



Utah Drought Monitor Webinar

The meeting will begin shortly



Thank you to our contributors

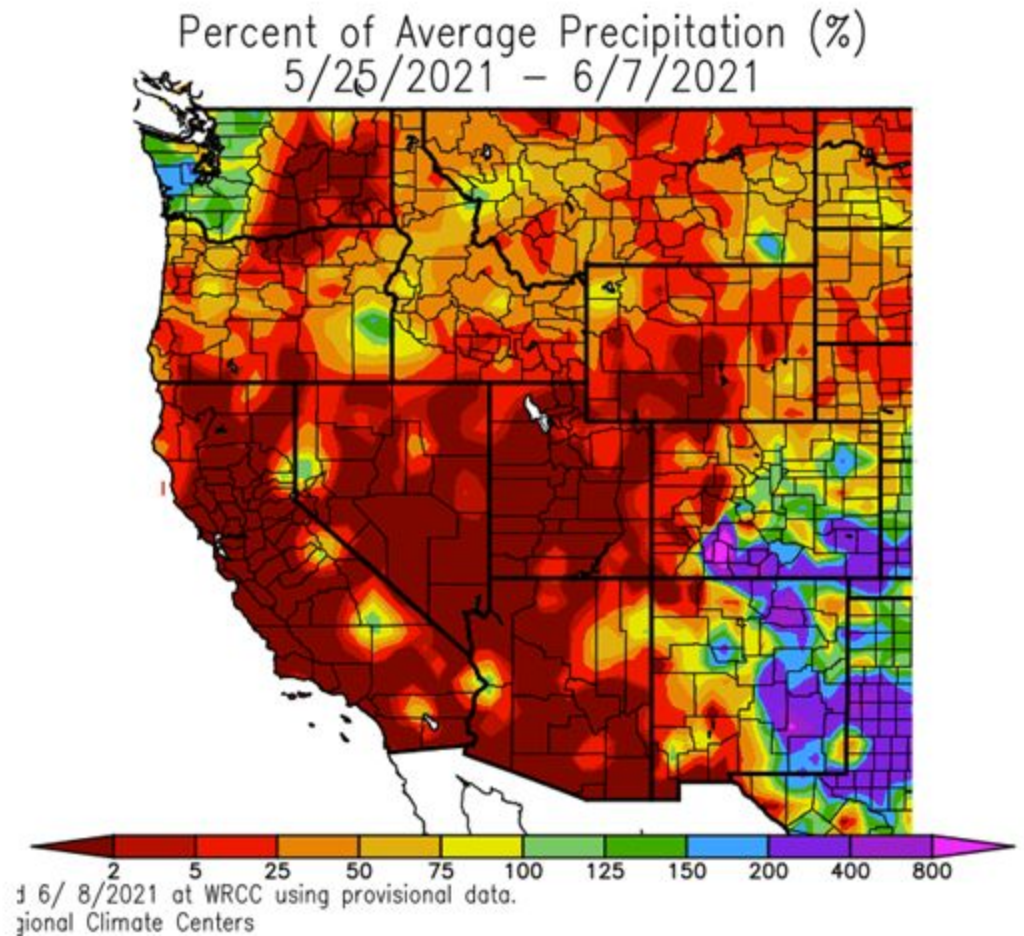
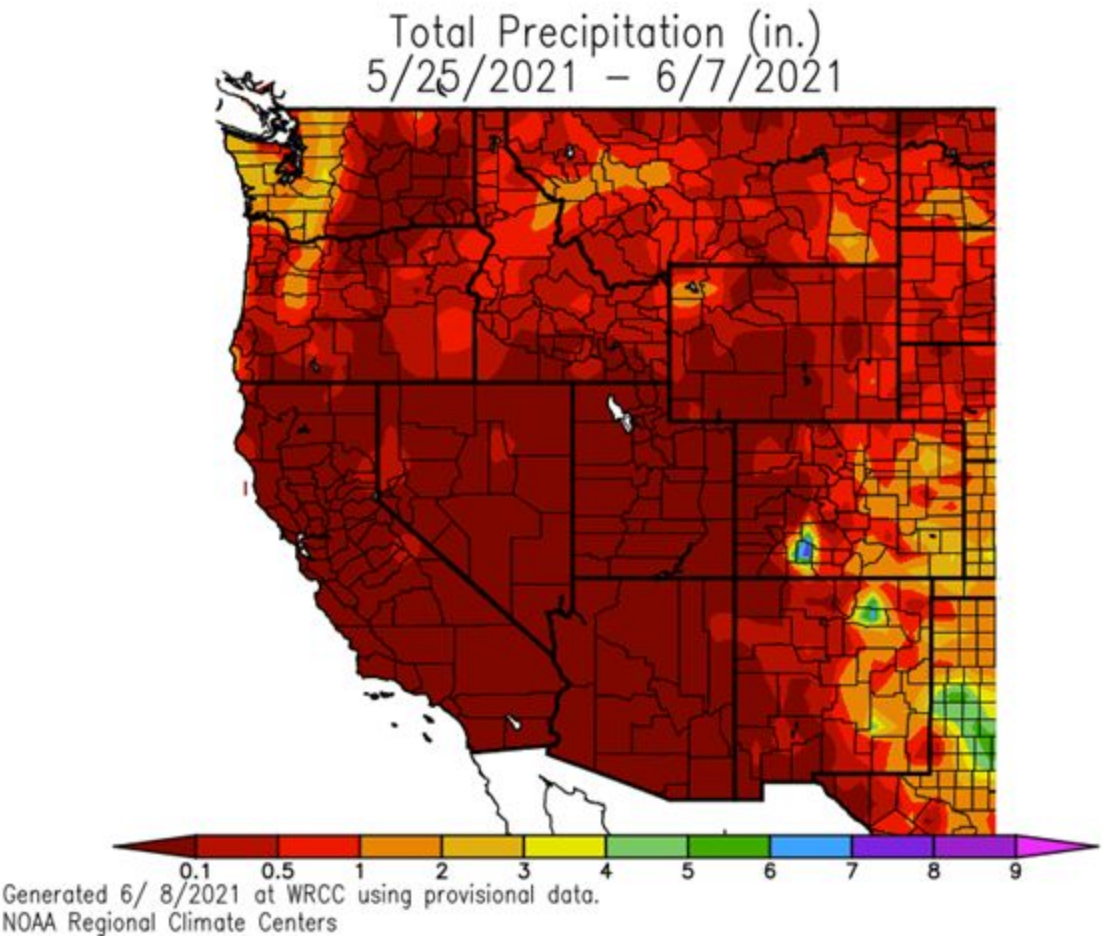




Utah Drought Monitor Webinar

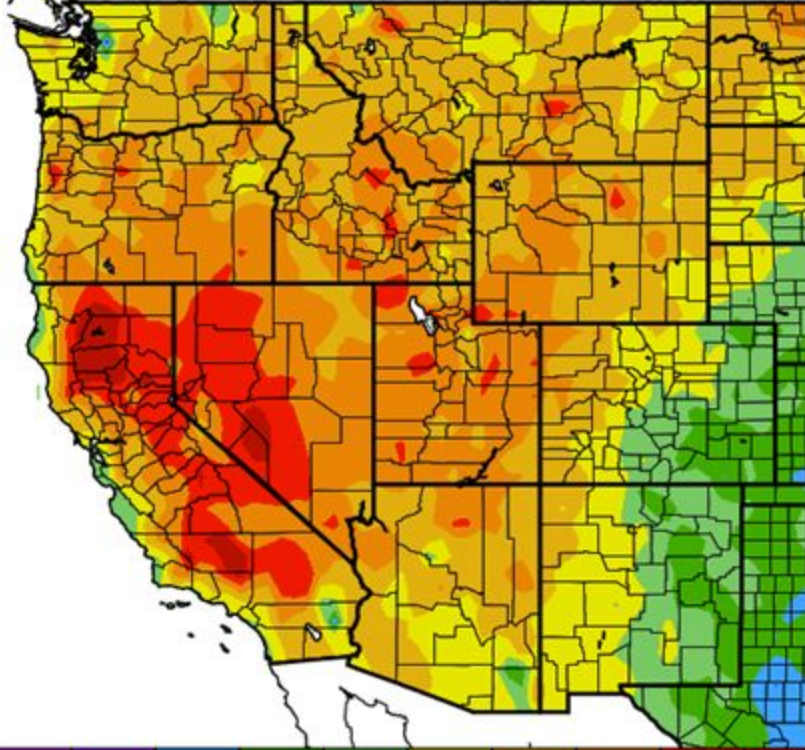
June 8, 2021

Precipitation 14 day history (Percent of Average)



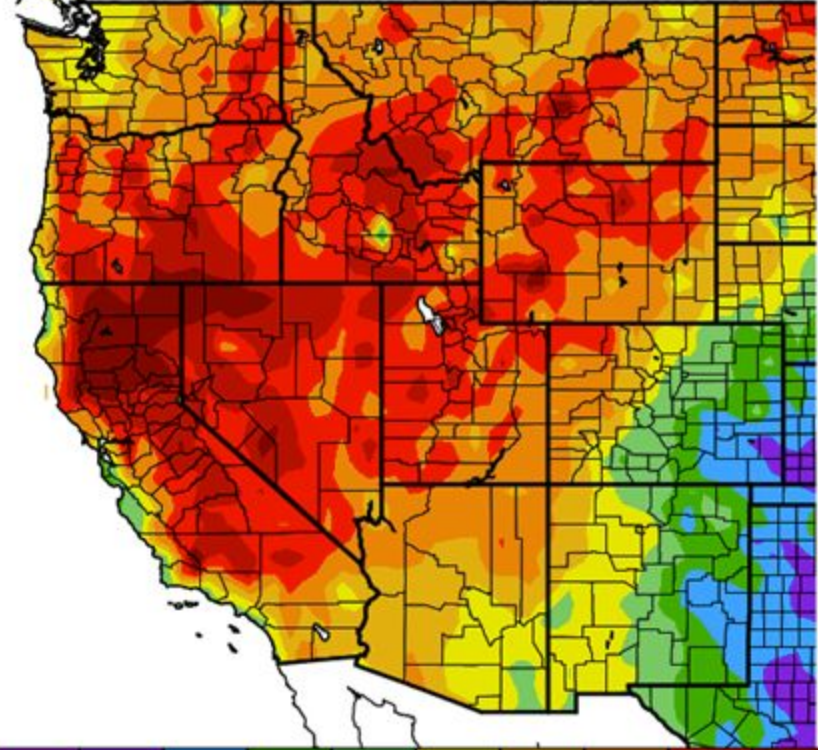
Temperature 14 day (Related to Average)

