



# Utah Drought Monitor Webinar

The meeting will begin shortly



Thank you to our contributors



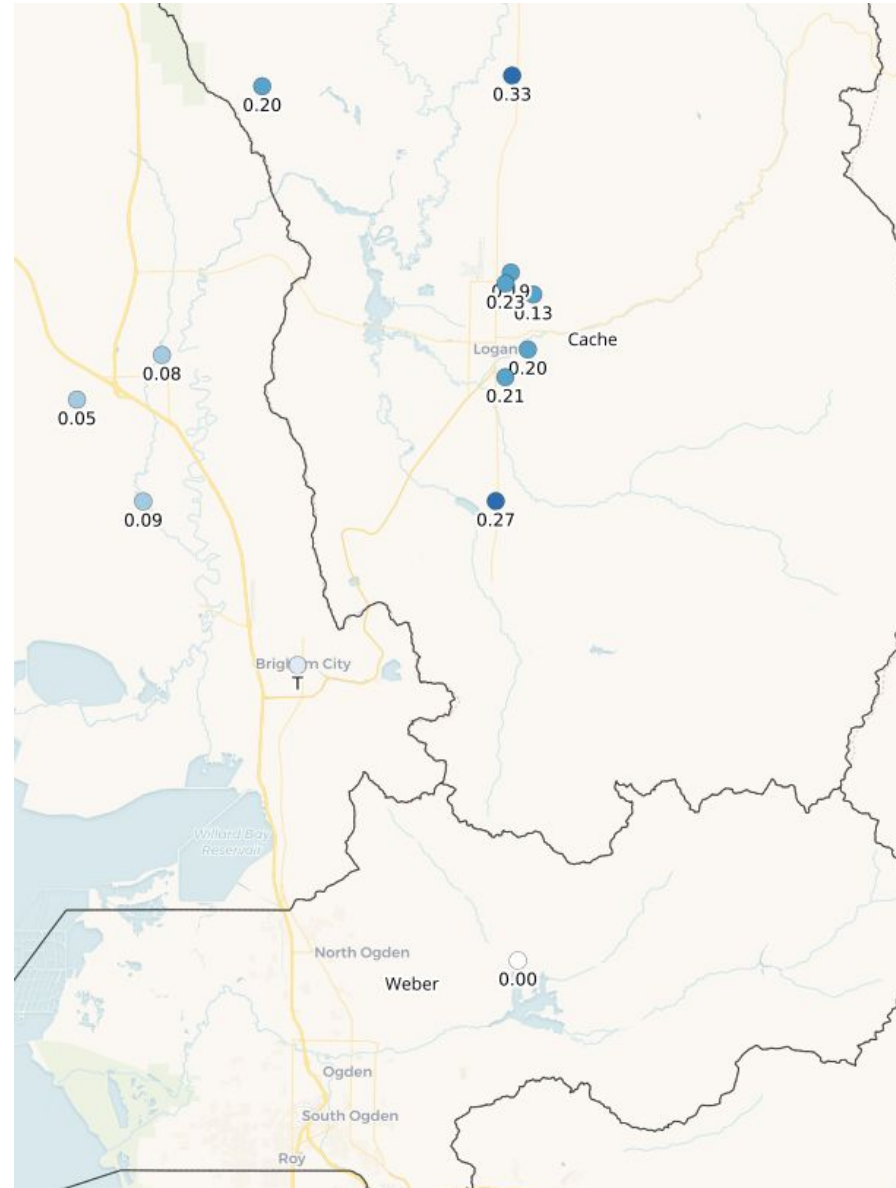


# **Utah Drought Monitor Webinar**

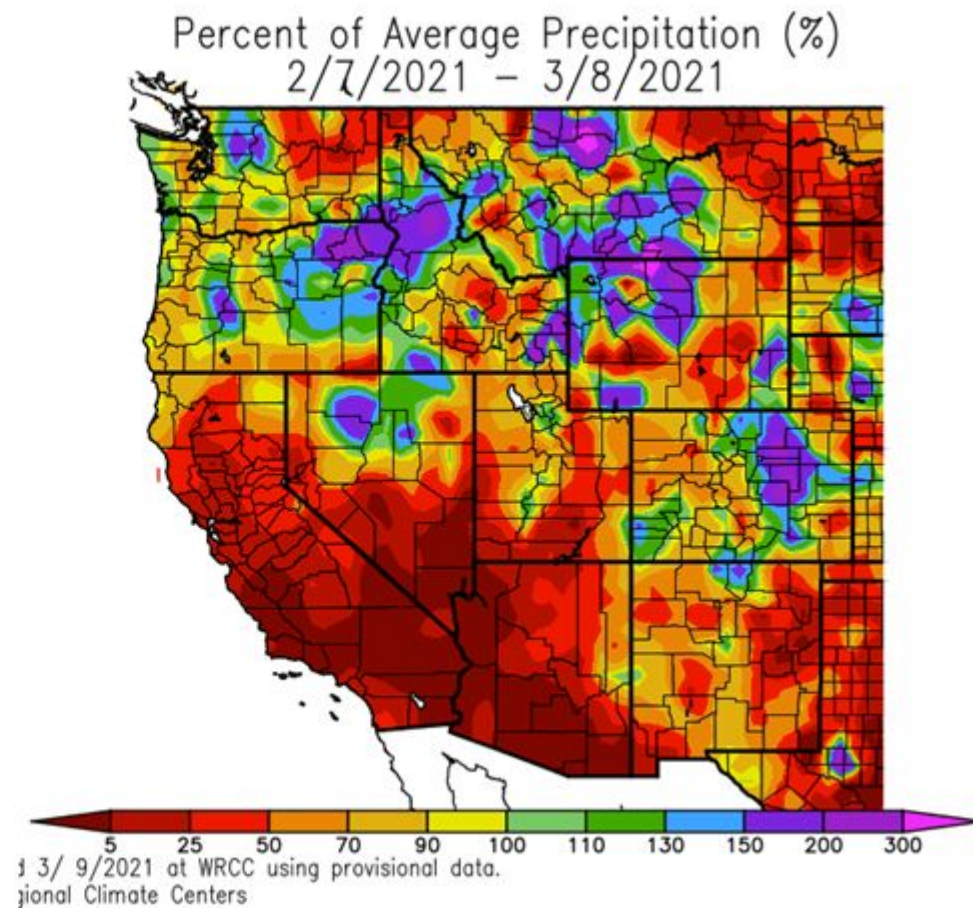
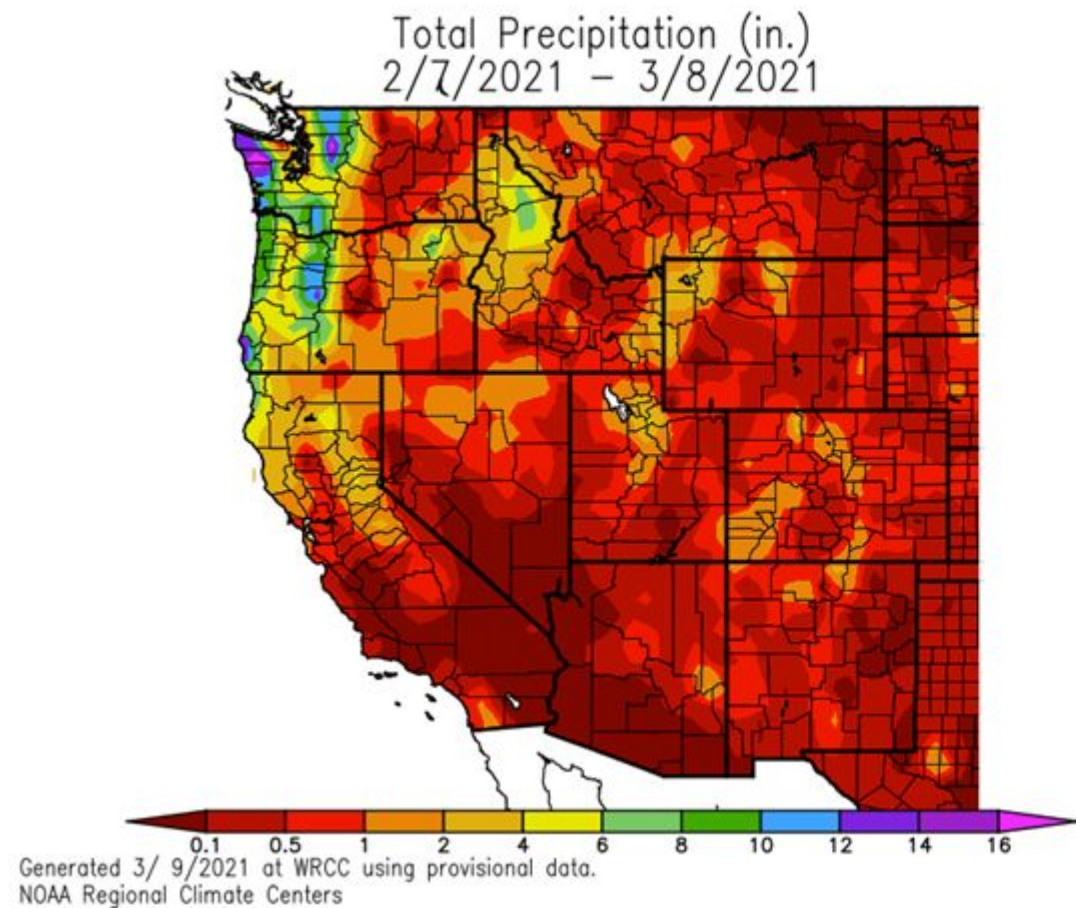
**March 9, 2021**

# Today's storm from CoCoRaHS Gauges:

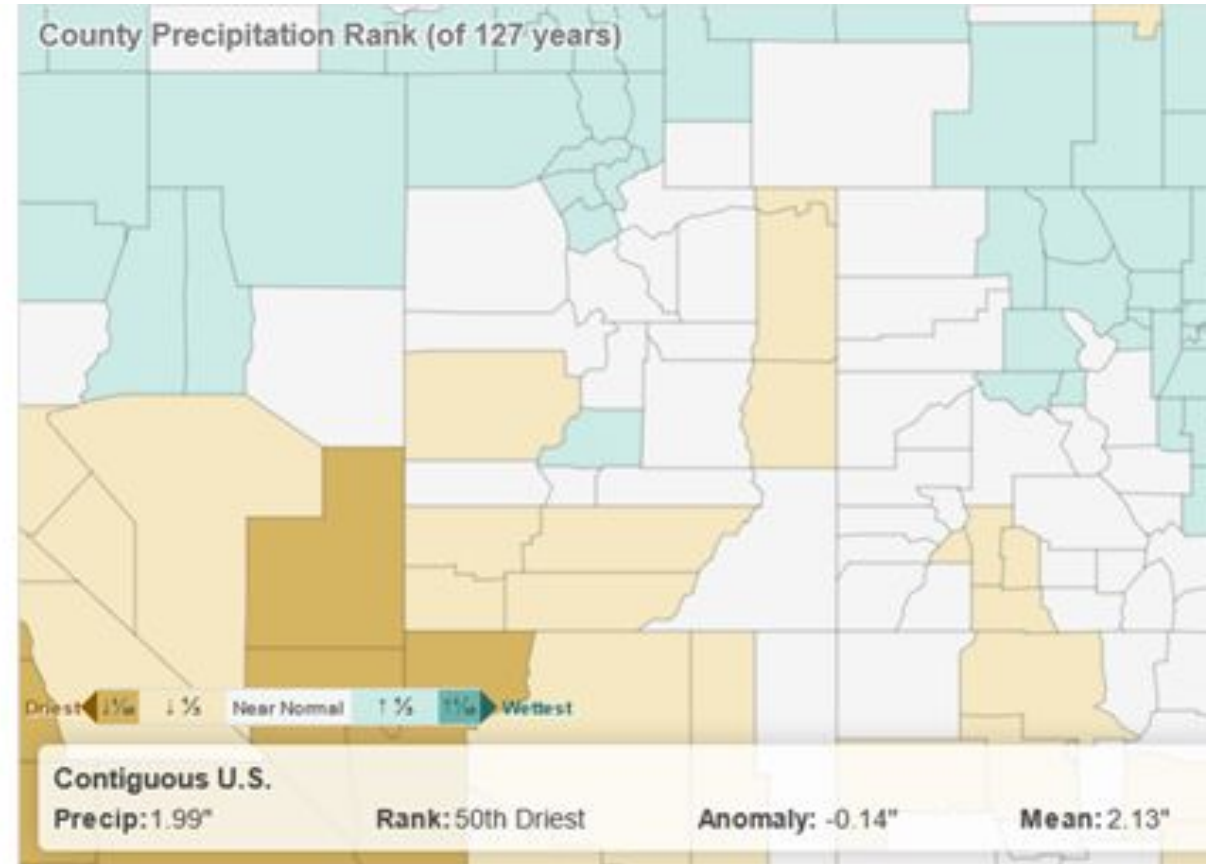
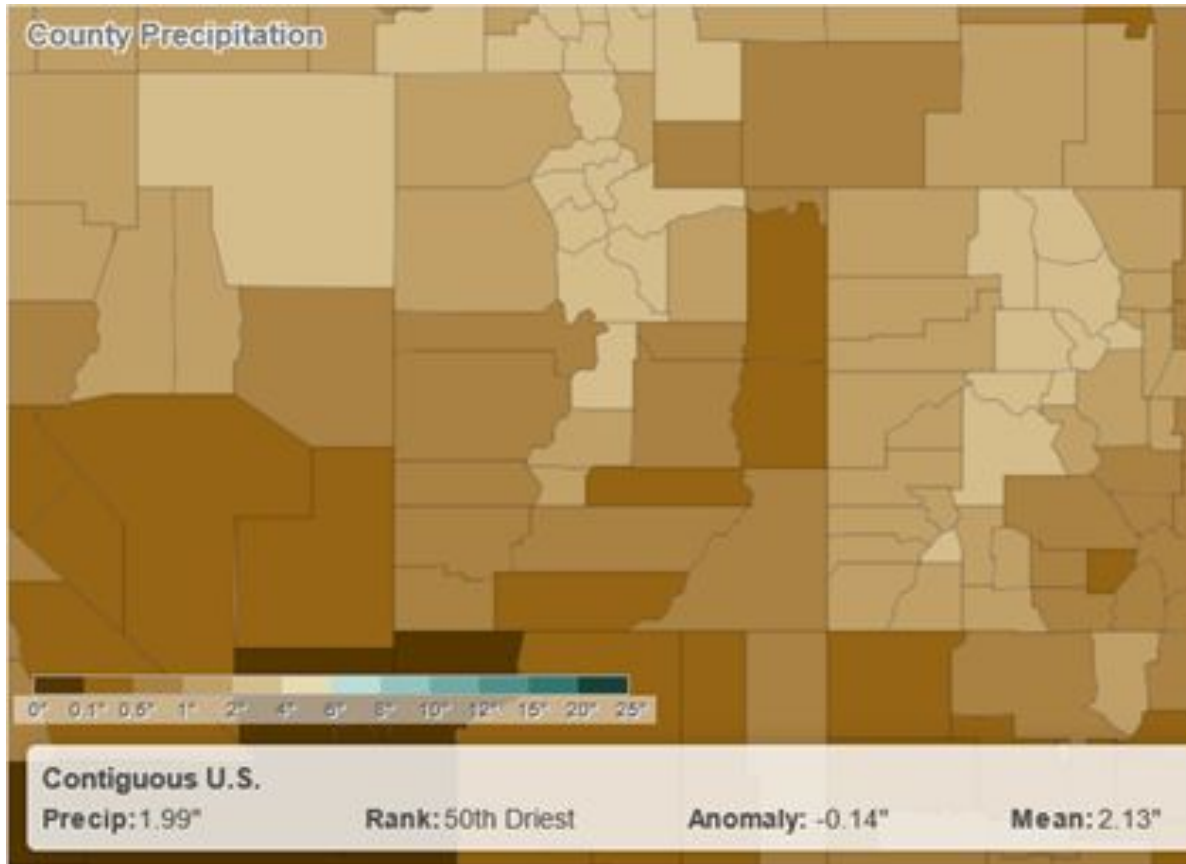
**More to come for the state  
today!**



