

Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly













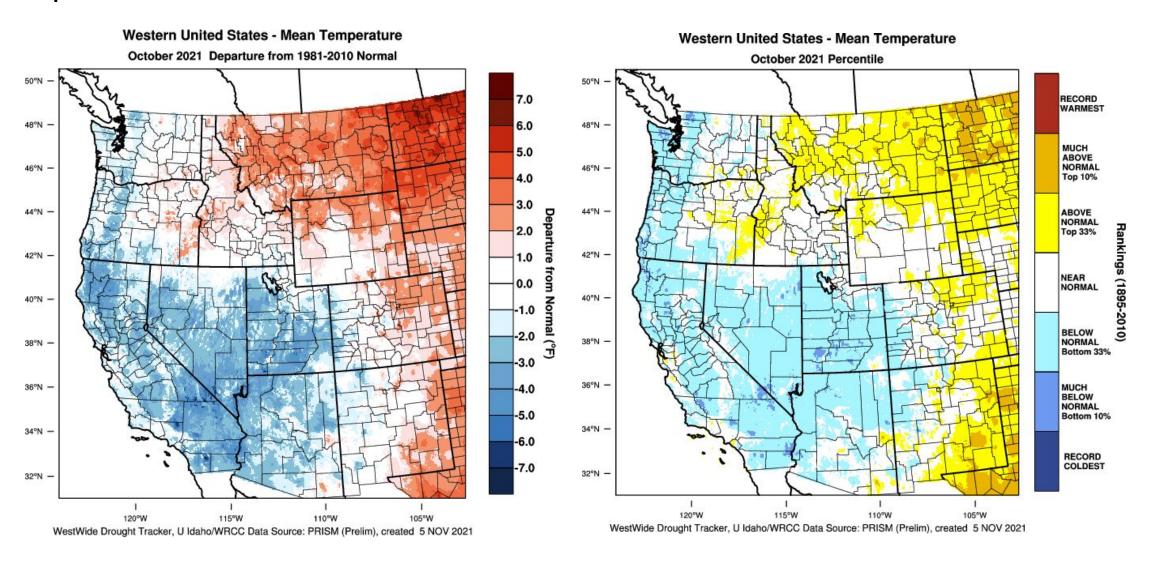




Utah Water Assessment & Conditions Monitoring Webinar

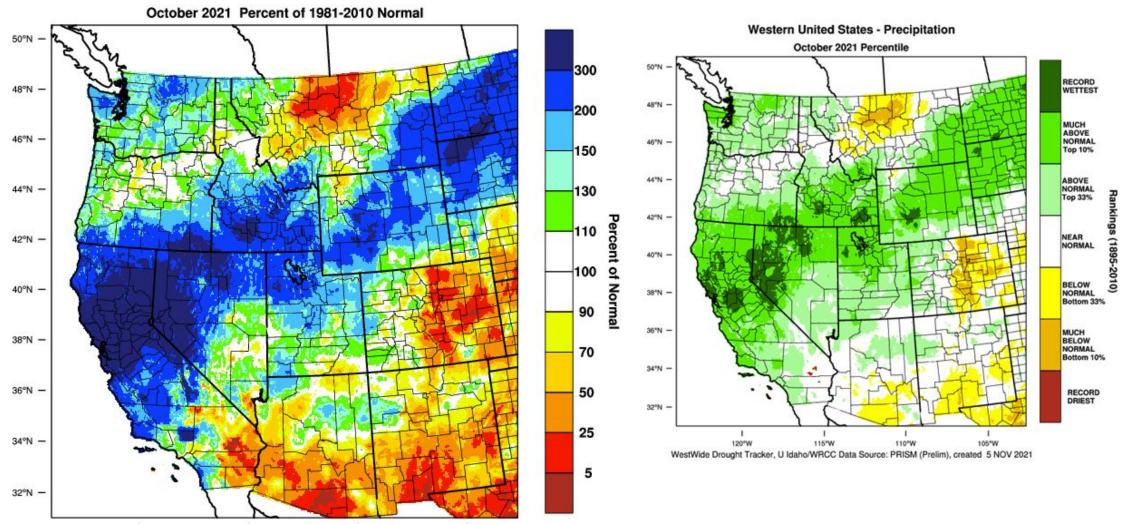
November 9, 2021

Temperature



Precipitation (Percent of Average)

