

## Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly









Thank you to our contributors





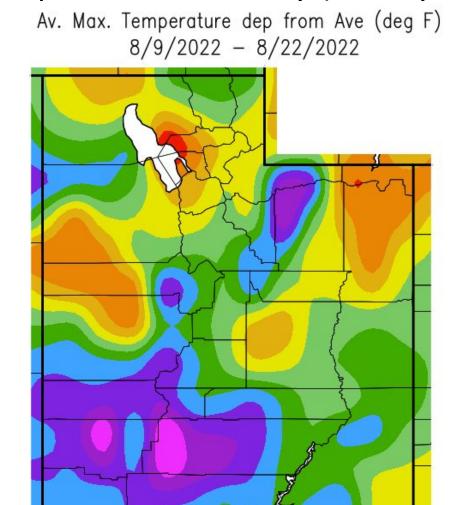




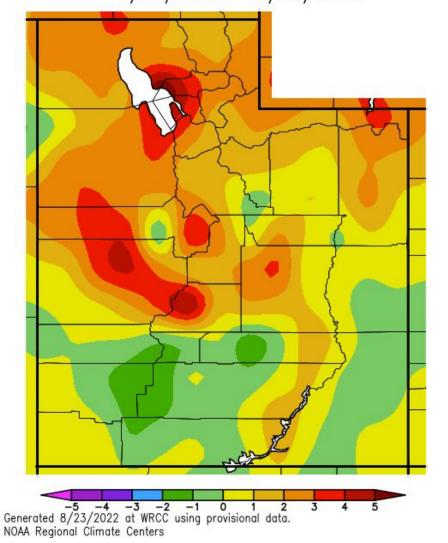
# Utah Water Assessment & Conditions Monitoring Webinar

August 23, 2022

#### Daily Max. Temperature Anomaly (14-day & 60-day)



Av. Max. Temperature dep from Ave (deg F) 6/24/2022 - 8/22/2022

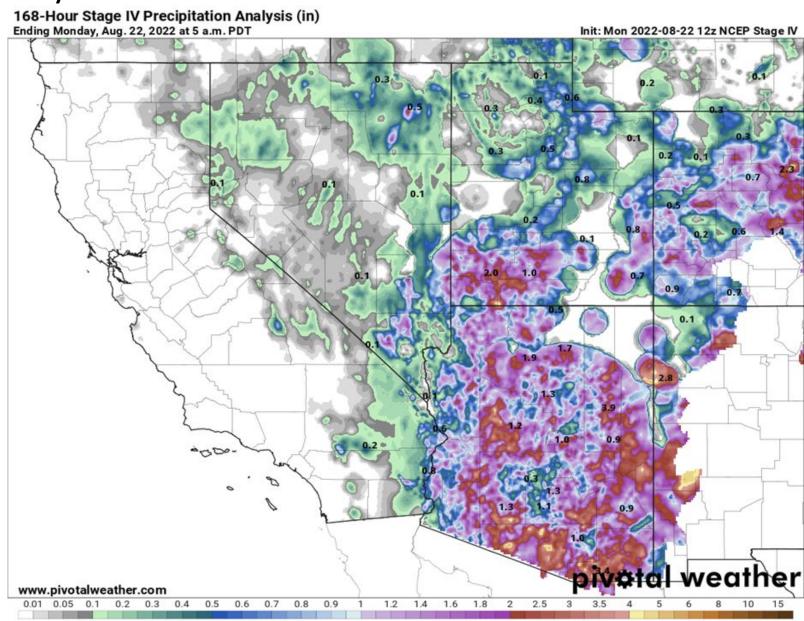


Generated 8/23/2022 at WRCC using provisional data.
NOAA Regional Climate Centers

