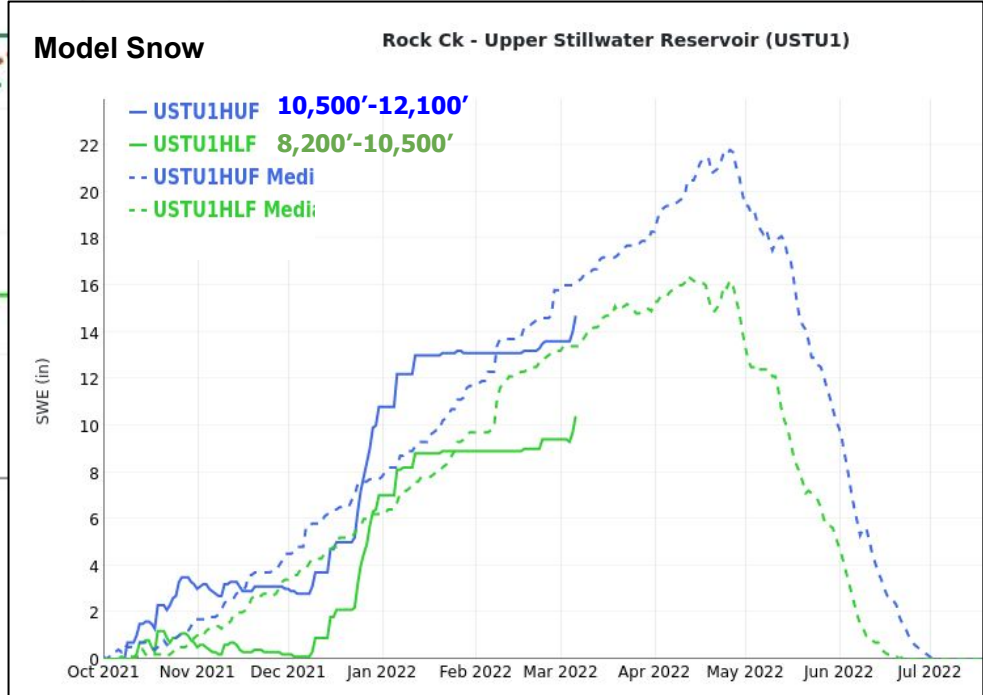
Official 90: 66



Utah Water Supply Forecasts - Duchesne



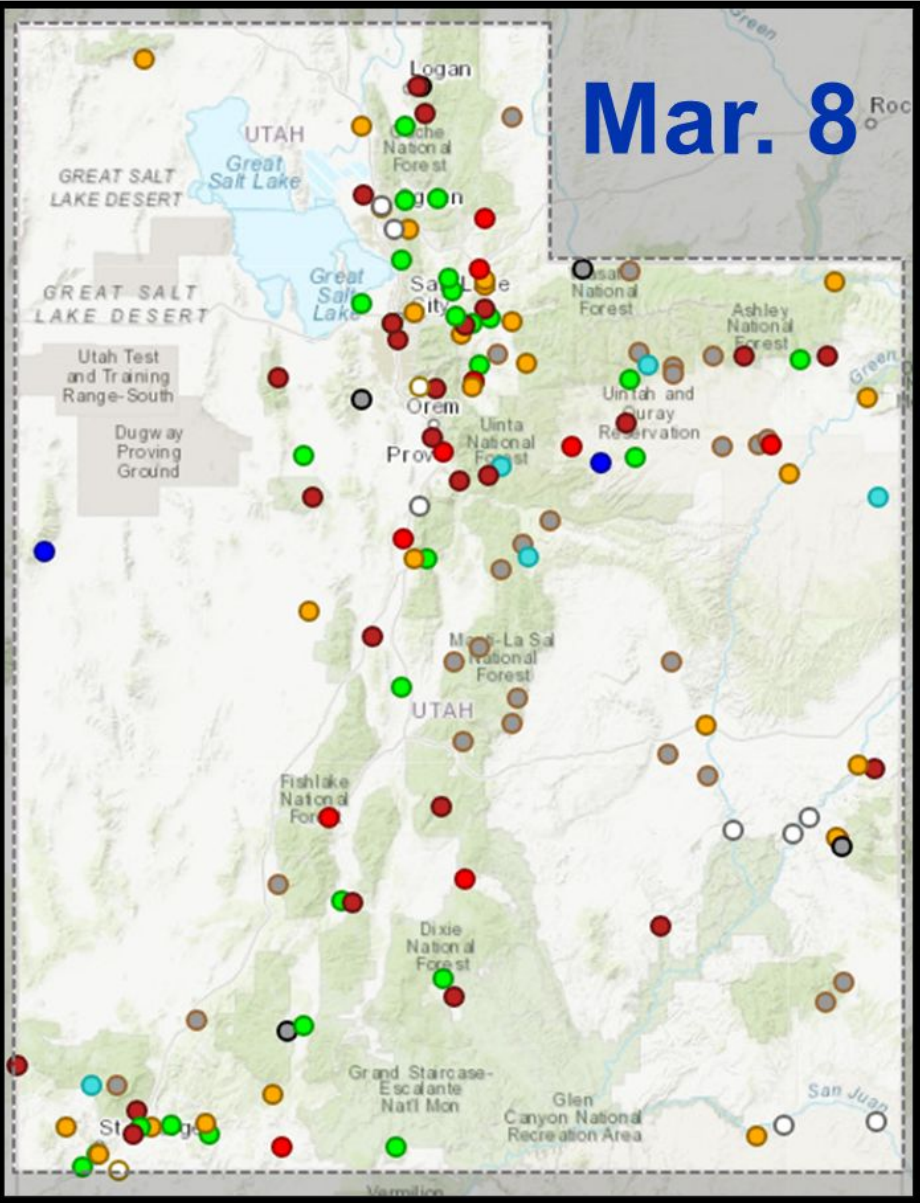
2022/03/01:
Min 1977: 29.9
Average: 72
Median: 64
ESP: 63.7
Official 10: 90
Official 30: 72
Official 50: 65
Official 70: 55
Official 90: 48



Current Streamflow Conditions

March 8

Feb. 22



Day-of-Year Status	# Gages	% Gages
All-time high for this day-of-year	0	0.0%
Much above normal for this day-of-year	2	1.5%
Above normal for this day-of-year	5	3.6%
Normal for this day-of-year	28	20.4%
Below normal for this day-of-year	25	18.2%
Much below normal for this day-of-year	25	18.2%
All-time low for this day-of-year	11	8.0%
Not ranked - insufficient record	11	8.0%
Not ranked - no measurement	23	16.8%
Not ranked - stream not flowing	1	0.7%
Not ranked - no recent measurement	6	4.4%

# Gages	% Gages
0	0.0%
1	0.7%
4	2.9%
24	17.5%
25	18.2%
25	18.2%
11	8.0%
10	7.3%
31	22.6%
2	1.5%
4	2.9%

Streamflow: Status

Above flood stage

All-time high for this day

Much above normal

Above normal

Normal

Below normal

Much below normal

All-time low for this day

Not flowing

Not ranked

Measurement flag

Recent measurement unavailable

100th percentile (maximum)

