

Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly









Thank you to our contributors





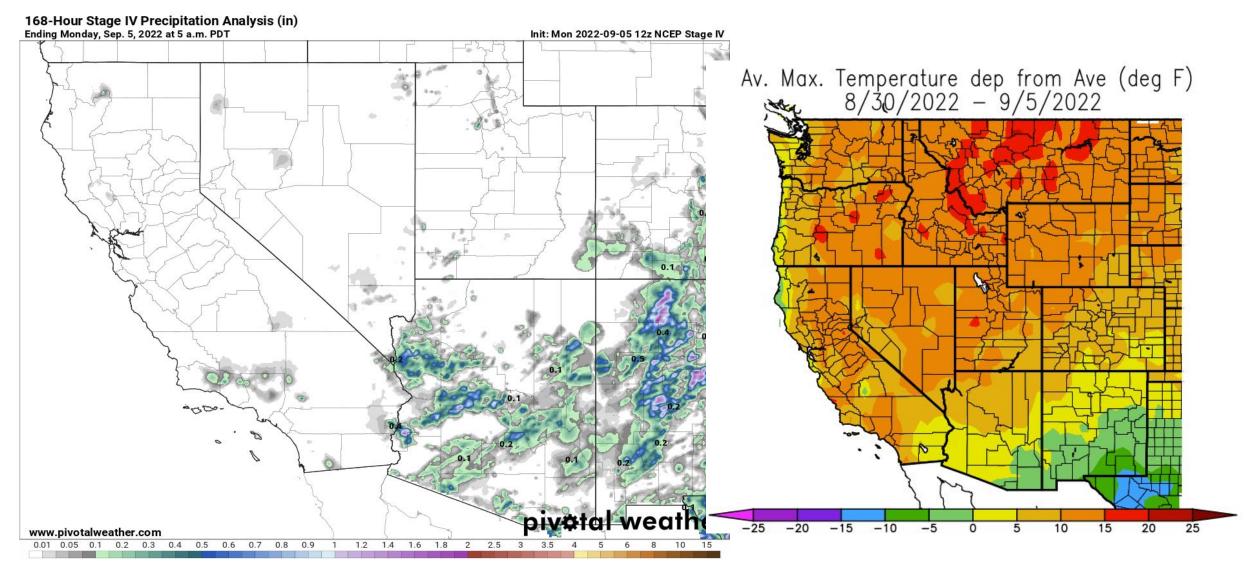




Utah Water Assessment & Conditions Monitoring Webinar

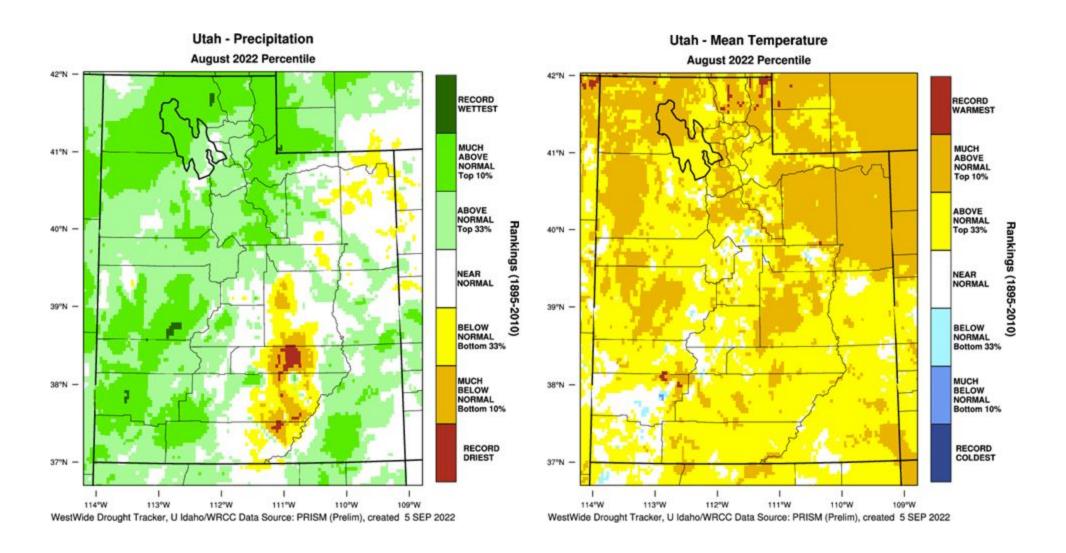
September 6, 2022

7-day Precipitation (Stage IV Data) & 7-day Max. Temp. Anomaly

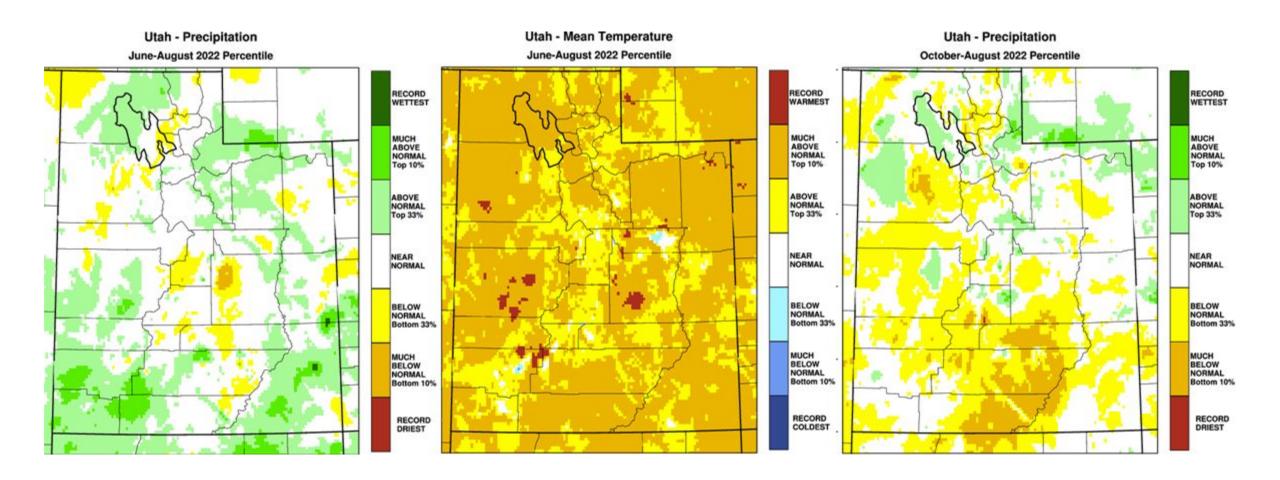


Agency - Utah Climate Center Presenter - Jon Meyer