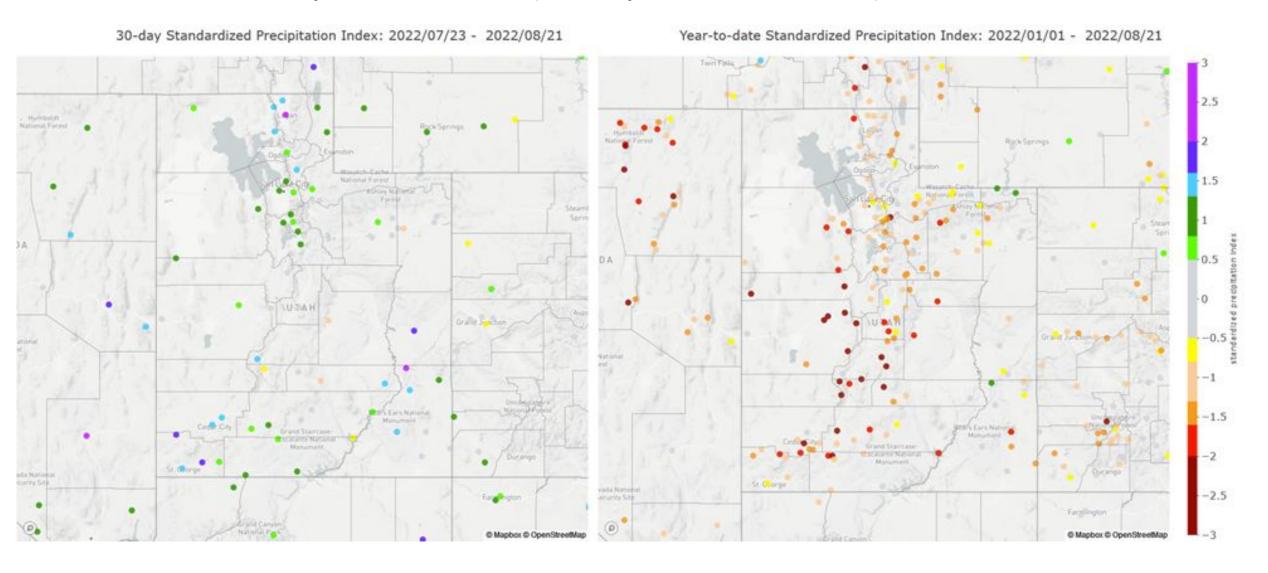
Agency - Utah Climate Center

Presenter - Jon Meyer

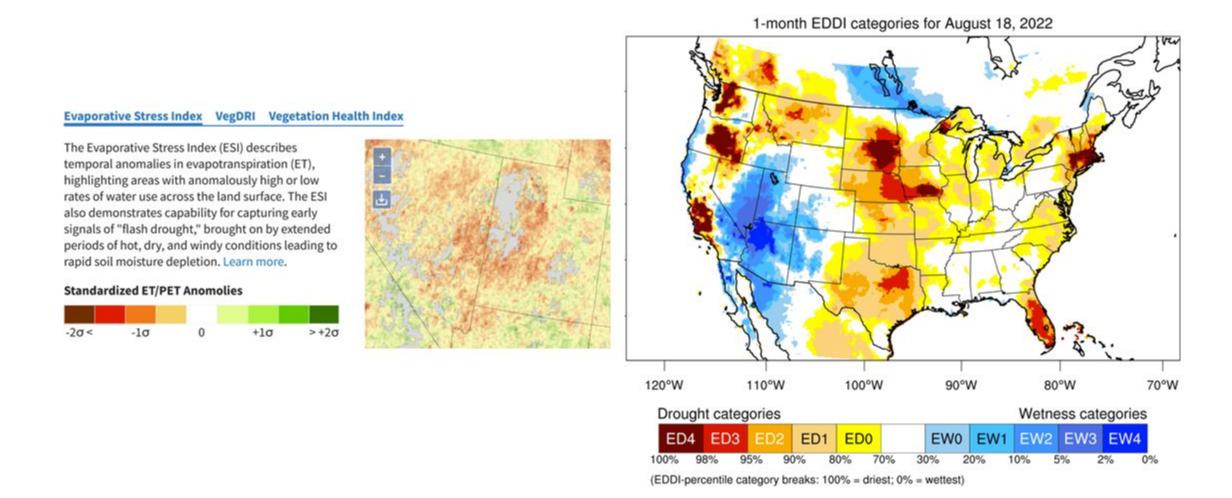
## Precipitation 7 day history



## Standardized Precipitation Index (30 day & Year-to-Date)

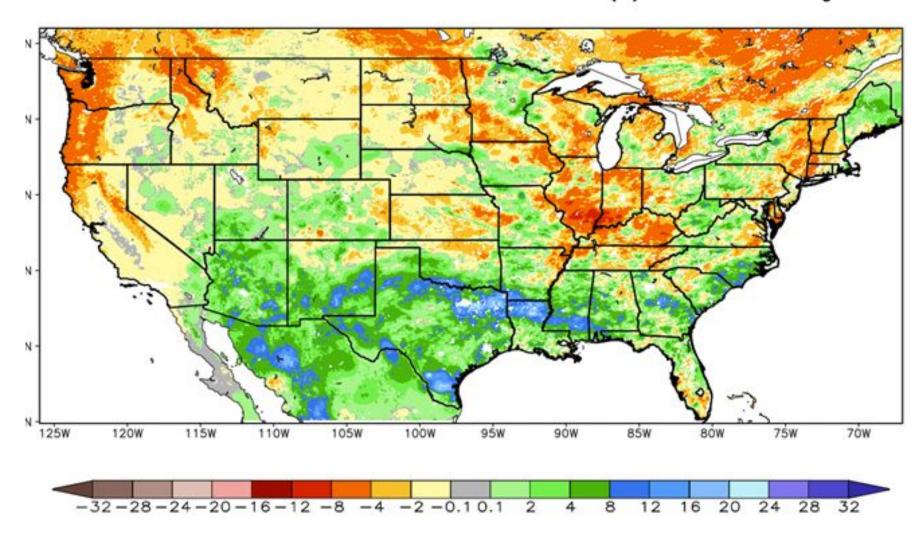


#### Evaporative Stress Index (ESI) and Evaporative Drought Demand Index (EDDI)

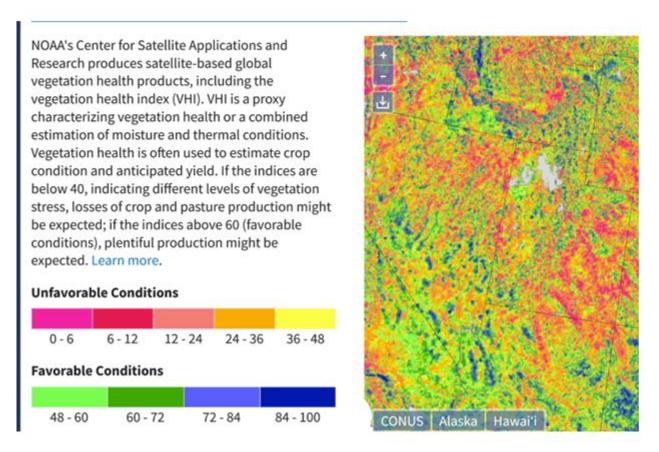


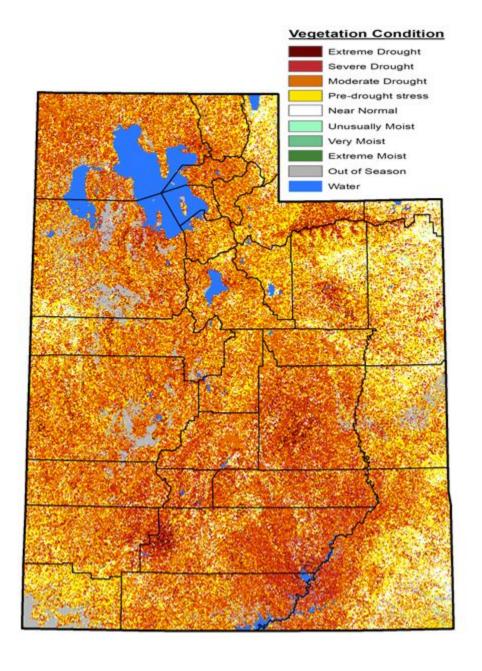
#### Soil Moisture Change (2-week)

2-Week Difference in Column Relative Soil Moisture (%) valid 00z 23 Aug 2022

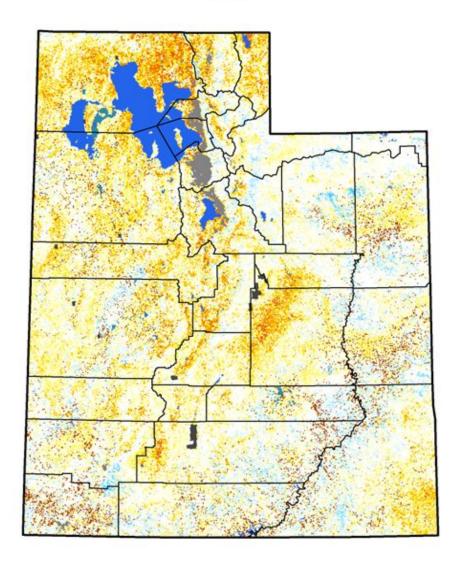


#### Vegetation Health Index (VHI) & VegDRI





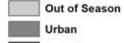
#### Quick Drought Response Index Utah



July 31, 2022 (Week 31)