Western United States - Precipitation



115°W WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 NOV 2021

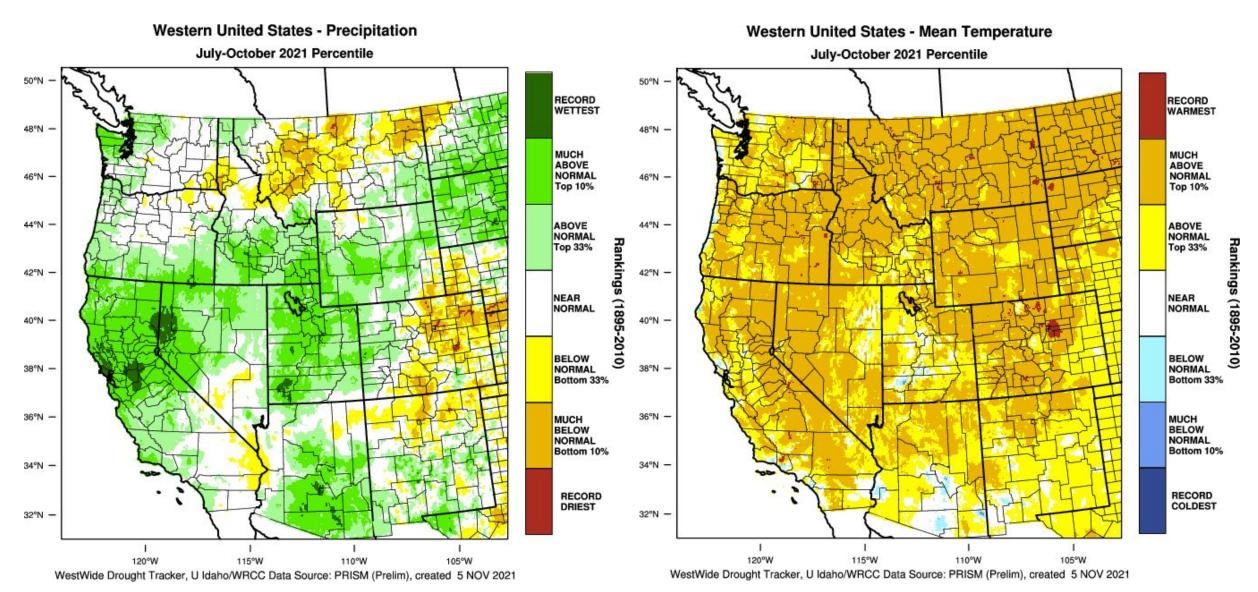
110°W

105°W

Agency - Utah Climate Center Presenter - Jon Meyer

120°W

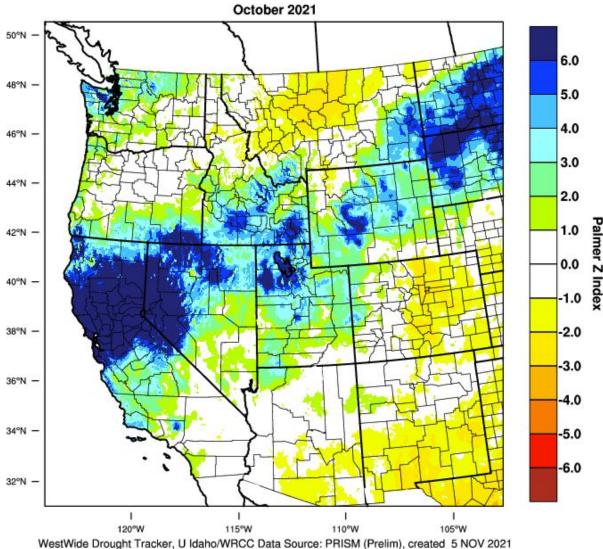
Conditions since July

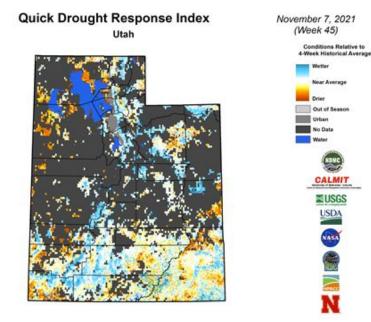


Agency - Utah Climate Center Presenter - Jon Meyer