# Precipitation 30 day history (Percent of Average)



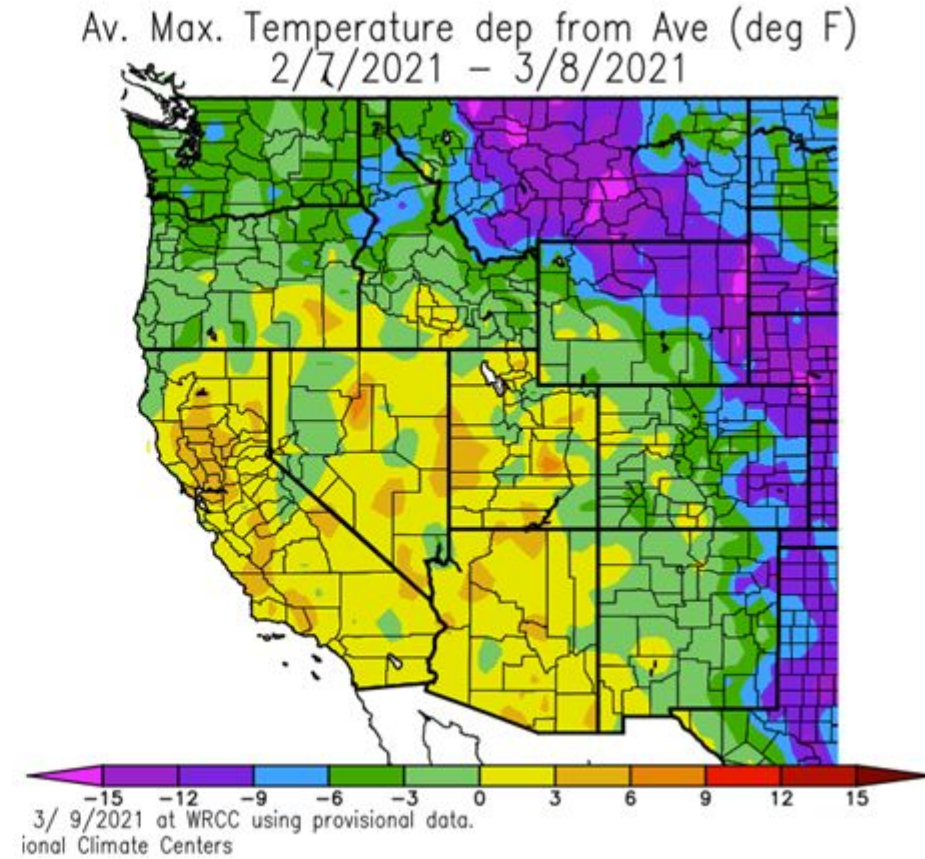
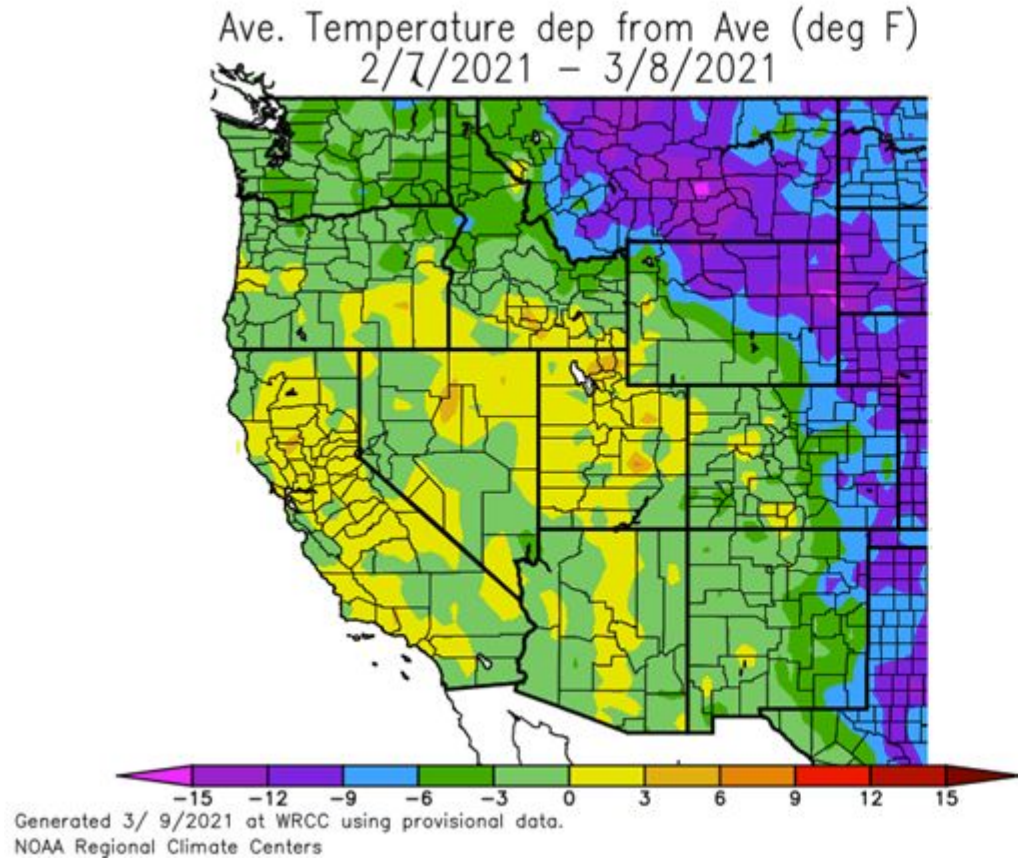
## February felt wet, but was it?



Storms benefited northern Utah the most with central Utah seeing near normal and southern and far eastern counties seeing another below average month



# Temperature 30 day (Related to Average)

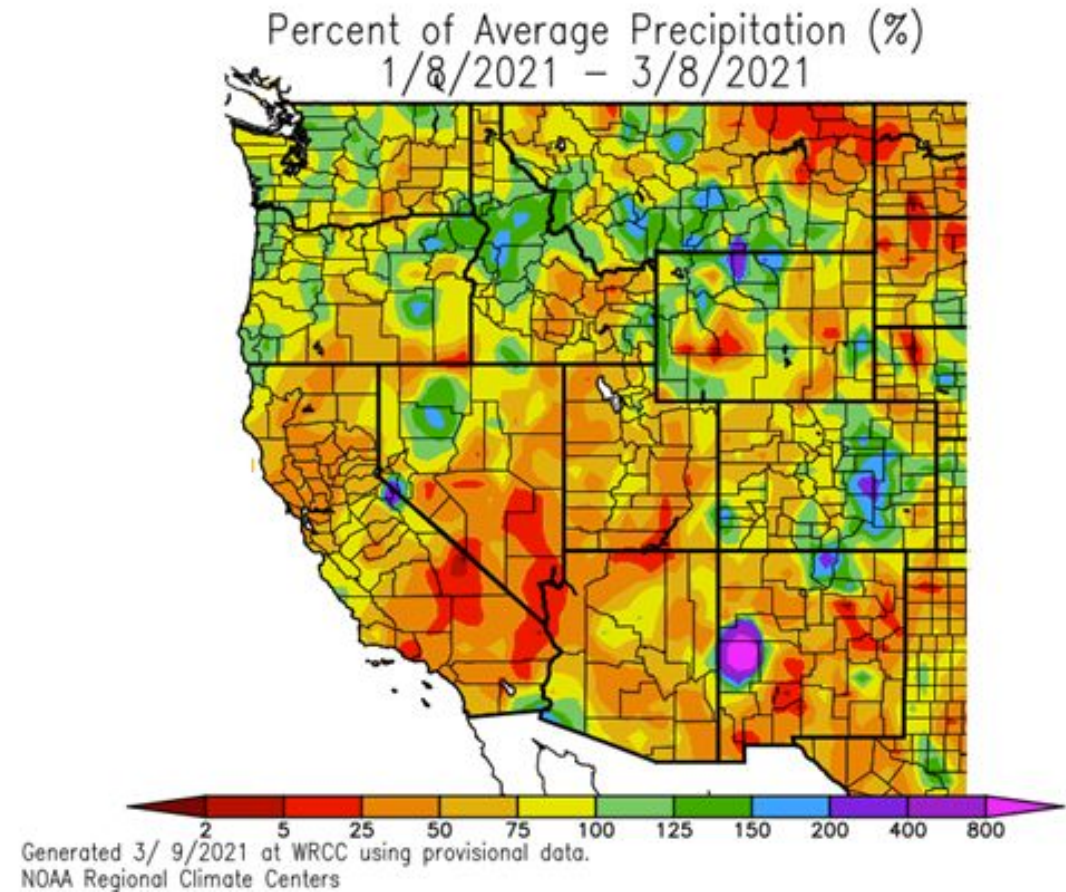
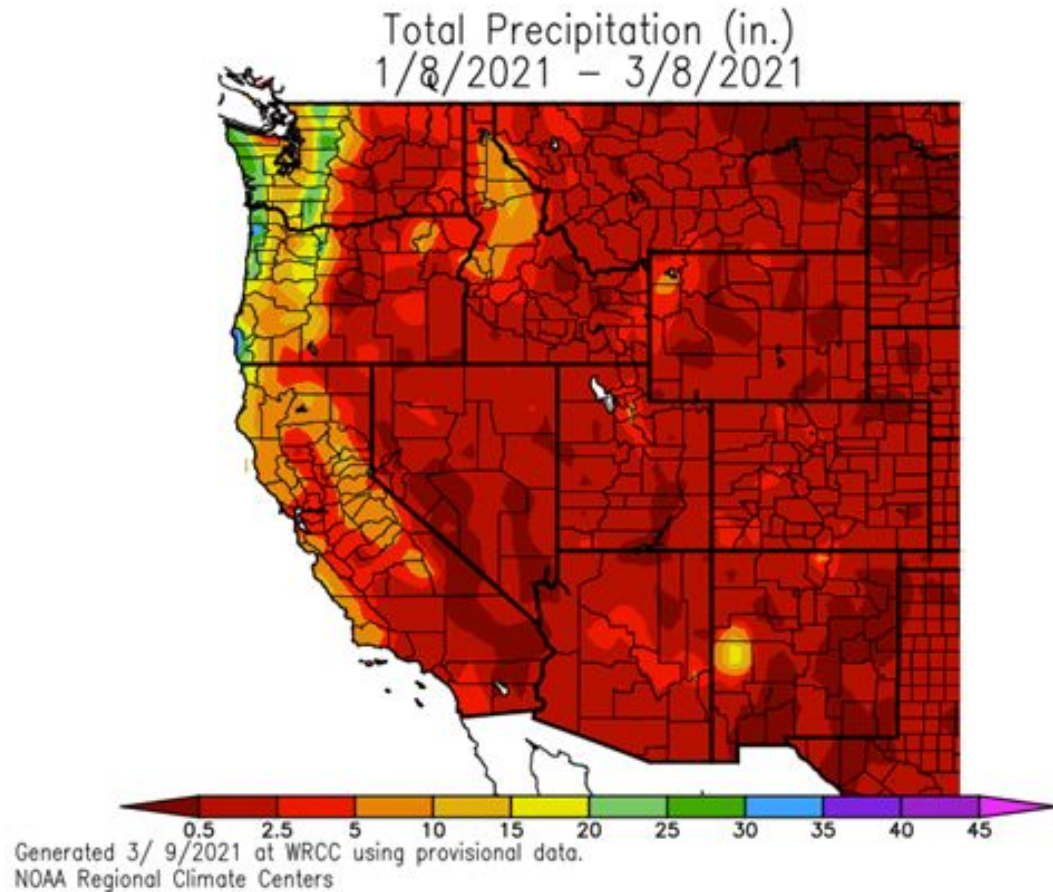


Fairly normal temperatures with a slight hedge toward warmer than normal across central and southern Utah.

Agency - Utah Climate Center

Presenter - Jon Meyer

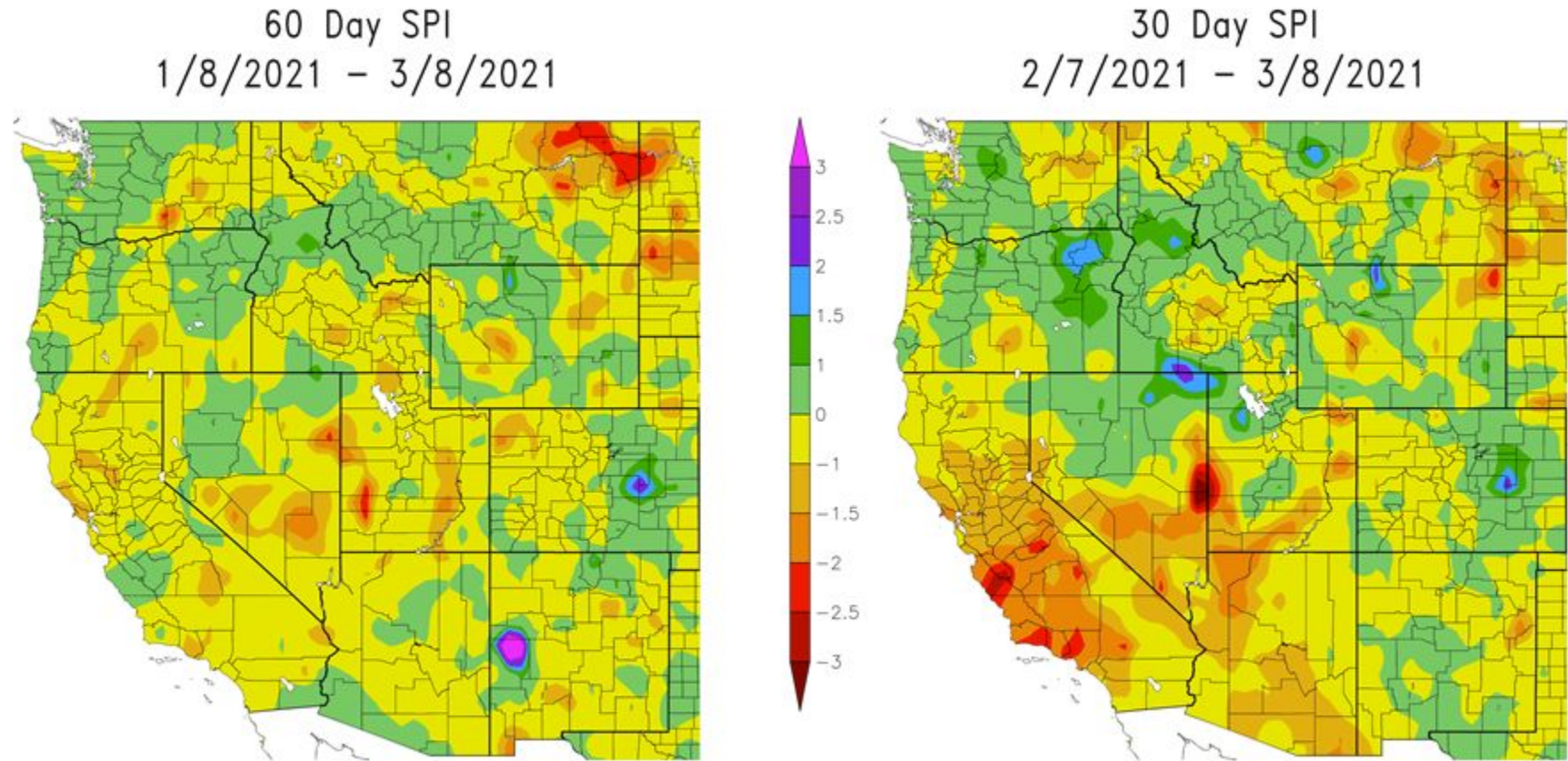
# Precipitation 60 day history (Percent of Average)



2021 remains dry with most of the state remaining well below normal precipitation.



