Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly

Thank you to our contributors
Current Streamflows

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

Agency - USGS UTWSC
Presenter - Ryan Rowland
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 UTWSC
Presenter - Ryan Rowland
Cumulative Streamflow at Selected Gages

Agency - USGS UTWSC
Presenter - Ryan Rowland
Cumulative Streamflow at Selected Gages

USGS 10128500 WEBER RIVER NEAR OAKLEY, UT
(Drainage area: 162 square miles, No. of years of record: 117 - 118 years)

USGS WaterWatch

Last updated: 2022-08-09
Cumulative Streamflow at Selected Gages

Agency - USGS UTWSC
Presenter - Ryan Rowland
Cumulative Streamflow at Selected Gages
Great Salt Lake Water Surface Elevation

- Mean daily value 8/8/2022 = 4,189.6’ (record lows continue)
- Mean daily value 7/25/2022 = 4,189.8’
Temperatures (July Mean Percentile; Max. Temp. Anomaly)
Precipitation (July Percentile; 30-day SPI)
Precipitation (NCEI rank by country)

County Precipitation Rank (of 128 years)

Agency - Utah Climate Center
Presenter - Jon Meyer
Precipitation (Recent Northern Utah Event)
Evaporative Demand Drought Index (EDDI)

1-Month (to Aug 4)

1-Week (to Aug 4)
NASA SPORT Modeled Soil Moisture Change

1-Month (to Aug 9) vs. 1-Week (to Aug 9)

Agency - Utah Climate Center
Presenter - Jon Meyer
Vegetation Drought Response Index (VegDRI; Aug 7)

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<tr>
<th>Evaporative Stress Index</th>
<th>VegDRI</th>
<th>Vegetation Health Index</th>
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The Vegetation Drought Response Index (VegDRI) is a weekly depiction of drought's effects on vegetation stress across the contiguous United States, produced by the National Drought Mitigation Center, the U.S. Geological Survey’s National Center for Earth Resources Observation and Science, and the High Plains Regional Climate Center. Learn more.

### Drought Conditions

- Pre-Drought Stress
- Moderate Drought
- Severe Drought
- Extreme Drought

### Moist Conditions

- Unusually Moist
- Very Moist
- Extremely Moist

### Other Conditions

- Near Normal
- Out of Season
- Water
- Other Landcover

*Currently, data are only available for the contiguous U.S.*

Source(s): NDMC, USGS, HPRCC

Updates Weekly - 08/07/2
Utah Climate Center Hi-Res Soil Moisture Forecast

1-Week (to Aug 16)

1-Month (to Sept 7)

Agency - Utah Climate Center
Presenter - Jon Meyer
28 reservoirs below 55%

Reservoirs 20% full or less
Gunnison
Piute
Upper Enterprise
Sevier Bridge (Yuba)
Minersville
Otter Creek
Newton Dam
Settlement Canyon
Weather Forecast Office Utah Day 1-7 Outlook

Agency - National Weather Service Weather Forecast Office
Presenter - Christine Kruse
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation

8-14 Day Precipitation Outlook

Valid: August 16 - 22, 2022
Issued: August 8, 2022

Map showing precipitation outlooks across the United States, with color-coded areas indicating above normal, near normal, below normal, leaning above, leaning below, likely above, and likely below with probability percent chances.
Climate Prediction Center U.S. Week-2 Hazards Outlook

Day 8-14 U.S. Hazards Outlook
Valid: 08/16/2022-08/22/2022

Agency - National Weather Service Weather Forecast Office
Presenter - Christine Kruse
April through July Observed Runoff (Percent of Average)

Weber: 48% - 84% median: 63%

Bear: 35% - 86% median: 58%

Six Creeks: 15% - 83% median: 53%

Utah Lake: 48% - 86% median: 63%

Sevier: 10% - 72% median: 46%
April through July Observed Runoff (Percent of Average)

Green River: 37% - 96%  median: 64%
San Juan: 50% - 72%  median: 66%
Powell: 3.75 MAF, 59% of average

Agency - CBRFC
Presenter - Trevor Grout