Thank you to our contributors
Precipitation 14 day history
30-day Standardized Precipitation Index (SPI)
30-day & 14-day Temperature departure from average

Agency - Utah Climate Center
Presenter - Jon Meyer
Evaporative conditions

U.S. Vegetation and Drought

The Evaporative Stress Index (ESI) describes temporal anomalies in evapotranspiration (ET), highlighting areas with anomalously high or low rates of water use across the land surface. The ESI also demonstrates capability for capturing early signals of "flash drought," brought on by extended periods of hot, dry, and windy conditions leading to rapid soil moisture depletion. Learn more.

Standardized ET/PET Anomalies

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

Source(s): NASA SERVIR

Agency - Utah Climate Center
Presenter - Jon Meyer
Quick Drought Response Index (QuickDRI)

Quick Drought Response Index
Utah

September 19, 2021
(Week 38)

Conditions Relative to 4-Week Historical Average
- Wetter
- Near Average
- Drier
- Out of Season
- Urban
- No Data
- Water
1-Month GRACE Soil moisture comparison
Vegetation Drought Response Index (VegDRI)

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 - 09/21/21
CPC 1-month outlooks
Soil Moisture

Agency - NRCS
Presenter - DWRe for NRCS
Reservoir Storage – Green Basin

August rainstorm + ~6,000 acre-feet (~20% of capacity)

Agency - USBR Provo Area Office
Presenter - Gary Henrie
Reservoir Storage – Lake Powell

Consistent with the Upper Basin Drought Response Operations Agreement (DROA) provisions to protect a target elevation at Lake Powell of 3,525 feet, this September 2021 24-Month Study includes releases from the upstream initial units of the Colorado River Storage Project Act to deliver an additional 181,000 acre-feet (kaf) to Lake Powell by the end of December 2021. The additional releases began in July and will continue to be implemented on the following schedule:

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<tr>
<td>Flaming Gorge Reservoir</td>
<td>13</td>
<td>42</td>
<td>43</td>
<td>27</td>
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<td>10</td>
<td>20</td>
<td>50</td>
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<tr>
<td><strong>Total (kaf)</strong></td>
<td><strong>13</strong></td>
<td><strong>56</strong></td>
<td><strong>81</strong></td>
<td><strong>31</strong></td>
<td><strong>10</strong></td>
<td><strong>10</strong></td>
<td><strong>181</strong></td>
</tr>
</tbody>
</table>

Agency - USBR Provo Area Office
Presenter - Gary Henrie
Drought conditions persist
Climate Prediction Center 8 to 14 Day Outlooks - Temperature

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

Agency - National Weather Service Weather Forecast Office
Presenter - Aldis Strautins
Base Flow Conditions / Modeled Soil Moisture and YTD Precipitation

Unregulated 90-75th Percentile flows Across Utah

Seasonal to Date Precipitation, October 01 - September 21 2021
Averaged by Basin, Major Contributing Areas

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

Presenter - Brent Bernard
Current Streamflow Conditions

Sites must have at least 10 years of record to be included in this graphic.
Current Streamflow Conditions

- Mean daily Streamflow compared to historical streamflow for the day of the year
- Sites must have at least 30 years of record to be included in this graphic
Cumulative Streamflow

- Cumulative 7-day average runoff for water year 2021 is near the lowest on record.
Great Salt Lake Water Surface Elevation at Saltair

- Mean daily value 9/20/2021 = 4,190.7’
- Broke historic low record on 7/21/2021 when daily mean value = 4,191.3’
- Site has data record dating back to 1847