# Standardized Precipitation Index (SPI)



Generated 3/9/2021 at HPRCC using provisional data.

NOAA Regional Climate Center at HPRCC using provisional data.

NOAA Regional

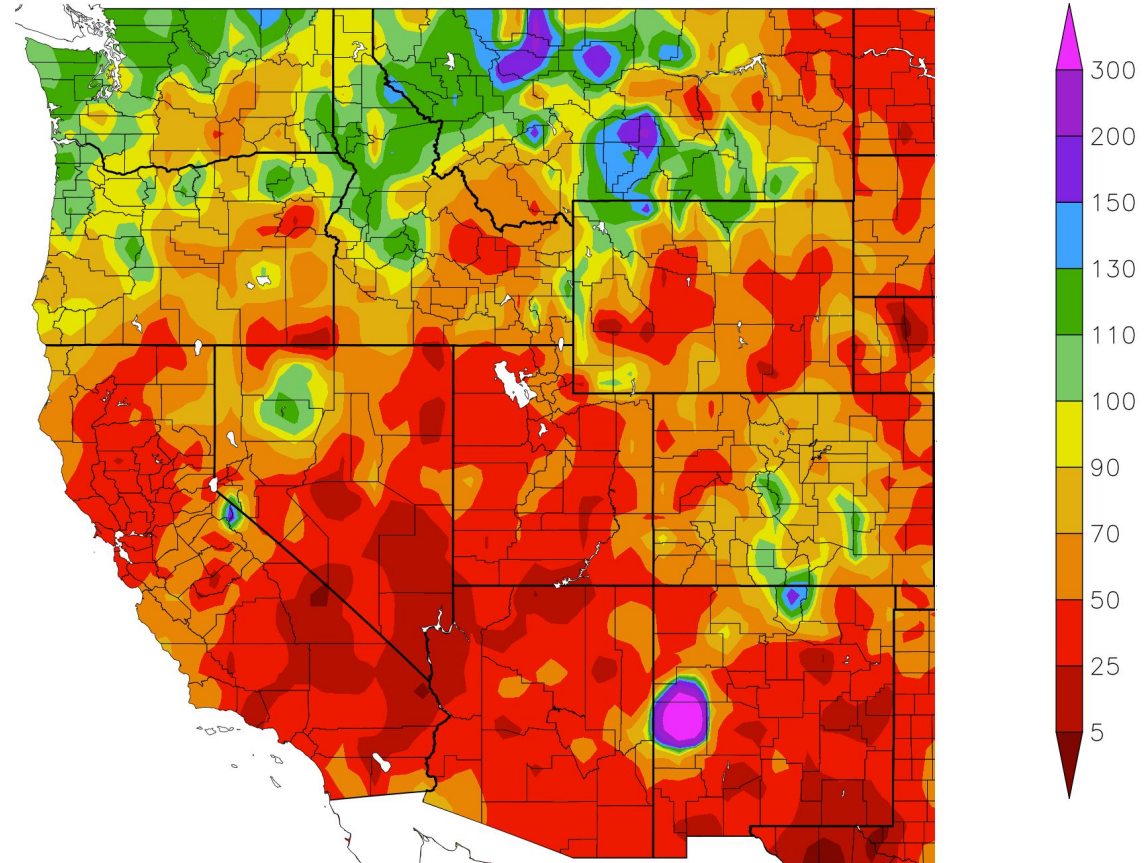
Standardized precipitation shows Northern Utah's February has been right around normal while the rest of the state has remained on the dry side on expectations.



# Water Year Perspective

The region remains well below normal despite a more active month of February that helped boost snowpack closer to normal.

Percent of Normal Precipitation (%)  
10/1/2020 – 3/8/2021

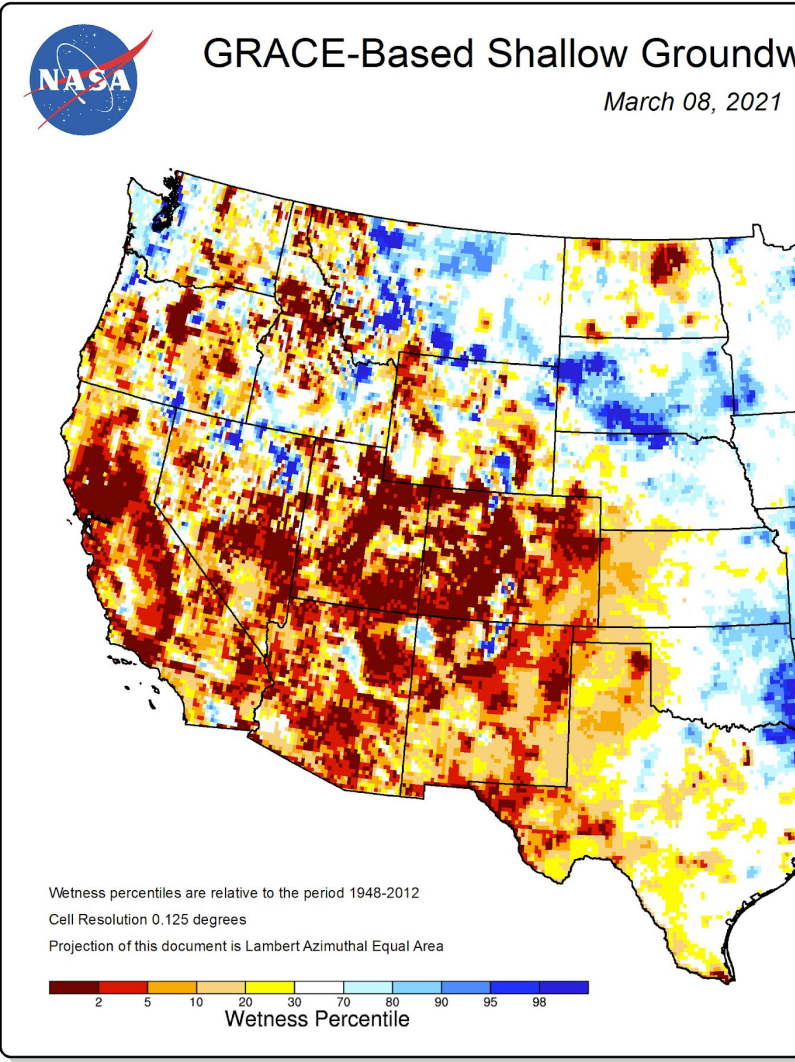
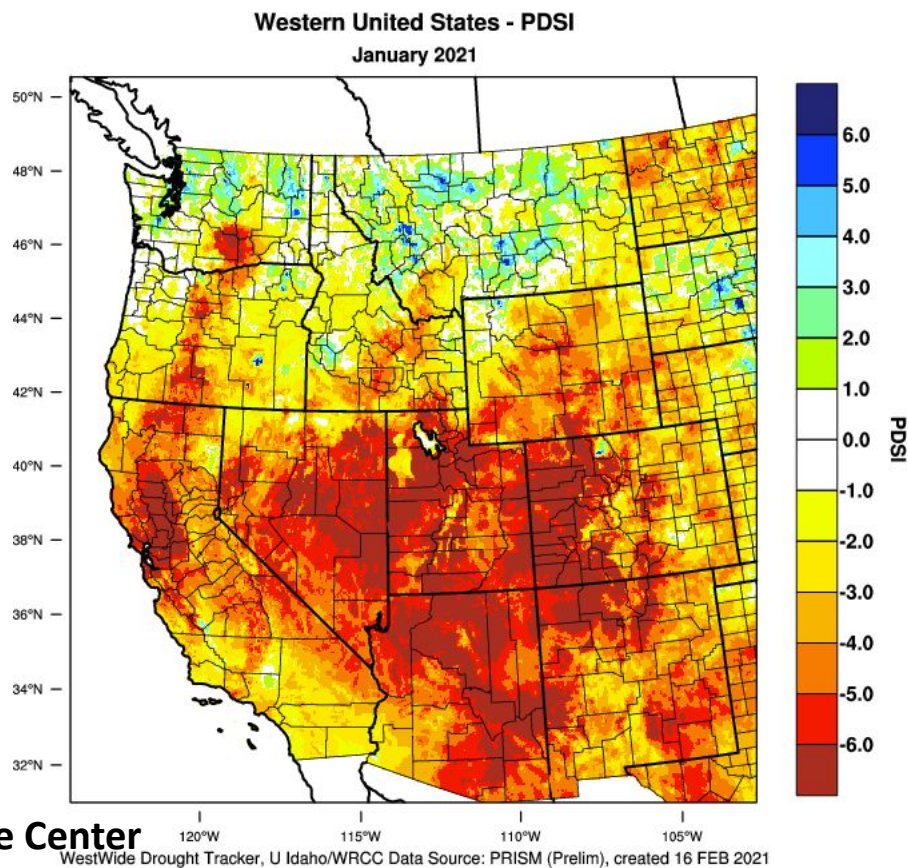


Generated 3/9/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers

# Drought Indices (VegDRI, QuickDRI, EDDI, WestWide Drought Tracker @ first of month)

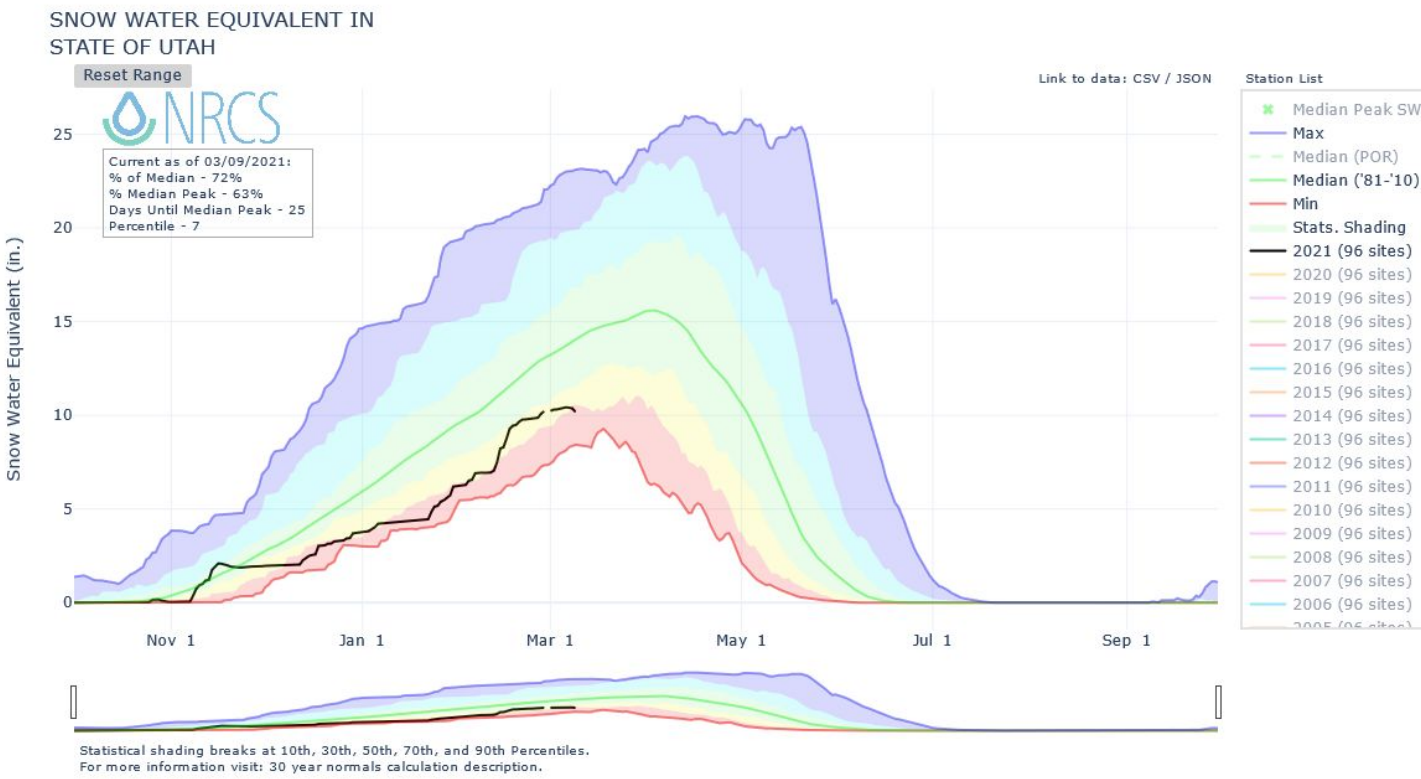
Climate indices haven't updated for February just yet.