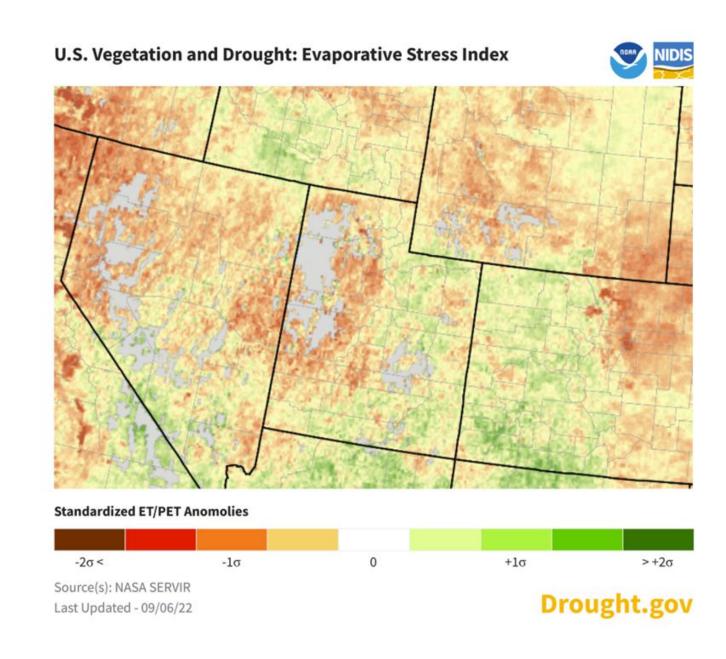
August Precipitation and Temperature



June-August Summer Precipitation and Temperature + Water Year Precipitation

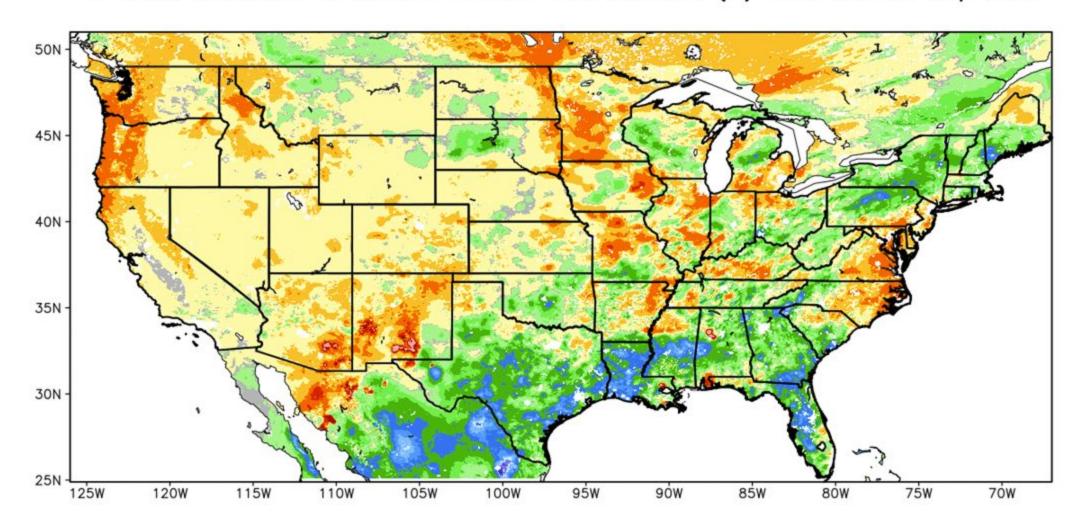


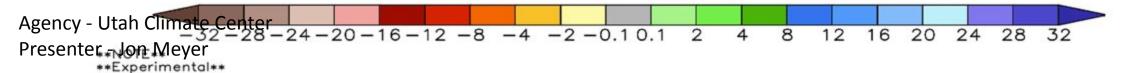
Evaporative Stress Index



Soil Moisture Change

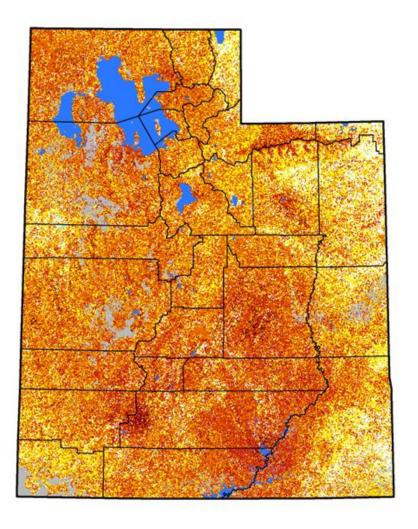
2-Week Difference in Column Relative Soil Moisture (%) valid 00z 06 Sep 2022





