

Utah Water Conditions Monitoring (Drought Webinar)

The meeting will begin shortly





Thank you to our contributors



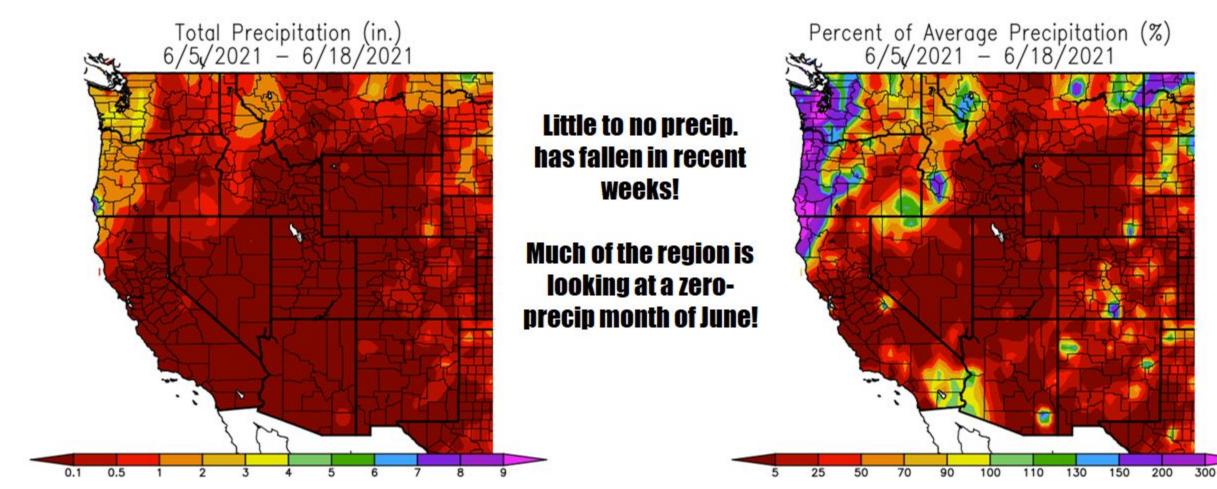




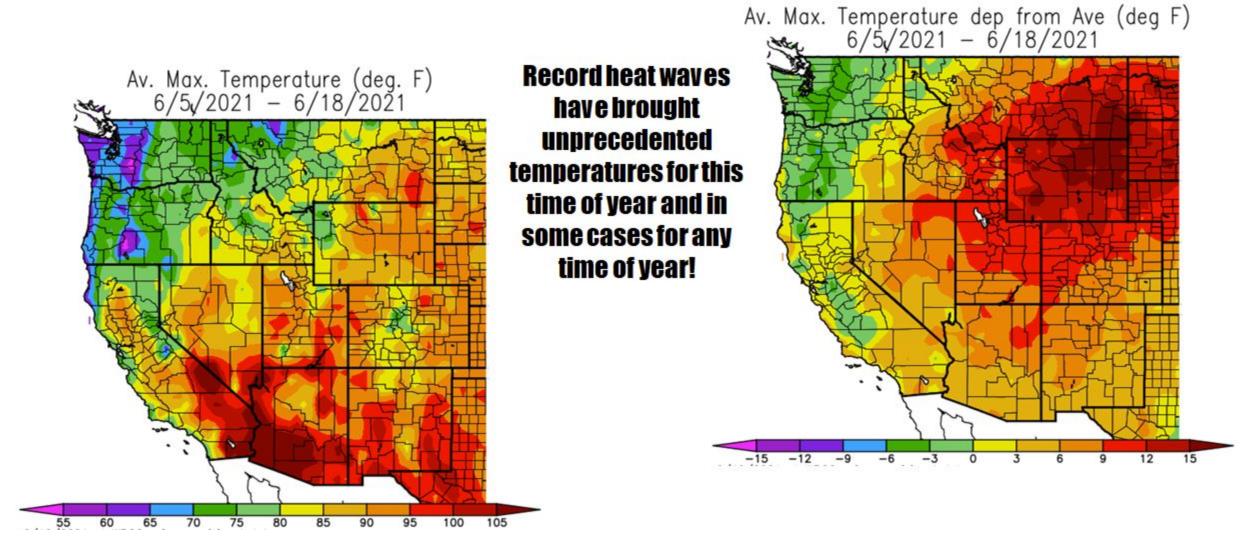
Utah Drought Monitor Webinar

June 22, 2021

2-Week Total Precipitation