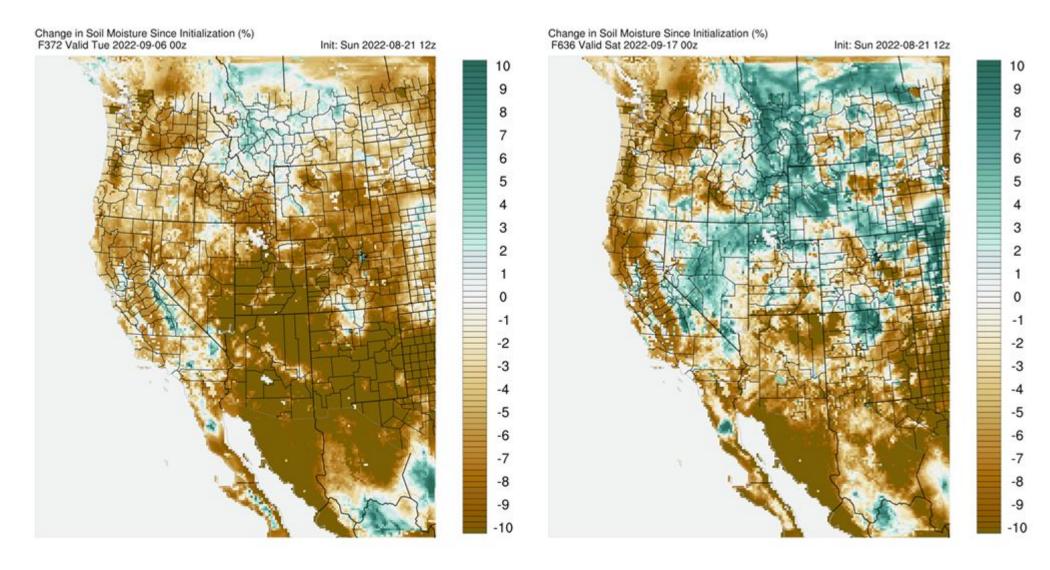




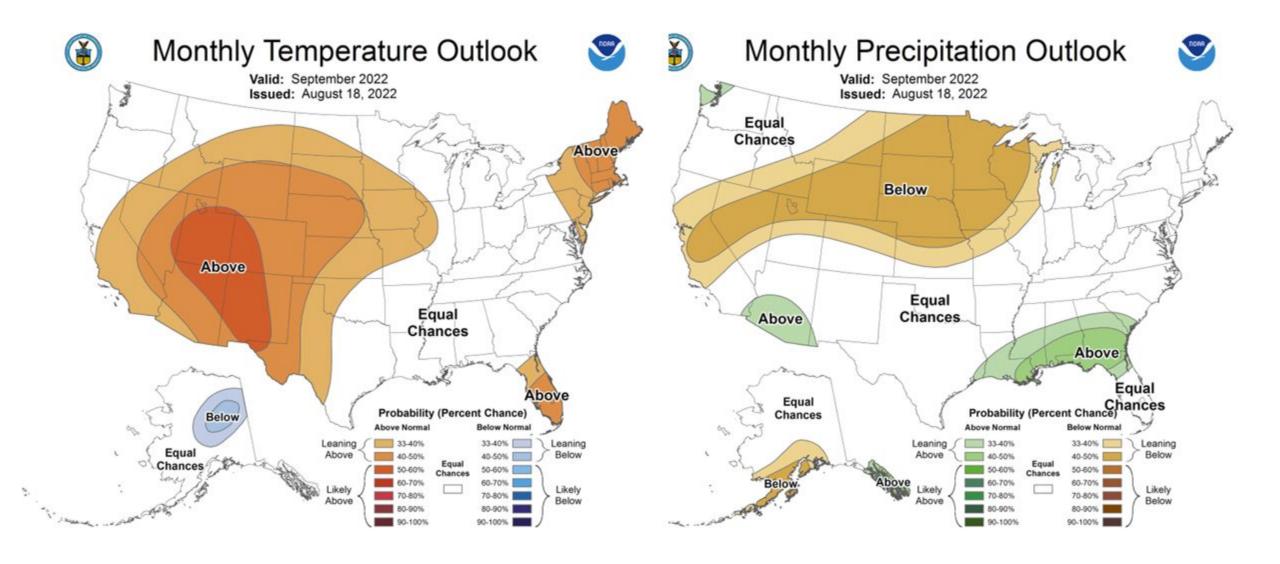




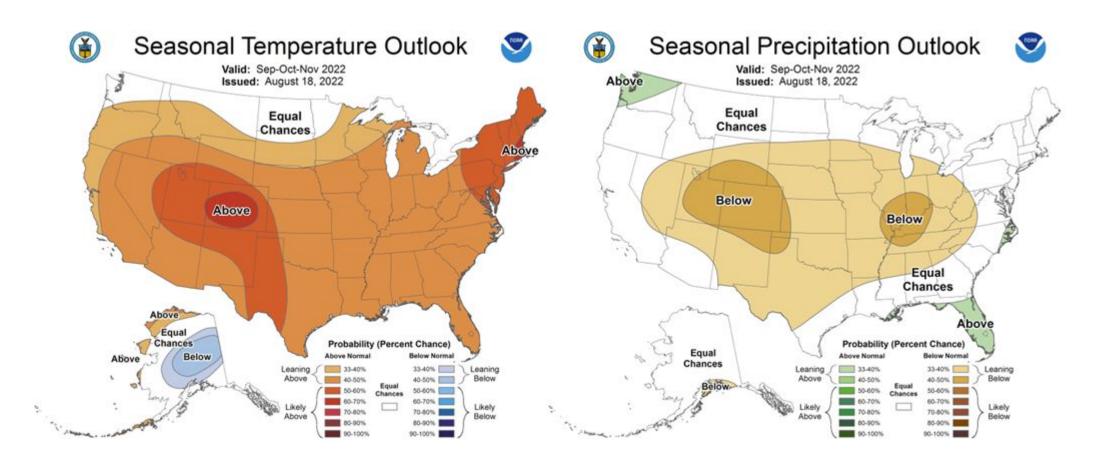
#### **UCC Soil Moisture Forecast**

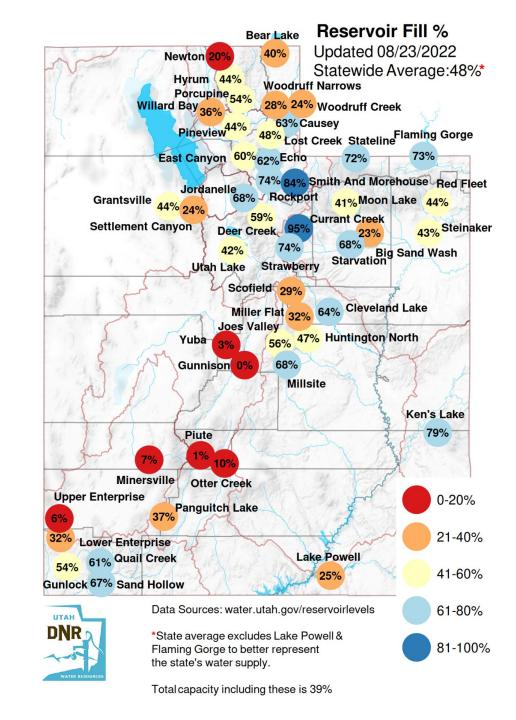


#### **CPC September Outlook**



### **CPC September-November Outlook**

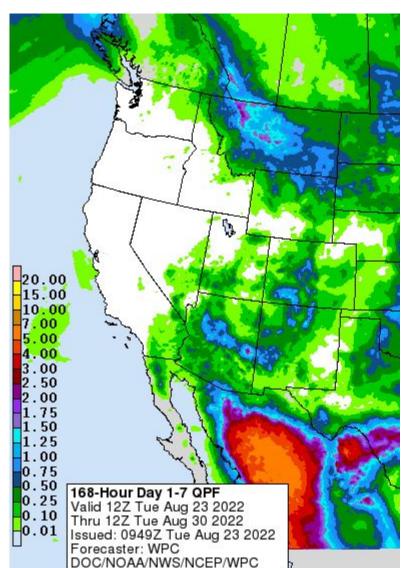


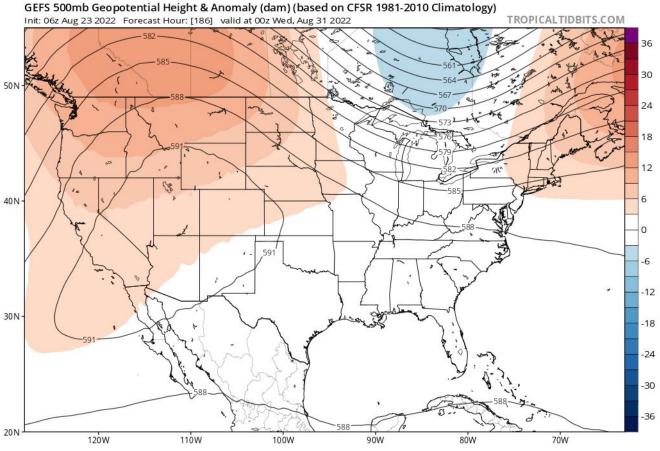


Agency - Division of Water Resources
Presenter - Laura Haskell

#### Weather Forecast Office Utah Day 1-7 Outlook





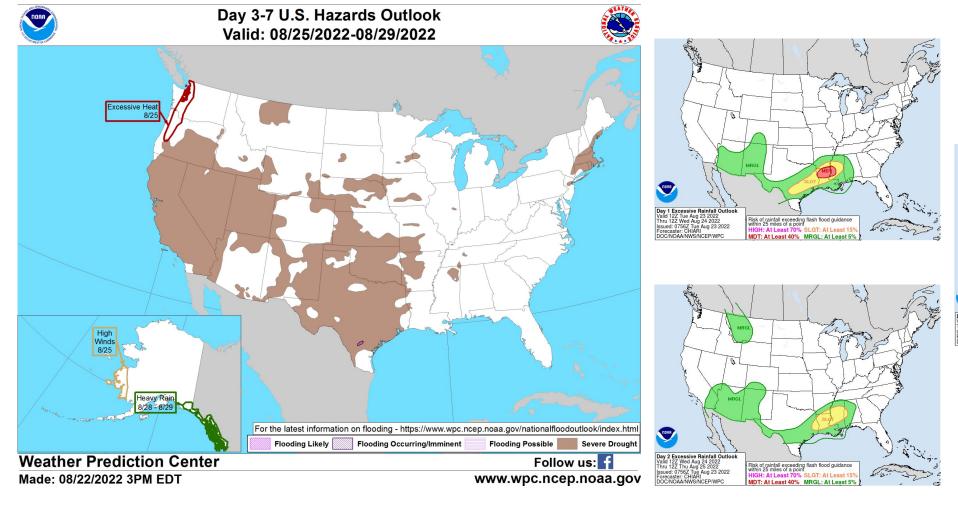


- Monsoonal moisture returns to the state Wednesday. Diurnal showers/storms possible through Saturday, namely southern Utah and the higher terrain.
- Growing confidence in a drying trend heading into early next week.
- Temperatures slightly above normal