Short-term drought relief

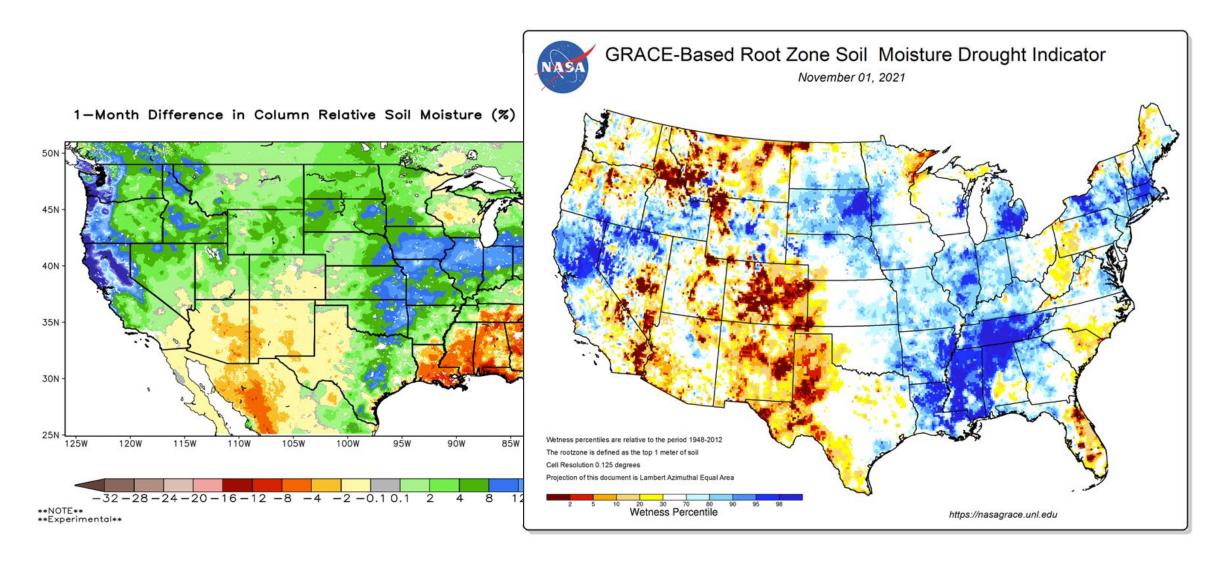
Western United States - Palmer Z-Index





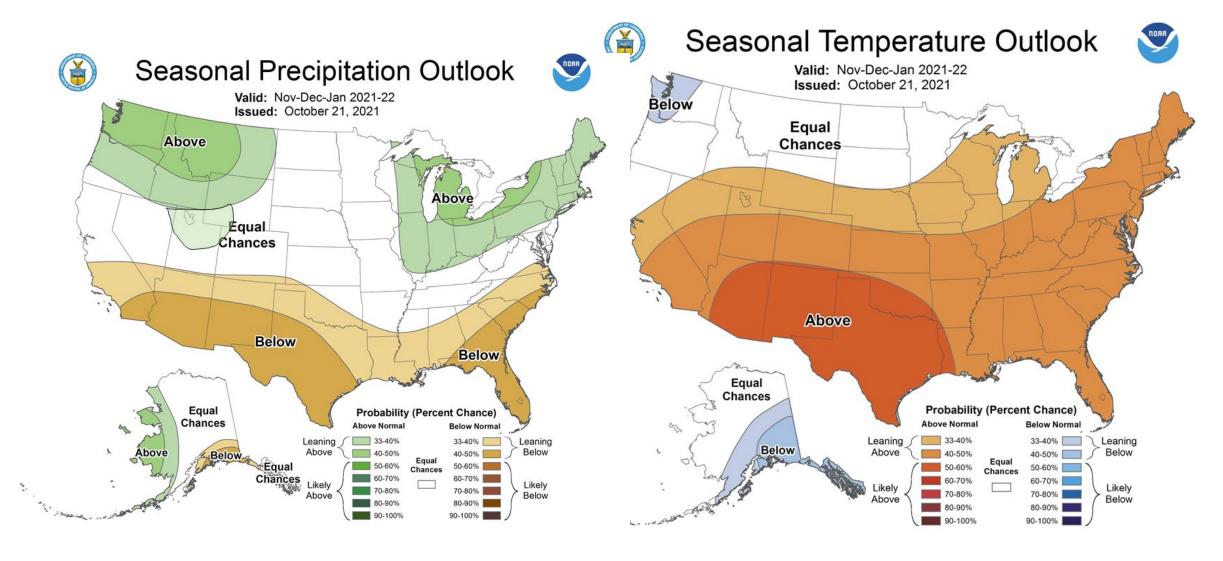
Agency - Utah Climate Center Presenter - Jon Meyer

Soil Moisture Improvements Continue



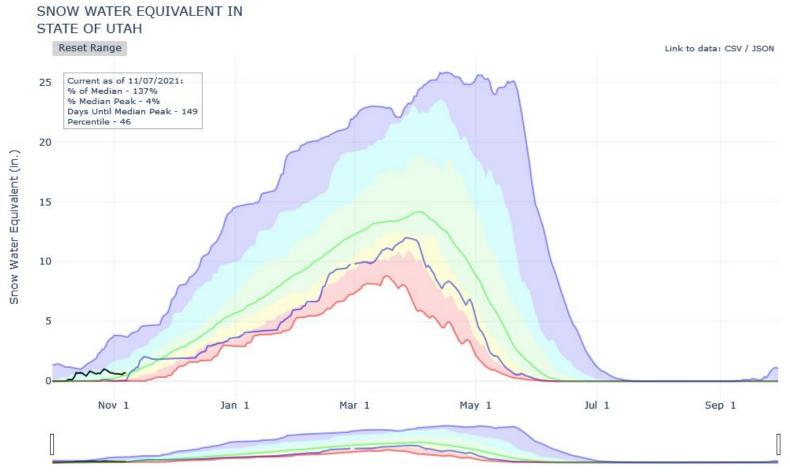
Agency - Utah Climate Center Presenter - Jon Meyer