Ave. Temperature dep from Ave (deg F)
5/25/2021 – 6/7/2021



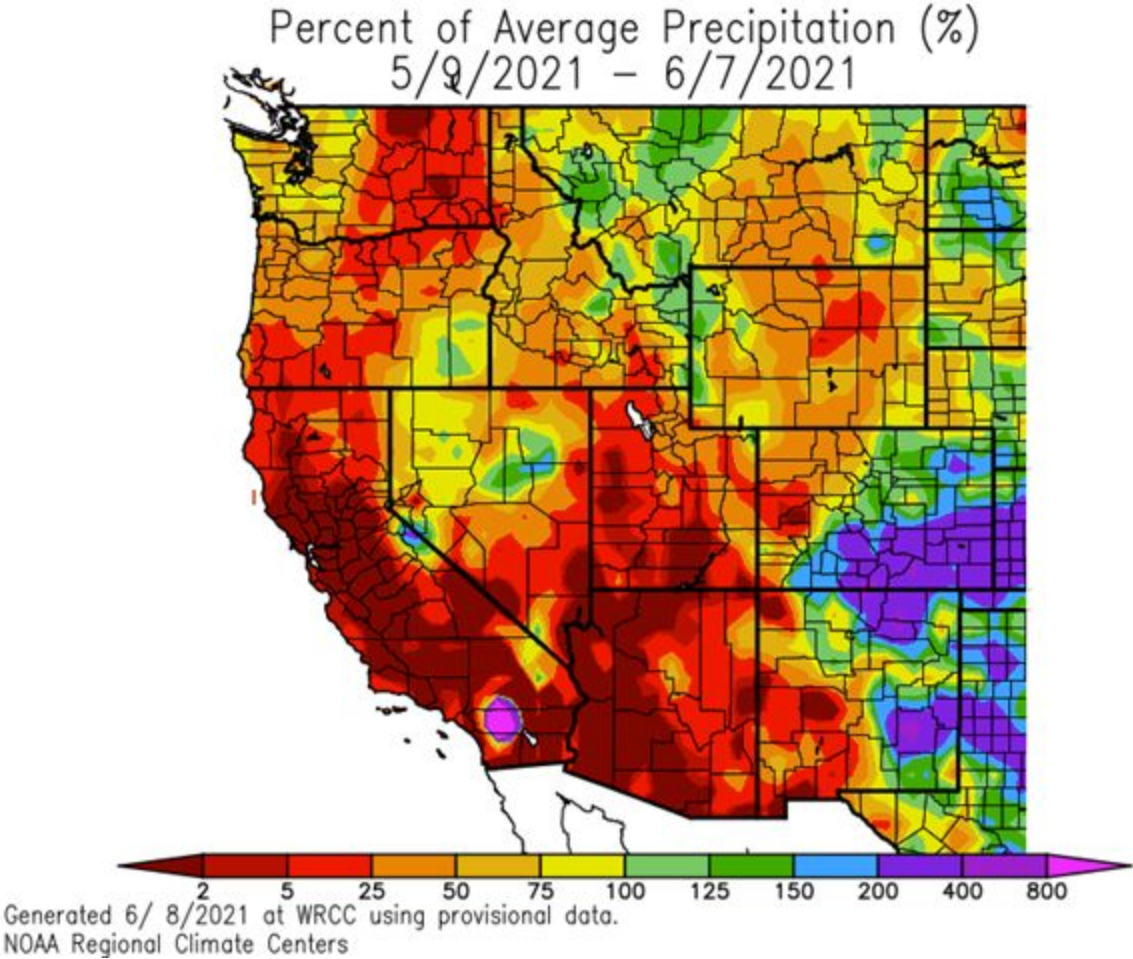
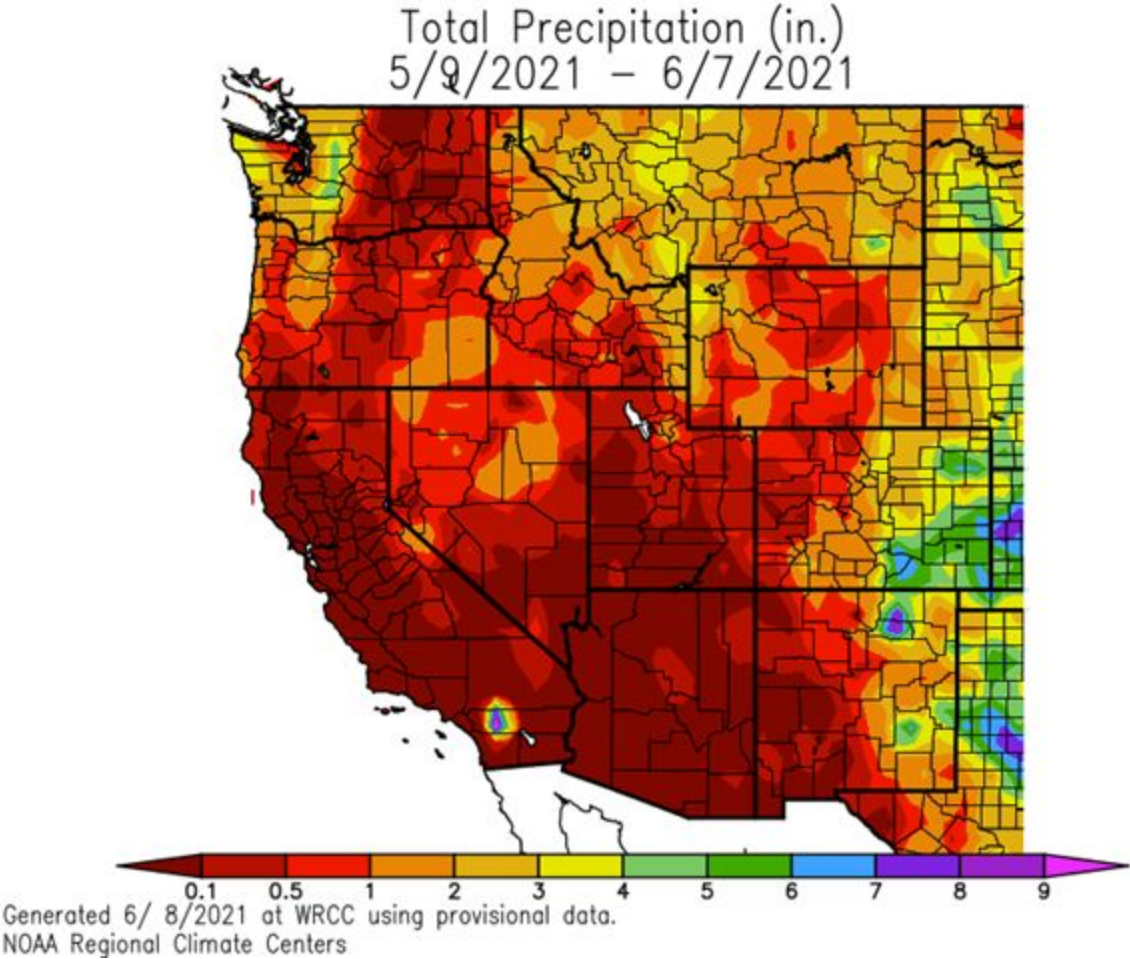
Generated 6/ 8/2021 at WRCC using provisional data.
NOAA Regional Climate Centers

Av. Max. Temperature dep from Ave (deg F)
5/25/2021 – 6/7/2021



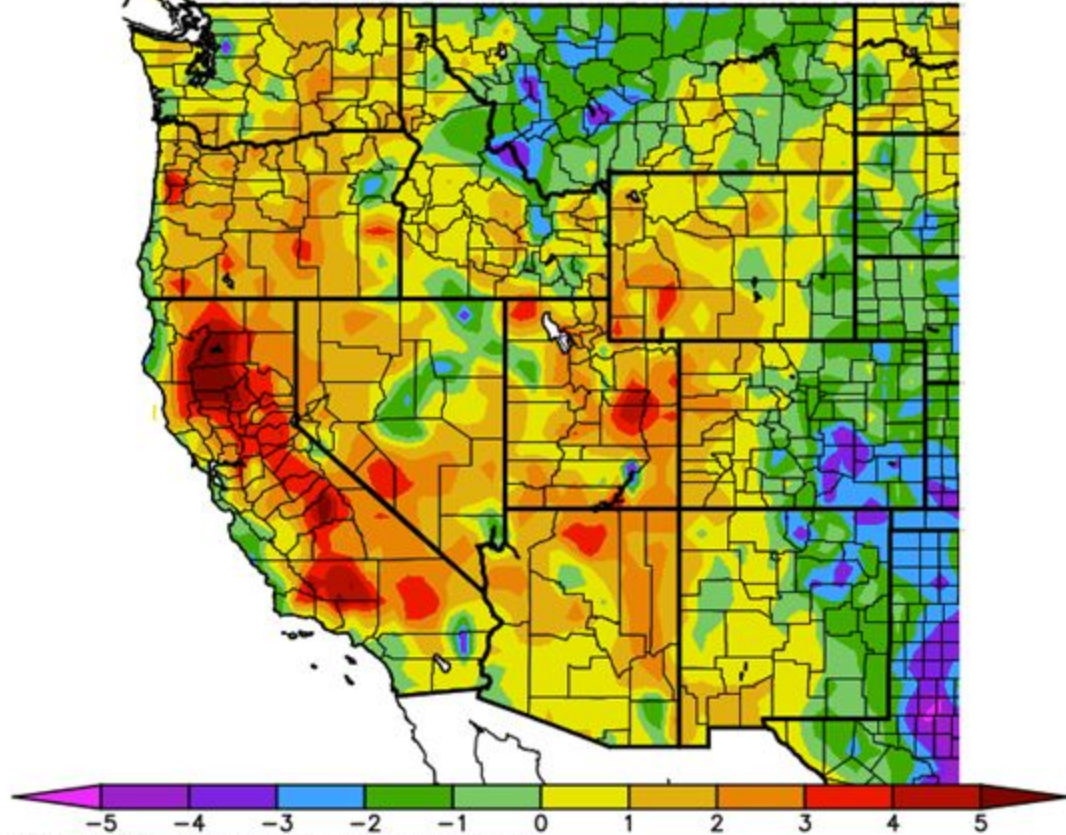
6/ 8/2021 at WRCC using provisional data.
ional Climate Centers