>90th percentile

76th – 90th percentile

25th – 75th percentile

10th – 24th percentile

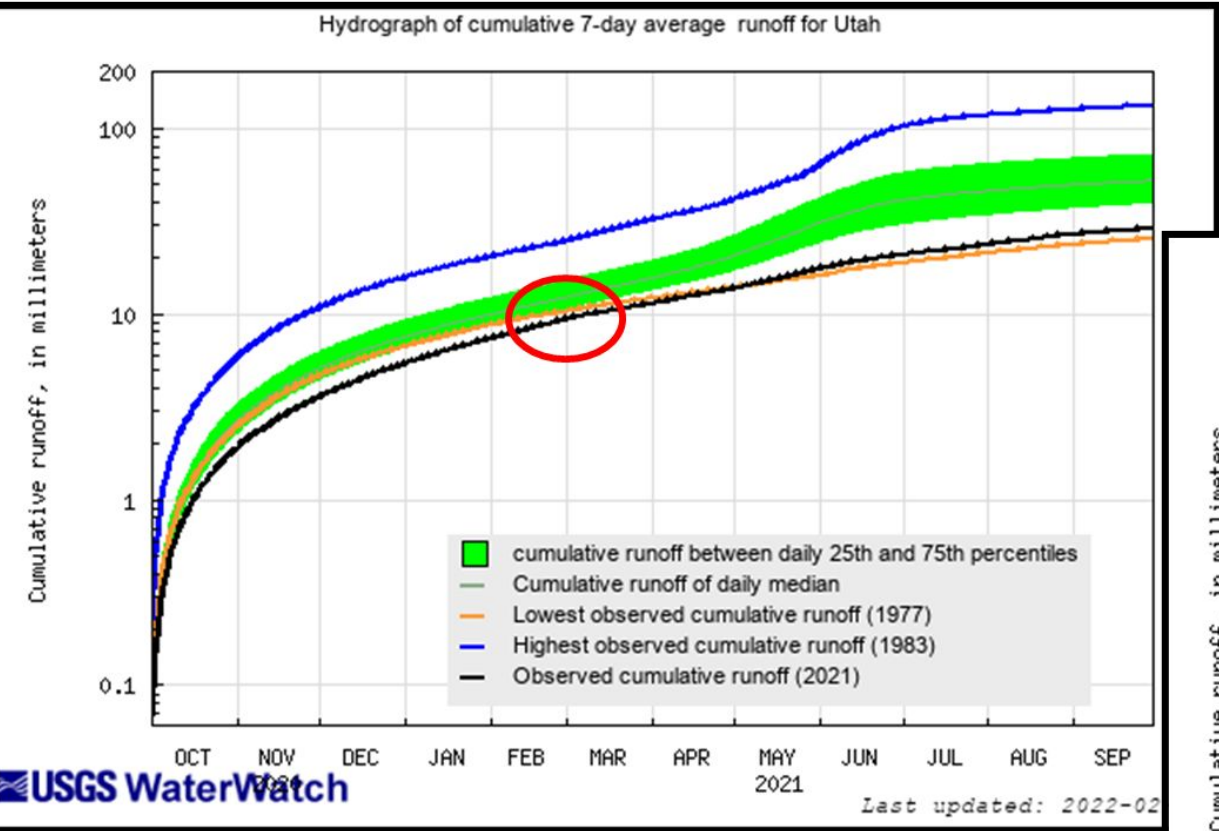
<10th percentile

0th percentile (minimum)