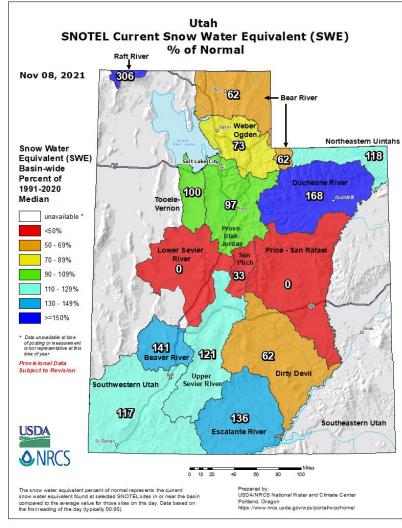
CPC 3-month climate outlook



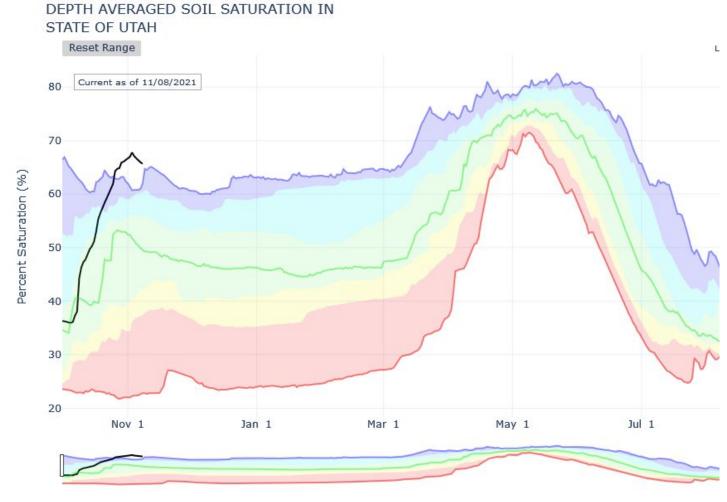
Agency - Division of Water Resources
Presenter - Laura Haskell

Snowpack (Water Year to date Percent of Average)

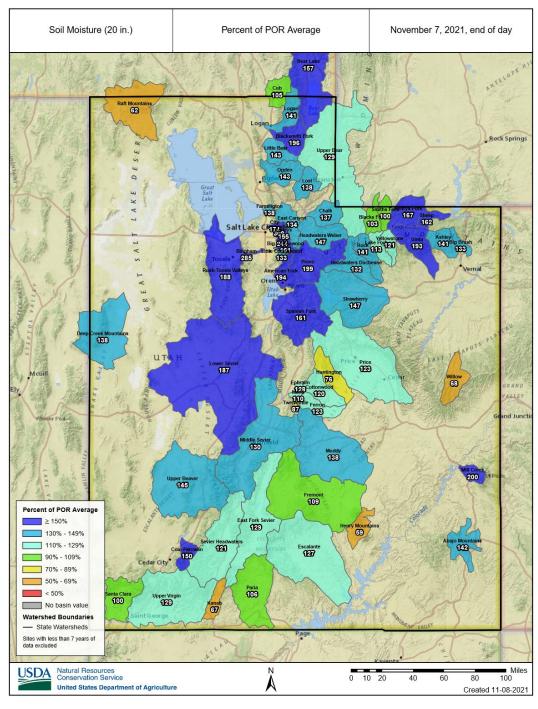


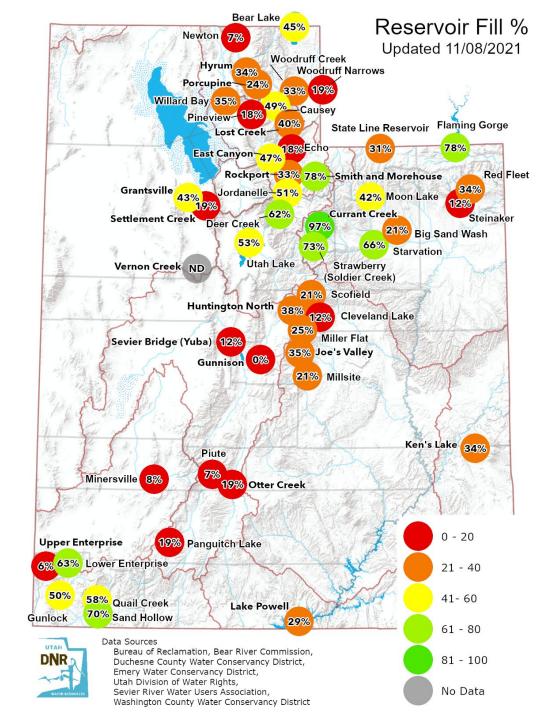


Soil Moisture (Current)