Precipitation 30 day history (Percent of Average)



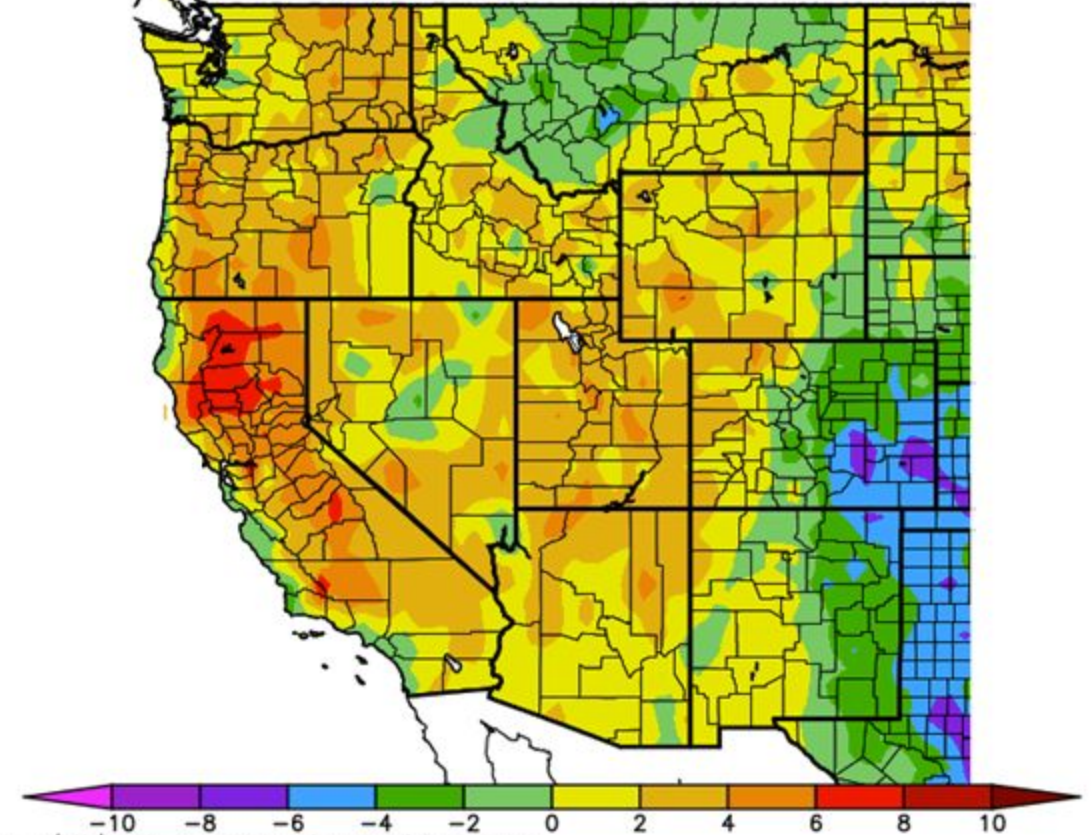
Temperature 30 day (Related to Average)

Ave. Temperature dep from Ave (deg F)
5/9/2021 – 6/7/2021



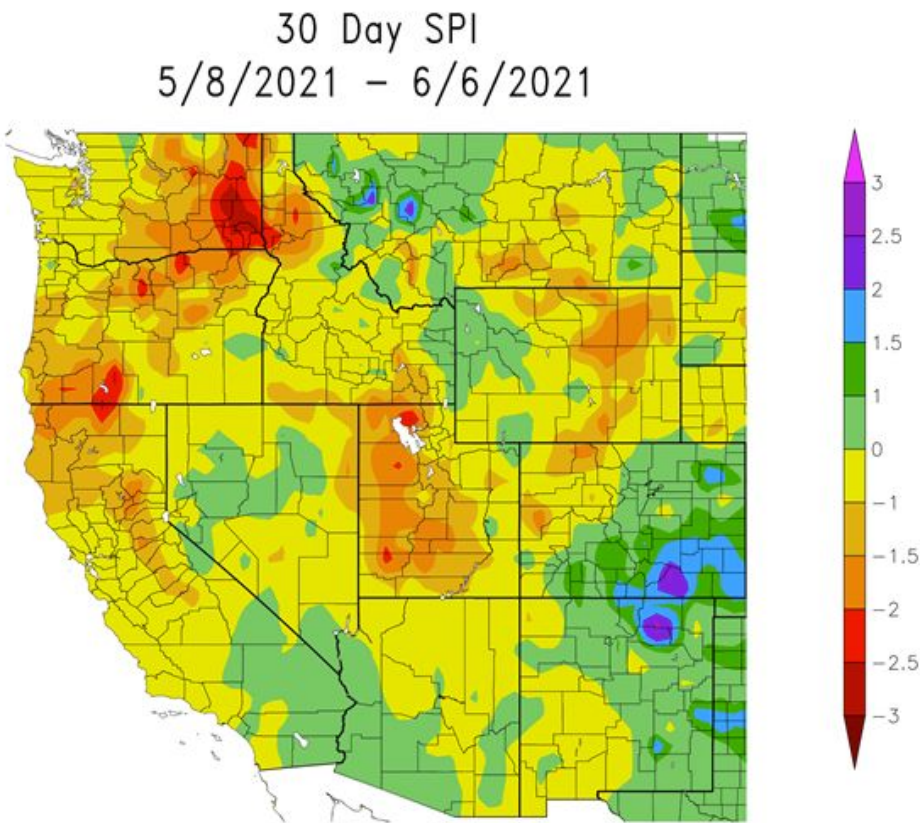
Generated 6/ 8/2021 at WRCC using provisional data.
NOAA Regional Climate Centers

Av. Max. Temperature dep from Ave (deg F)
5/9/2021 – 6/7/2021



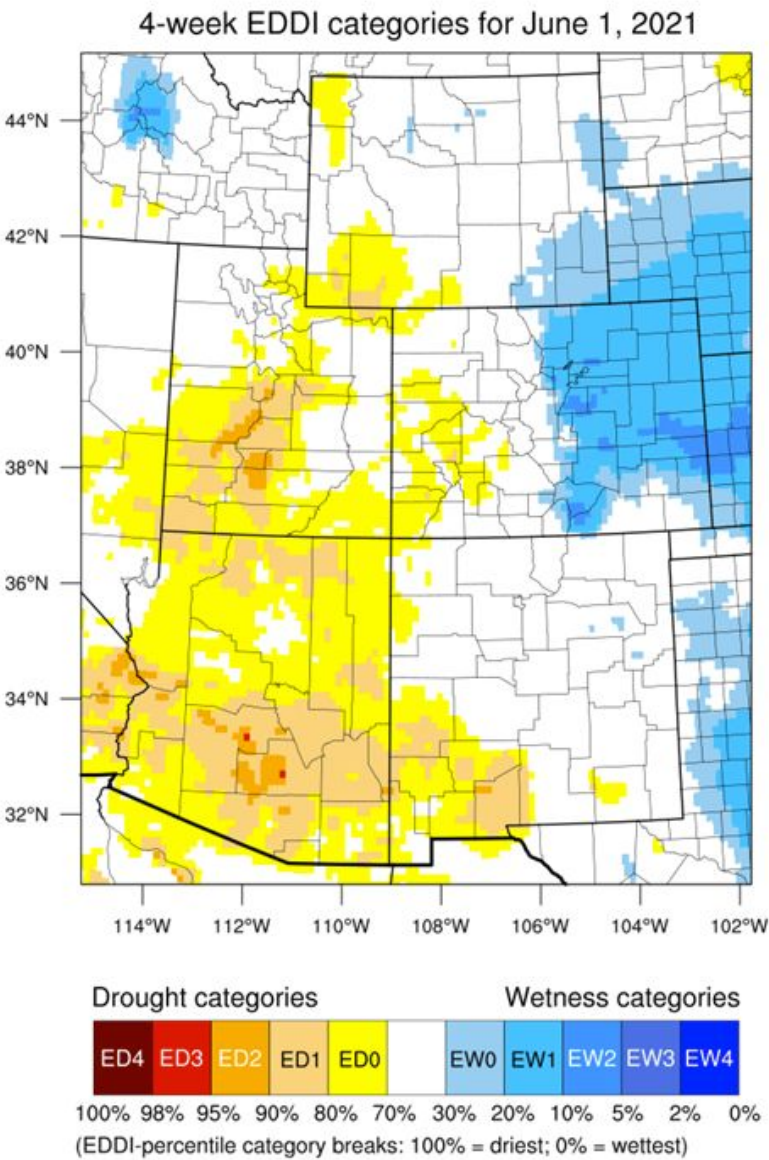
Generated 6/ 8/2021 at WRCC using provisional data.
NOAA Regional Climate Centers