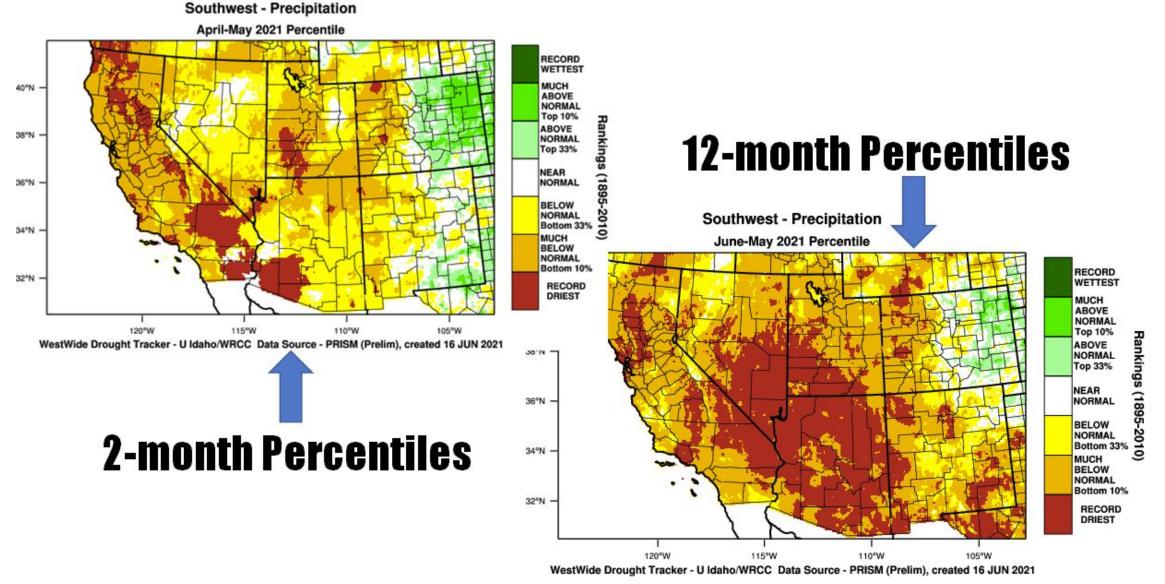


2-Week Temperatures

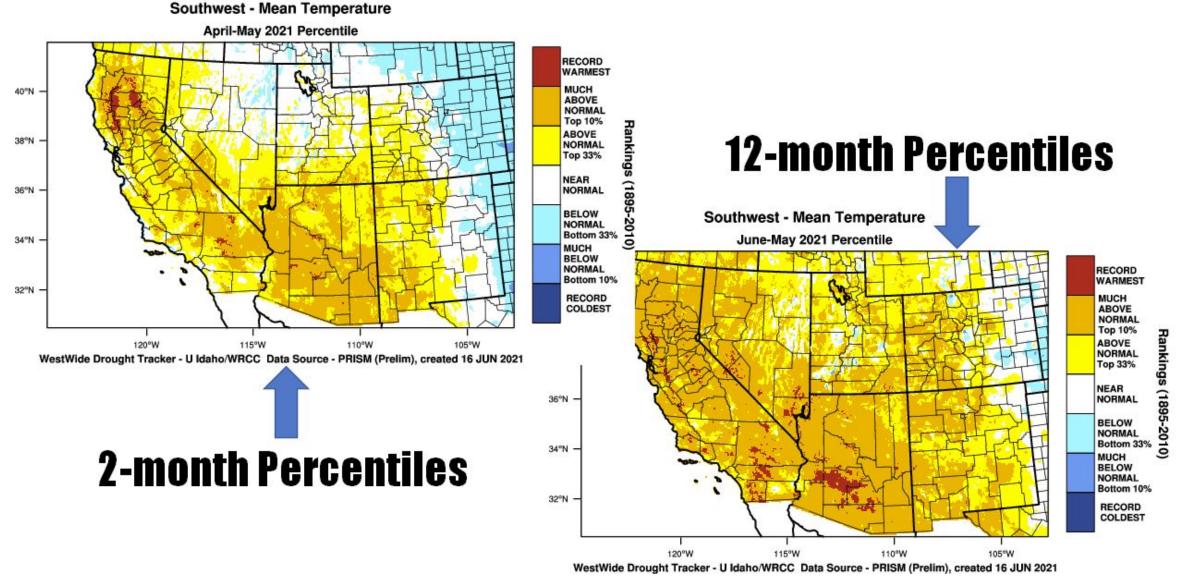


Agency -Presenter -

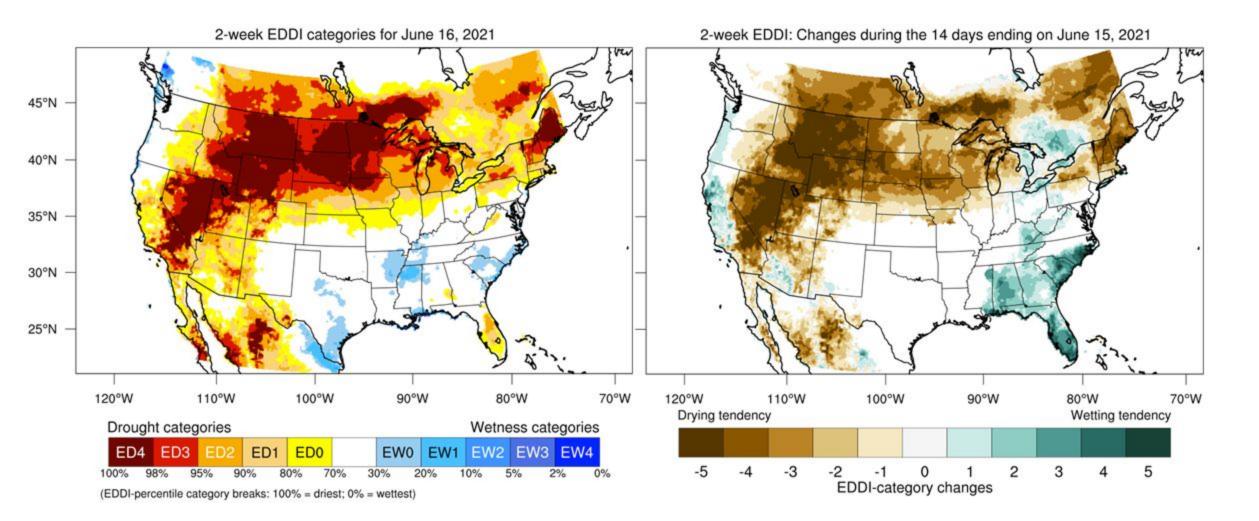
Precipitation Percentiles

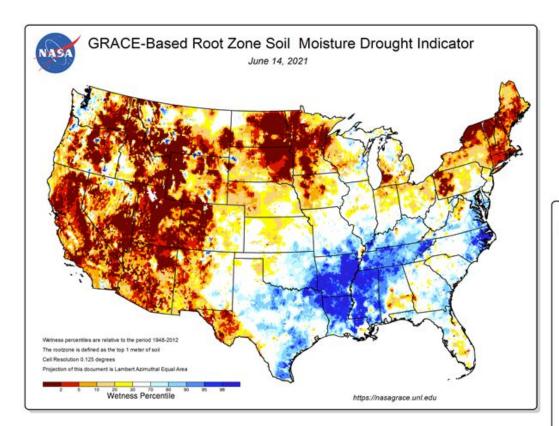


Temperature Percentiles



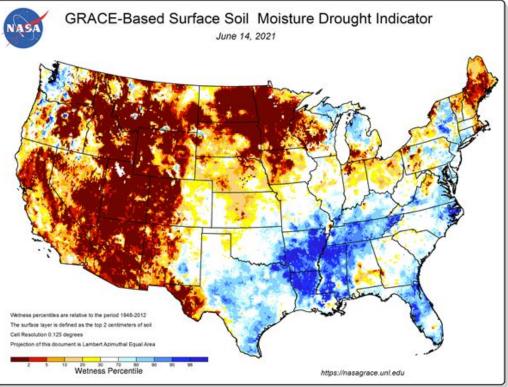