Vegetation Drought Response Index

Complete: Utah



July 31, 2022

Vegetation Condition





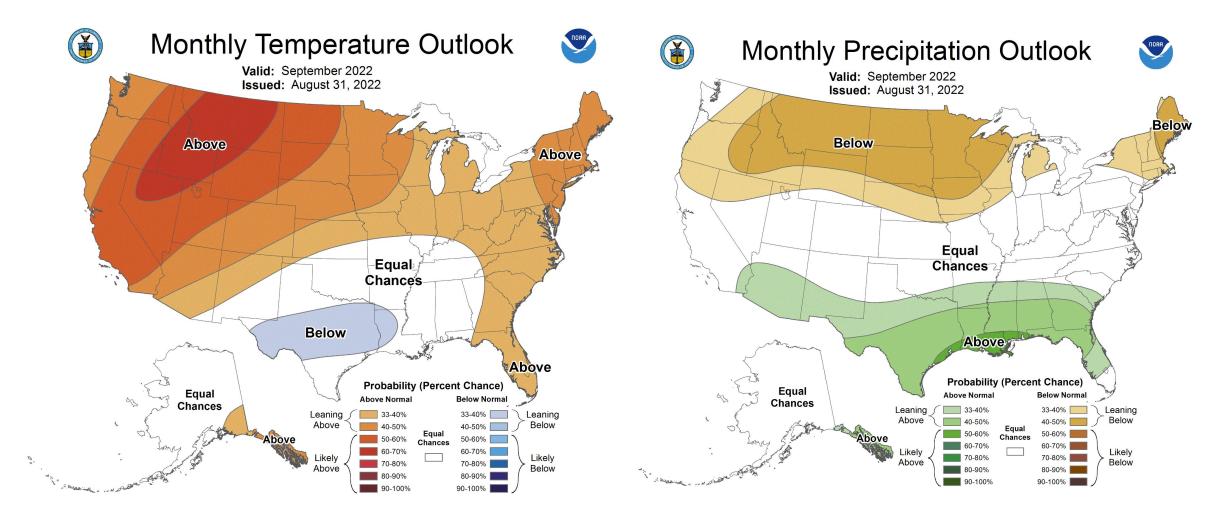
Water





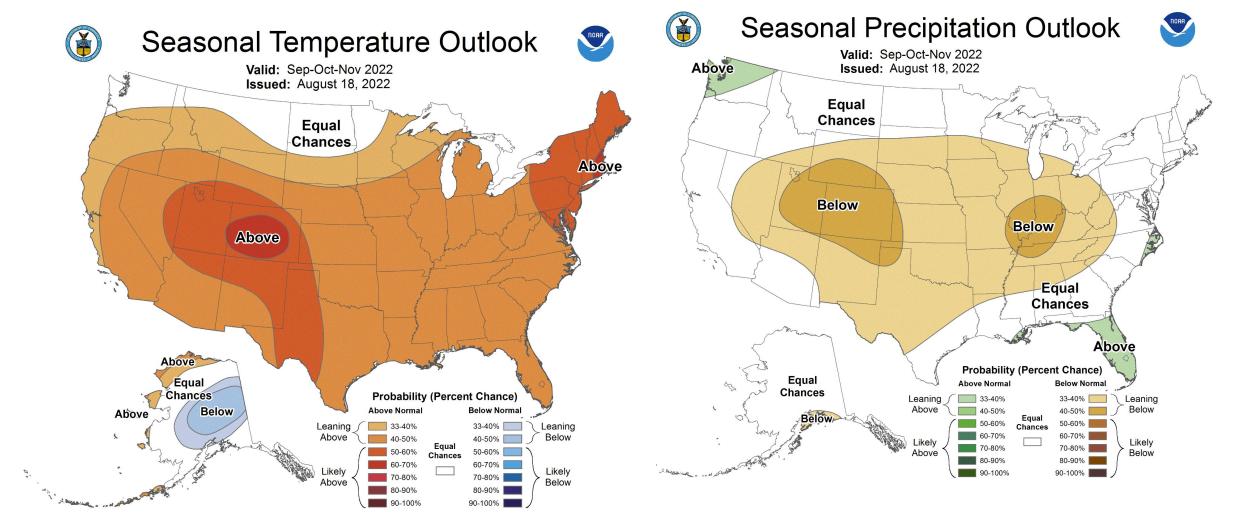


CPC September Outlook



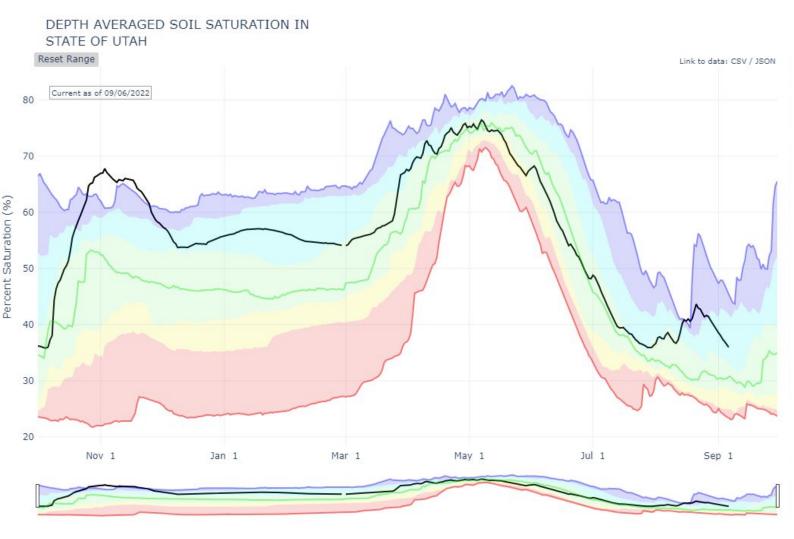
Agency - Utah Climate Center Presenter - Jon Meyer

CPC Sept-Nov. Outlook



Agency - Utah Climate Center Presenter - Jon Meyer

Soil Moisture



Rock Springs Weber-Ogden Uintas 88 Duchesne 1012 Jordan 106 ountain 100 Lower Sevier Price-San Rafael 100 San Pitch Southeastern Utah 103 Upper Sevier Dirty Devil Beaver 136 130% - 149% 110% - 129% Southwestern Utahr Gity 1013 90% - 109% Escalante-Paria 50% - 69% No basin value Watershed Boundaries Sites with less than 7 years of USDA Natural Resources Conservation Service United States Department of Agriculture Created 9-06-2022