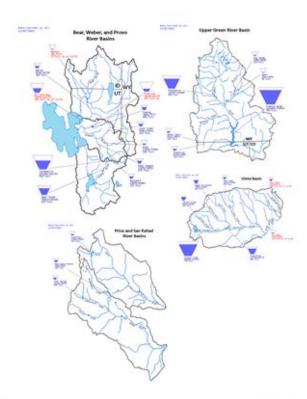


Agency - NRCS Snow Survey Presenter - Jordan Clayton



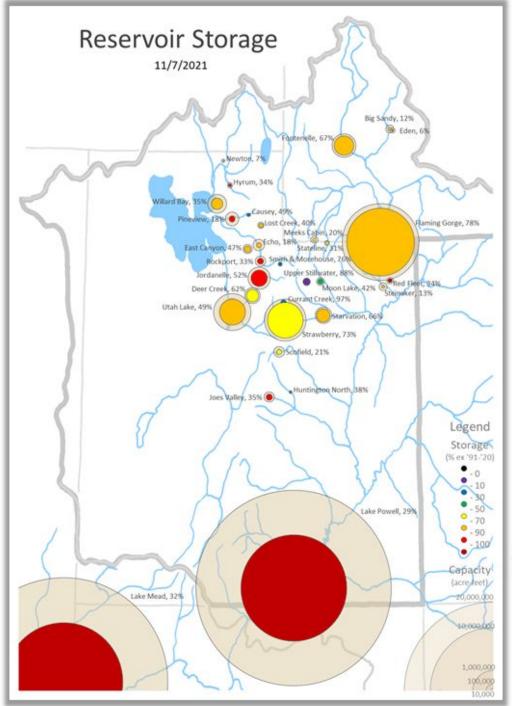


Teacup Diagrams



https://www.usbr.gov/uc/water/basin/index.html

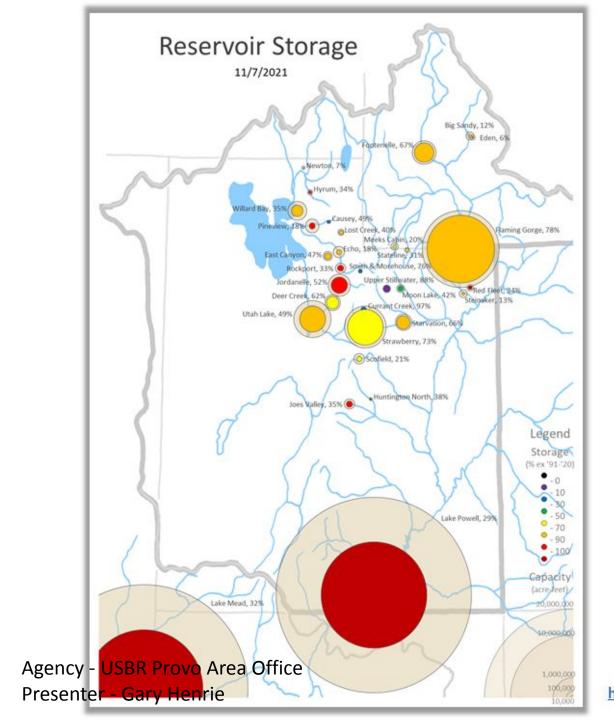
Agency - USBR Provo Area Office Presenter - Gary Henrie

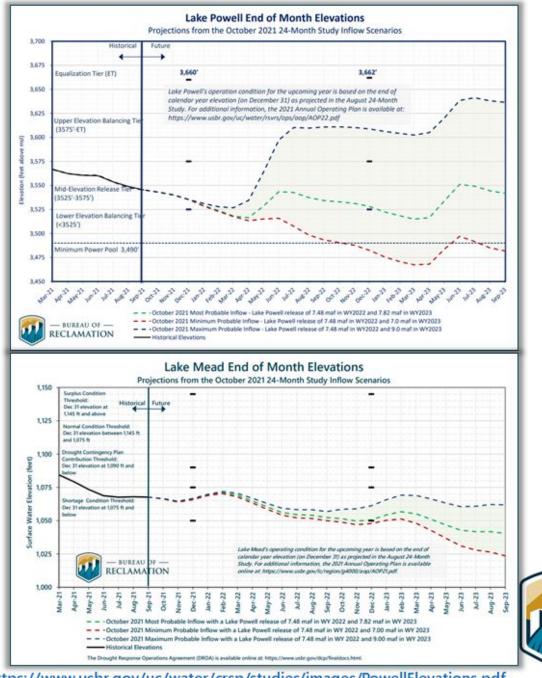


Reservoir Storage



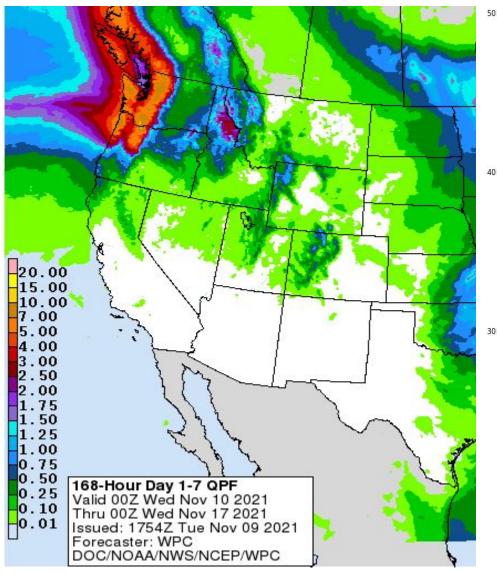
https://www.usbr.gov/uc/water/hydrodata/reserv oir data/site map.html