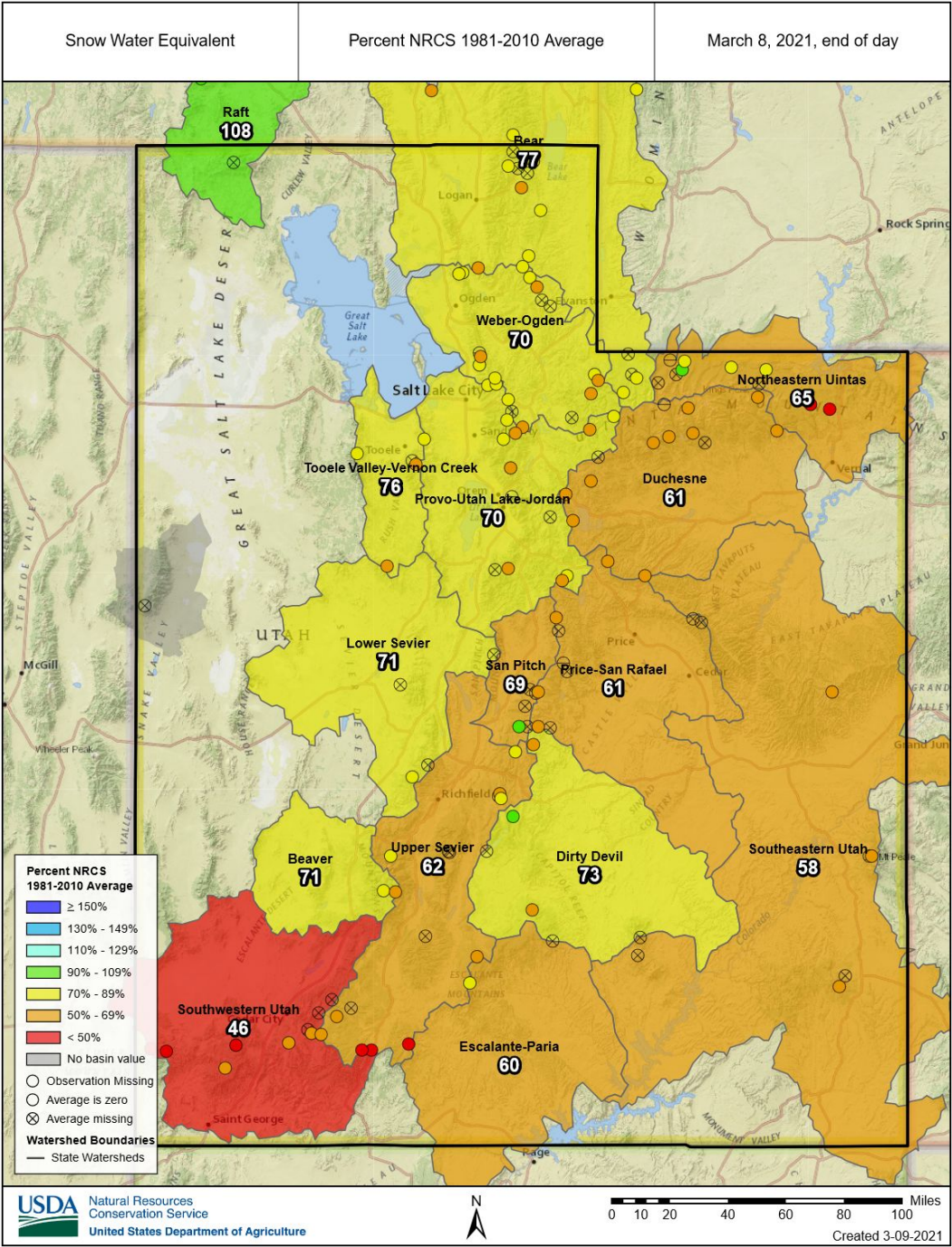


# Snowpack

statewide: 72% of normal SWE



Agency - NRCS Snow Survey  
Presenter - Jordan Clayton

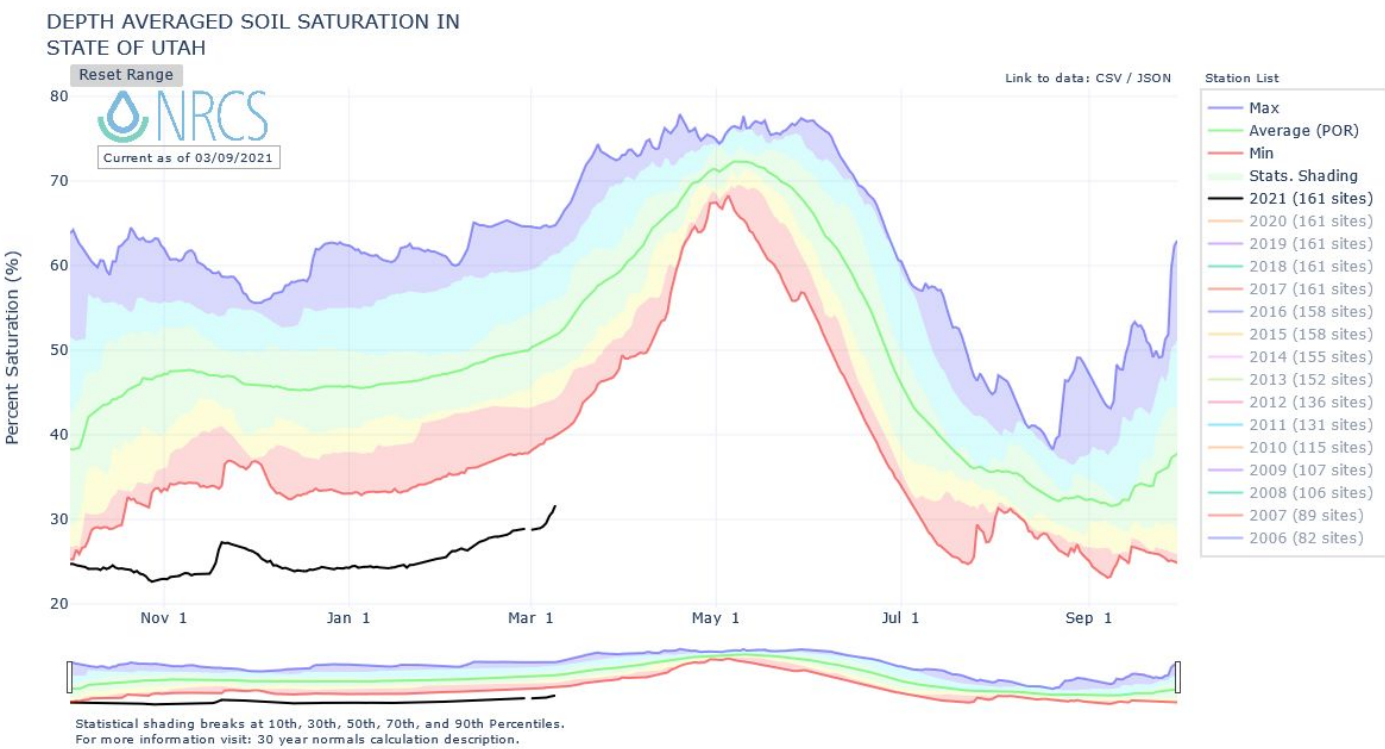




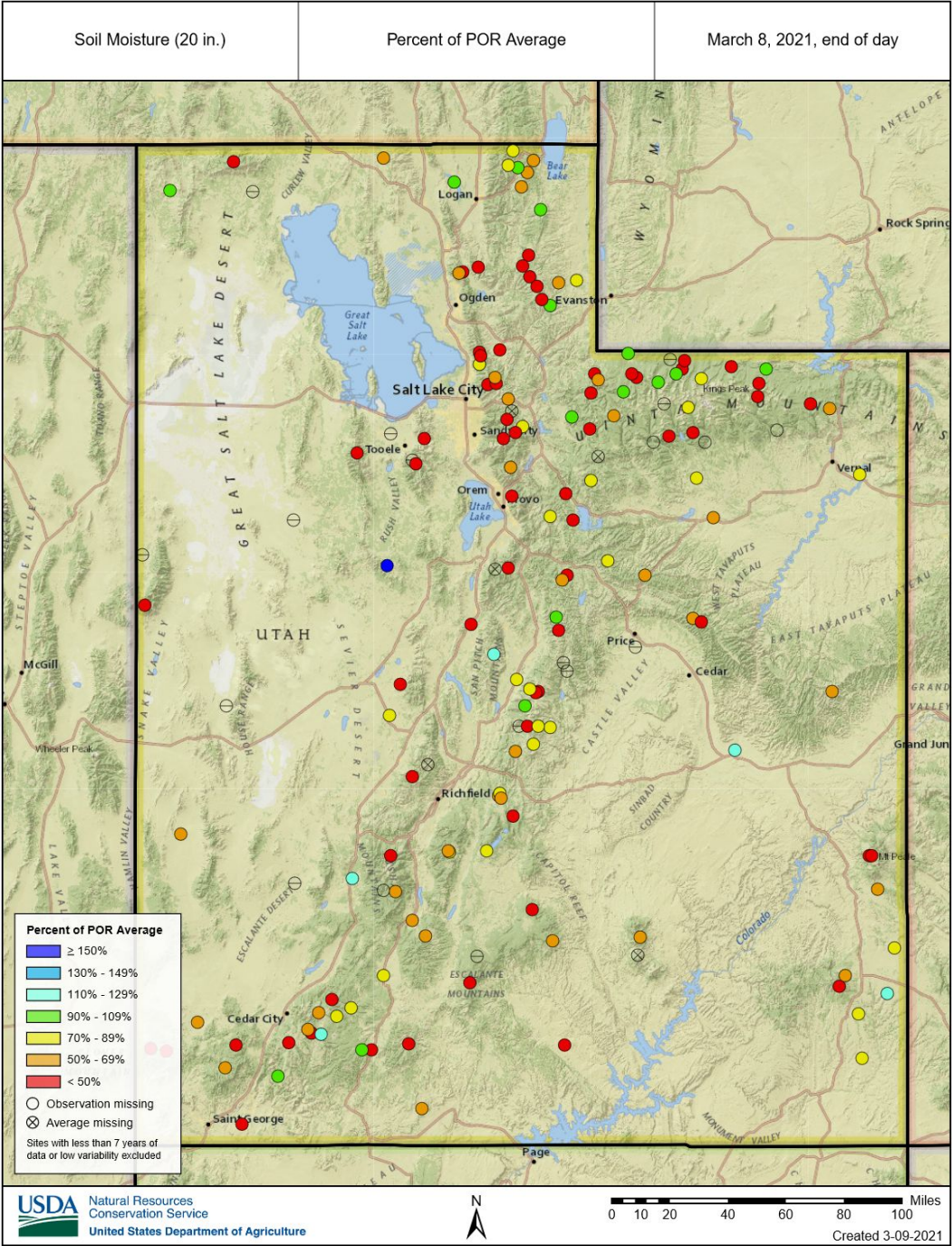
# Soil Moisture

20" sensor, % normal  
SNOTEL & SCAN

statewide percent of saturation compared with POR data



Agency - NRCS Snow Survey  
Presenter - Jordan Clayton

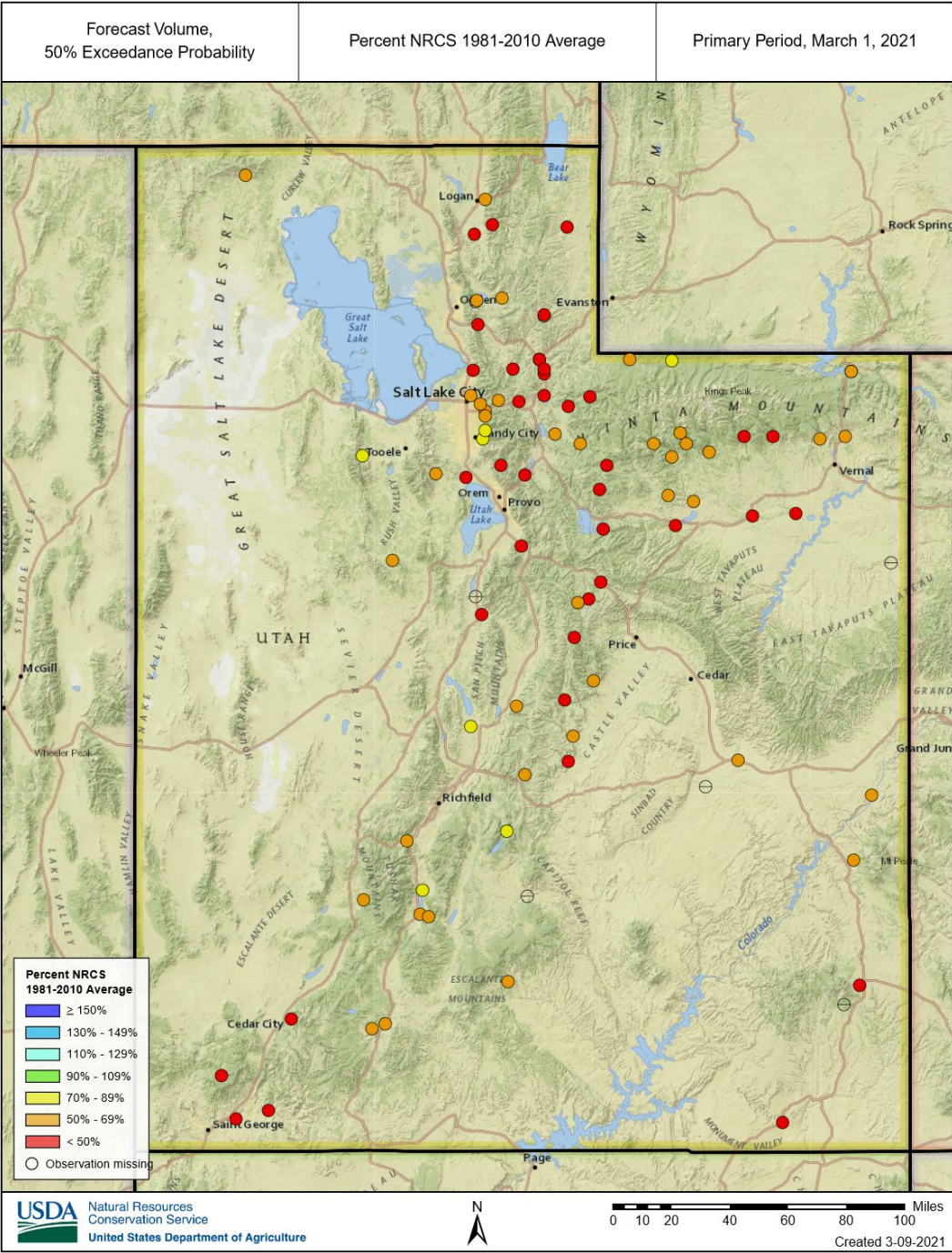




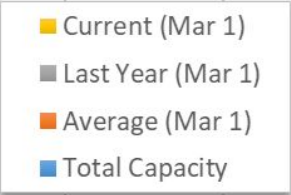
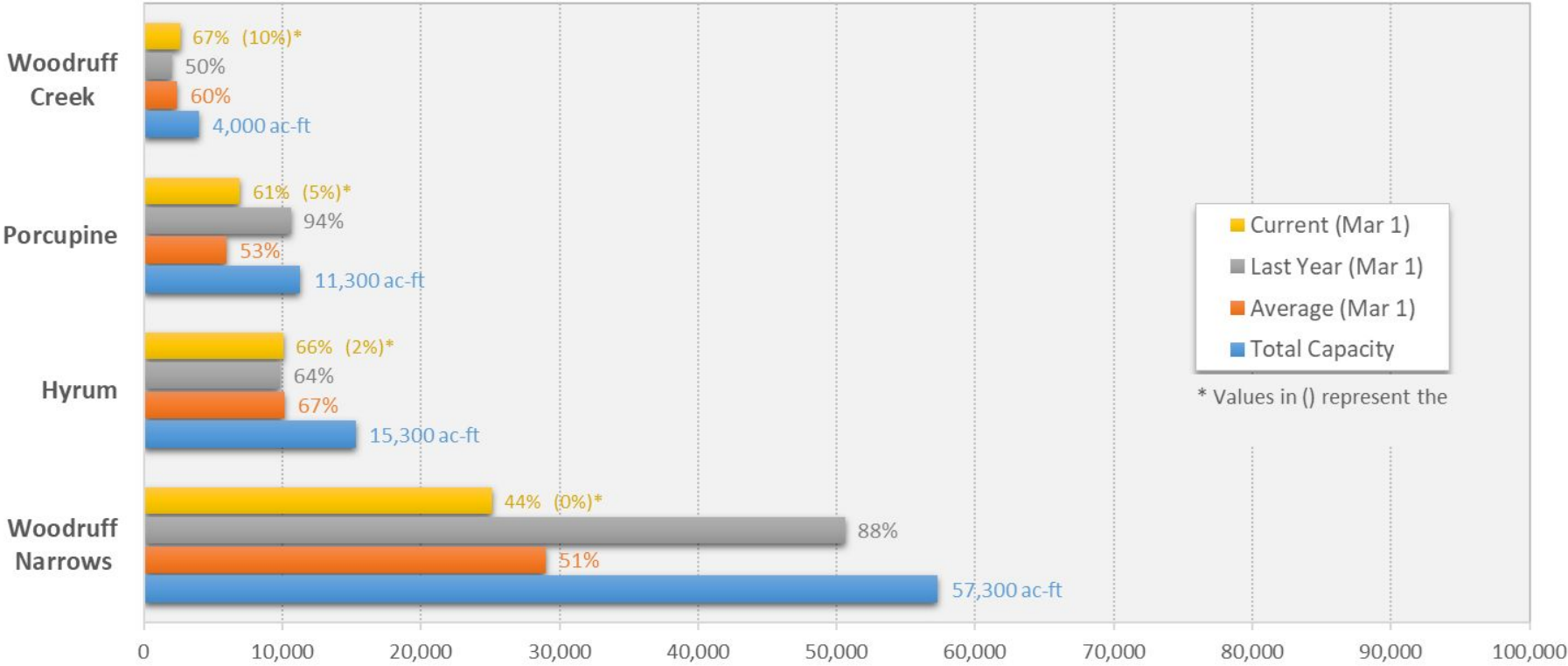
# Streamflow forecasts (NRCS)

April - July volume  
generally between 25% - 75% of avg.