Agency - National Weather Service Weather Forecast Office Presenter - Glen Merrill

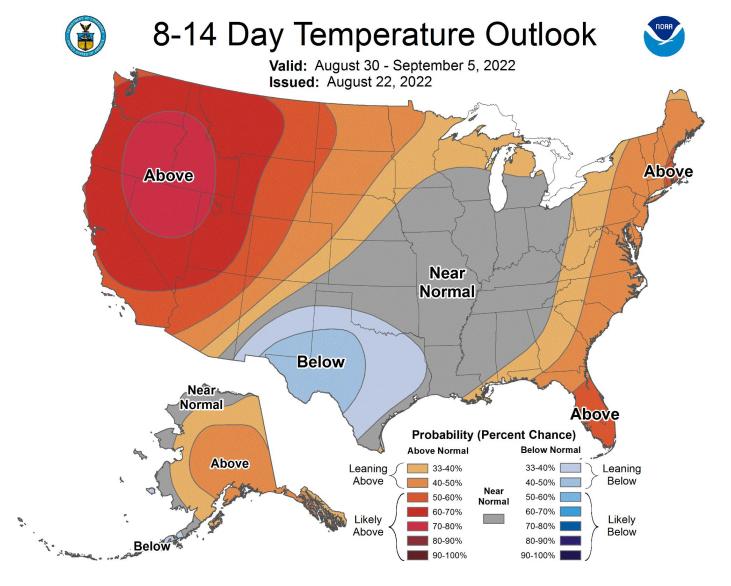
#### Weather Prediction Center U.S. Day 3-7 Hazards Outlook and ERO