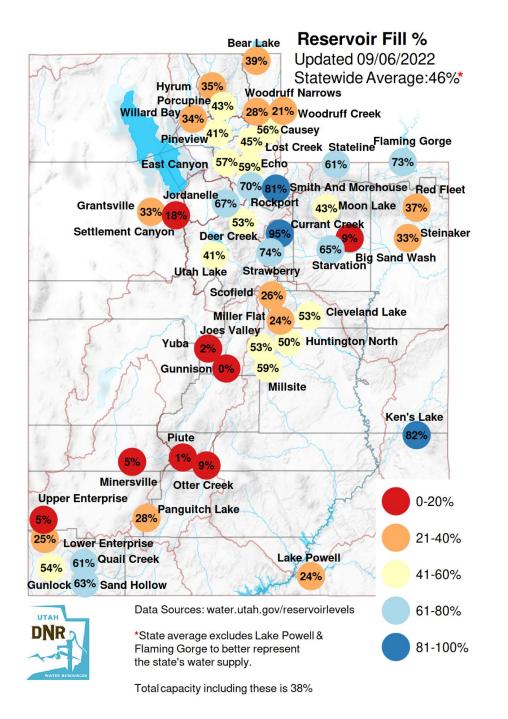
Percent of POR Median

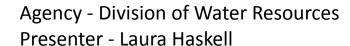
108

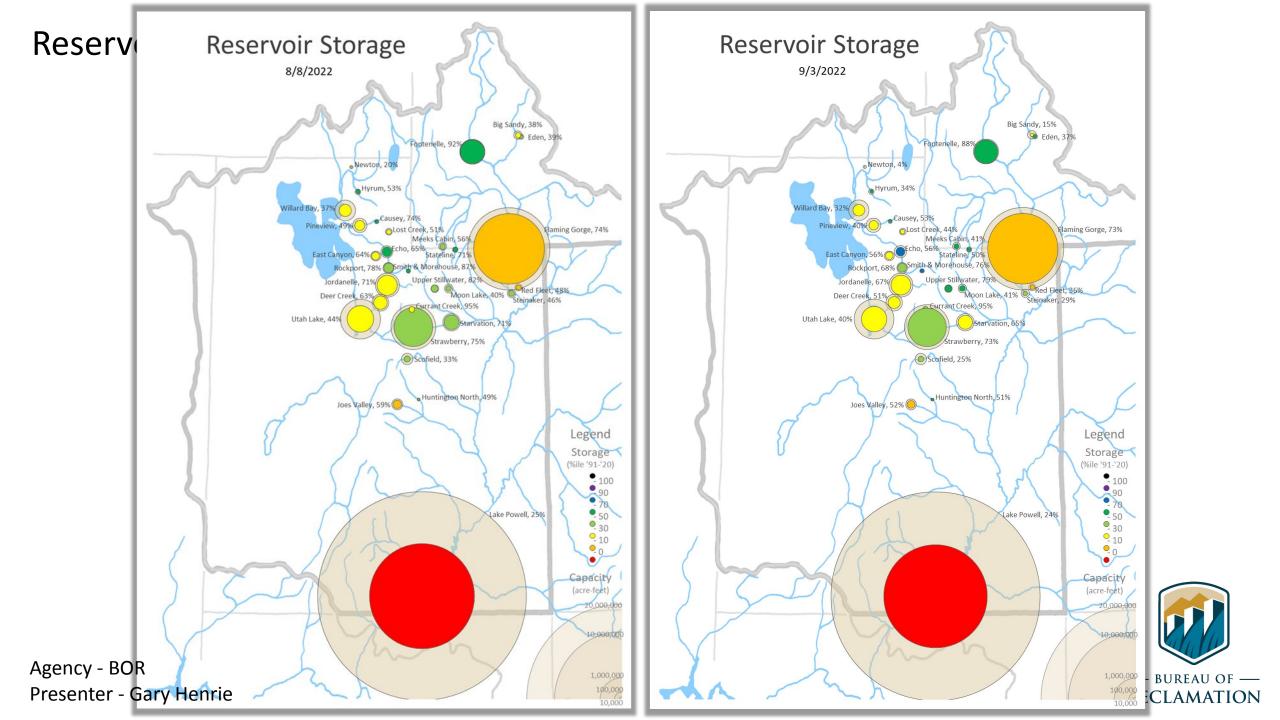
September 5, 2022, end of day

Soil Moisture (20 in.)

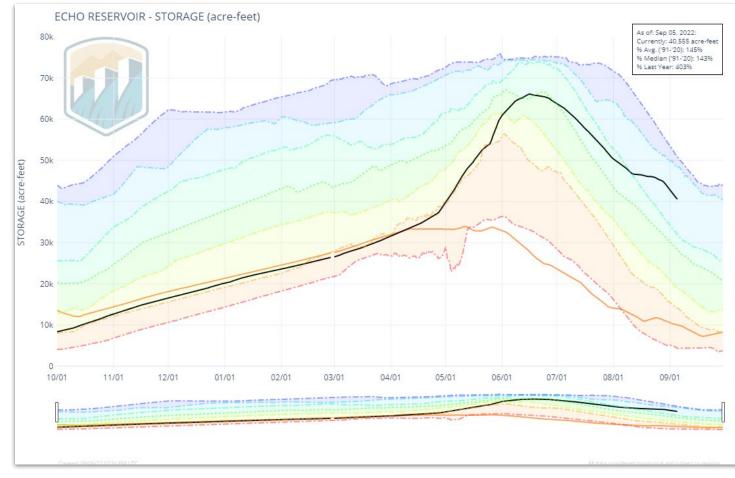
Agency - NRCS Snow Survey Slide from Jordan Clayton



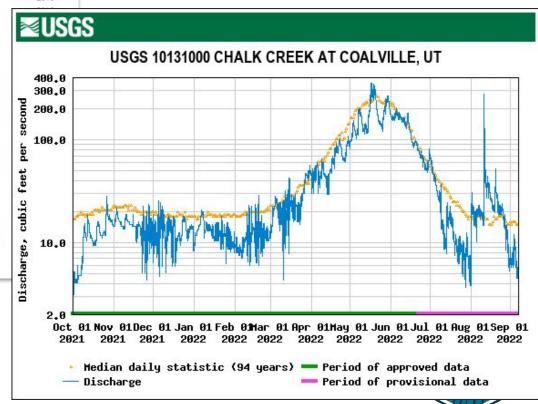




Reservoir Levels



https://www.usbr.gov/uc/water/hydrodata/reservoir_data/site_map.html



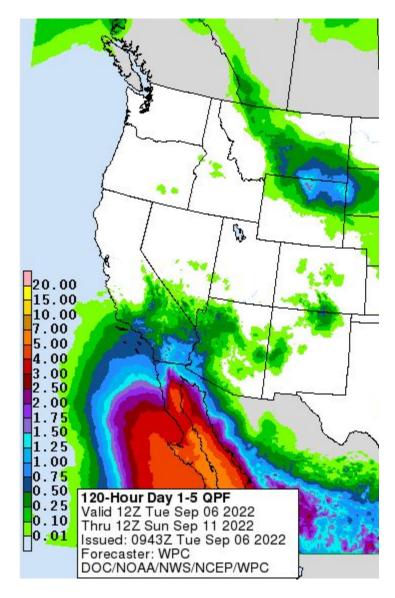
--- 10%

2020

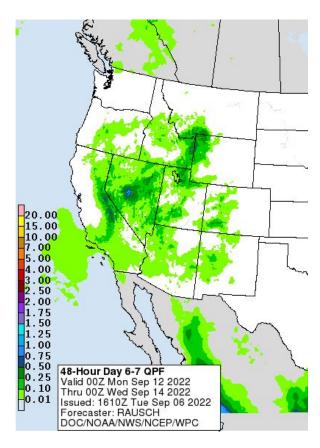
Agency - BOR Presenter - Gary Henrie



Weather Forecast Office Utah Day 1-7 Outlook



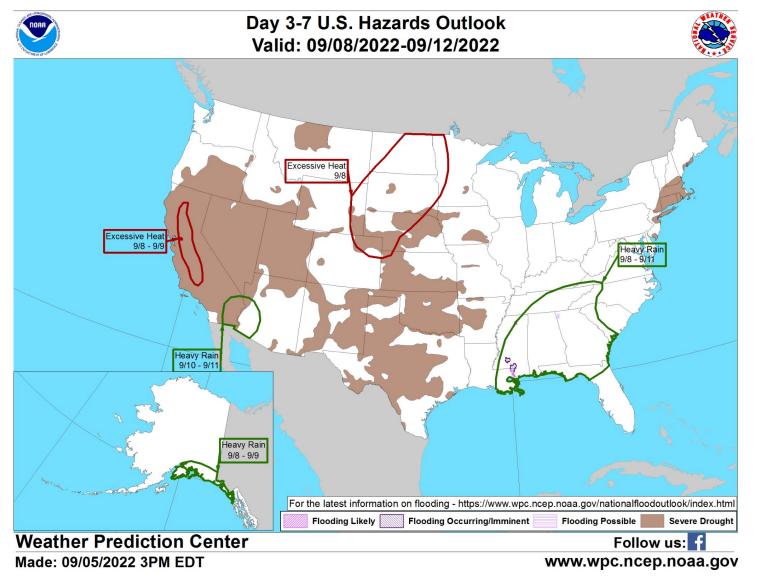
Agency - National Weather Service Weather Forecast Office Presenter - Glen Merrill