30 Day Standardized Precipitation Index and May's Evaporative Demand Drought Index



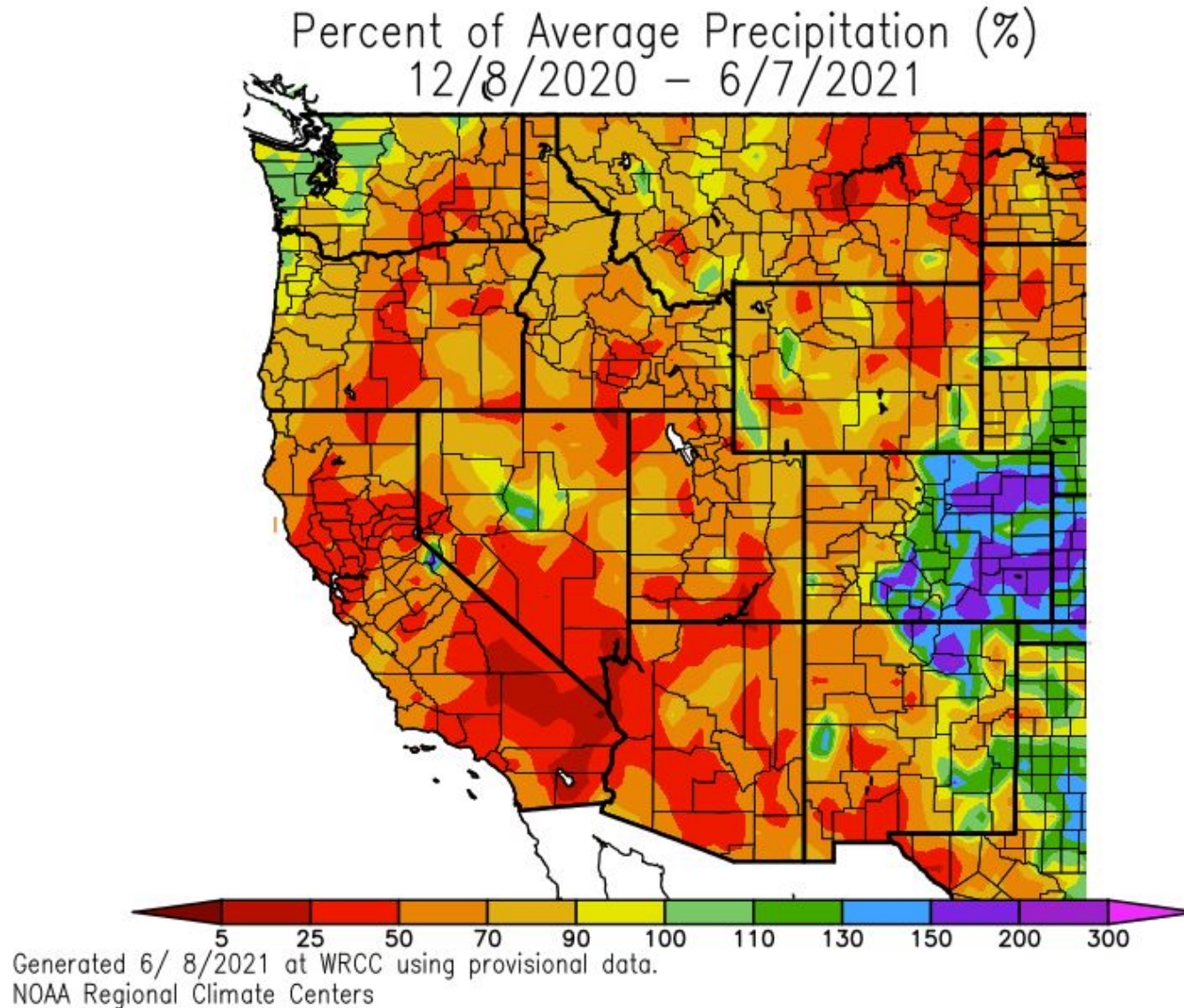
Generated 6/8/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers



Generated by NOAA/ESRL/Physical Sciences Laboratory

Precipitation anomaly over last 6 months



Precipitation & Evapotranspiration

Station Name	Location	Last Updated	ETo inches		ETc inches		Precipitation inches		Irrigation Requirement inches	
			Last 24 hour	Last 7 Days	Last 24 hour	Last 7 Days	Last 24 hour	Last 7 Days	Last 24 hour	Last 7 Days
Logan, UT	Logan	06/08/2021 10:00 am	0.25"	1.71"	0.00"	0.00"	0.00"	0.00"	0.21"	1.39"
Brigham City, UT VWS	Brigham City	06/08/2021 11:00 am	0.30"	1.92"	0.25"	1.56"	0.00"	0.00"	0.25"	1.56"
Randolph, UT VWS	Randolph	06/08/2021 11:00 am	0.29"	1.84"	0.24"	1.49"	0.00"	0.00"	0.24"	1.49"
Weber Basin Water	Layton	06/08/2021 11:00 am	0.26"	1.68"	0.21"	1.36"	0.00"	0.00"	0.21"	1.36"
Morgan, UT VWS	Morgan	06/08/2021 11:00 am	0.30"	1.92"	0.25"	1.55"	0.00"	0.00"	0.25"	1.55"
North Salt Lake, UT VWS	North Salt Lake	06/08/2021 11:00 am	0.32"	1.93"	0.26"	1.56"	0.00"	0.00"	0.26"	1.56"
Park City, UT VWS	Park City	06/08/2021 11:00 am	0.30"	1.83"	0.25"	1.49"	0.00"	0.00"	0.25"	1.49"
Solamere	Park City	06/08/2021 08:15 am	0.23"	1.51"	0.19"	1.22"	0.00"	0.00"	0.19"	1.22"
Tooele, UT VWS	Tooele	06/08/2021 11:00 am	0.35"	2.00"	0.28"	1.62"	0.00"	0.00"	0.28"	1.62"
Jordan Valley WCD	West Jordan	06/08/2021 12:00 am	0.37"	2.06"	0.30"	1.67"	0.00"	0.00"	0.30"	1.67"
Daybreak, UT VWS	South Jordan	06/08/2021 11:00 am	0.36"	2.09"	0.29"	1.70"	0.00"	0.00"	0.29"	1.70"
Provo, UT VWS	Provo	06/08/2021 11:00 am	0.33"	2.06"	0.27"	1.67"	0.00"	0.00"	0.27"	1.67"
Heber City, UT VWS	Heber City	06/08/2021 11:00 am	0.29"	1.84"	0.24"	1.49"	0.00"	0.00"	0.24"	1.49"
Duchesne, UT VWS	Duchesne	06/08/2021 11:00 am	0.31"	2.01"	0.25"	1.63"	0.00"	0.00"	0.25"	1.63"
Vernal, UT VWS	Vernal	06/08/2021 11:00 am	0.31"	1.91"	0.26"	1.55"	0.00"	0.00"	0.26"	1.55"
Manilla, UT VWS	Manilla	06/08/2021 11:00 am	0.30"	1.71"	0.24"	1.39"	0.00"	0.05"	0.24"	1.35"
Nephi, UT VWS	Nephi	06/08/2021 11:00 am	0.30"	1.96"	0.25"	1.59"	0.00"	0.00"	0.25"	1.59"
Delta, UT VWS	Delta	06/08/2021 11:00 am	0.35"	1.98"	0.29"	1.60"	0.00"	0.00"	0.29"	1.60"
Manti, UT VWS	Manti	06/08/2021 11:00 am	0.29"	1.97"	0.23"	1.60"	0.00"	0.00"	0.23"	1.60"
Richfield, UT VWS	Richfield	06/08/2021 11:00 am	0.30"	1.96"	0.25"	1.59"	0.00"	0.00"	0.25"	1.59"
Circleville, UT VWS	Circleville	06/08/2021 11:00 am	0.32"	2.08"	0.26"	1.69"	0.00"	0.00"	0.26"	1.69"
Price, UT VWS	Price	06/08/2021 11:00 am	0.34"	2.15"	0.28"	1.74"	0.00"	0.00"	0.28"	1.74"
Castle Dale, UT VWS	Castle Dale	06/08/2021 11:00 am	0.31"	2.00"	0.25"	1.62"	0.00"	0.00"	0.25"	1.62"
Loa, UT VWS	Loa	06/08/2021 11:00 am	0.29"	1.94"	0.23"	1.57"	0.00"	0.00"	0.23"	1.57"
Escalante, UT VWS	Escalante	06/08/2021 11:00 am	0.29"	2.06"	0.24"	1.67"	0.00"	0.00"	0.24"	1.67"
Moab, UT VWS	Moab	06/08/2021 11:00 am	0.34"	2.04"	0.28"	1.66"	0.00"	0.00"	0.28"	1.66"
Blanding, UT VWS	Blanding	06/08/2021 11:00 am	0.30"	1.96"	0.24"	1.59"	0.00"	0.00"	0.24"	1.59"
Beaver, UT VWS	Beaver	06/08/2021 11:00 am	0.29"	1.95"	0.24"	1.58"	0.00"	0.00"	0.24"	1.58"
Cedar City, UT VWS	Cedar City	06/08/2021 11:00 am	0.33"	2.09"	0.27"	1.69"	0.00"	0.00"	0.27"	1.69"
St. George, UT VWS	St. George	06/08/2021 11:00 am	0.33"	2.38"	0.27"	1.93"	0.00"	0.00"	0.27"	1.93"
Kanab, UT VWS	Kanab	06/08/2021 11:00 am	0.29"	2.00"	0.23"	1.62"	0.00"	0.00"	0.23"	1.62"