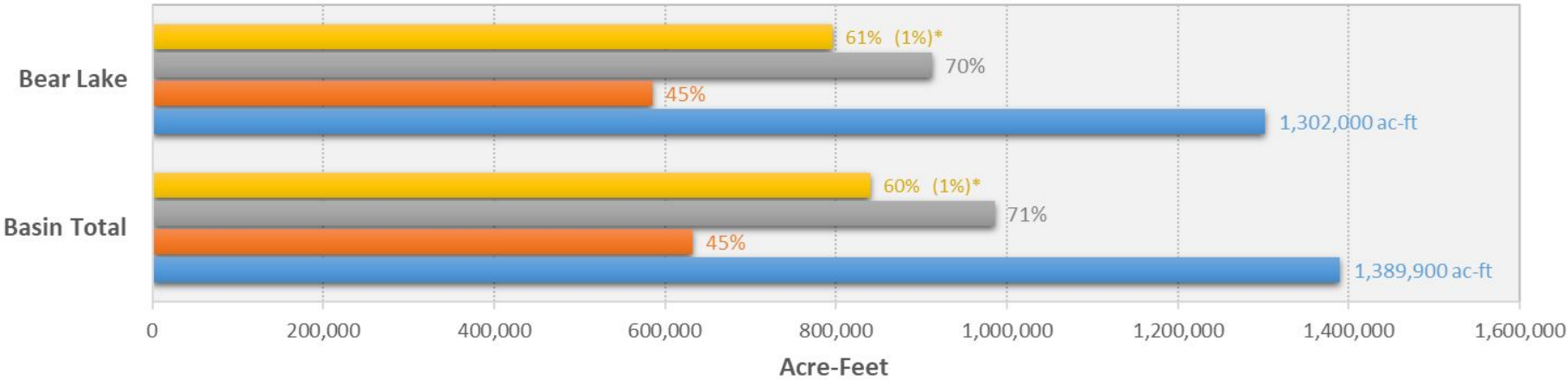
Agency - NRCS Snow Survey  
Presenter - Jordan Clayton



Bear River Basin Reservoir Storage (Mar 1)

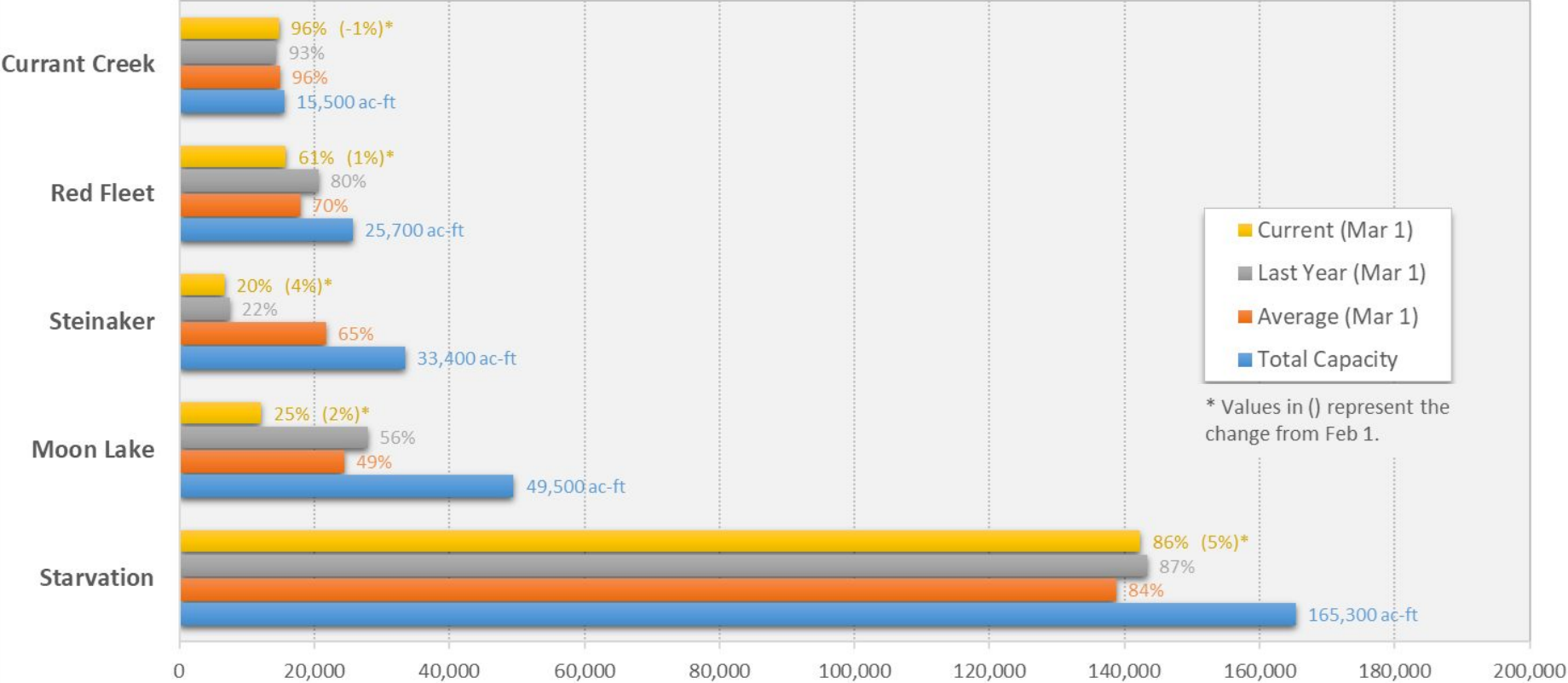


\* Values in ( ) represent the

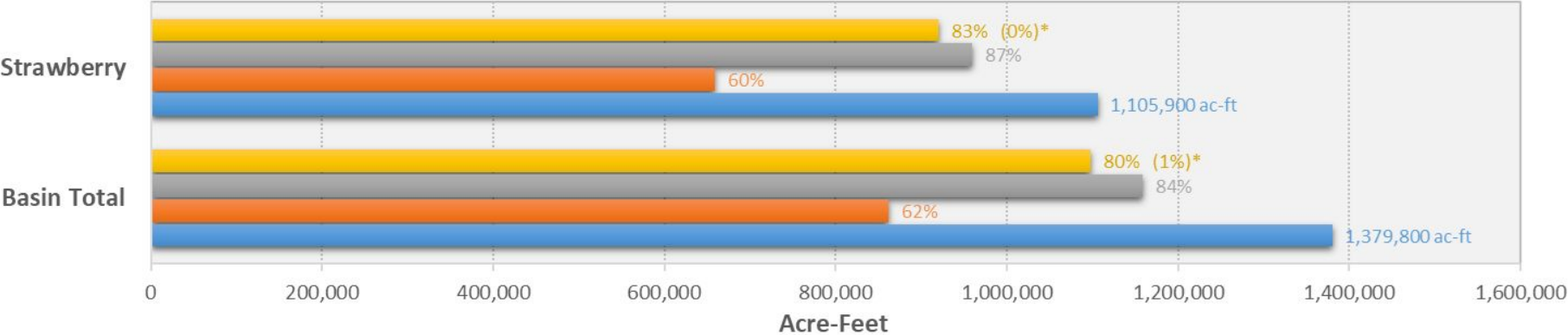




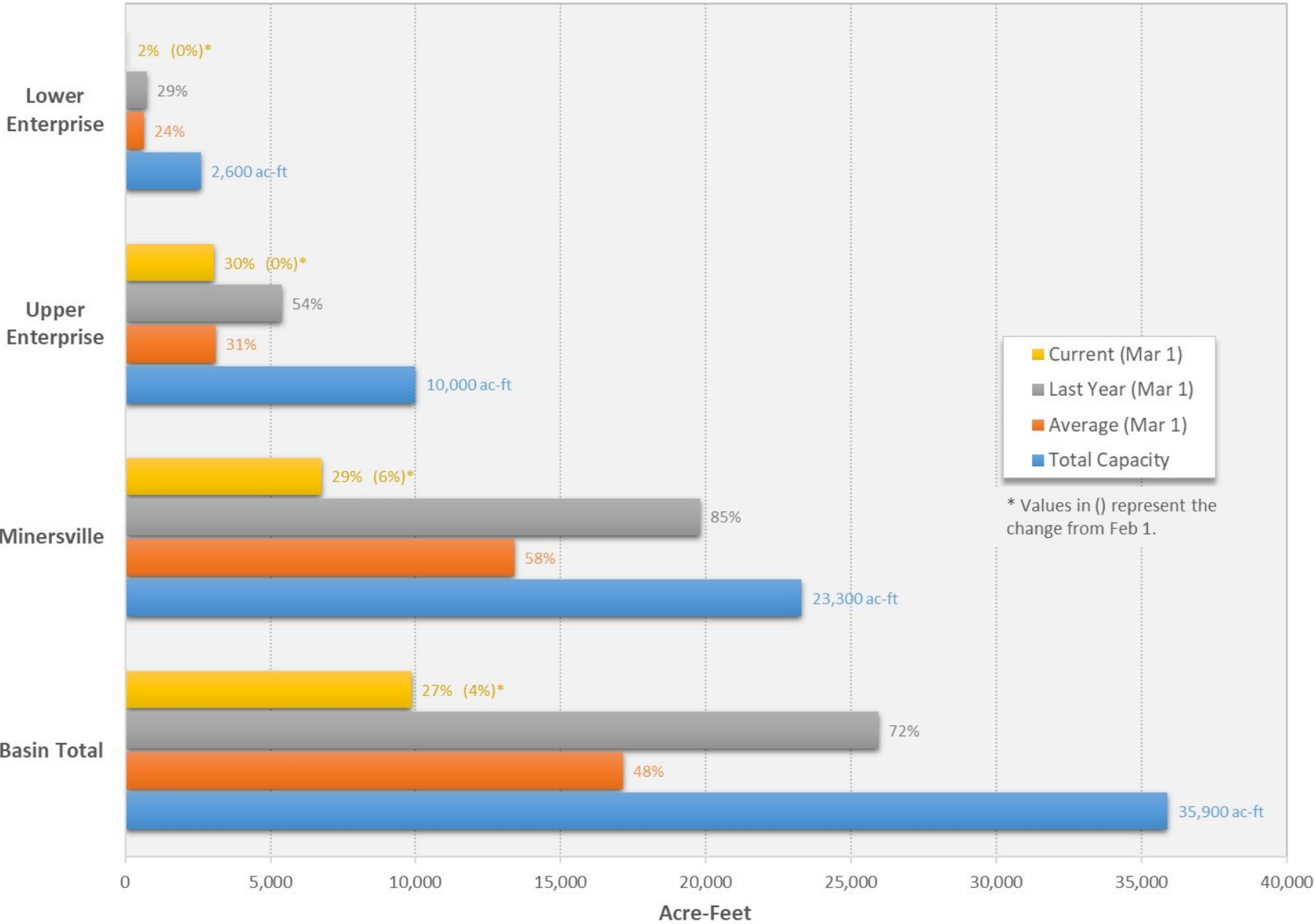
Uintah Basin Reservoir Storage (Mar 1)



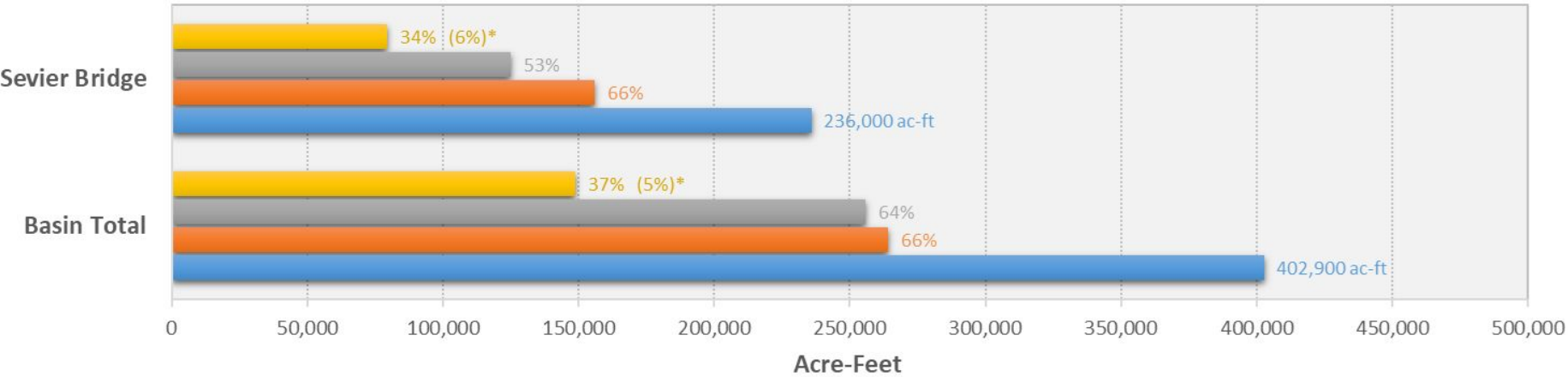
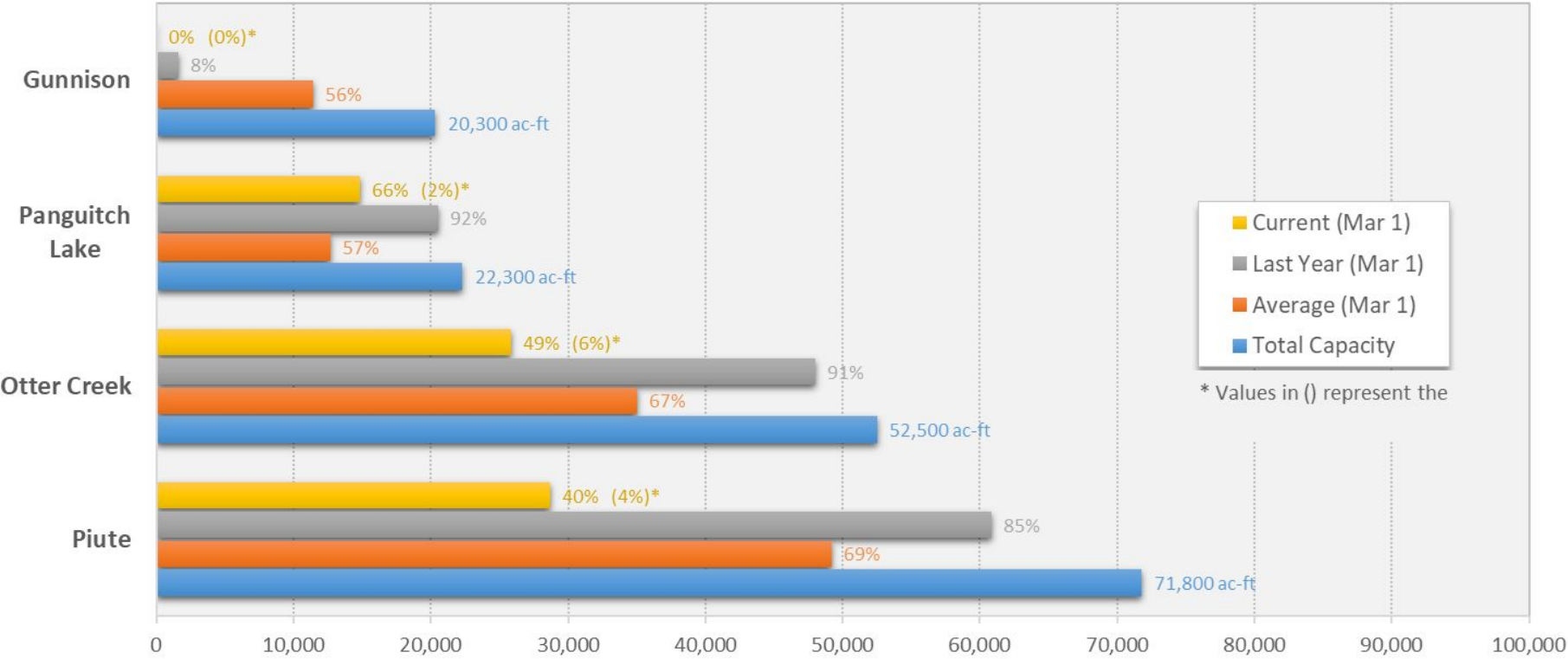
\* Values in () represent the change from Feb 1.