2-Week Evaporative Demand Drought Index



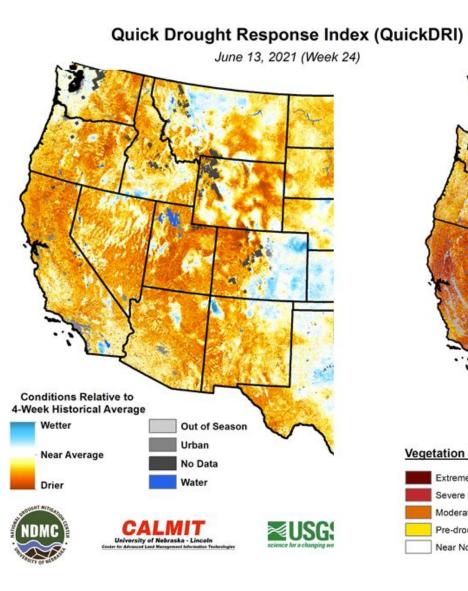


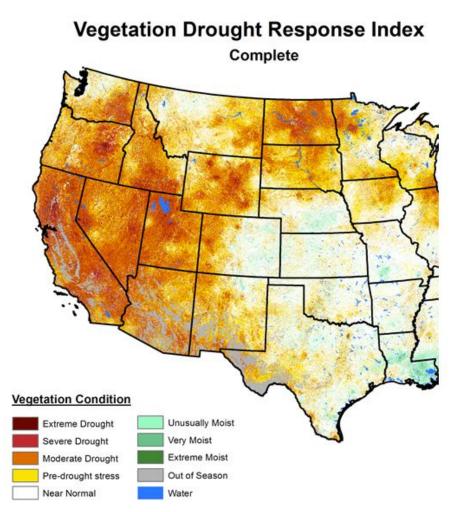
Satellite observations of Soil Moisture

Dry soil moisture conditions remain at unprecedented levels at both surface and root-zone levels.