VegDri Index

U.S. Vegetation and Drought

[Evaporative Stress Index](#) [VegDRI](#) [Vegetation Health Index](#)

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



Moist Conditions

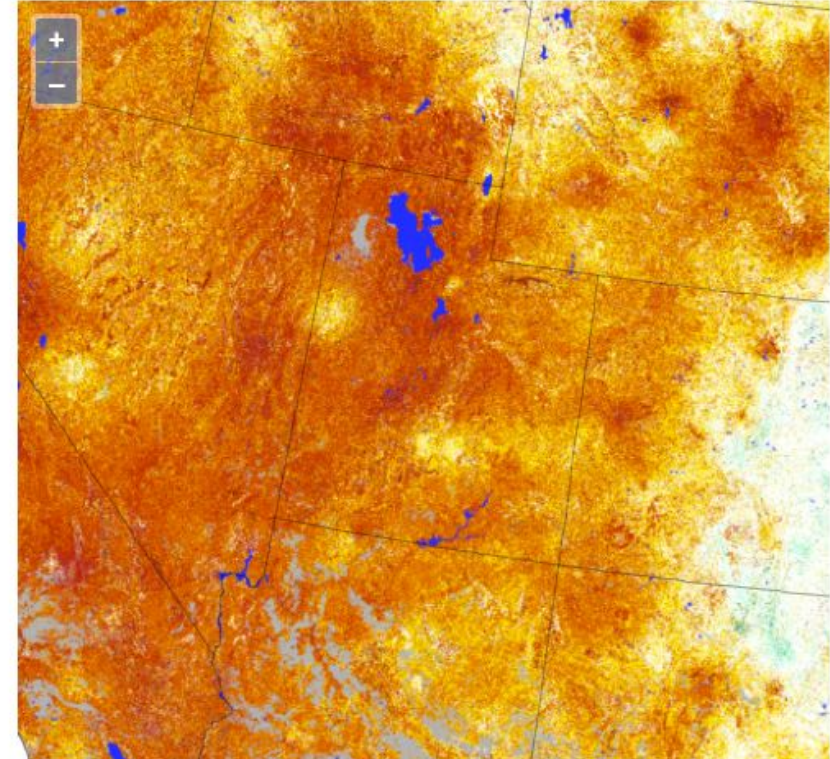


Other Conditions



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

Source(s): [NDMC](#), [USGS](#), [HPRCC](#)



Updates Weekly - 06/08/21

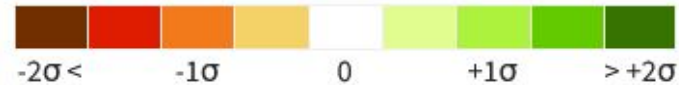
Evaporative Stress Index

U.S. Vegetation and Drought

[Evaporative Stress Index](#) [VegDRI](#) [Vegetation Health Index](#)

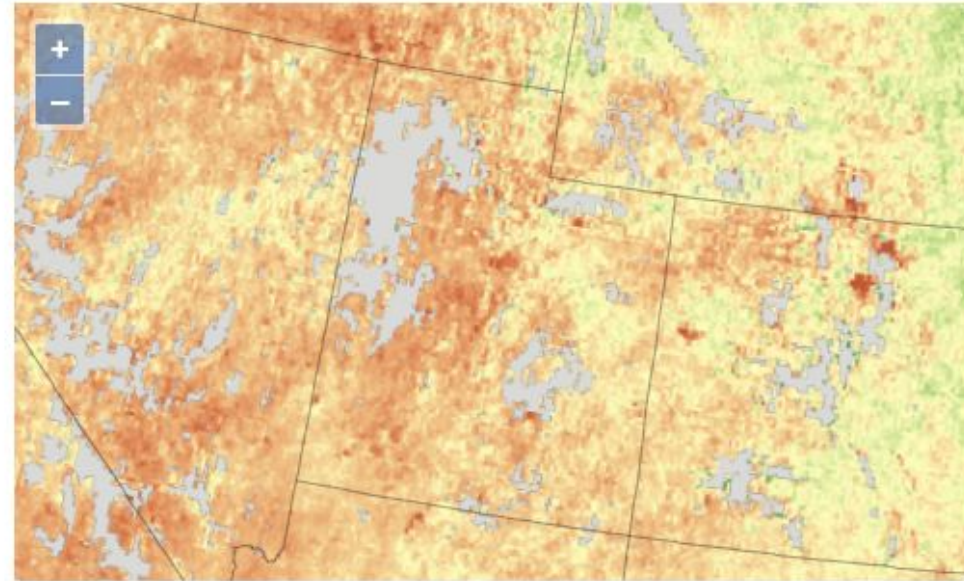
The Evaporative Stress Index (ESI) describes temporal anomalies in evapotranspiration (ET), highlighting areas with anomalously high or low rates of water use across the land surface. The ESI also demonstrates capability for capturing early signals of "flash drought," brought on by extended periods of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

Standardized ET/PET Anomalies



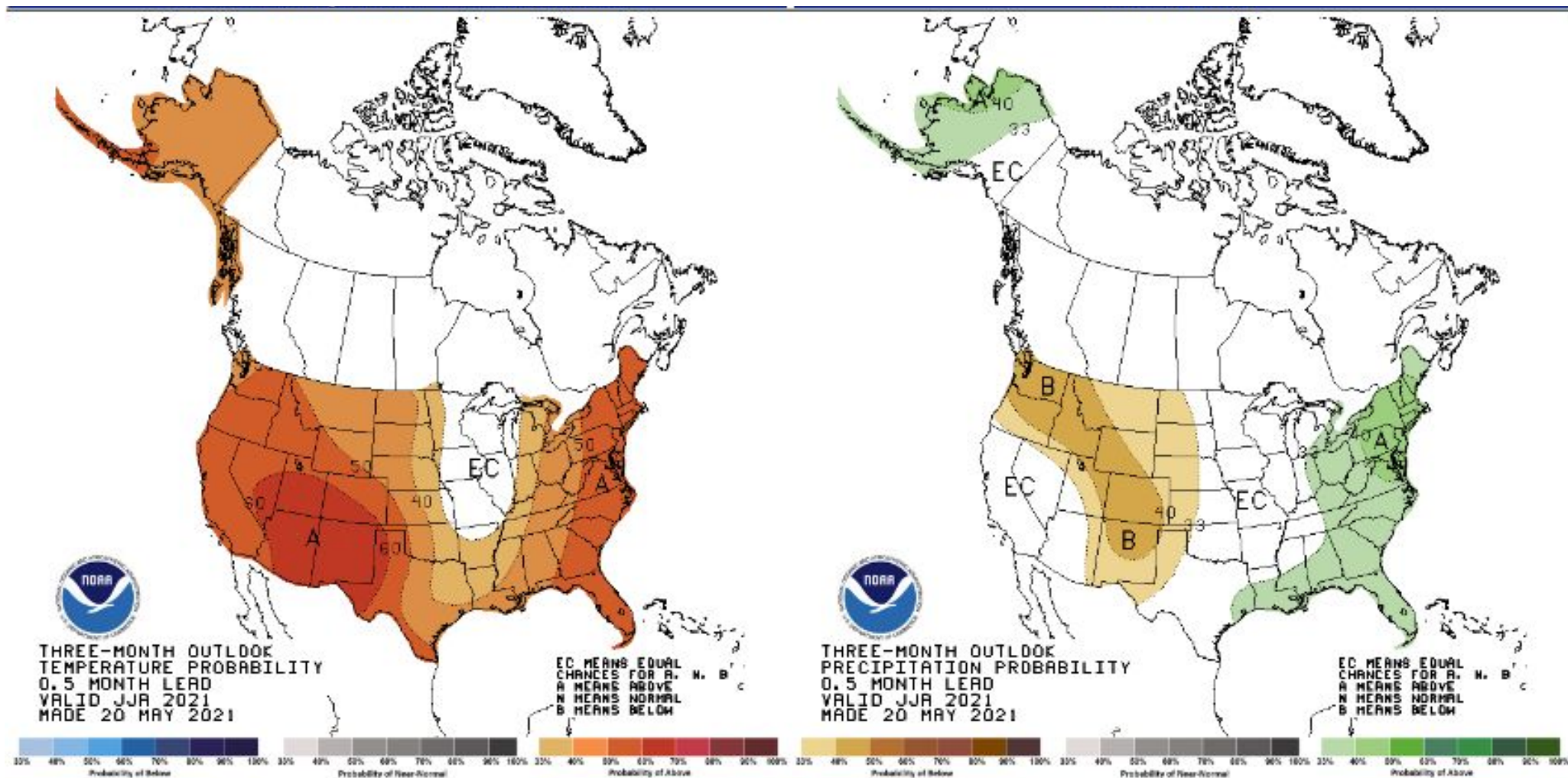
*Currently, data are only available for the contiguous U.S.