Cedar/Beaver Basin Reservoir Storage (Mar 1)

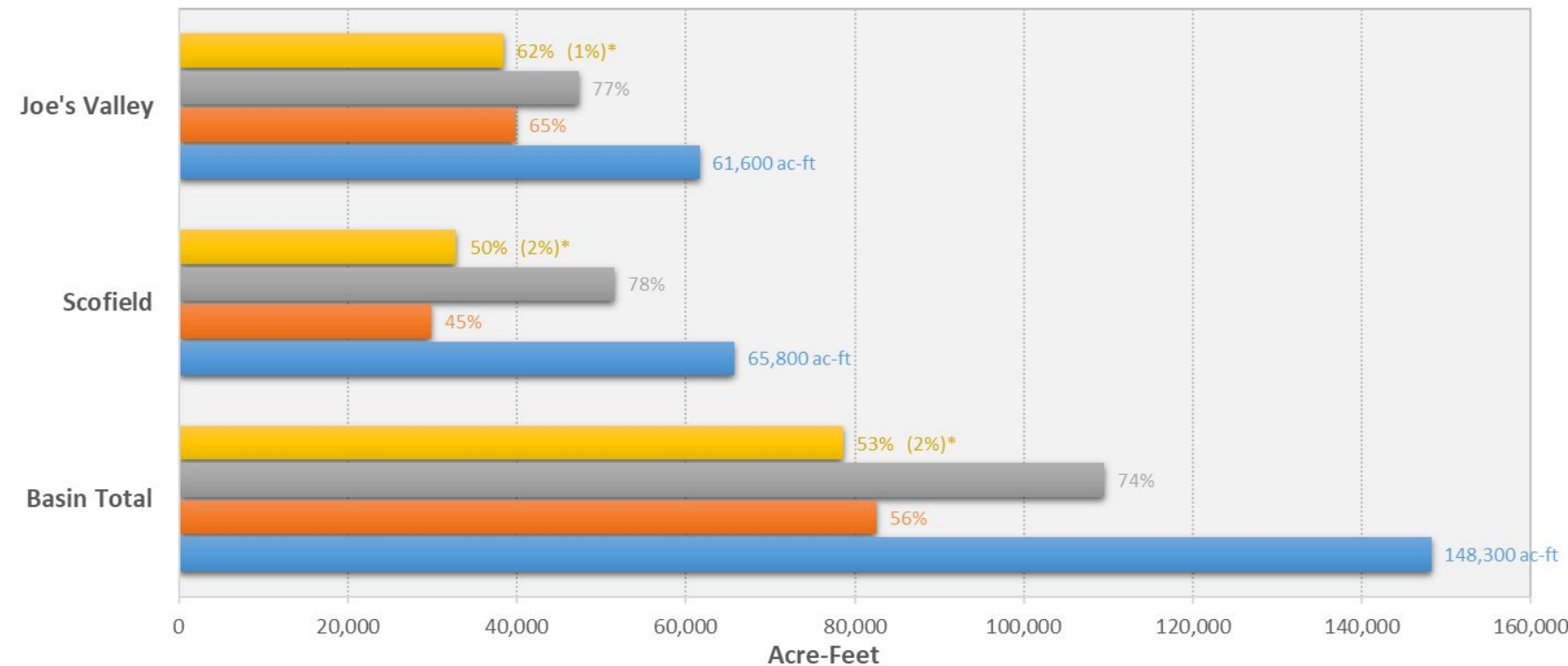
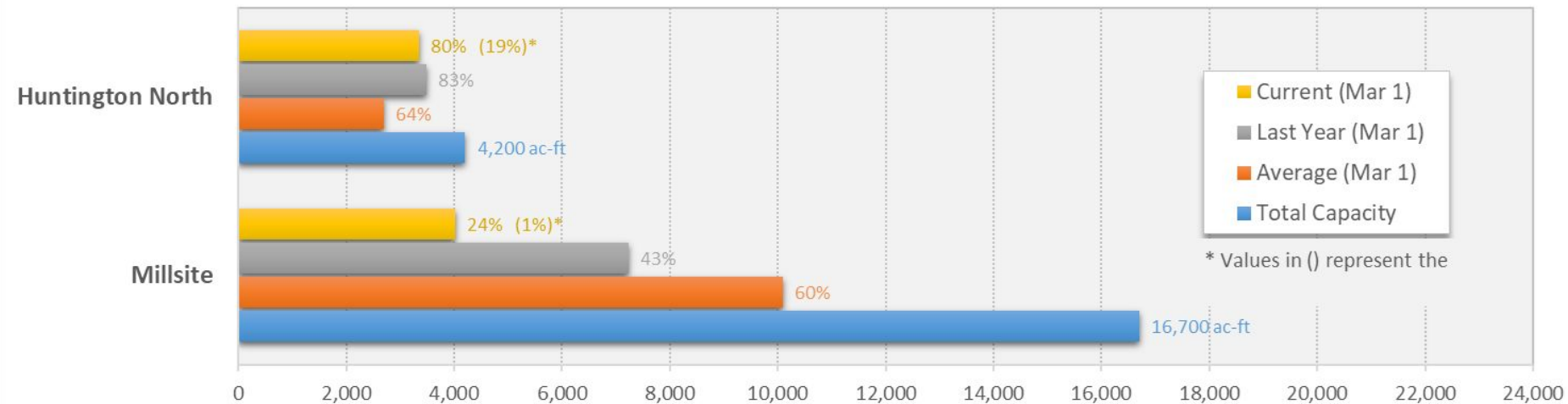


Sevier River Basin Reservoir Storage (Mar 1)

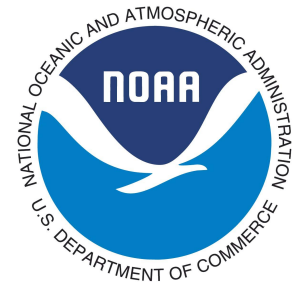




West Colorado Basin Reservoir Storage (Mar 1)




# Weather Forecast Office Utah Day 1-3 Outlook



## Cooler, More Unsettled Weather Pattern

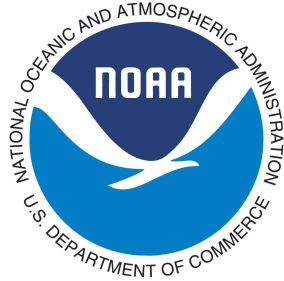
Mostly cloudy with periods of light rain, snow



Salt Lake City

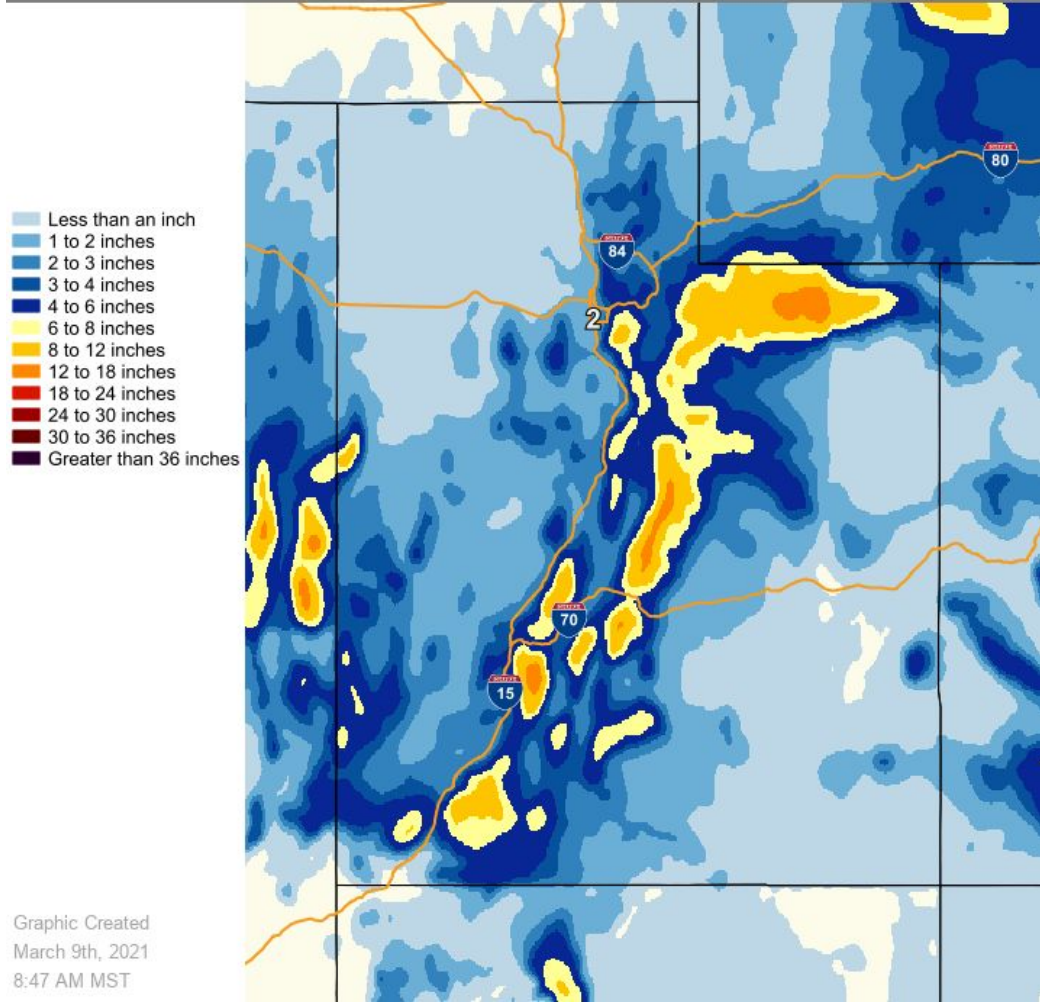
<b><u>Overnight - Early Tuesday</u></b> Light rain, snow Northern Utah and southwest Wyoming	<b>High Low</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
<b><u>Tuesday - Wednesday</u></b> Light mountain snow, light valley rain/snow Northern, central Utah and southwest Wyoming	<b>Logan</b>	42 29	43 24	42 22	45 21
<b><u>Later Wednesday - Friday</u></b> Light mountain snow, valley rain Southern and central Utah A few rain/snow showers north	<b>Salt Lake City</b>	48 37	47 31	46 32	49 31
	<b>Richfield</b>	54 32	47 26	42 24	42 24
	<b>St George</b>	64 43	55 37	52 36	54 34