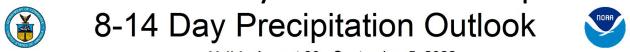


#### Climate Prediction Center 8 to 14 Day Outlooks - Temperature

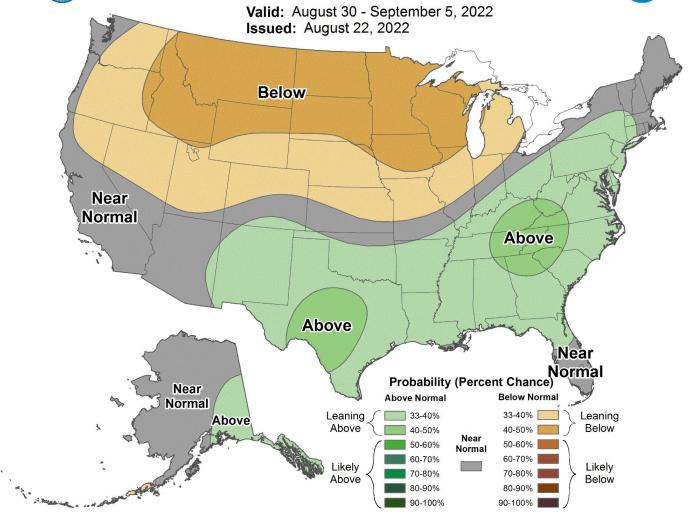


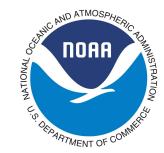


### Climate Prediction Center 8 to 14 Day Outlooks - Precipitation

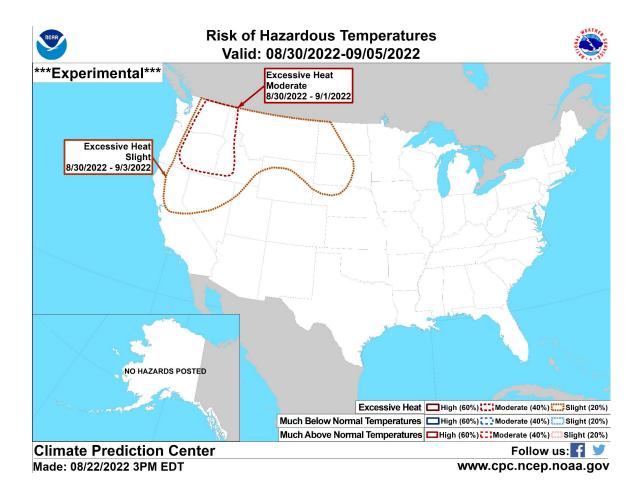




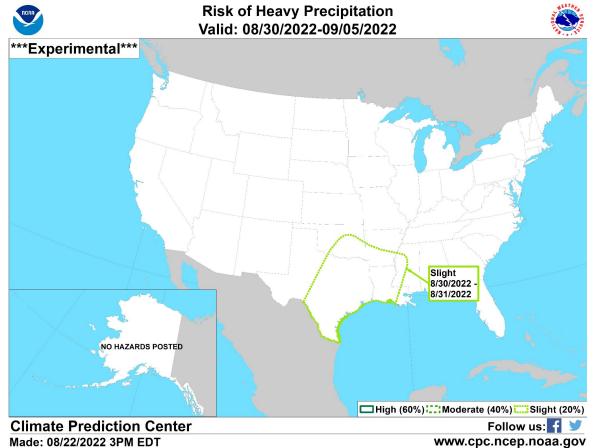


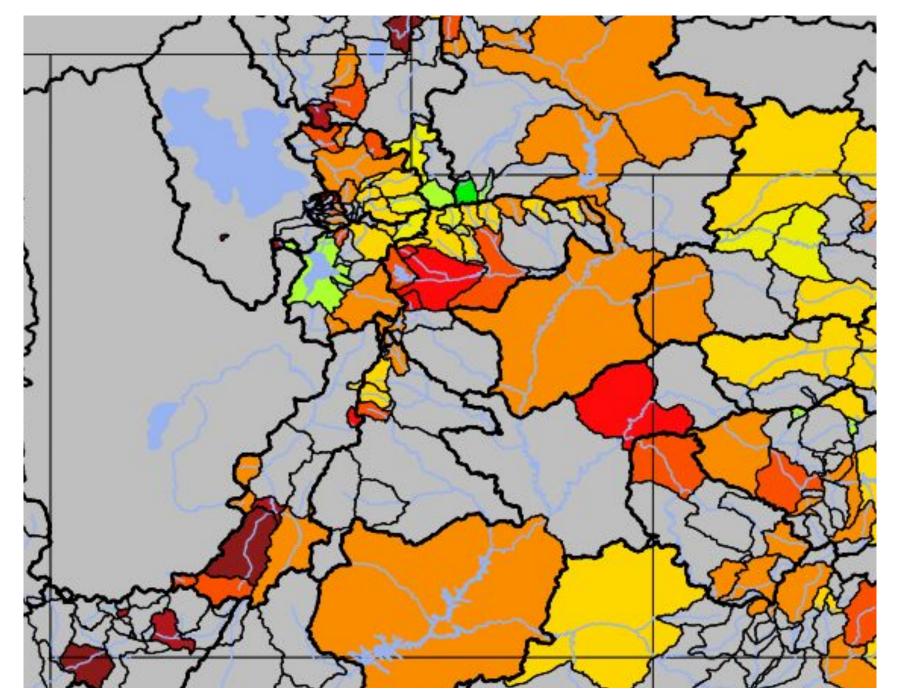


#### Climate Prediction Center U.S. Week-2 Hazards Outlook





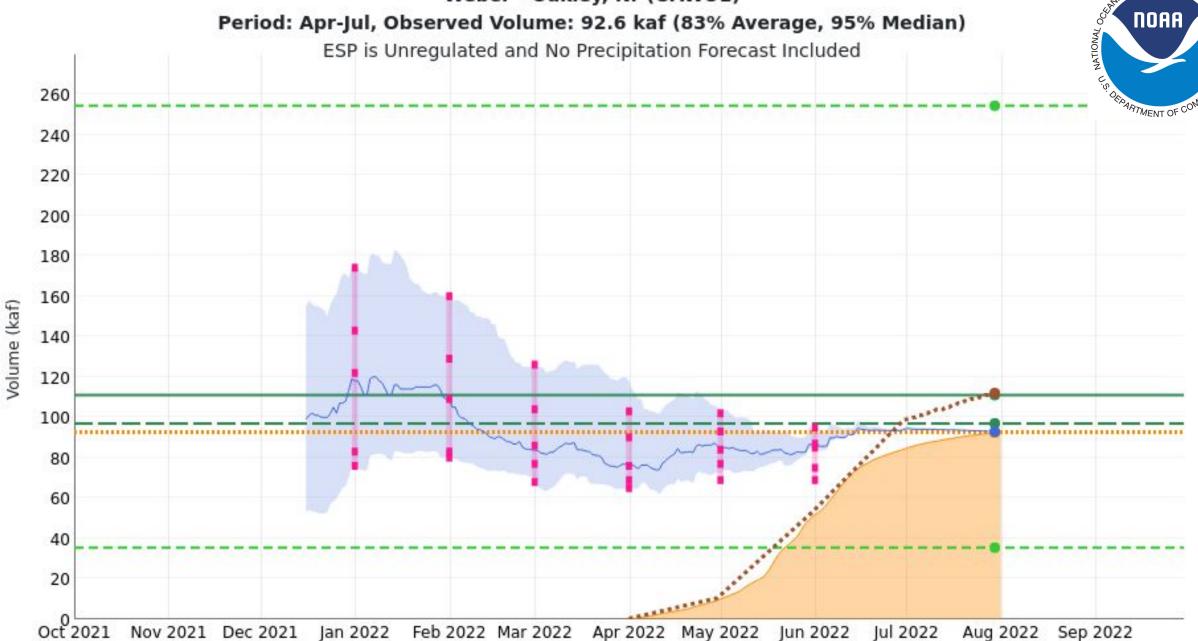






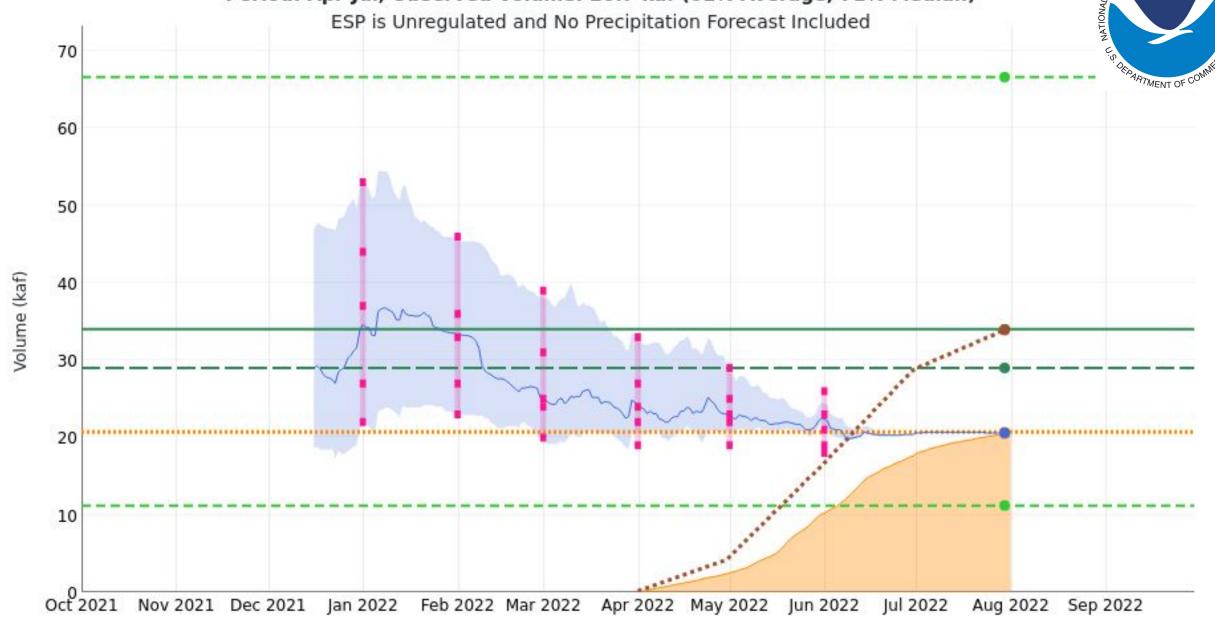
Seasonal observed data over Utah ranged from approximately 80% of average in the northern portions of the Bear and Weber Basins to 40% of average in the Virgin River Basin. Unregulated inflow into Lake Powell is 59% of average (3.75 MAF).

Weber - Oakley, Nr (OAWU1)