Source(s): [NASA SERVIR](#)

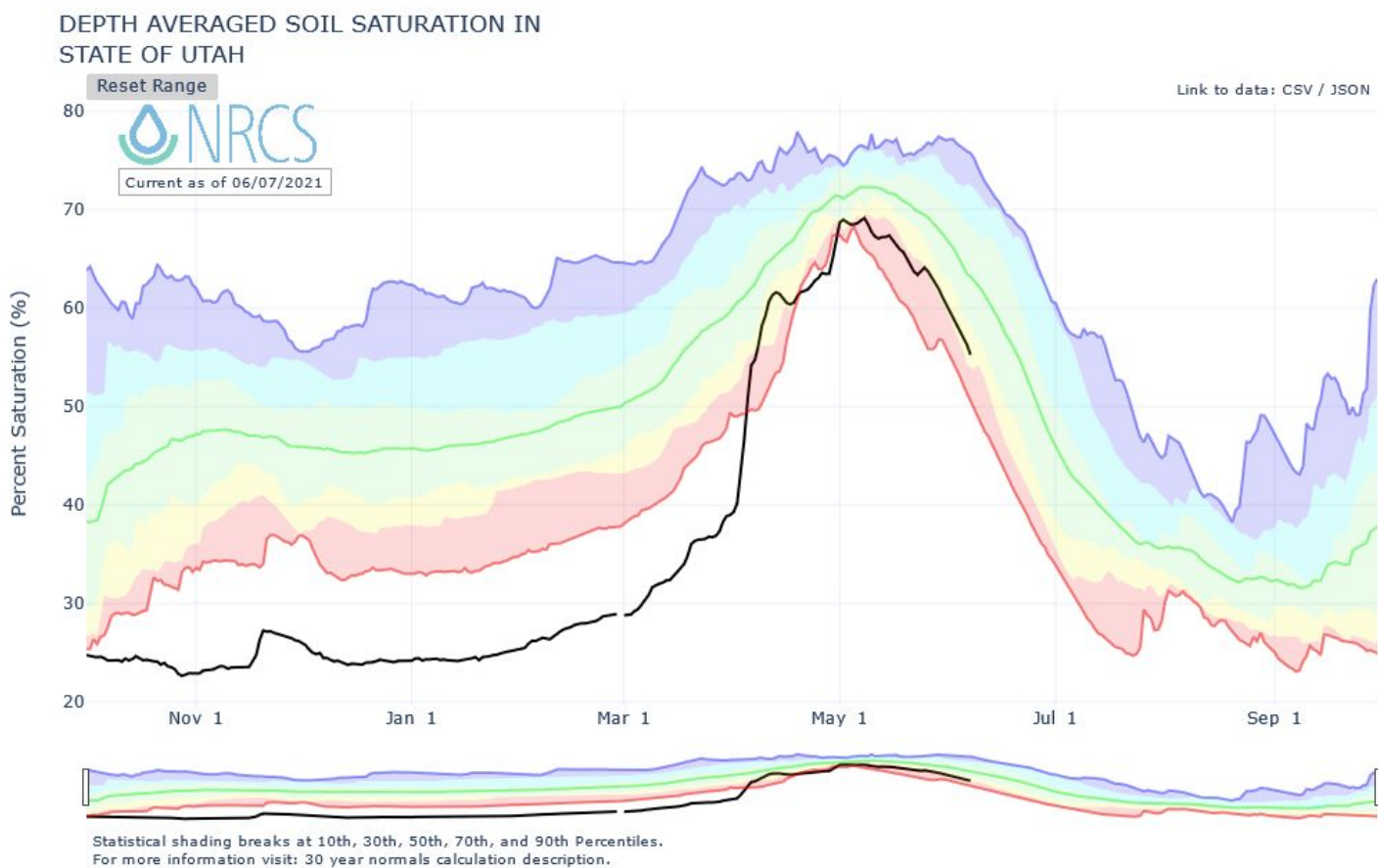


Last Updated - 06/08/21

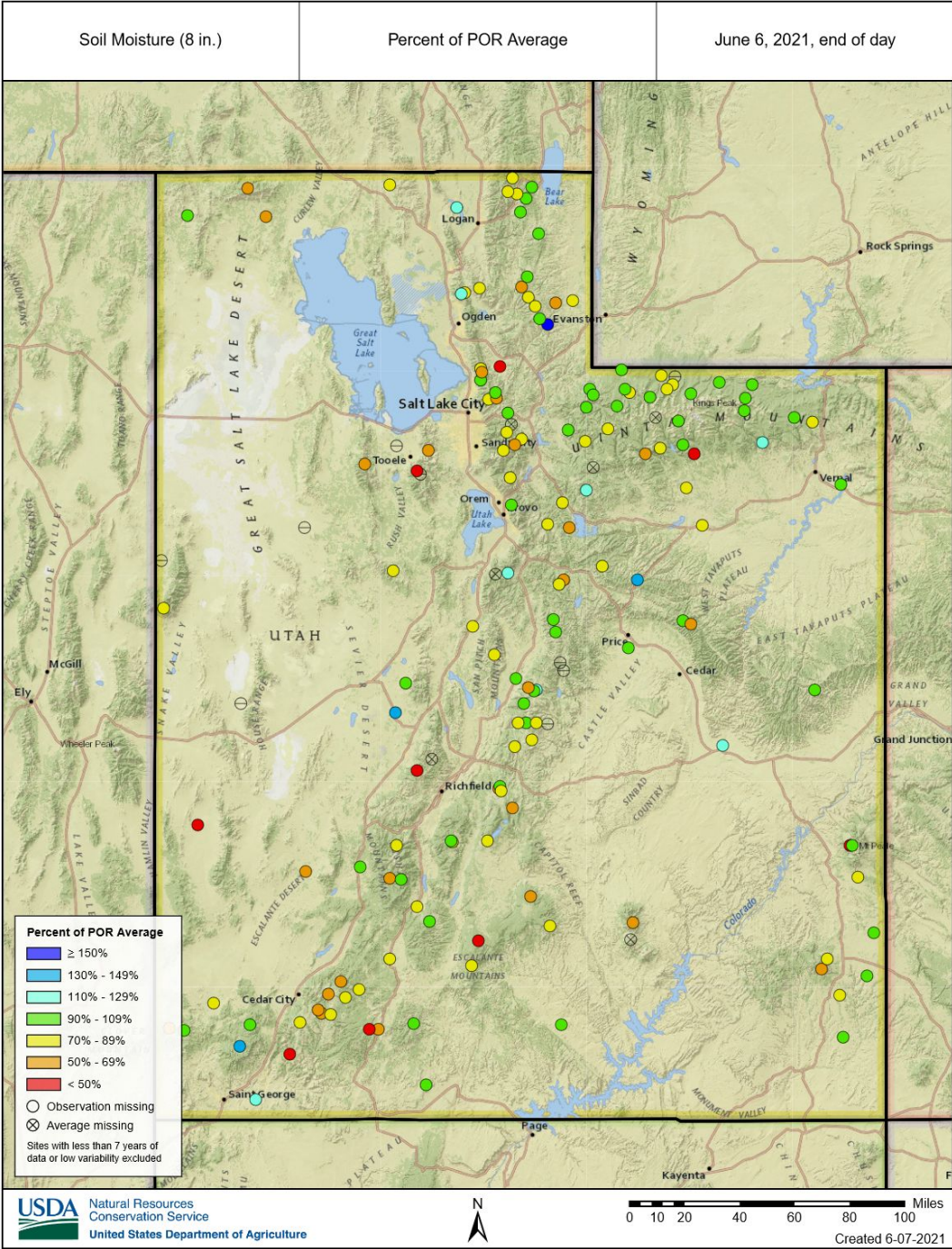
June-Aug Outlook



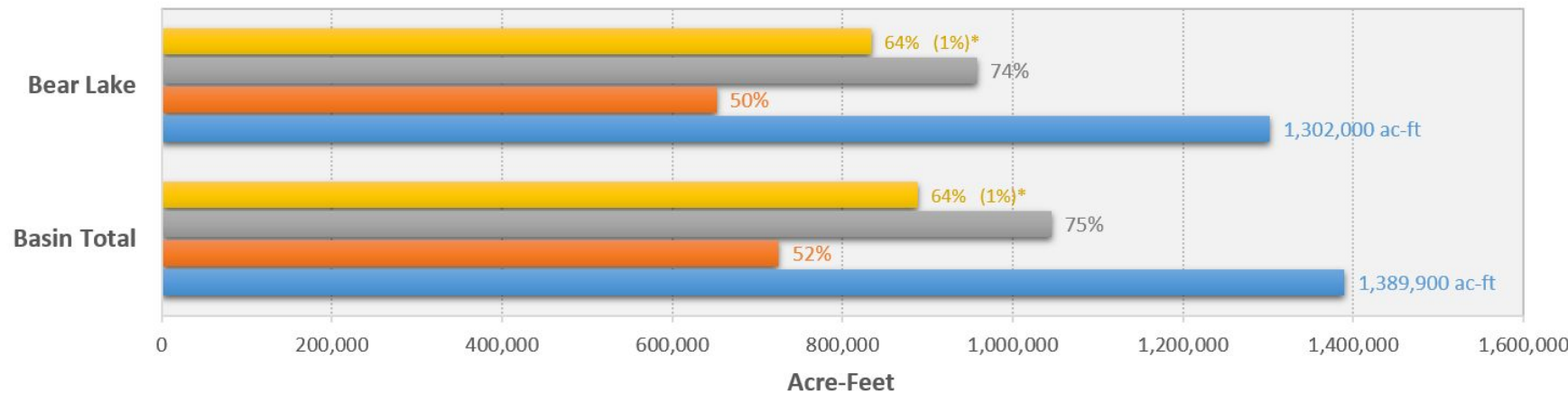
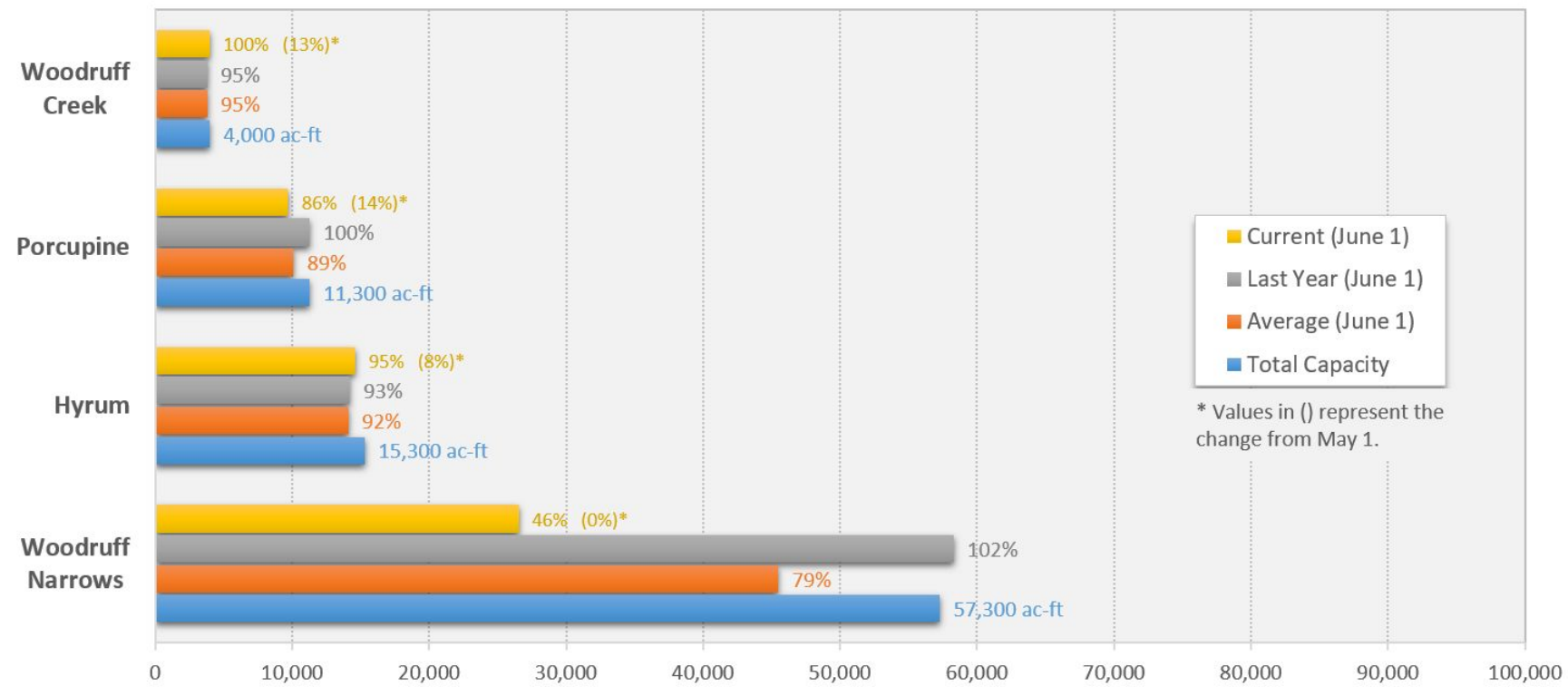
Soil Moisture