Drought Indices

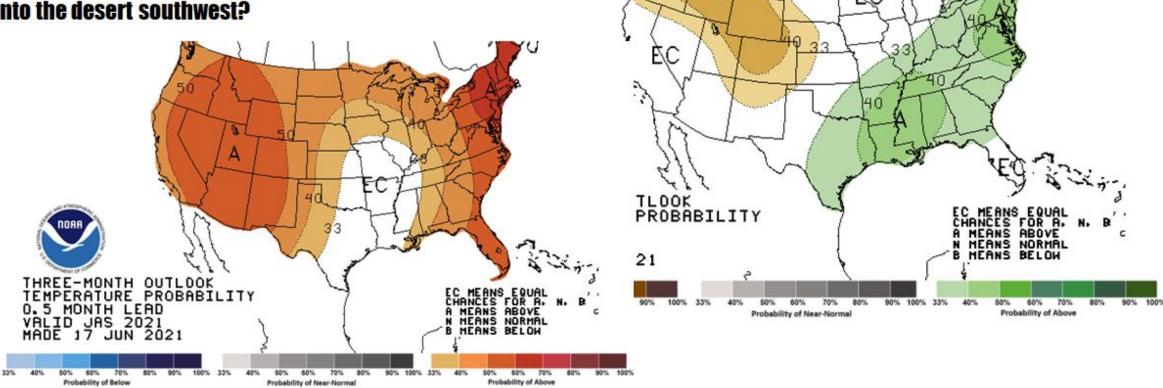




Agency - Utah Climate Center Presenter - Jon Meyer

CPC 3-month (July - Sep) Outlook

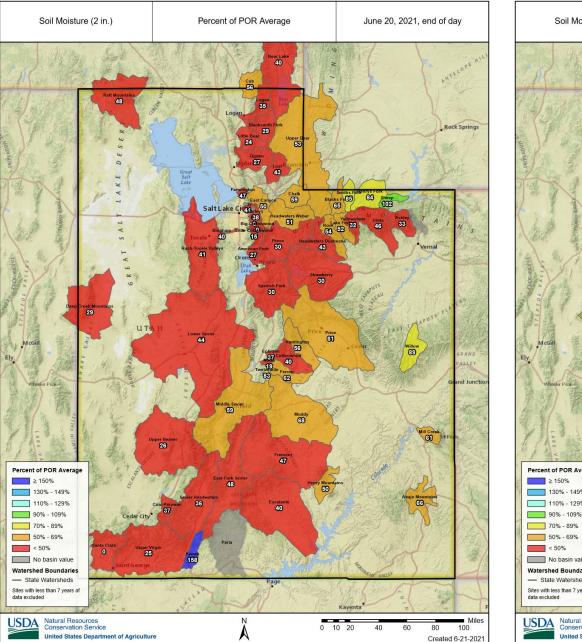
Above-normal summer temperatures remains highly likely, with the northern periphery of the Monsoon region likely seeing lower-than normal precipitation. "Where will the high pressure draw up monsoonal moisture into the desert southwest?