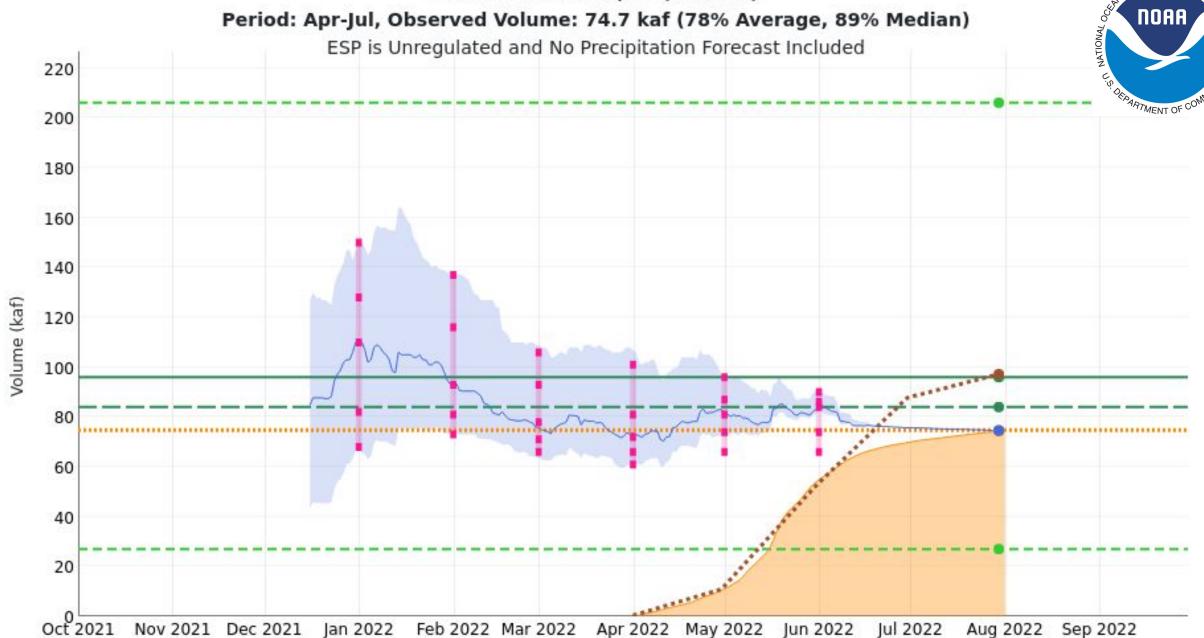




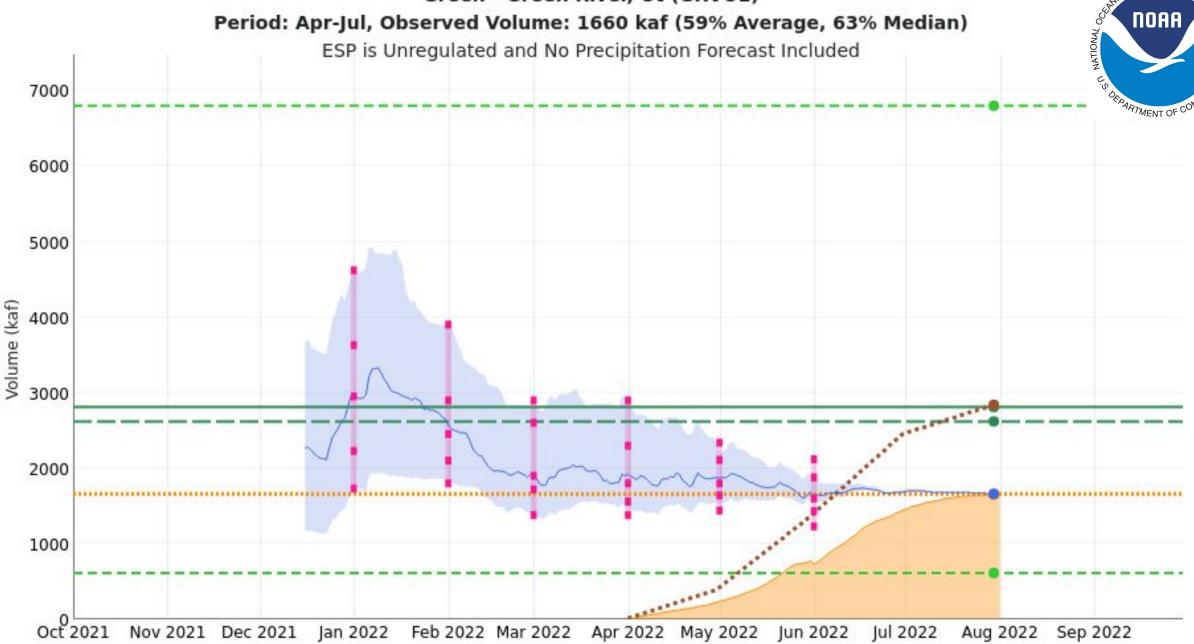
NOAA



Provo - Woodland, Nr (WOOU1)

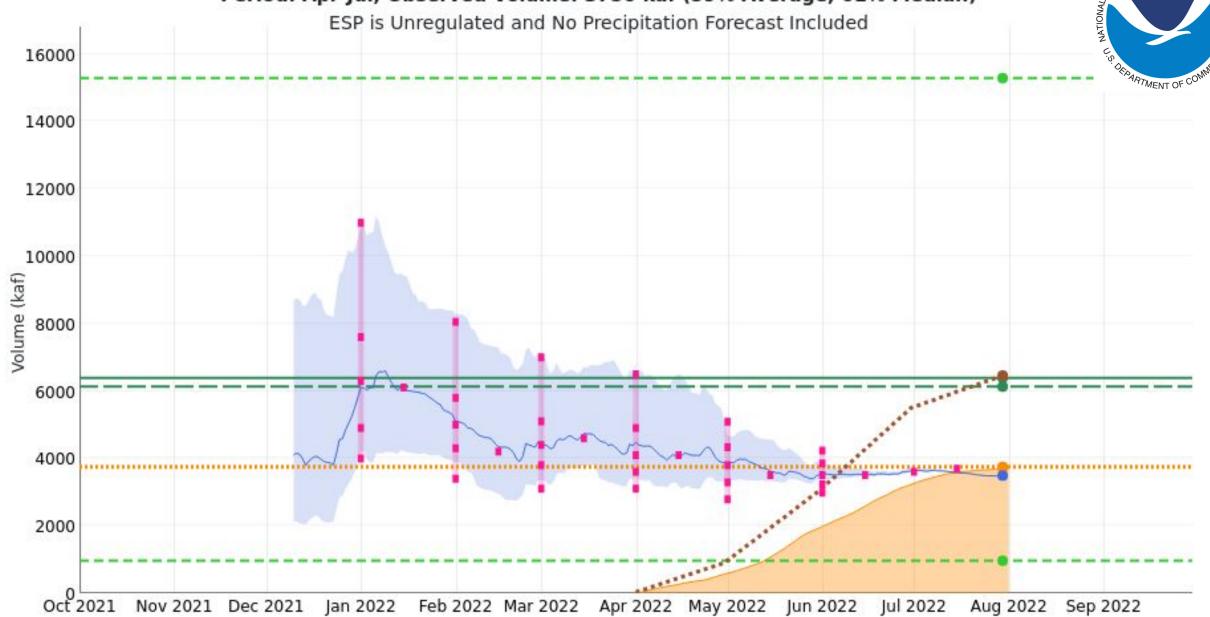


Green - Green River, Ut (GRVU1)