Agency - NRCS Snow Survey
Presenter - Jordan Clayton



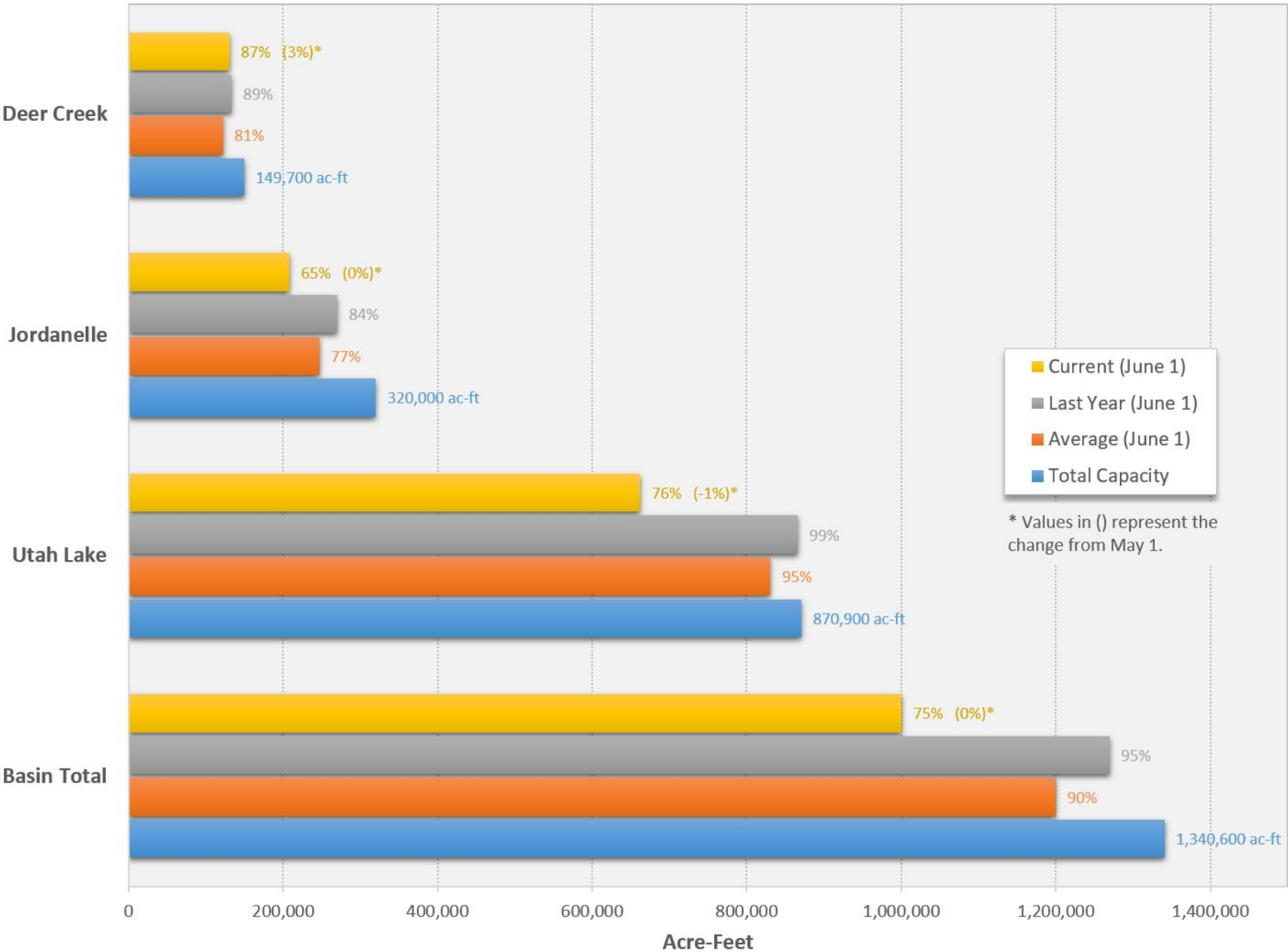
Bear River Basin Reservoir Storage (June 1)



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



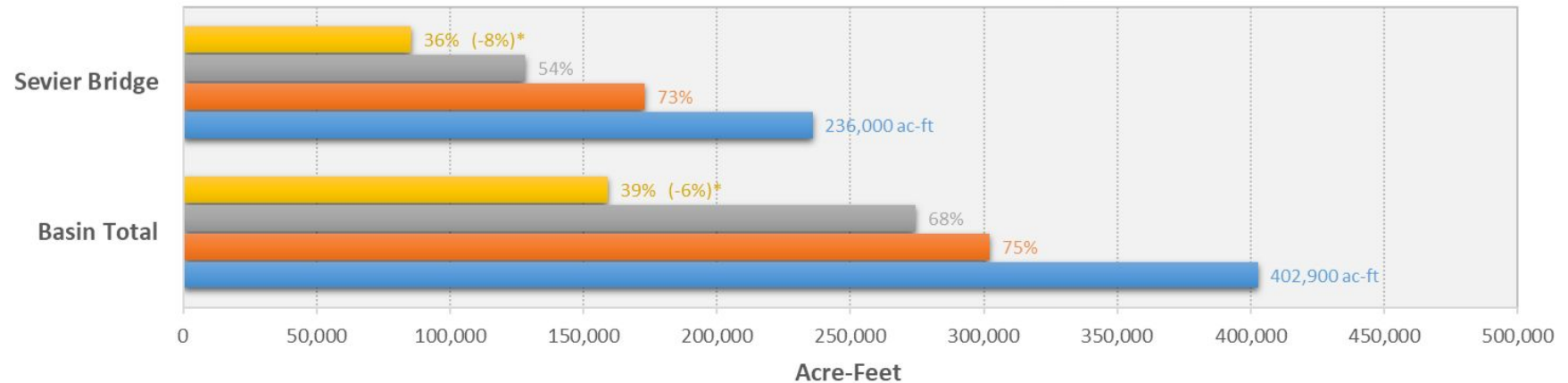
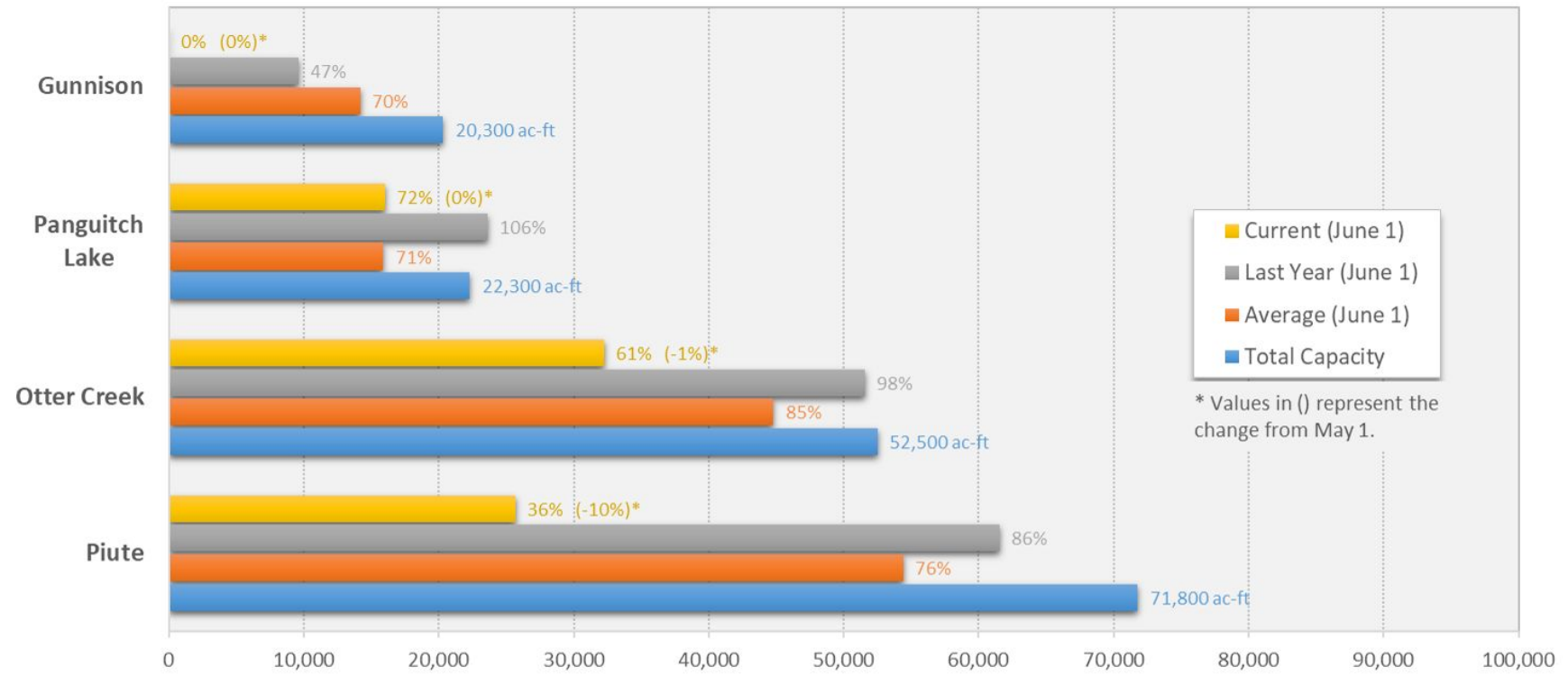
Utah Lake Basin Reservoir Storage (June 1)