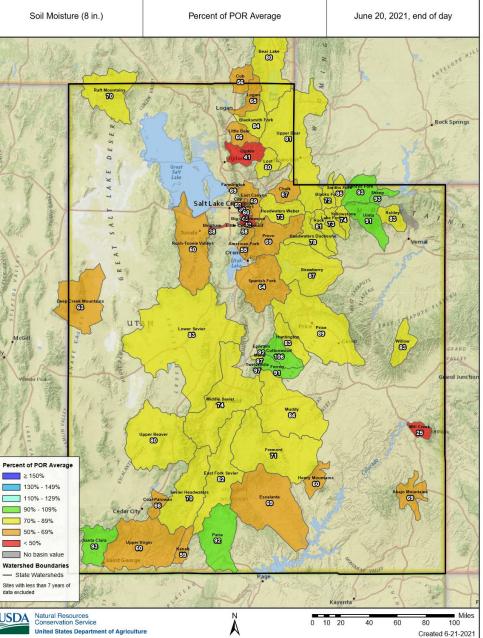


Agency - Utah Climate Center Presenter - Jon Meyer

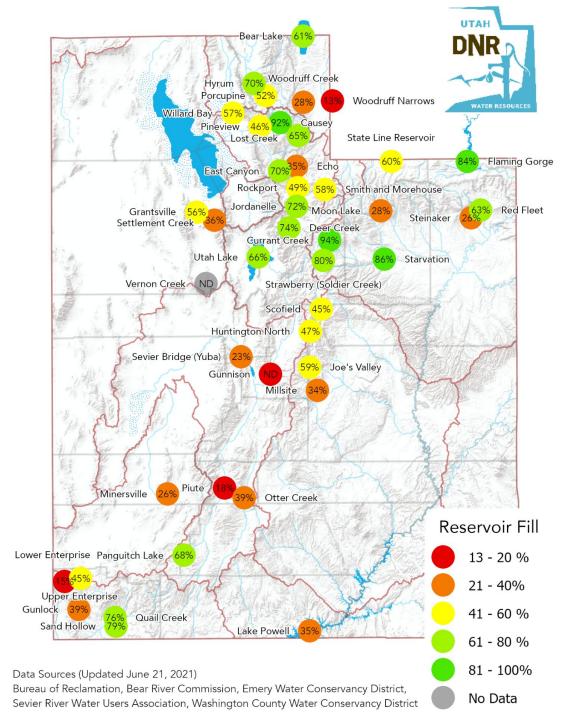
Soil Moisture

2" sensor vs 8" sensor SNOTEL & SCAN



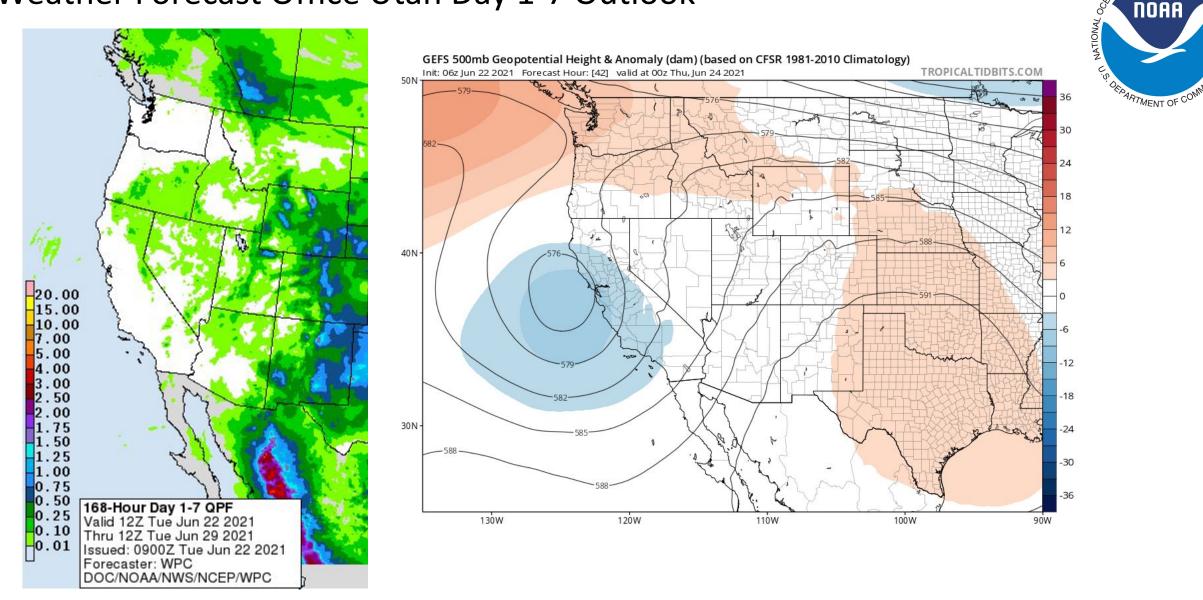


Agency - NRCS Snow Survey



Agency - Division of Water Resources w/ NRCS data Presenter - Laura Haskell

Weather Forecast Office Utah Day 1-7 Outlook



ND ATMOSPHE

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

U.S. Day 3-7 Hazards Outlook

About the Hazards Outlook

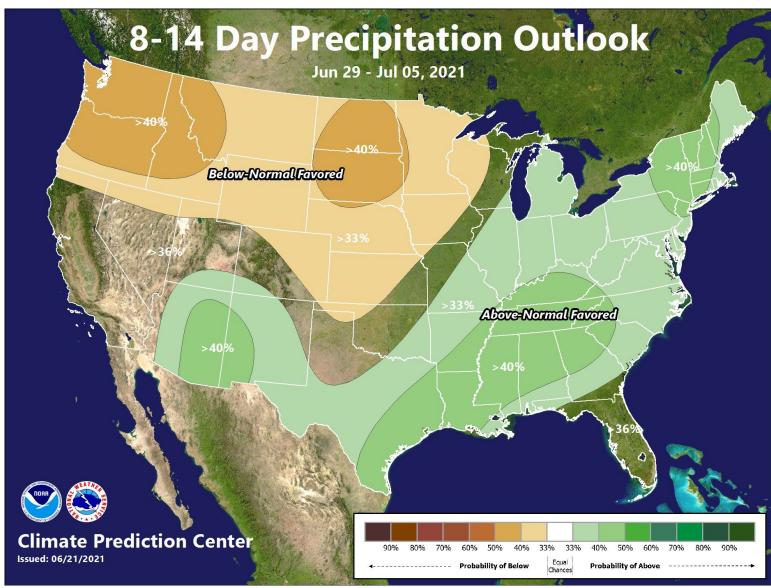
Created June 21, 2021



MINNES + _ Minneapol P GREAT P NEBRASKA UNITED Denver STATES 0 Kan ORADO M Francisco Oklahoma AHOMA Los Angeles Phoenix San Diego Esri, HERE, Garmin, FAO, NOAA, USGS, EPA Tucson