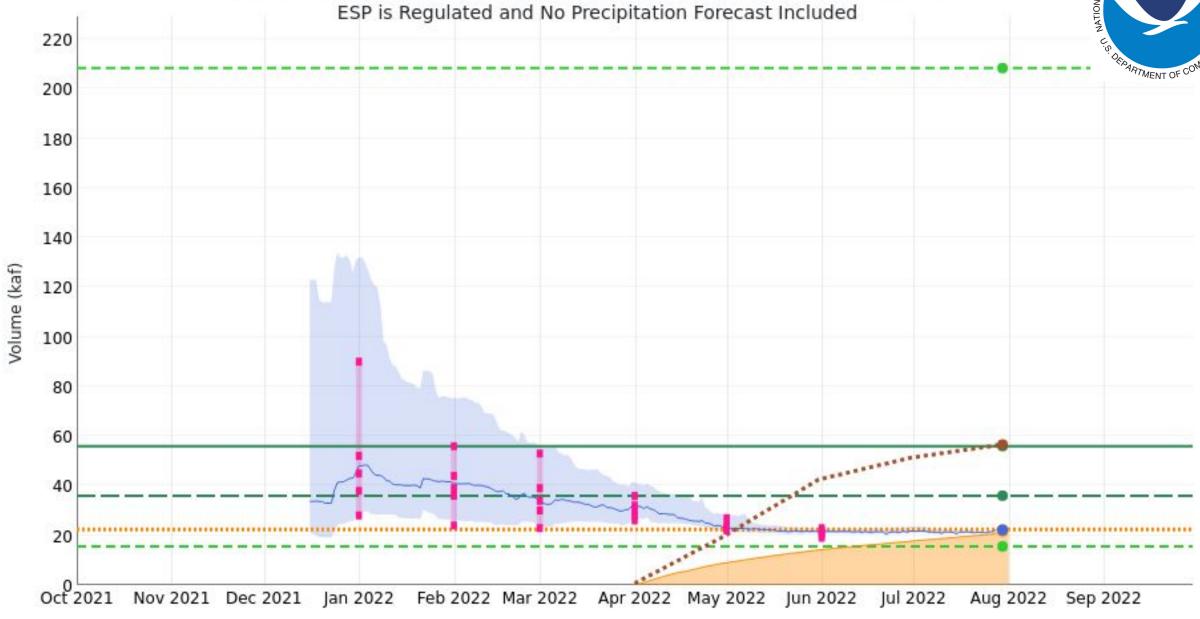




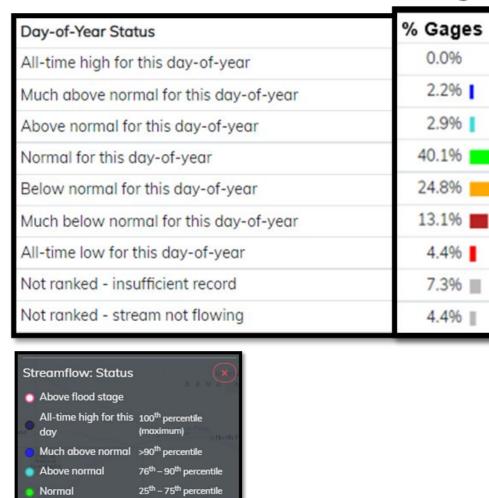
NOAA







## **August 22 Streamflow Conditions**



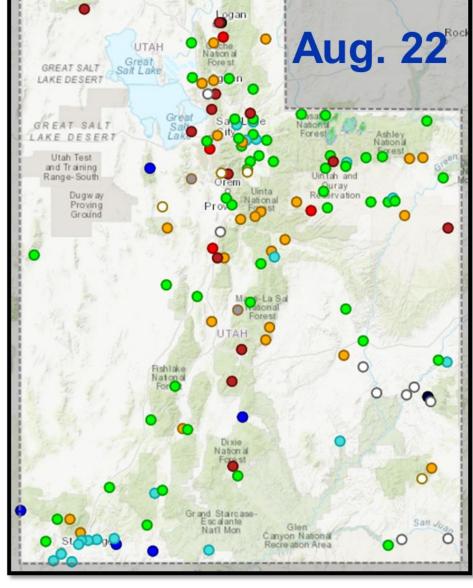
10<sup>th</sup> - 24<sup>th</sup> percentile

Much below normal  $<10^{th}$  percentile All-time low for this  $0^{th}$  percentile

Recent measurement unavailable

Not flowingNot ranked

Measurement flag



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

Agency - USGS Utah WSC Presenter - Laura Haskell on behalf of Ryan Rowland

Aug. 9

**Aug. 22** 

% Gages

0.7% [

3.6%

15.3%

19.0%

9.5%

2.9%

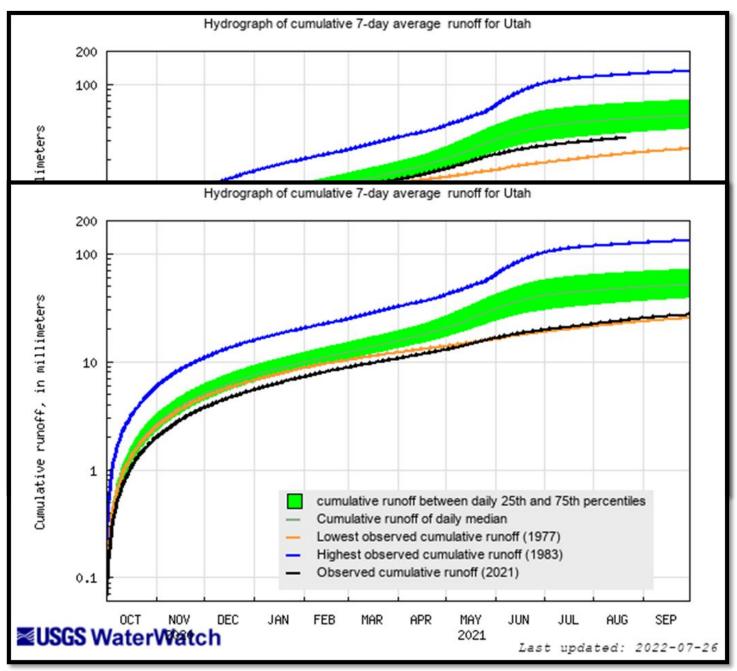
7.3%

2.2%

37.2%



#### Area Based Cumulative Runoff for Utah

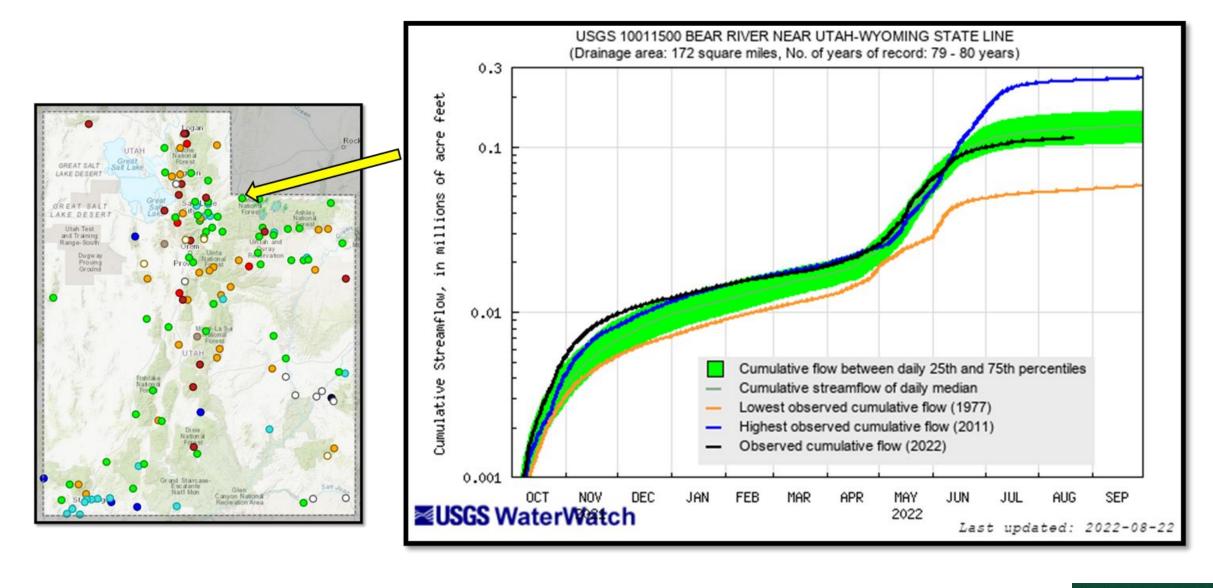


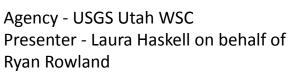
- □ Area based runoff computed from mixed regulated and unregulated streamflows
- WY2022 higher than WY2021, still below normal

Agency - USGS Utah WSC Presenter - Laura Haskell on behalf of Ryan Rowland



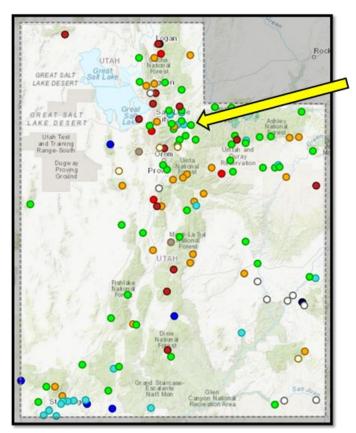
## Cumulative Streamflow at Selected Gages