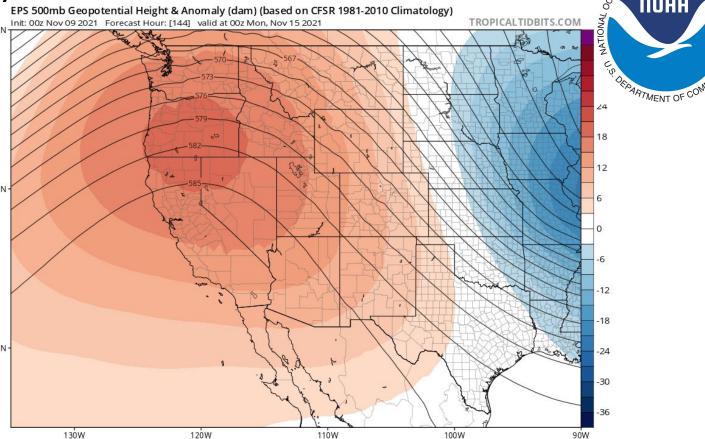


https://www.usbr.gov/uc/water/crsp/studies/images/PowellElevations.pdf

Weather Forecast Office Utah Day 1-7 Outlook



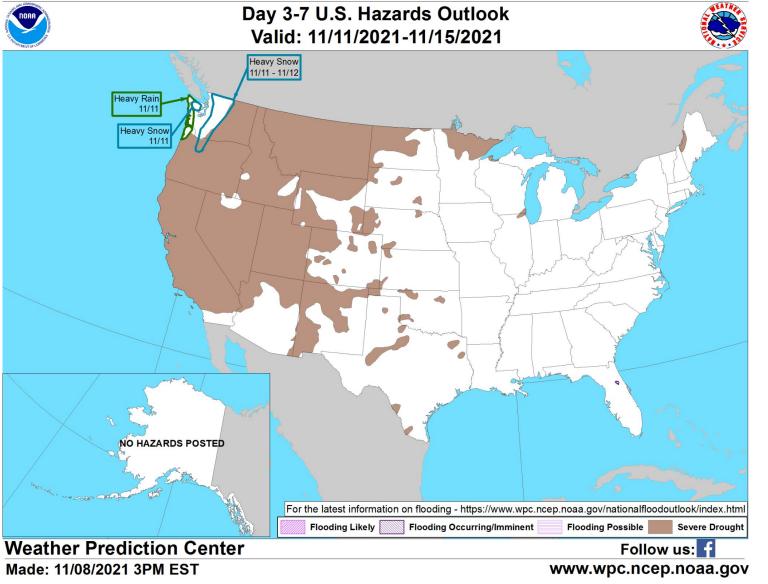
Agency - National Weather Service Weather Forecast Office Presenter - Glen Merrill



NOAA

- Quick hitting storm today tonight. Northern mountains largely 4-8" snow above 8000ft, with locally higher amounts up to 12".
- High pressure builds in late week into early next week. Temps 5-10 degrees above normal
- Uncertainty exists regarding trough evolution heading into midweek next week.

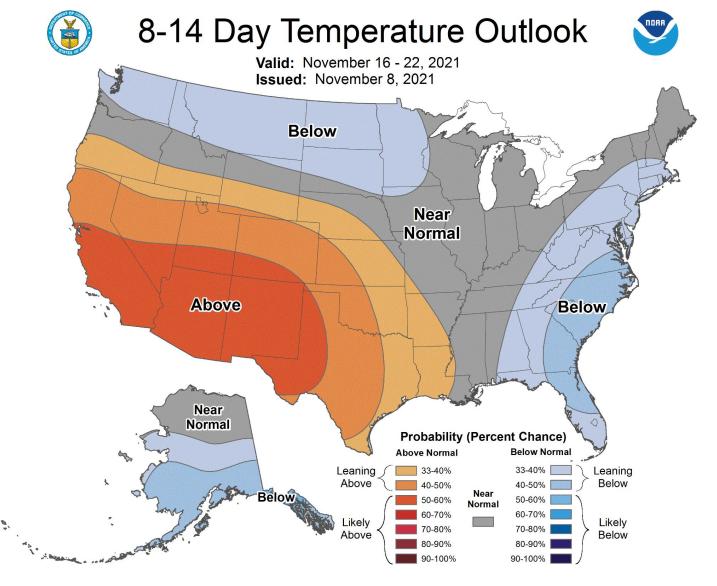
Weather Prediction Center U.S. Day 3-7 Hazards Outlook





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

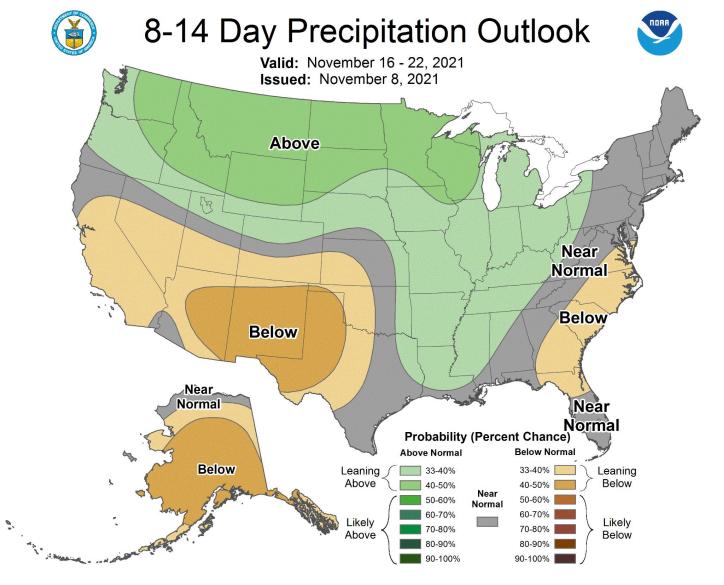
Climate Prediction Center 8 to 14 Day Outlooks - Temperature