# Weather Forecast Office Utah Day 1-4 Outlook



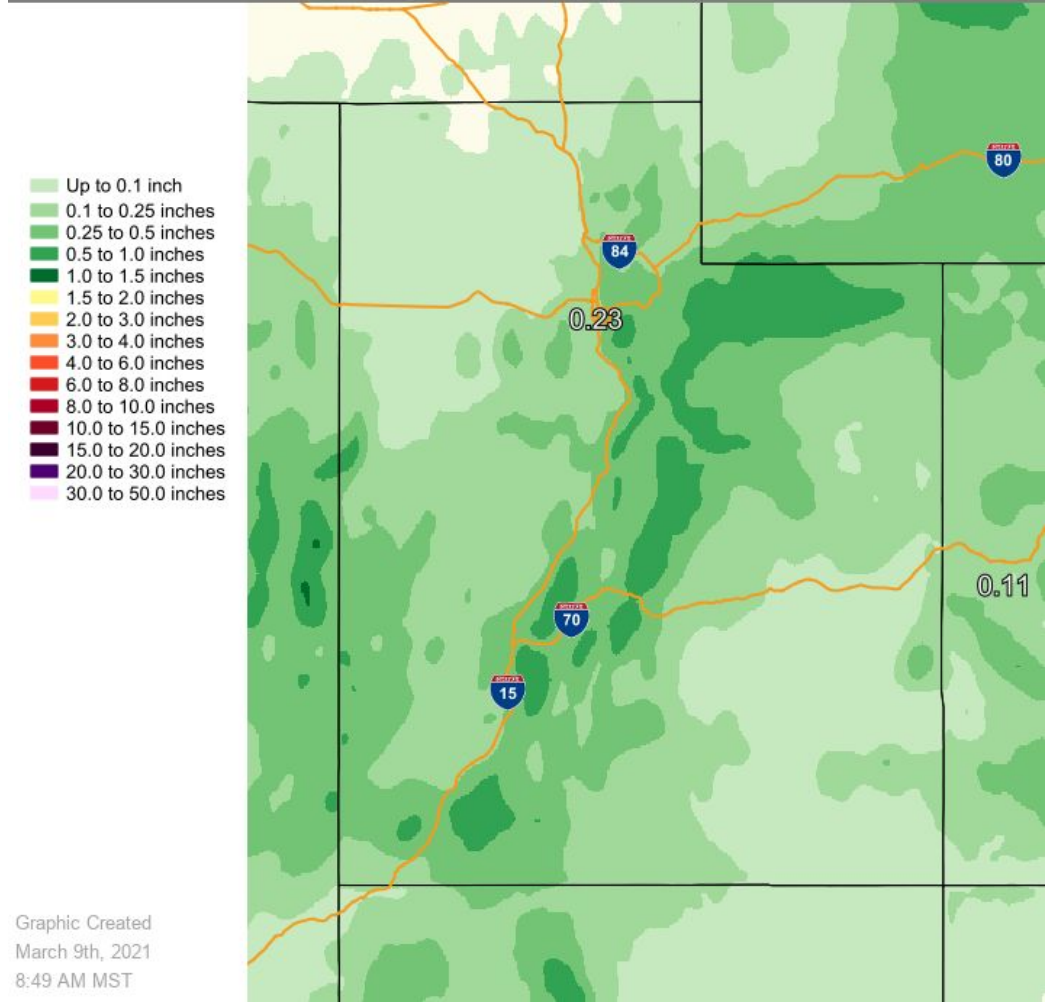
## Forecast Snowfall

Valid Ending Friday March 12th, 2021 at 5 AM MST



## Forecast Precipitation

Valid Ending Friday March 12th, 2021 at 5 AM MST



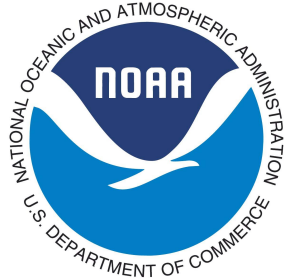
**Through  
Friday Evening**

**Snow:**  
8-12 inches High  
elevations

**Precipitation:**  
Half to one inch  
High elevations

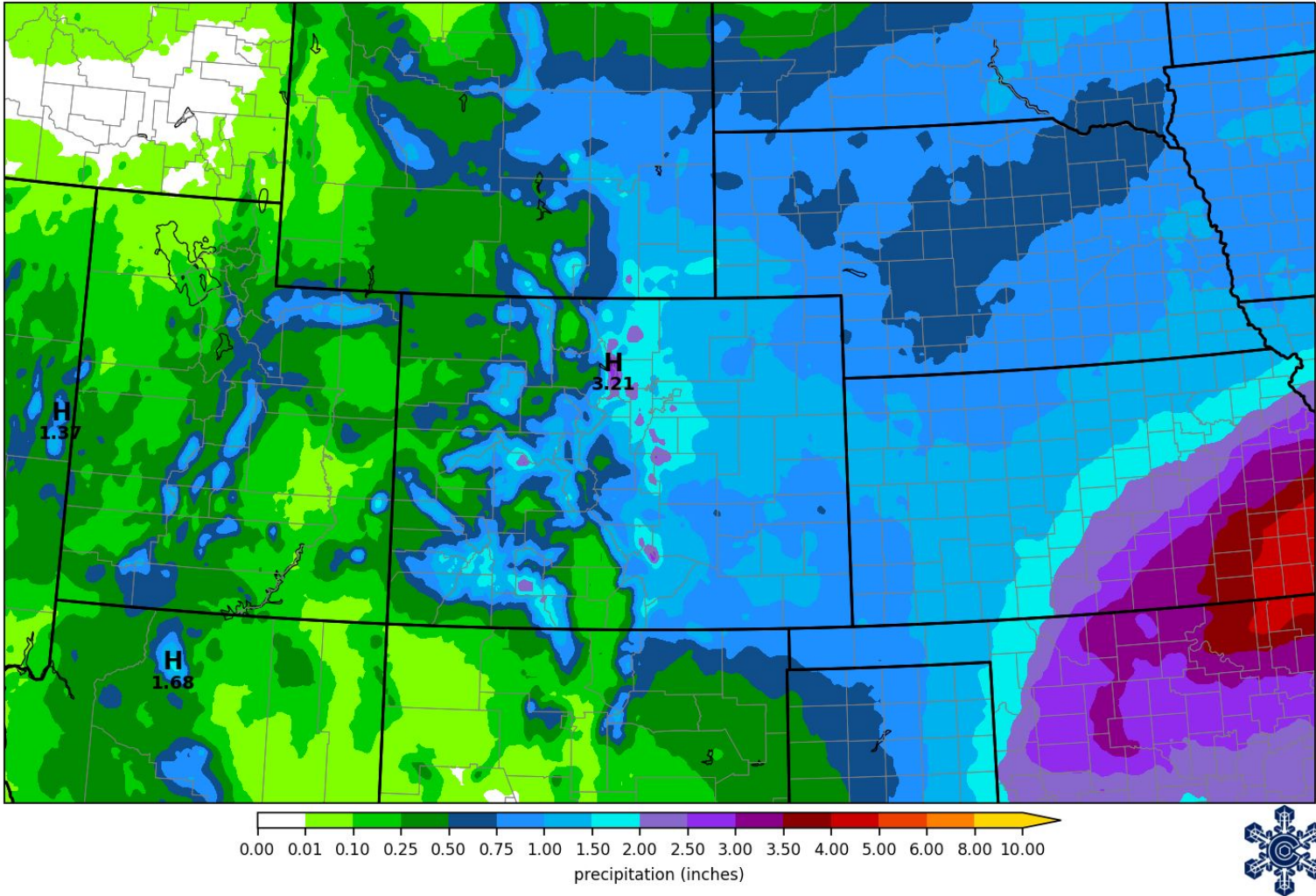


# Weather Forecast Office Utah Day 1-7 Outlook



NOAA Weather Prediction Center  
7-day precipitation forecast

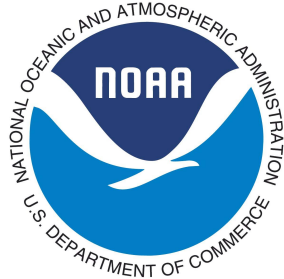
forecast issued 1200 UTC Tue 09 Mar 2021  
precipitation in 168 hrs ending 1200 UTC Tue 16 Mar 2021



7 Day Precipitation:

Amounts: .75 to around an inch at higher elevations  
Timing: best chances now through Saturday.

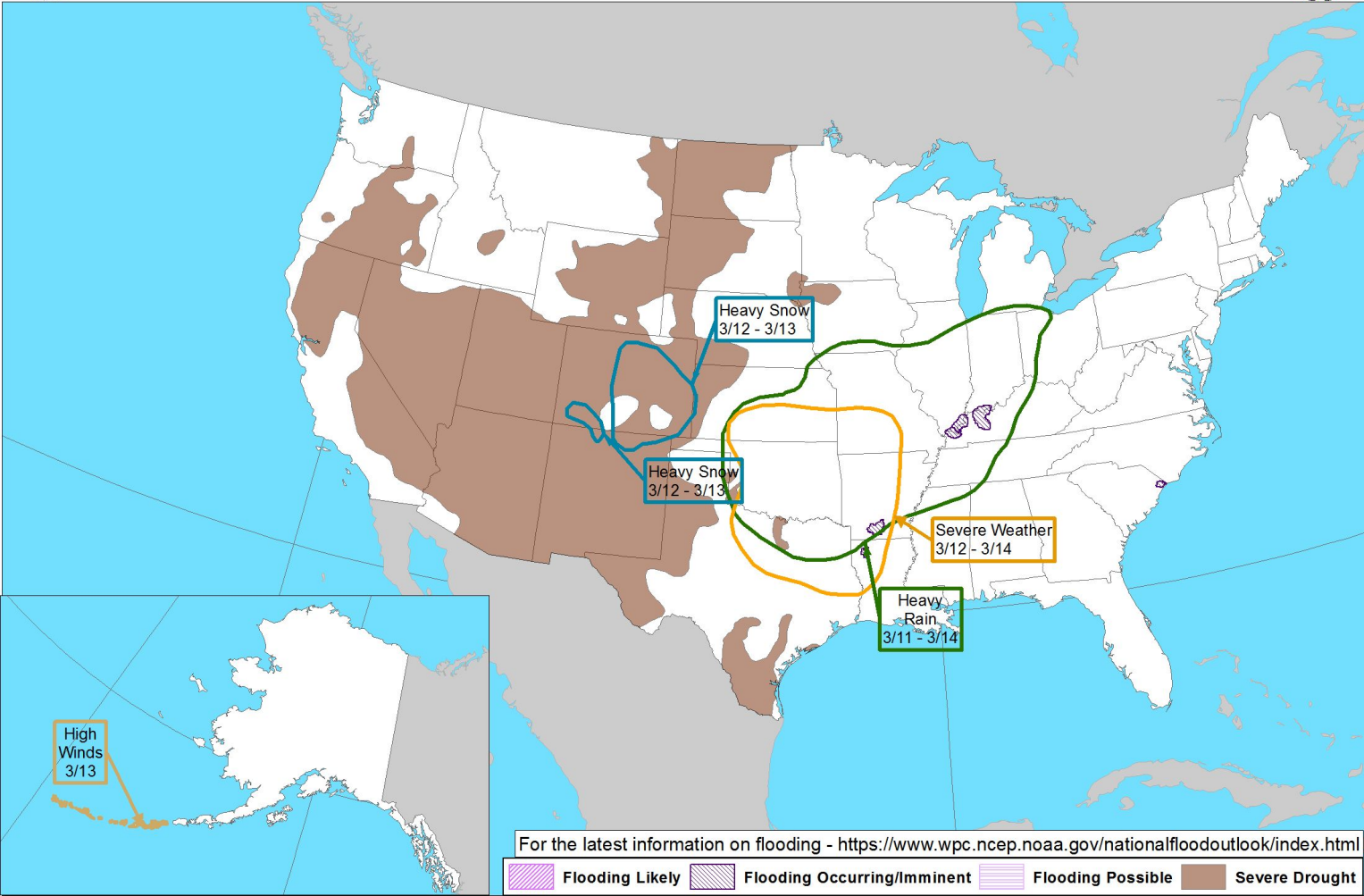
# Weather Prediction Center U.S. Day 3-7 Hazards Outlook





**Day 3-7 U.S. Hazards Outlook**  
**Valid: 03/11/2021-03/15/2021**



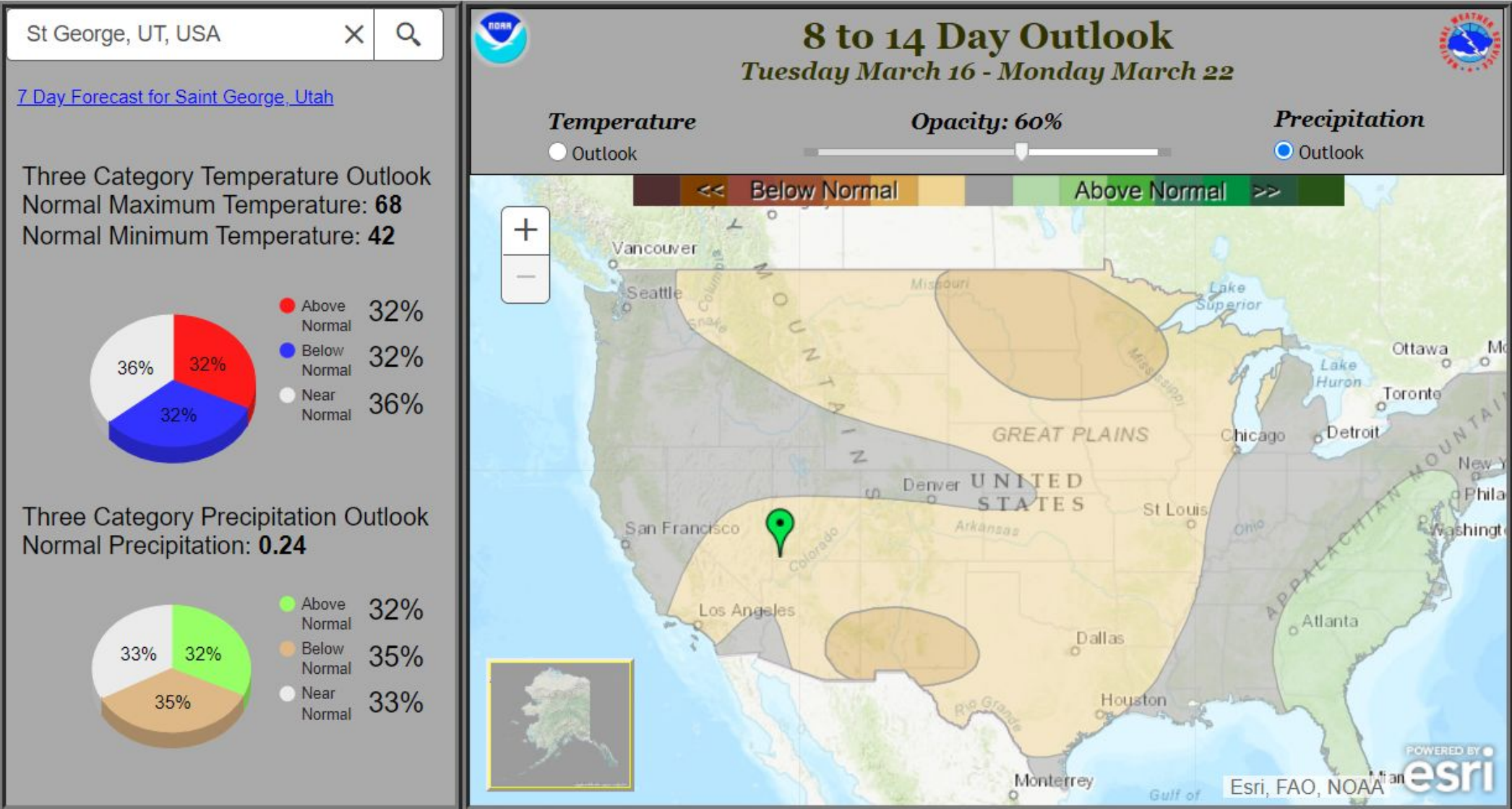
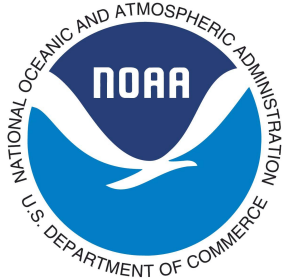