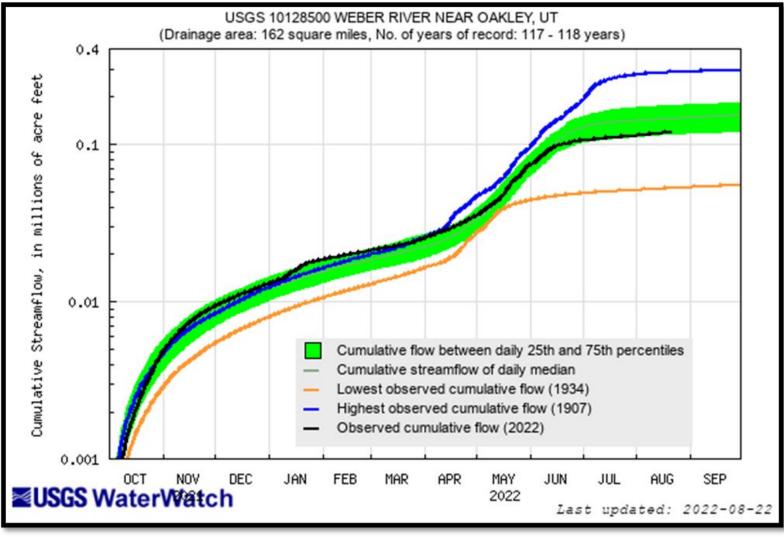


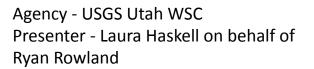




## Cumulative Streamflow at Selected Gages

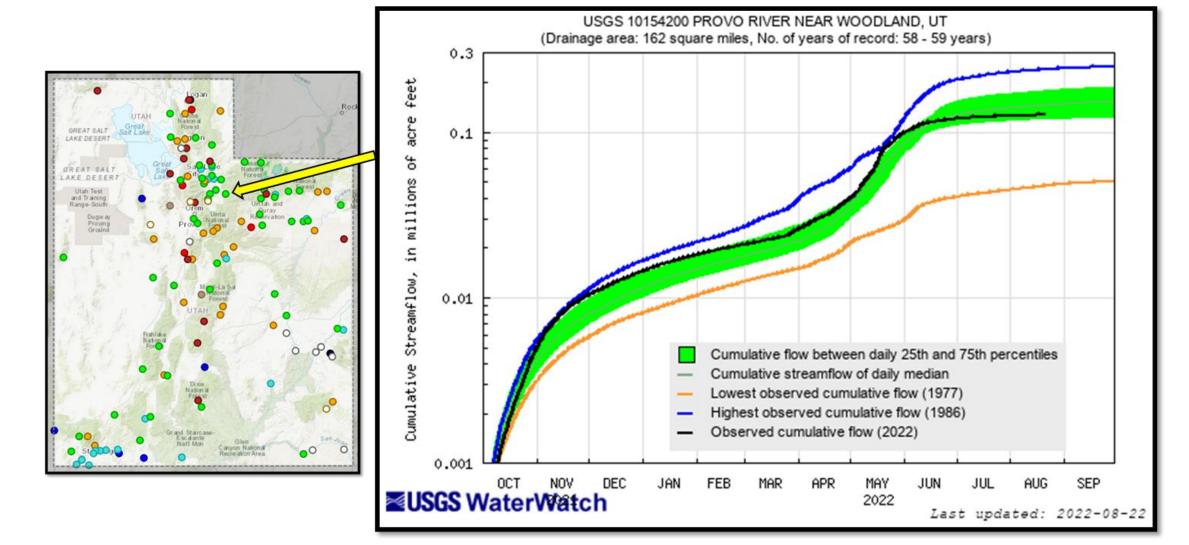


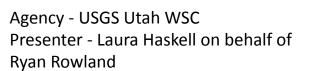






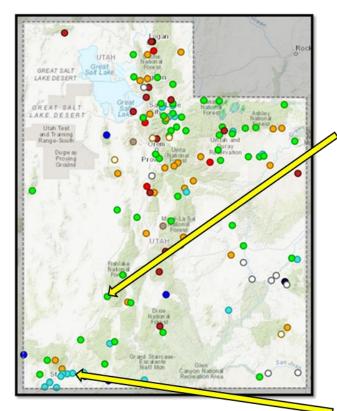
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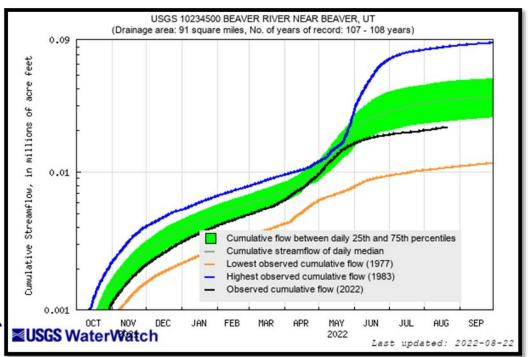


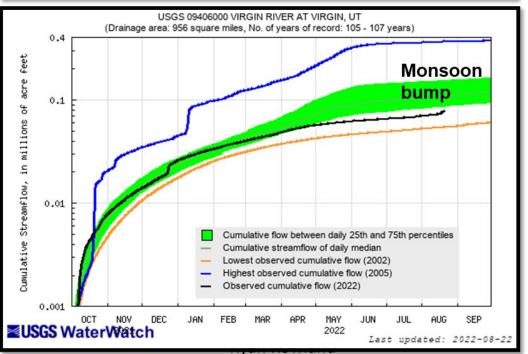




## Cumulative Streamflow at Selected Gages

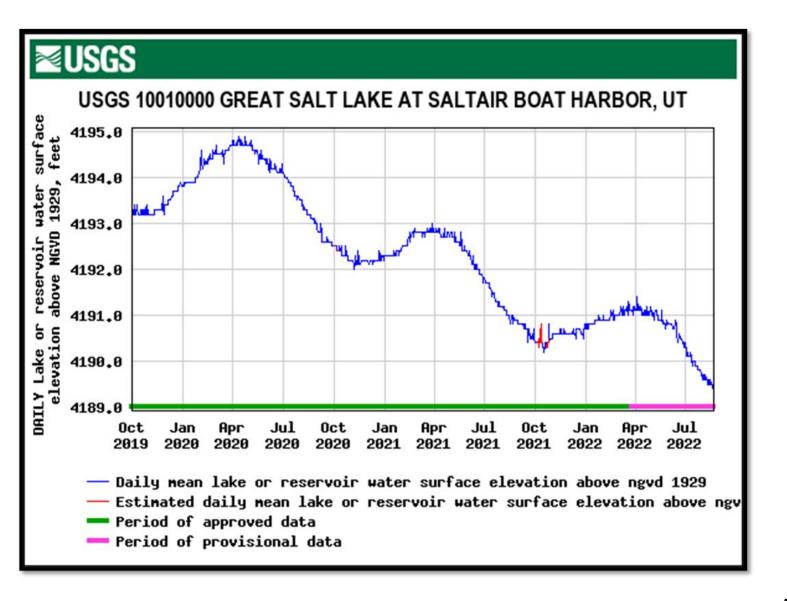








#### **Great Salt Lake Water Surface Elevation**



- Mean daily value 8/21/2022= 4,189.4' (record lows continue)
- Mean daily value 8/8/2022= 4,189.6'
- □ Running out of water at gage location. Will switch soon to gage on the south side of RR causeway

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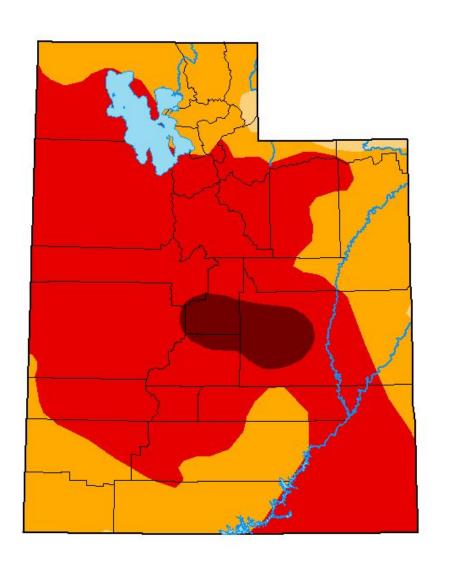


#### U.S. Drought Monitor Utah

#### August 16, 2022

(Released Thursday, Aug. 18, 2022) Valid 8 a.m. EDT







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:

Richard Tinker CPC/NOAA/NWS/NCEP









droughtmonitor.unl.edu