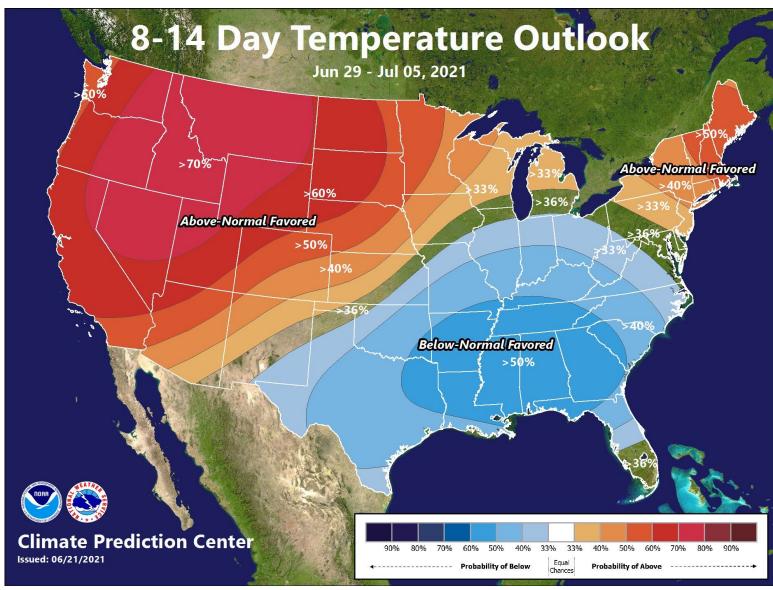


Climate Prediction Center 8 to 14 Day Outlooks - Temperature





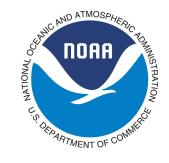
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation







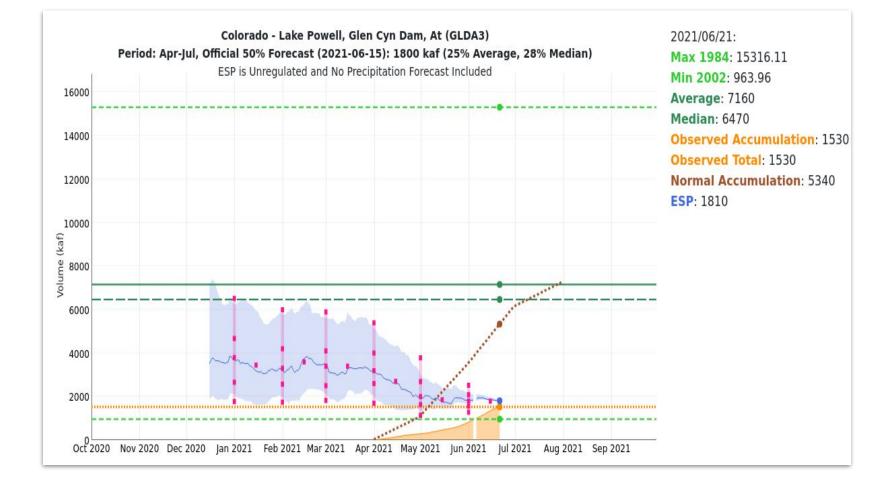
Climate Prediction Center U.S. Week-2 Hazards Outlook



Water Supply Forecasts / Runoff (Percent of Average)

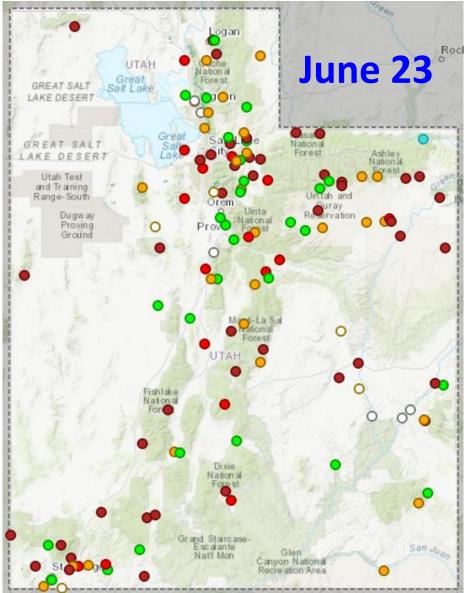
Map of seasonal water supply forecasts April-July Runoff: Summary of conditions at:

Weber 39% 49% Bear Six Creeks 50% Utah Lake 23% Sevier 25% **Green River** 36% San Juan 44% Lake Powell 25%



Agency - CBRFC Presenter - Brent Bernard

Current Streamflow Conditions



Streams: Flow status All-Time Low for this 0th percentile Day (minimum) Much Below Normal <10th percentile 10th – 24th percentile Below Normal Normal 25th – 75th percentile 76th – 90th percentile Above Normal Much Above Normal >90th percentile All-Time High for 100th percentile (maximum) this Day 0 cubic feet per second 🗿 Not Flowing Above NWS Flood See Comments Stage