Severe Drought continues





# Climate Prediction Center 8 to 14 Day Outlooks - Precipitation

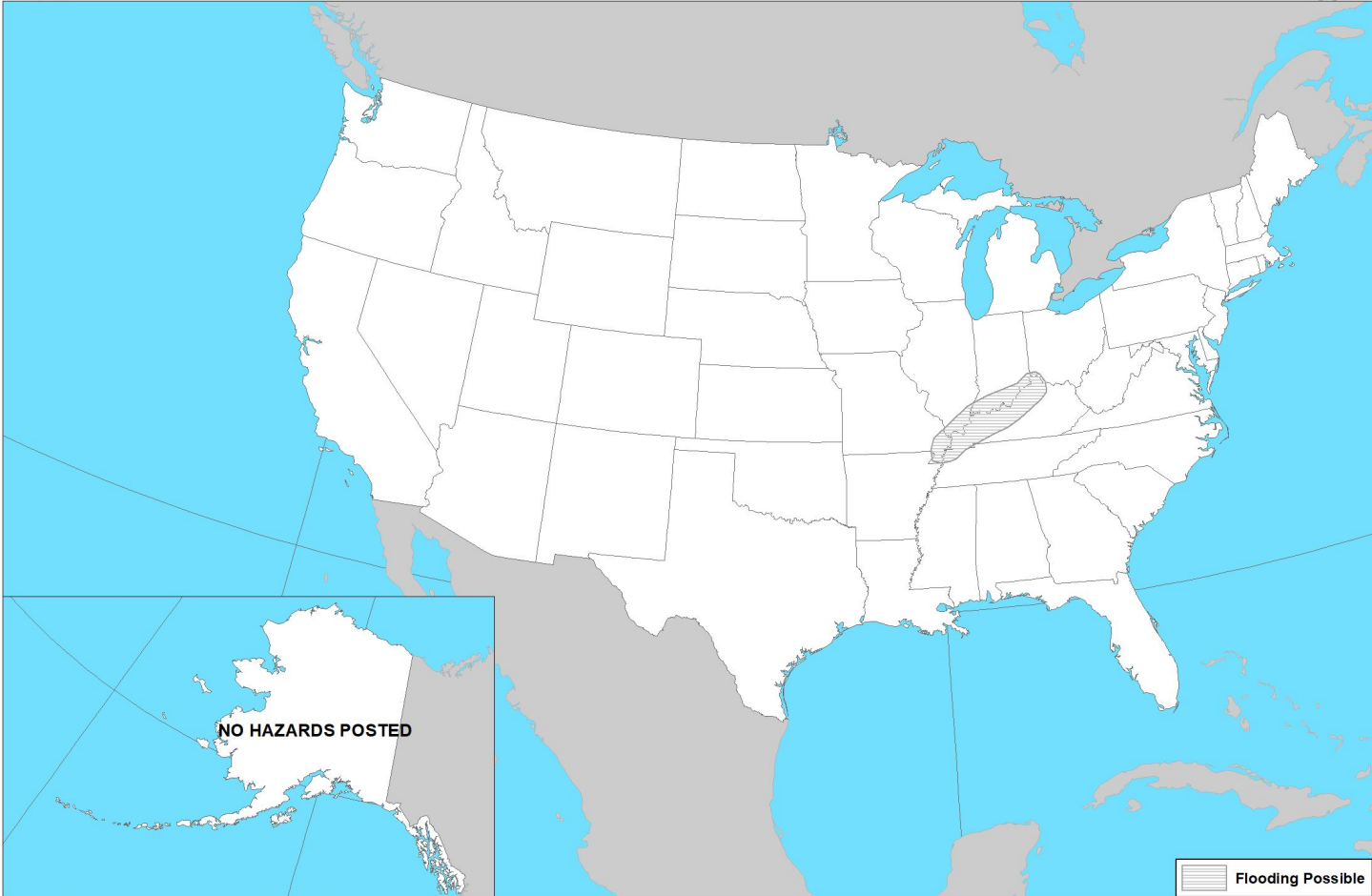




# Climate Prediction Center U.S. Week-2 Hazards Outlook



Day 8-14 U.S. Hazards Outlook  
Valid: 03/16/2021-03/22/2021

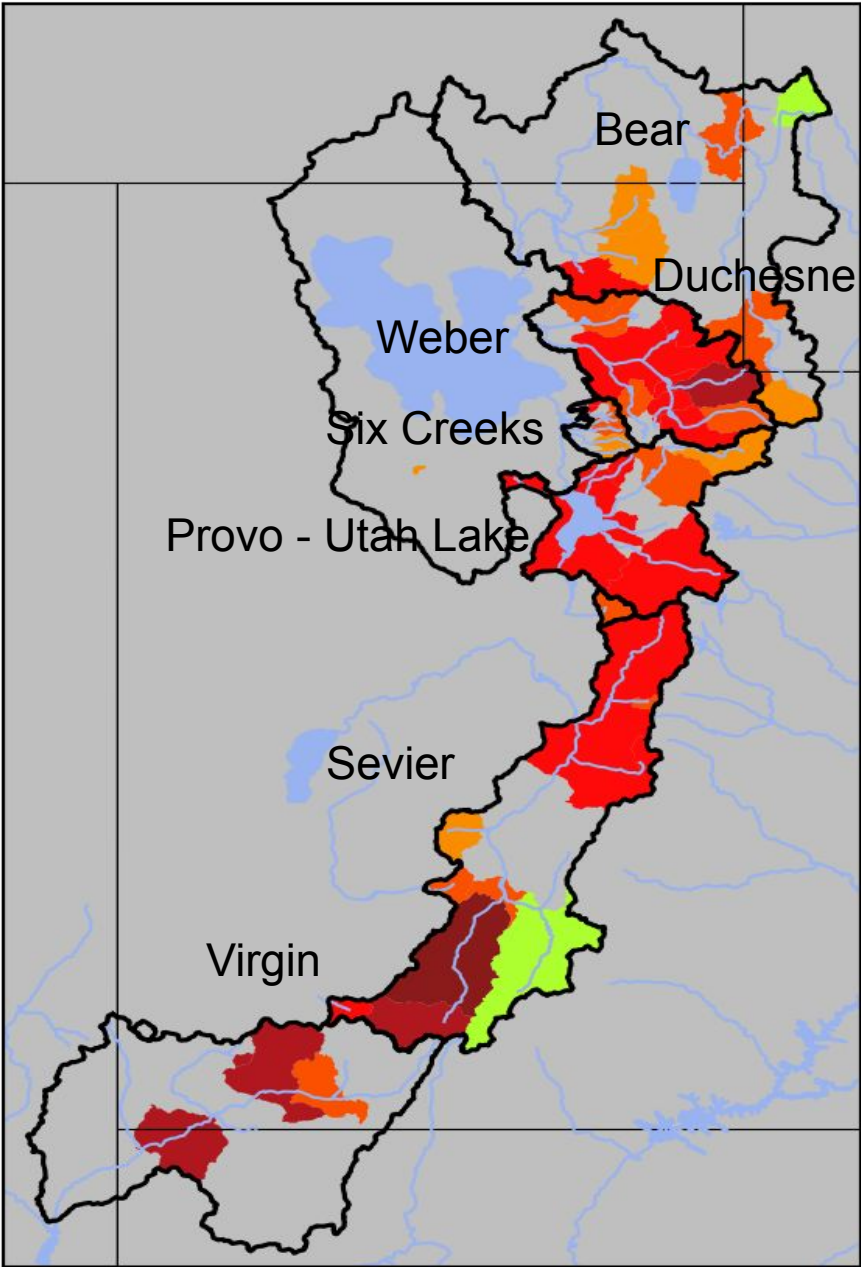
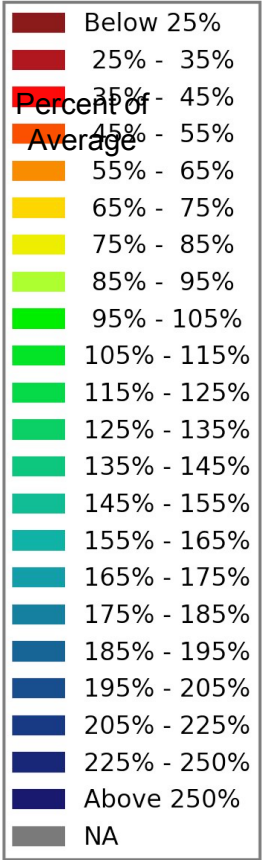
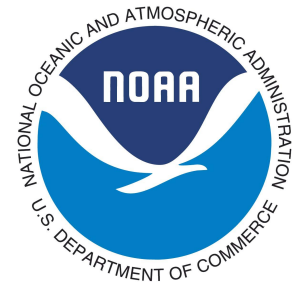


Climate Prediction Center  
Made: 03/08/2021 3PM EST

Follow us:    
[www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)



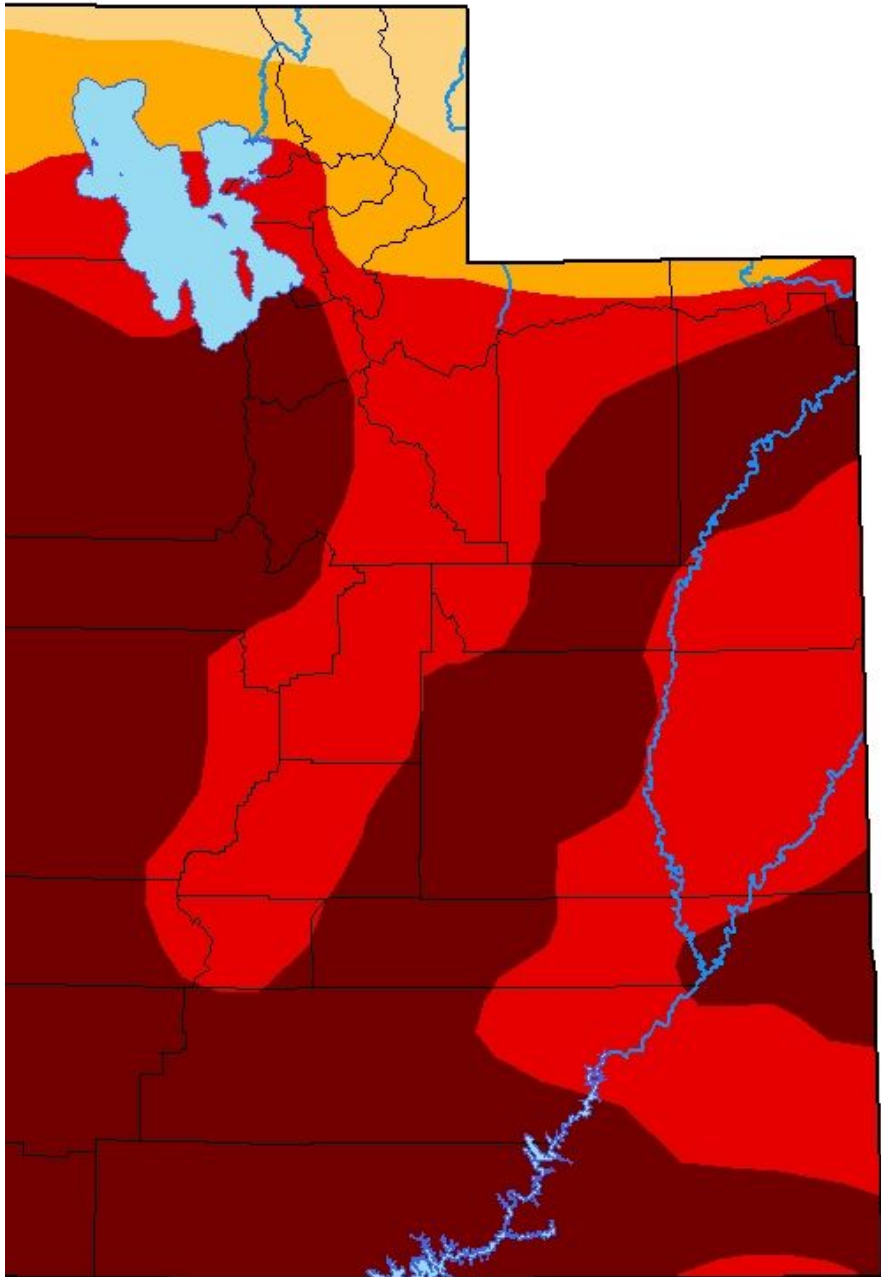
# NWS, CBRFC March 1, 2021 - Utah Water Supply Forecasts



- April-July Forecast Streamflow Volumes are in percent of 1981-2010 average

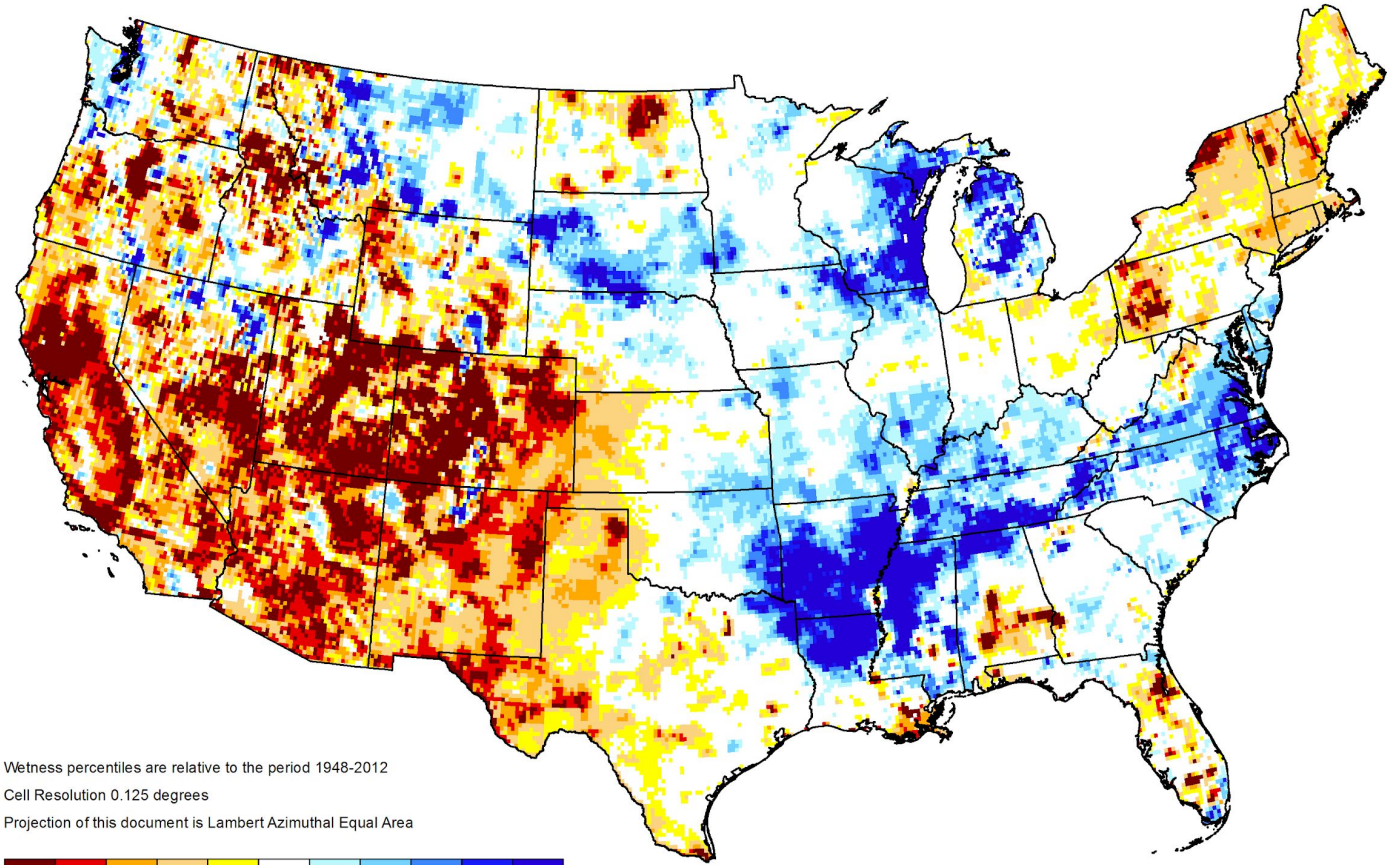
Median value of individual forecasts within Forecast Groups

Bear	60
Weber	45
Six Creeks	50
Provo / Utah Lake	45
Sevier	45
Duchesne	50
Virgin	35



## GRACE-Based Shallow Groundwater Drought Indicator

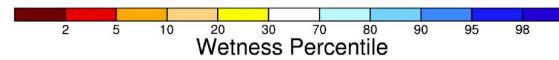
March 08, 2021



Wetness percentiles are relative to the period 1948-2012

Cell Resolution 0.125 degrees

Projection of this document is Lambert Azimuthal Equal Area



<https://nasagrace.unl.edu>