Utah Drought Monitor Webinar

October 6, 2020
Precipitation 60 day history (Percent of Average)

Total Precipitation (in.)
8/7/2020 - 10/5/2020

Percent of Average Precipitation (%)
8/7/2020 - 10/5/2020

Agency - Utah Climate Center
Presenter - Jon Meyer
Temperature 30 day (Related to Average)

Ave. Temperature dep from Ave (deg F)  
9/6/2020 – 10/5/2020

Av. Max. Temperature dep from Ave (deg F)  
9/6/2020 – 10/5/2020

Agency - Utah Climate Center
Presenter - Jon Meyer
Temperature 7 day (Related to Average)

Ave. Temperature dep from Ave (deg F)
9/29/2020 – 10/5/2020

Av. Max. Temperature dep from Ave (deg F)
9/29/2020 – 10/5/2020

Agency - Utah Climate Center
Presenter - Jon Meyer
Precipitation 7 day history (Percent of Average)

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Standardized Precipitation Index

30 Day SPI
9/5/2020 – 10/4/2020

60 Day SPI
8/6/2020 – 10/4/2020
Palmer Drought Severity Index (PDSI):
- Initial results from UCC project to calculate PDSI in-house.
- One of most predominant drought indices used.
- Temperature and precipitation data used to estimate relative dryness by incorporating a physical water balance model.
- Useful at capturing long-term drought conditions (timescales > 12 months)
- Not effective during snow-season (assumes precipitation is immediately available)
Soil Moisture (Current)
SNOTEL & SCAN
8” sensor depth

Agency - NRCS Snow Survey
Bear River Basin: roughly the same as two weeks ago

Weber River Basin: gone down up to 4% in the last two weeks

Provo River Basin: gone down 2-3% in last two weeks
In the last two weeks:
- Cleveland Reservoir is down 18%
- Huntington North Reservoir is down 6%
- Millsite Reservoir has gone down 2%
- Remaining reservoirs are within 2% of previous levels
In the last two weeks:

Otter Creek, Panguitch and Piute down 5-7%

Rocky Ford, Gunnison Bend and Yuba remain the same

DMAD has gone up 7%
Weather Forecast Office Utah Day 1-7 Outlook

This WPC forecast shows .8-1.5” of precipitation for the upper elevation areas in Northern Utah starting Saturday evening.

Average October Precipitation in the upper elevations of Utah is 2-4 inches for October.
CPC 6 to 10 Day Outlooks - Temperature/Precipitation

Agency - National Weather Service Weather Forecast Office
Presenter - Aldis Strautins
Week 2 Hazards Outlook

Agency - National Weather Service Weather Forecast Office
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CBRFC Utah Water Year 2020 Precipitation
October 2019 - September 2020

Percent of Average WT 2020

Minimum Station Ranks WY2020

As WY2020 Precipitation ranked in the top 10 lowest for most stations within Utah with several exceptions.

Along the crest of the Wasatch range from the far south to as far north as Ogden values are in the top 5 lowest years for accumulated WY Precip.

These high elevation regions account for the majority of spring runoff and the bulk of our annual WS.

Agency - NOAA NWS CBRFC
Presenter - Brent Bernard
Selected Hydrographs from Southern and Central Utah

Colorado Basin River Forecast Center
NORTH FORK VIRGIN - SPRINGDALE, NR - Hydrograph

COLORADO BASIN RIVER FORECAST CENTER

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Selected Hydrographs for Northern and Eastern Utah

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