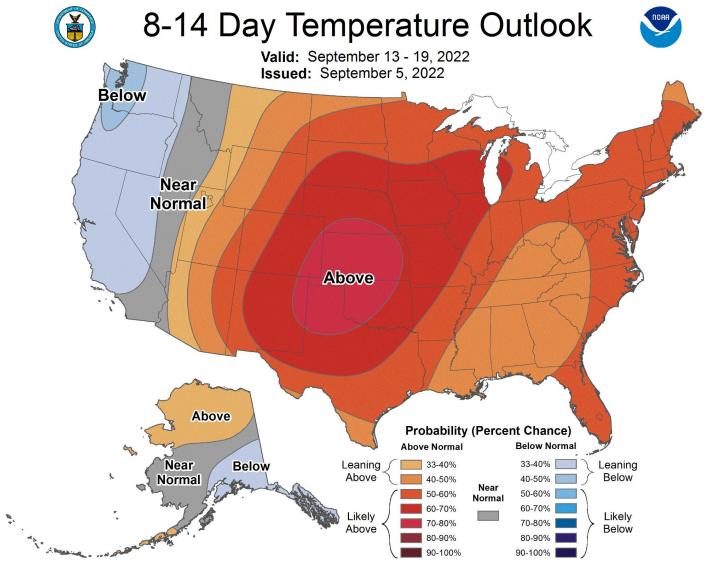
- Dangerously hot temperatures for early September will be in place through Wednesday for most locations and perhaps Thursday for Lower Washington County, Zion National Park and Glen Canyon National Recreation Area
- Record-breaking heat both in terms of magnitude and duration for early
 September will continue across most valley areas of Utah, especially through
 Wednesday and possibly into Thursday.
- Some moisture is expected to return to southern Utah by Sunday and much of the state by Monday, but the details remain uncertain at this time

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



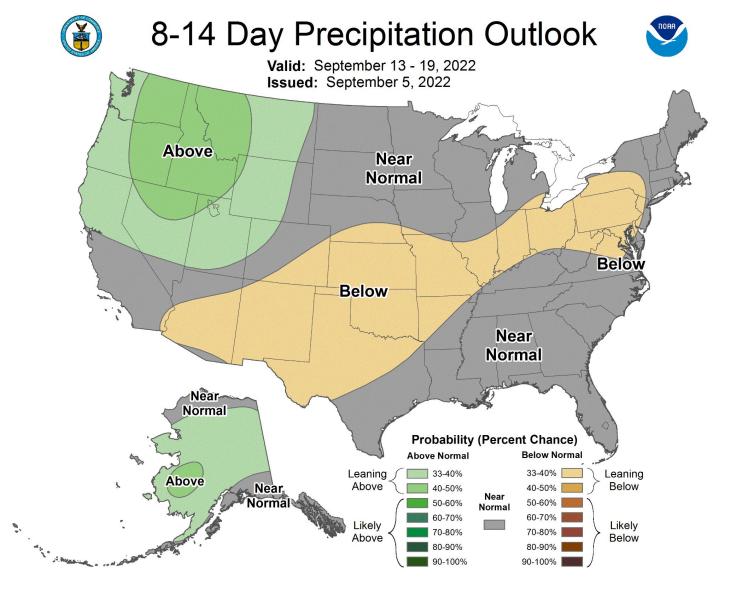


Climate Prediction Center 8 to 14 Day Outlooks - Temperature





Climate Prediction Center 8 to 14 Day Outlooks - Precipitation

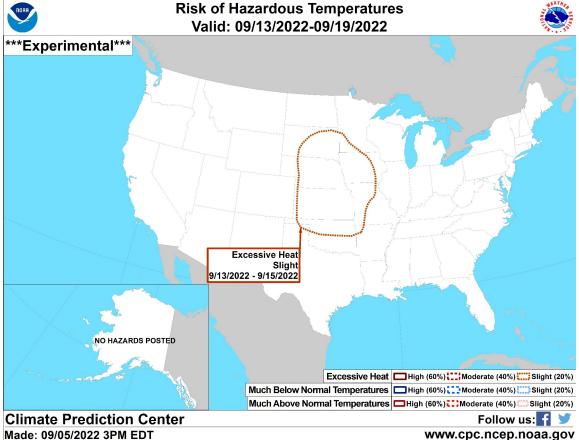




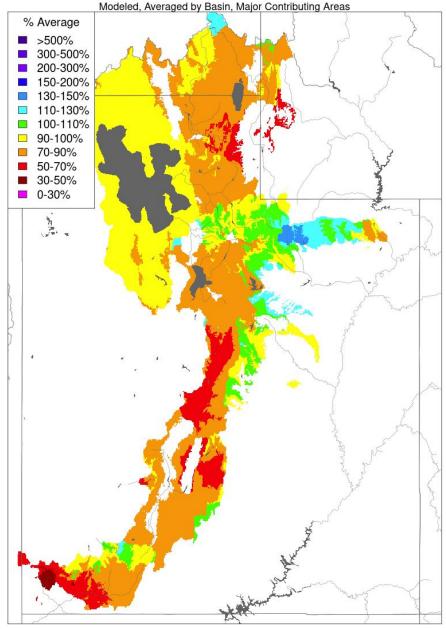
Climate Prediction Center U.S. Week-2 Hazards Outlook







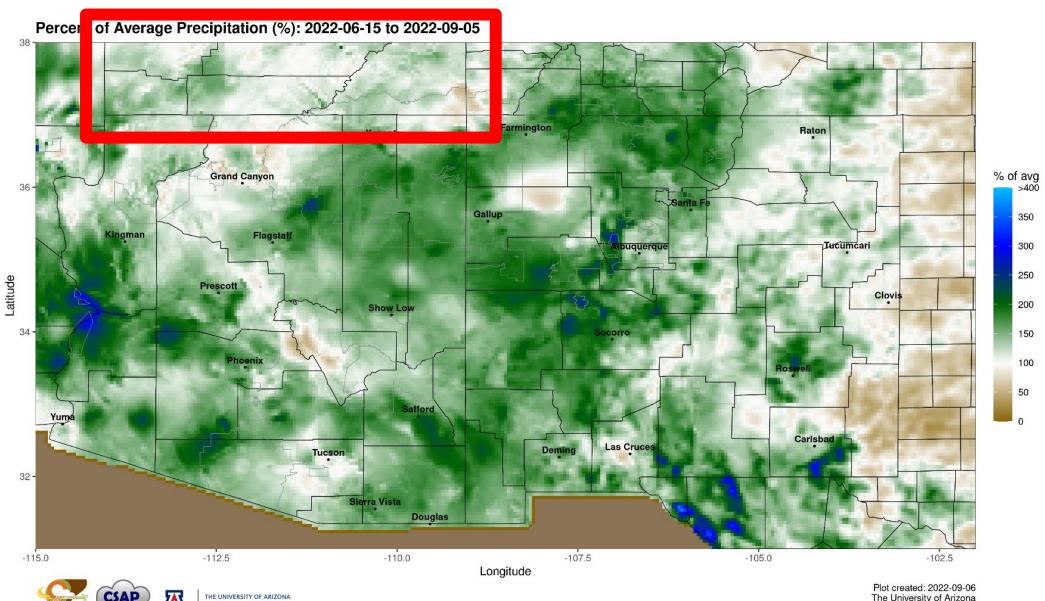
Soil Moisture - Fall - 2021 (November 15)



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



During this time of the year, the CBRFC is focused on providing continuous support for reservoir operators who are continuing to meet demands for irrigation and other uses. Soon, we'll begin to take a hard look at baseflow conditions as irrigation demands decline and stop, but before gages freeze. This will give us a good idea regarding the state of deep soil moisture conditions, and how those conditions may impact next year's snowmelt runoff.