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

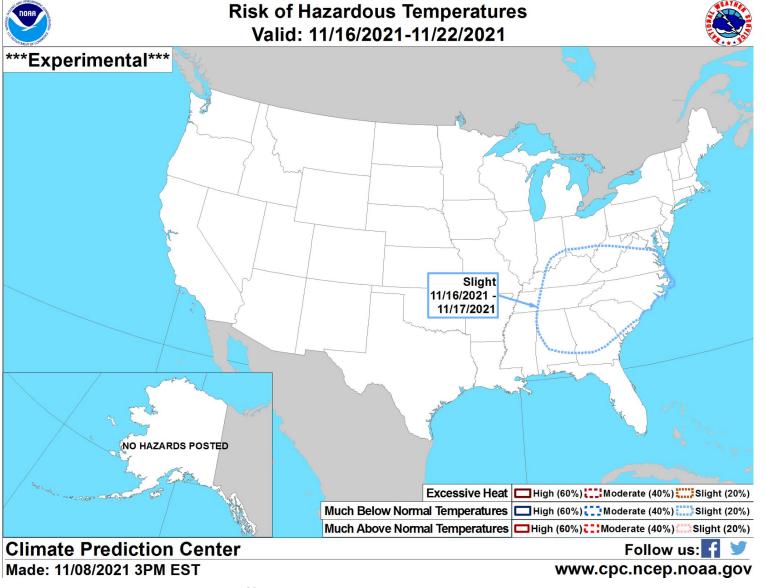
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation





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

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

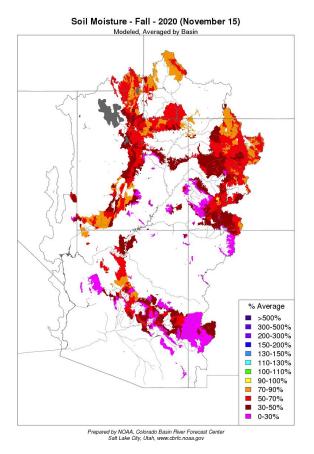




Water Supply Forecasts Resume January 1, 2022

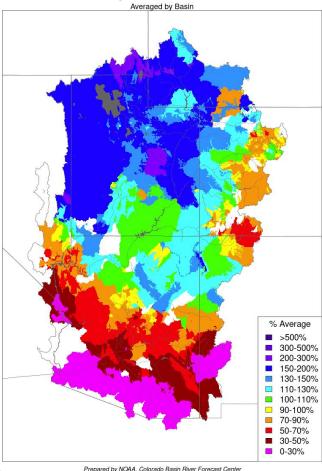
Our Initialized Gridded Soil Moisture Map will be published November 16th. This is our annual model tuning activity once all consumptive agricultural uses have finished and seasonal precipitation affects and primes the basins for winter. Adjusting the models tanks before winter precipitation begins in earnest, translates to better water supply forecast come spring 2022 as higher soil moistures lead to more efficient runoff.

Fall 2020



Fall 2021 Precipitation

Given the following pattern, when the Fall 2021 Soil
Moisture Map is published next week we anticipate that it will be a big improvement over fall 2020 due to the active monsoon and above average precipitation since late August 2021 should show a marked improvement over fall 2020.



Seasonal to Date Precipitation, October 01 - November 09 2021

Agency - CBRFC
Presenter - Brent Bernard

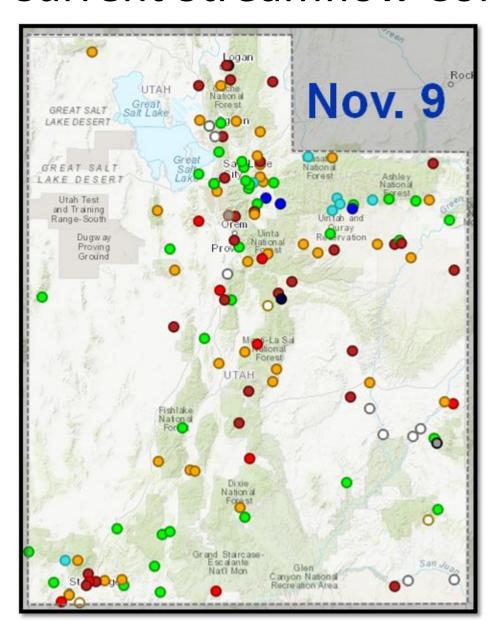
Next week click into this link to see the 2021 update

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

https://www.cbrfc.noaa.gov/rmap/grid800/index_soil.php?type=histsoilpct&area=cbrfc&type=soilfall