Streamflow Summary

E

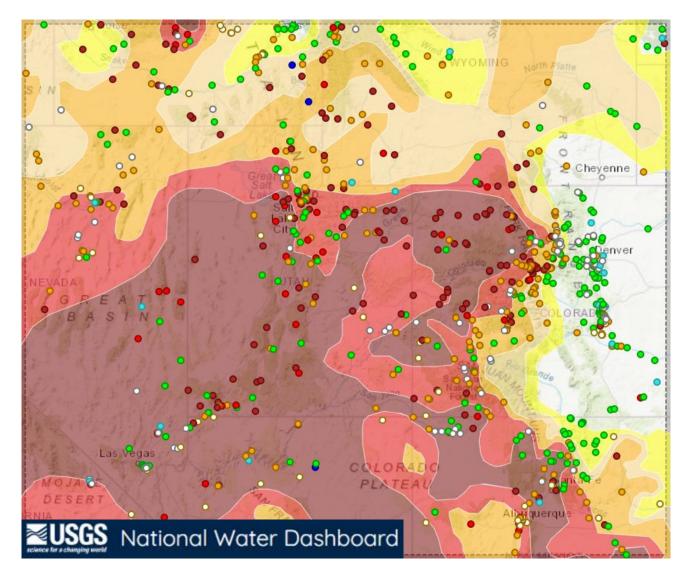
STATION COUNTS BY	FLOW	STATUS	
All-time low for this day-of-year	16	12.0% 💼	
Much below normal for this day-of-year	45	33.8%	
Below normal for this day-of-year	29	21.8%	
Normal for this day-of-year	31	23.3%	
Above normal for this day-of-year	1	0.8%	
Much above normal for this day-of-year	0	0.0%	
All-time high for this day-of-year	0	0.0%	
Not ranked - insufficient record	11	8.3%	



X



Current Streamflow Conditions





Welcome to the National Water Dashboard

OP NAVIGATION EXPLANATION

😂 Layers

Add and remove map layers

Explanation of layers shown

🤹 Tools

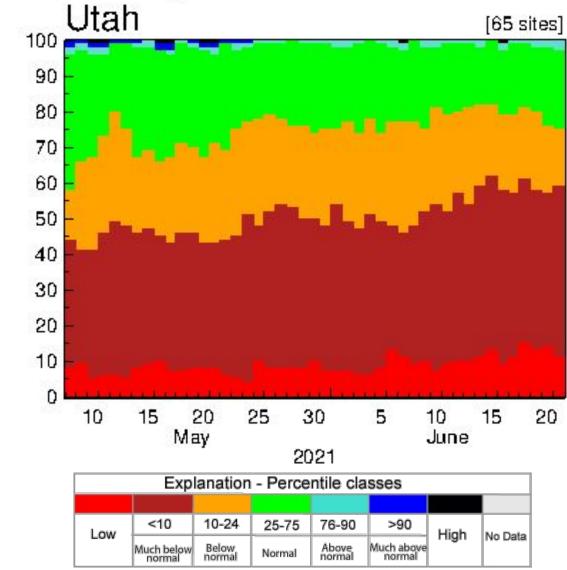
E Legend

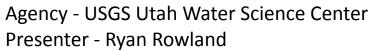
Additional map tools

Current Streamflow Conditions

Last 45 Days

Percentage of streamgages







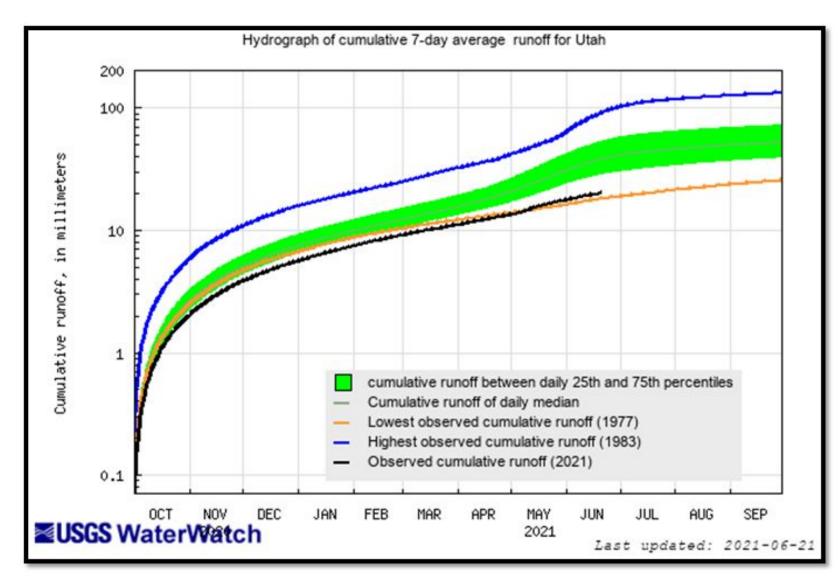
USGS Science in Utah @USGS_UT

Utah is seeing low flows across the state. A **#USGS** <u>#hydrotech</u> recently measured 12.7 cfs on the Little Bear @ Paradise, Utah ow.ly/bvLV50F7MNG. The mean daily average for that day is 165 cfs. Get real time data for many Utah streams and rivers at ow.ly/TSli50F7MNF