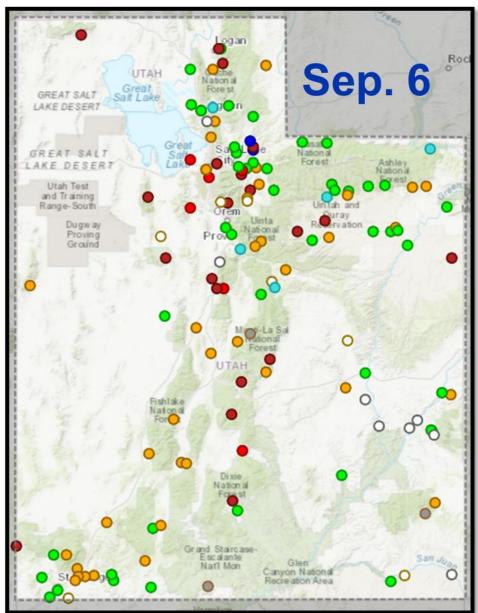


Cooperative Extension



Plot created: 2022-09-06 The University of Arizona https://cals.arizona.edu/climate/ Data Source: PRISM Climate Group RCC-ACIS

Current Streamflow Conditions



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

Aug. 22 Sep. 6

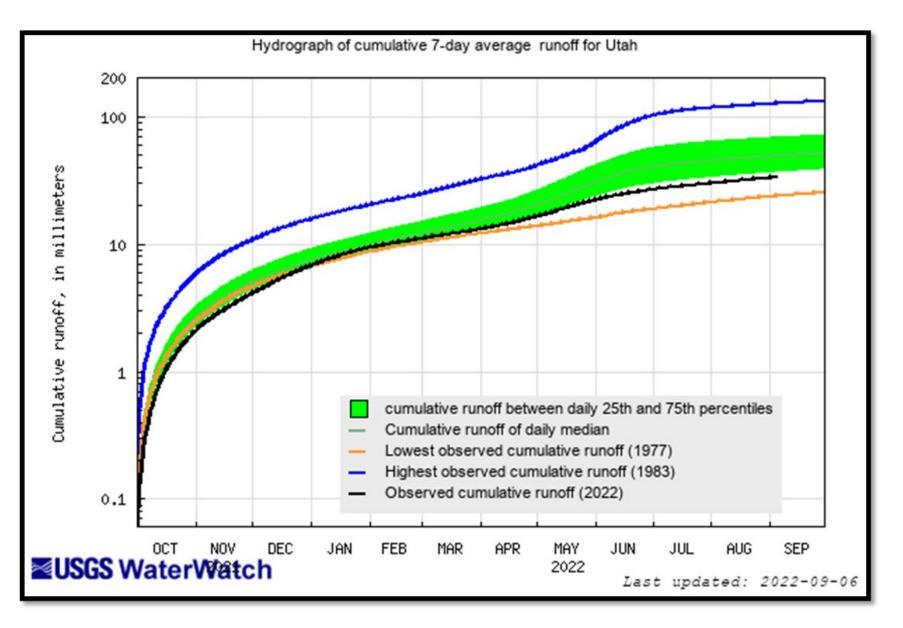
Day-of-Year Status	% Gages	% Gages
buy of fedi status	% Gages	70 Oages
All-time high for this day-of-year	0.7%	0.7%
Much above normal for this day-of-year	3.6%	1.5%
Above normal for this day-of-year	15.3%	4.4%
Normal for this day-of-year	37.2%	32.8%
Below normal for this day-of-year	19.0%	27.7%
Much below normal for this day-of-year	9.5%	15.3%
All-time low for this day-of-year	2.996	4.4%
Not ranked - insufficient record	7.3%	7.3% 🔳
Not ranked - stream not flowing	2.2%	3.6%