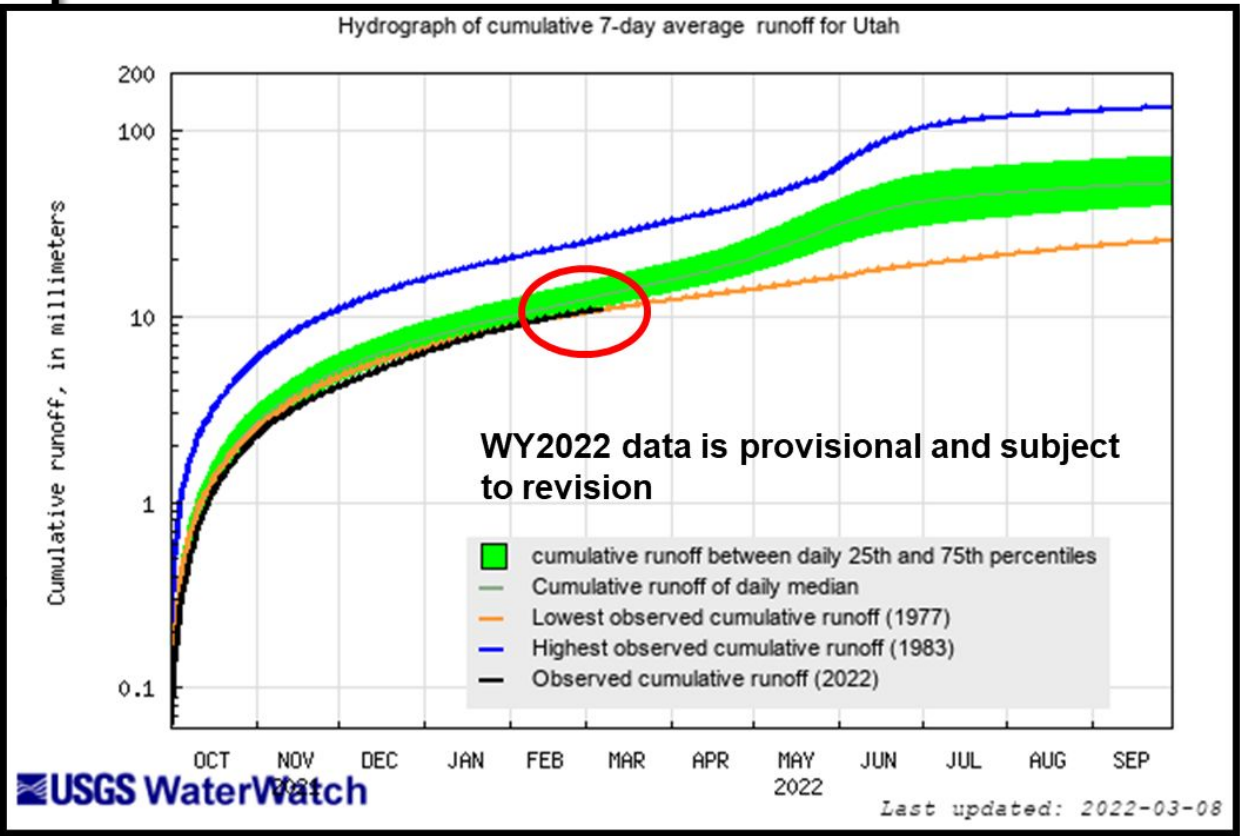


Area Based Cumulative Runoff

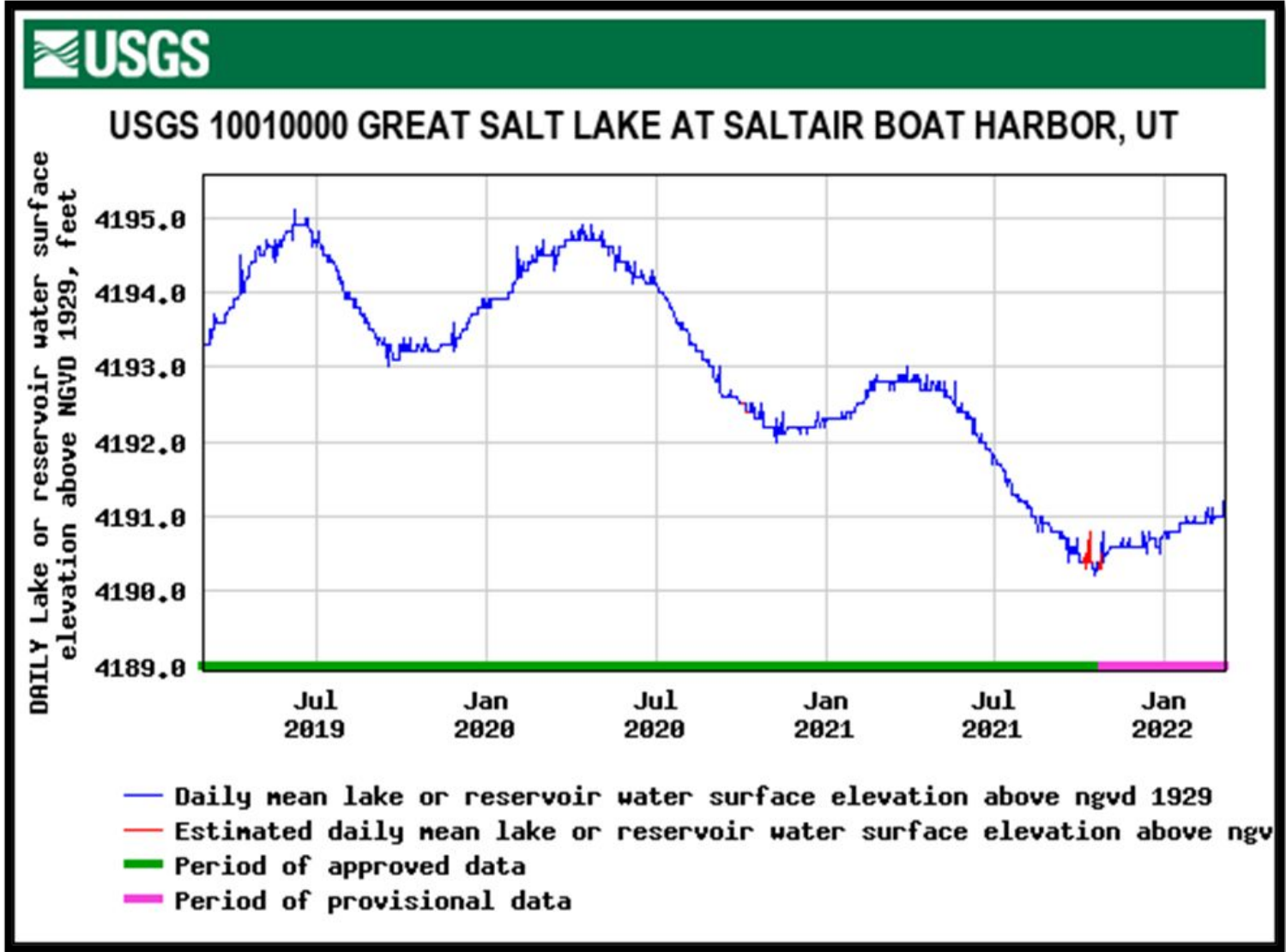
Water Year 2021



Water Year 2022



Great Salt Lake Water Surface Elevation

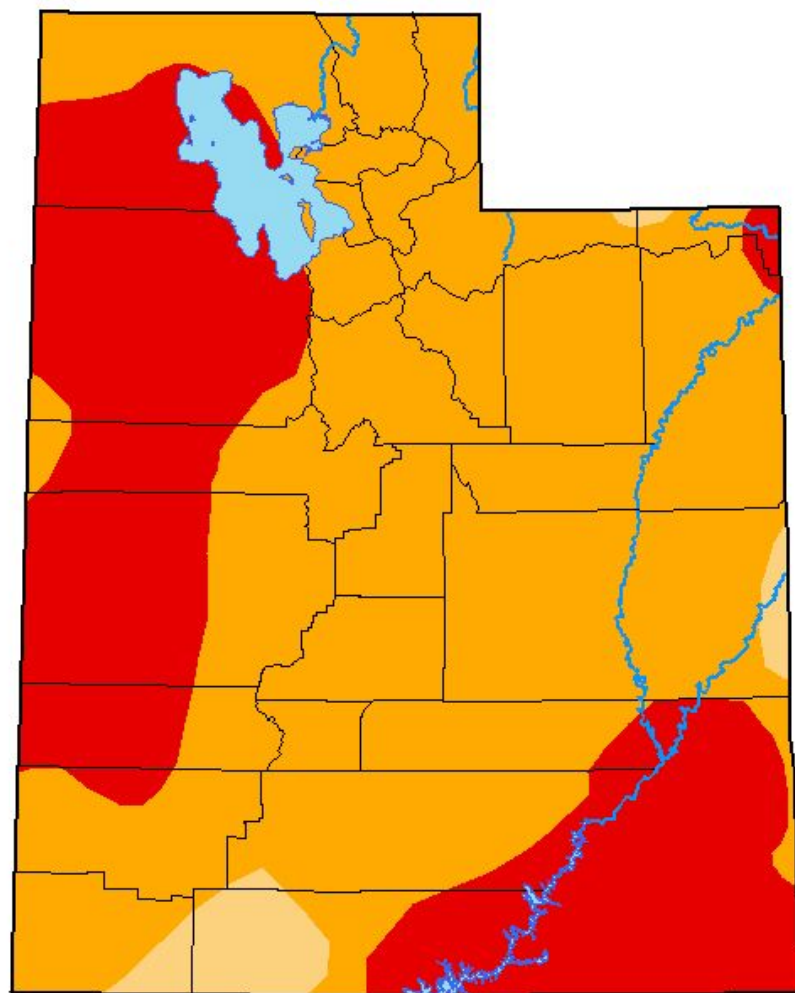


- Mean daily value 3/7/2022 = 4,191.1' (same as last meeting)
- 4,190.2' 10/18/2021 (new historic low)







U.S. Drought Monitor

Utah

March 1, 2022
(Released Thursday, Mar. 3, 2022)
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:

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U.S. Department of Agriculture



droughtmonitor.unl.edu