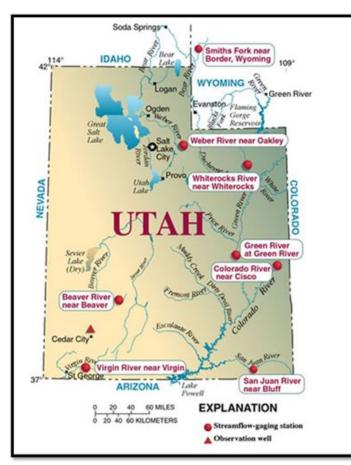
Cumulative Streamflow



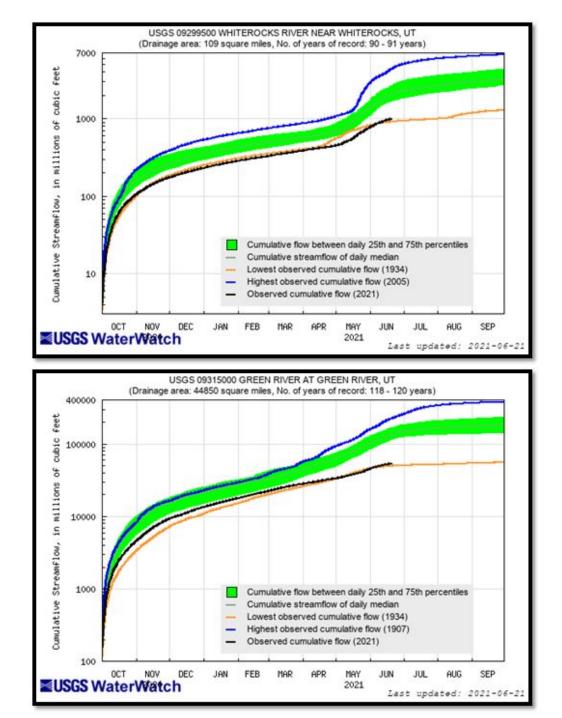


Statewide Cumulative 7-day average runoff for water year 2021 is near the lowest on record

Cumulative Streamflow at Long Term Sites



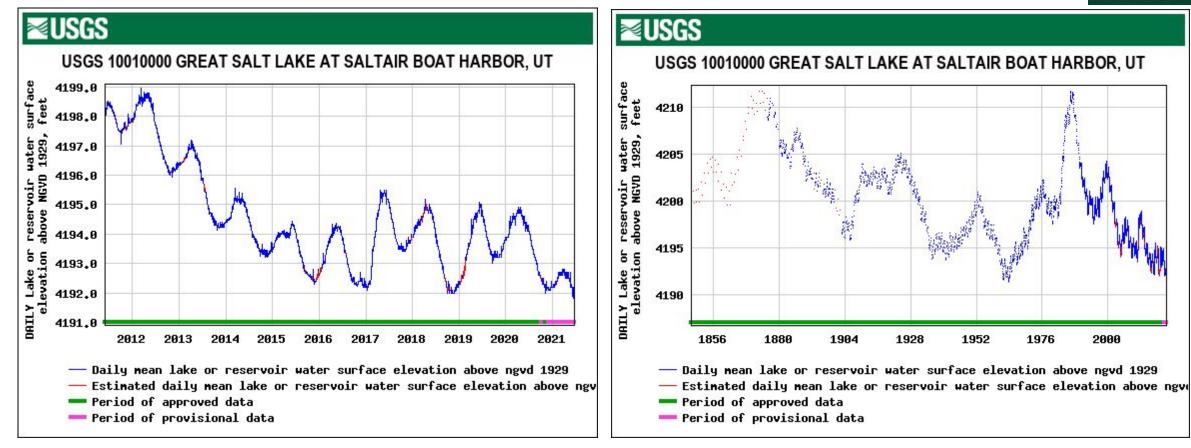
Map from Wilkowske and others, 2003, Drought Conditions in Utah During 1999-2002: A Historical Perspective, USGS Fact Sheet 037-03





Great Salt Lake Water Surface Elevation





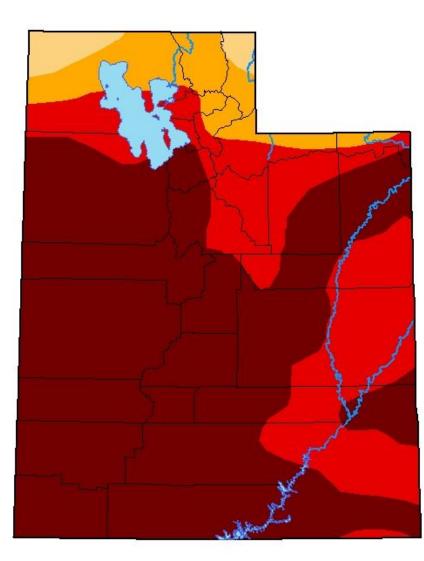
Current elevation: 4,191.8 ft

Period of Record low elevation: 4,191.35 ft (1963)

U.S. Drought Monitor Utah

June 15, 2021 (Released Thursday, Jun. 17, 2021)

Valid 8 a.m. EDT





The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For mor information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

Curtis Riganti National Drought Mitigation Center



droughtmonitor.unl.edu