Current Streamflow Conditions



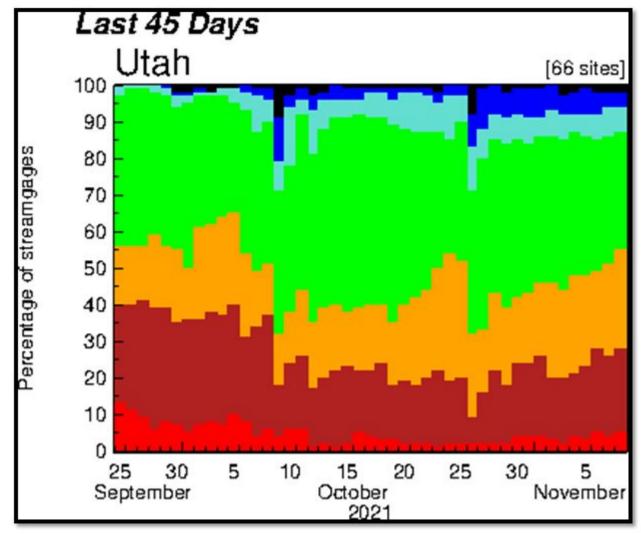


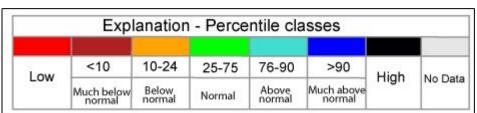
Day-of-Year Status	# Gages	% Gages
All-time high for this day-of-year	1	0.7%
Much above normal for this day-of-year	3	2.2%
Above normal for this day-of-year	7	5 1%
Normal for this day-of-year	38	27.7%
Below normal for this day-of-year	36	26.3%
Much below normal for this day-of-year	28	20.4%
All-time low for this day-of-year	9	6.6%
Not ranked - insufficient record	10	7.3% 📗
Not ranked - stream not flowing	2	1.5%
Not ranked - no recent measurement	3	2.2%



Agency - USGS Utah Water Science Center Presenter - Laura Haskell on behalf of Ryan Rowland

Current Streamflow Conditions





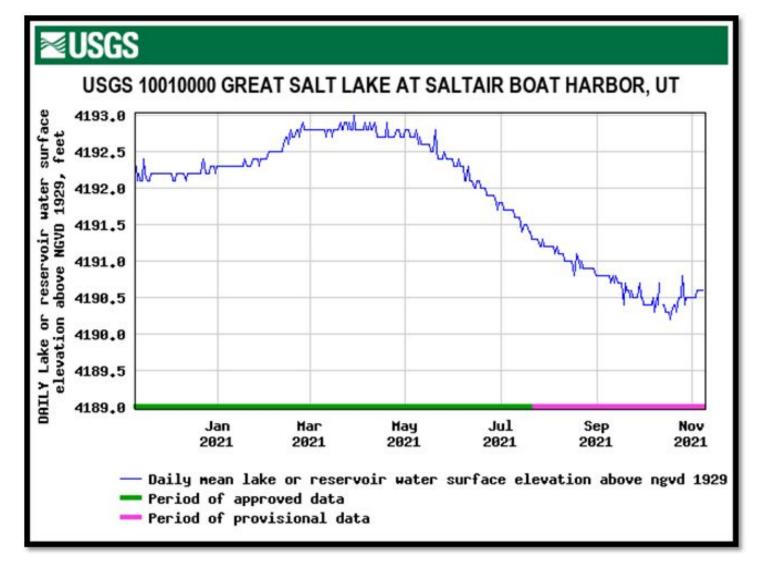


- ☐ Mean daily
 Streamflow
 compared to
 historical
 streamflow
 for the day of
 the year
- Sites must have at least 30 years of record to be included in this graphic

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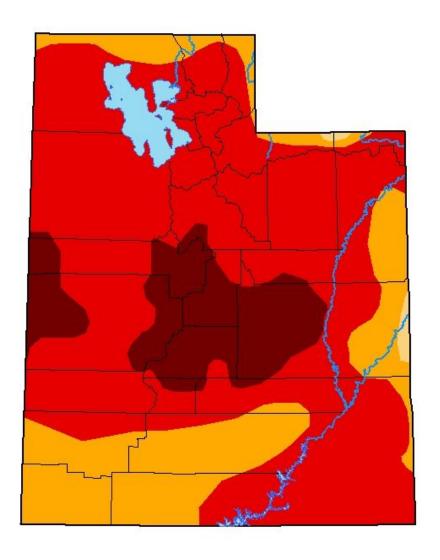
- Mean daily value 11/8/2021 = 4,190.6'
- ☐ 4,190.2' 10/18/2021 (potential new historic low)

Agency - USGS Utah Water Science Center Presenter - Laura Haskell on behalf of Ryan Rowland

U.S. Drought Monitor Utah

November 2, 2021

(Released Thursday, Nov. 4, 2021) Valid 8 a.m. EDT



Intensity:

None

SECTION SEC

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:

Adam Hartman NOAA/NWS/NCEP/CPC









droughtmonitor.unl.edu



GRACE-Based Root Zone Soil Moisture

November 01, 2021