Agency - USGS UT WSC Presenter - Ryan Rowland



Area Based Cumulative Runoff for Utah

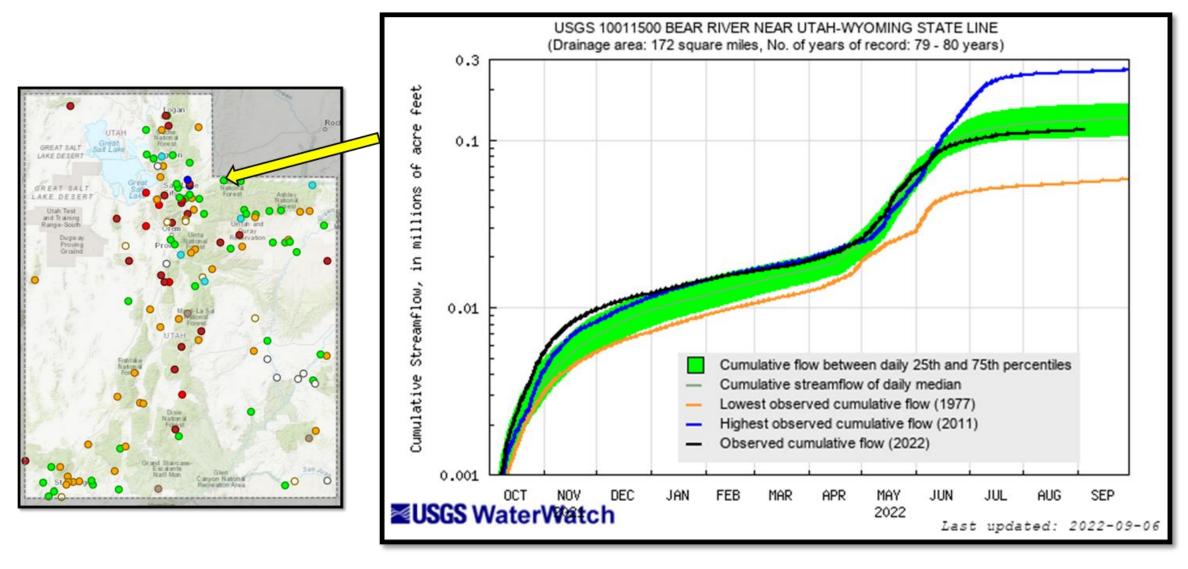


 □ Area based runoff computed from mixed regulated and unregulated streamflows



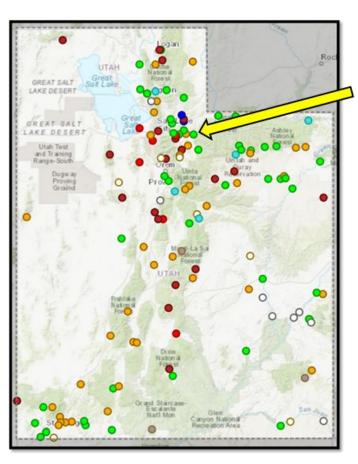


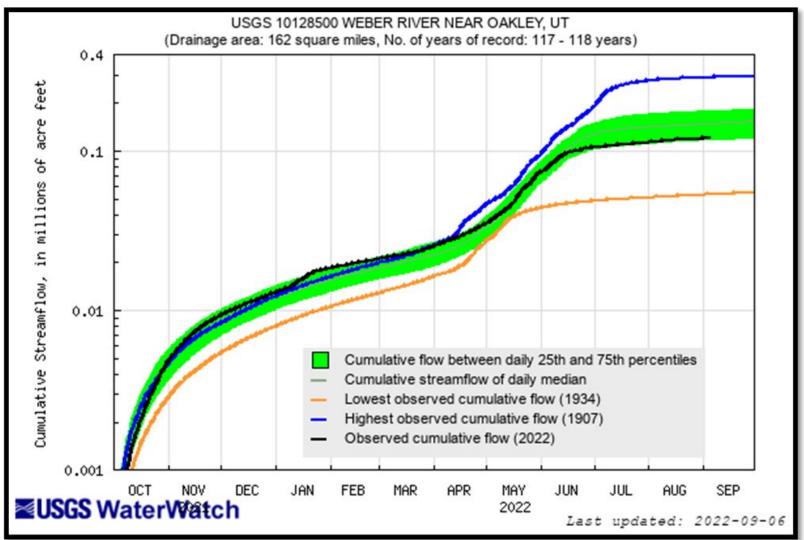
Cumulative Streamflow for Selected Gages





Cumulative Streamflow for Selected Gages

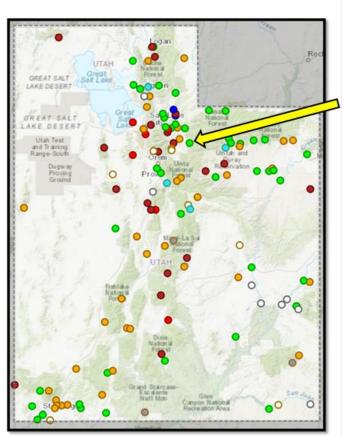


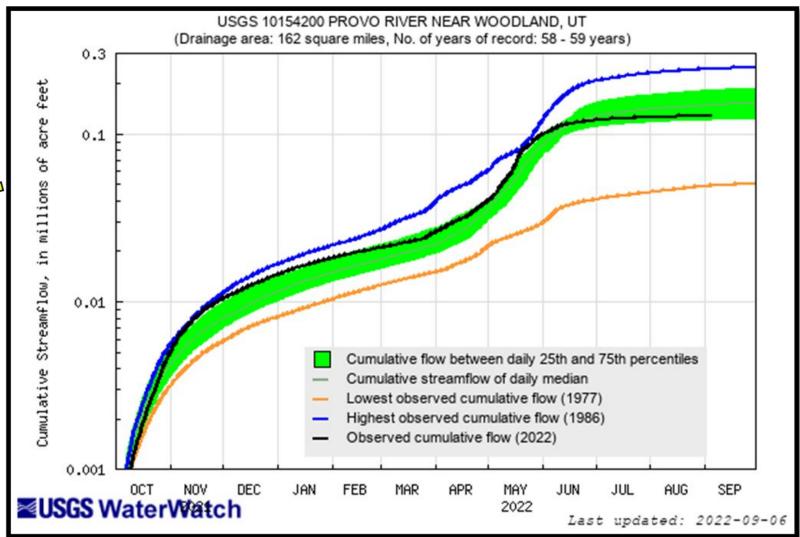






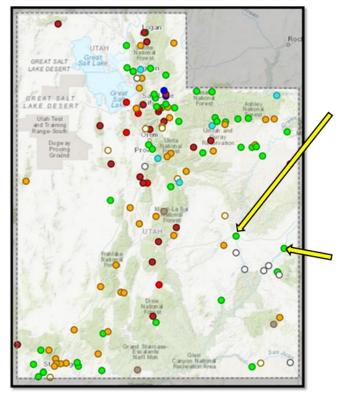
Cumulative Streamflow for Selected Gages

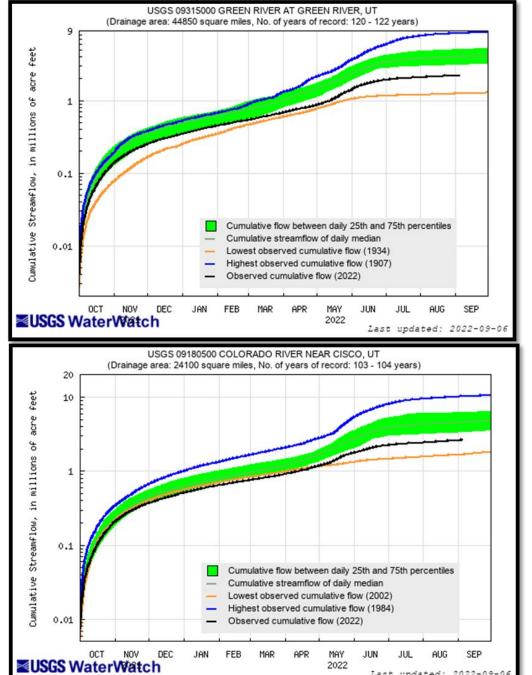






Cumulative Streamflow for **Selected Gages**

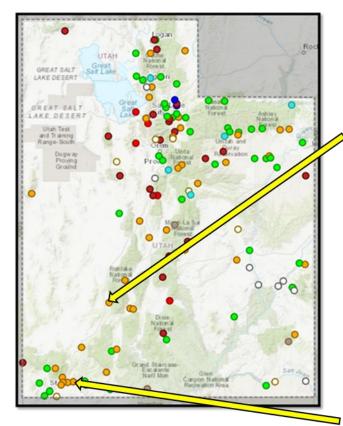


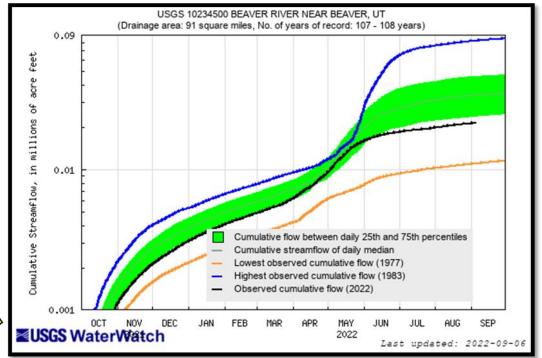


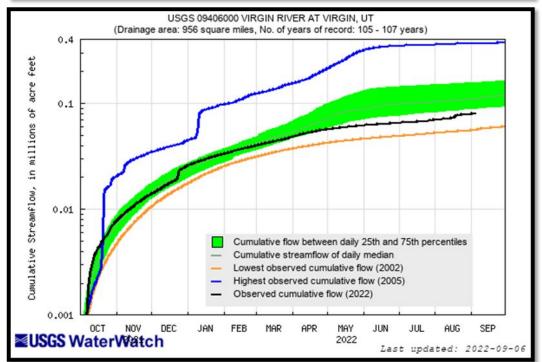


Last updated: 2022-09-06

Cumulative Streamflow for Selected Gages

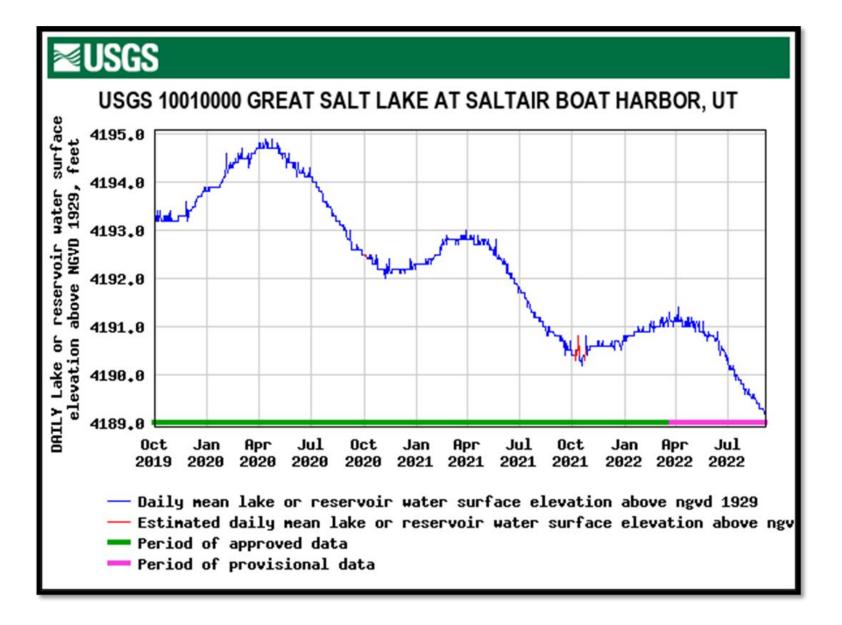






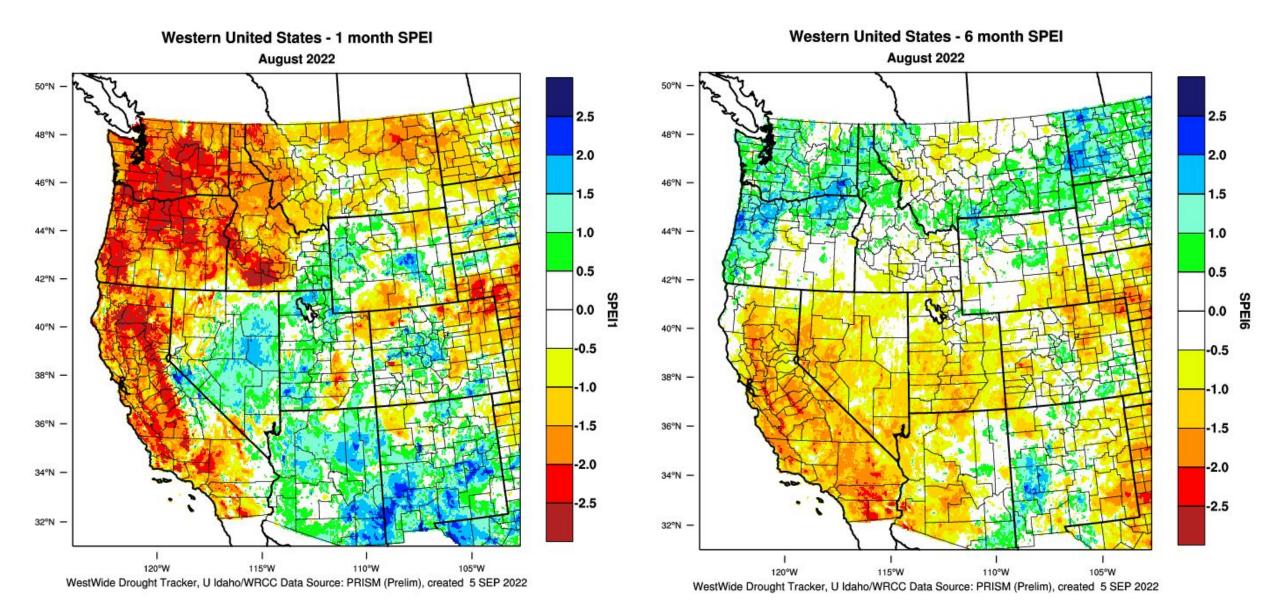


Great Salt Lake Water Surface Elevation



- Mean daily value 9/5/2022 =4,189.2' (record lows continue)
- Mean daily value 8/21/2022 = 4,189.4

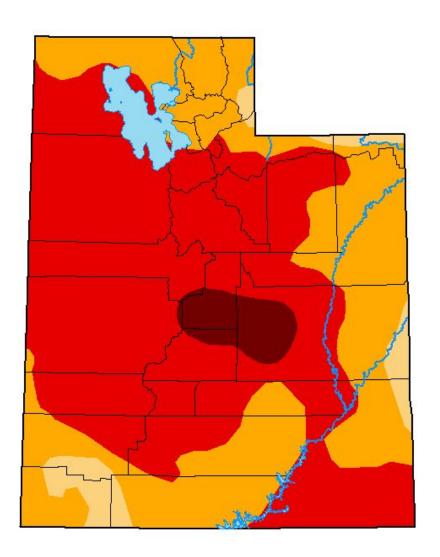




U.S. Drought Monitor Utah

August 30, 2022

(Released Thursday, Sep. 1, 2022) Valid 8 a.m. EDT



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:

Deborah Bathke National Drought Mitigation Center



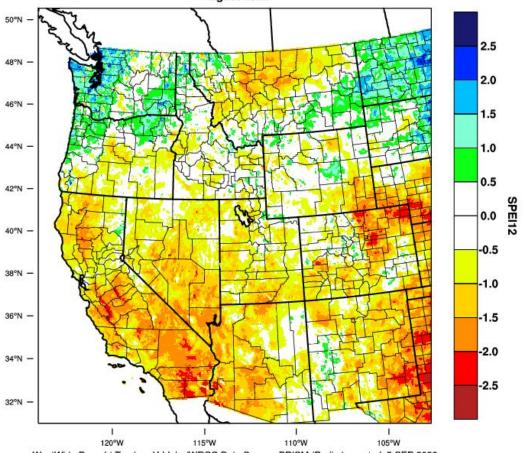






droughtmonitor.unl.edu

Western United States - 12 month SPEI August 2022



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 SEP 2022