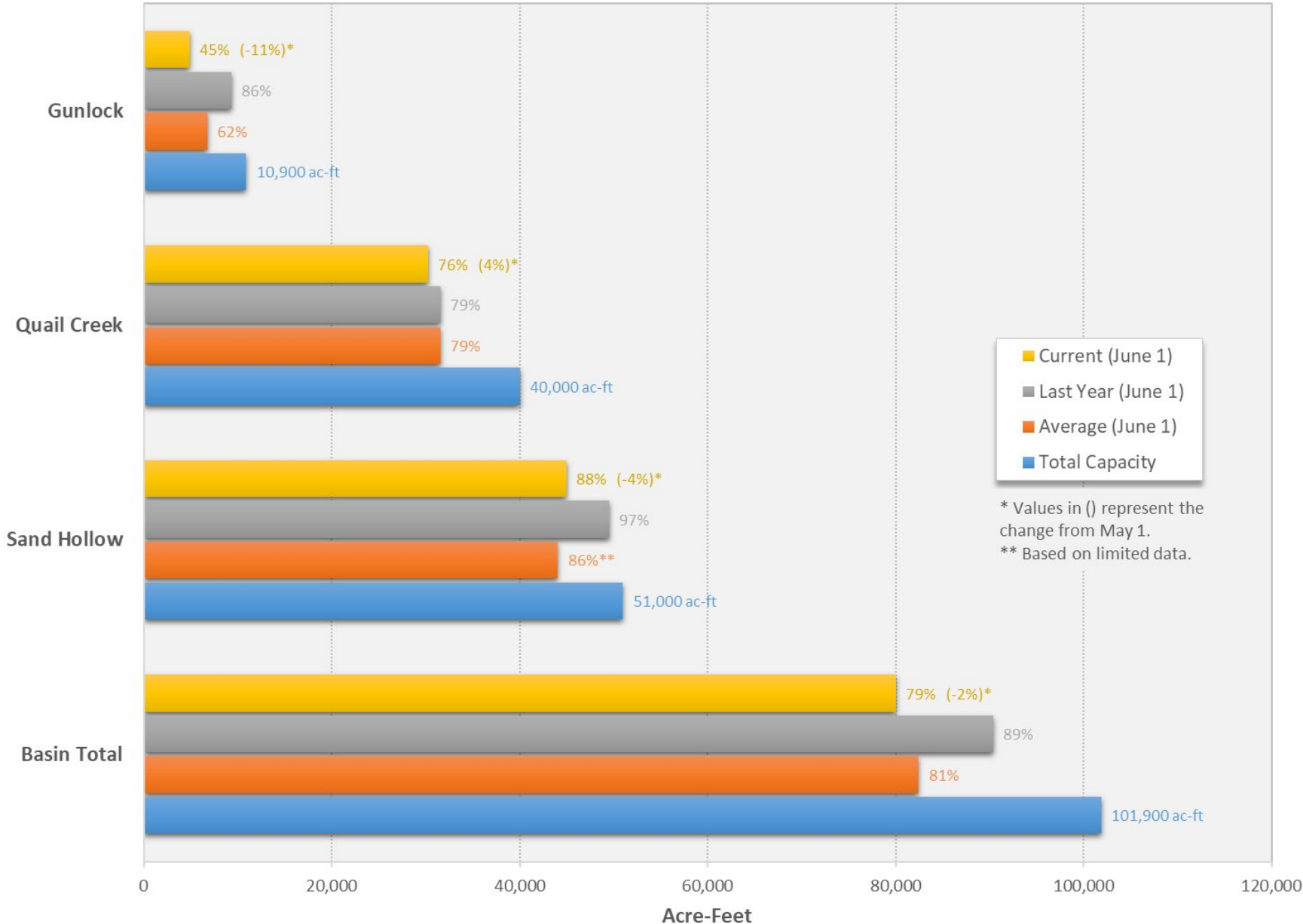
Agency - Division of Water
Resources w/ NRCS data
Presenter - Laura Haskell



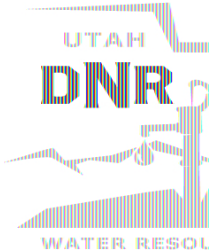
Sevier River Basin Reservoir Storage (June 1)



Virgin River Basin Reservoir Storage (June 1)



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

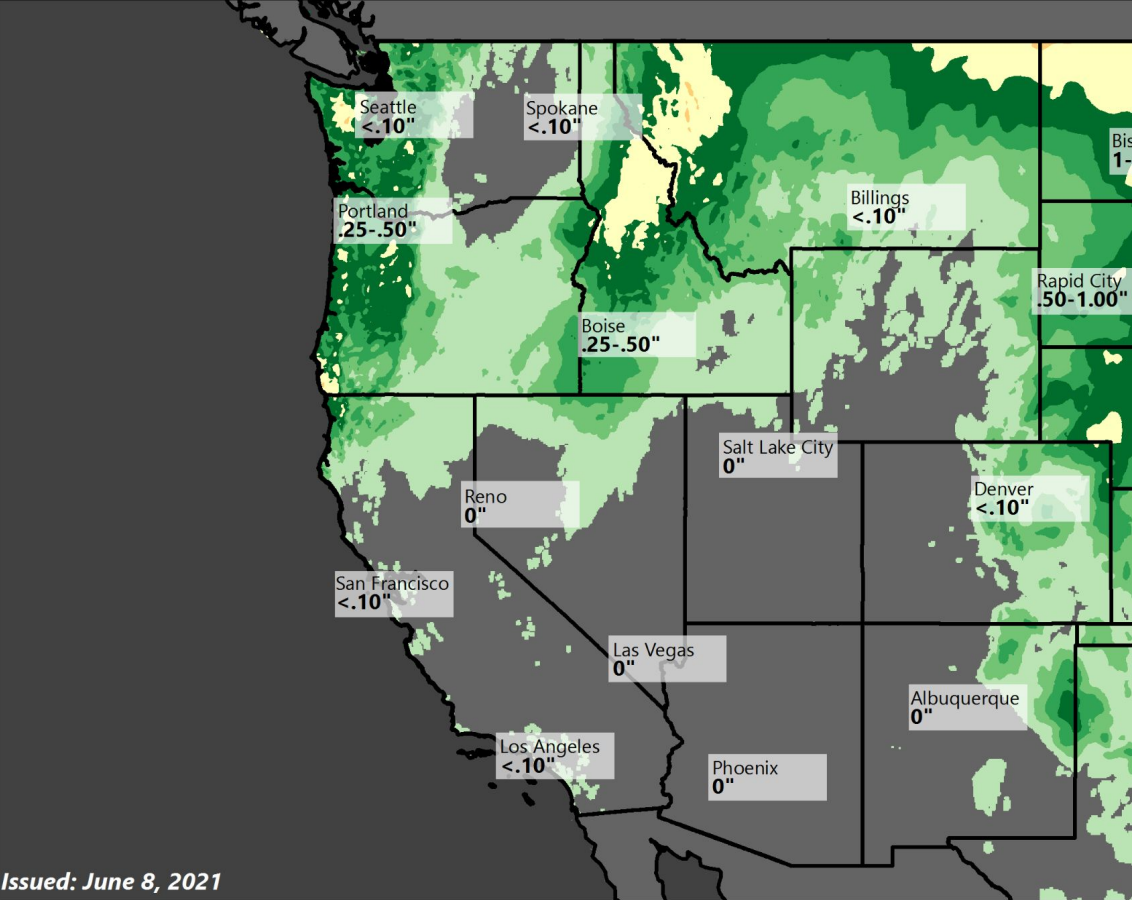
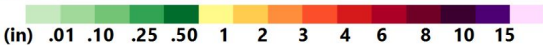


Weather Forecast Office Utah Day 1-7 Outlook

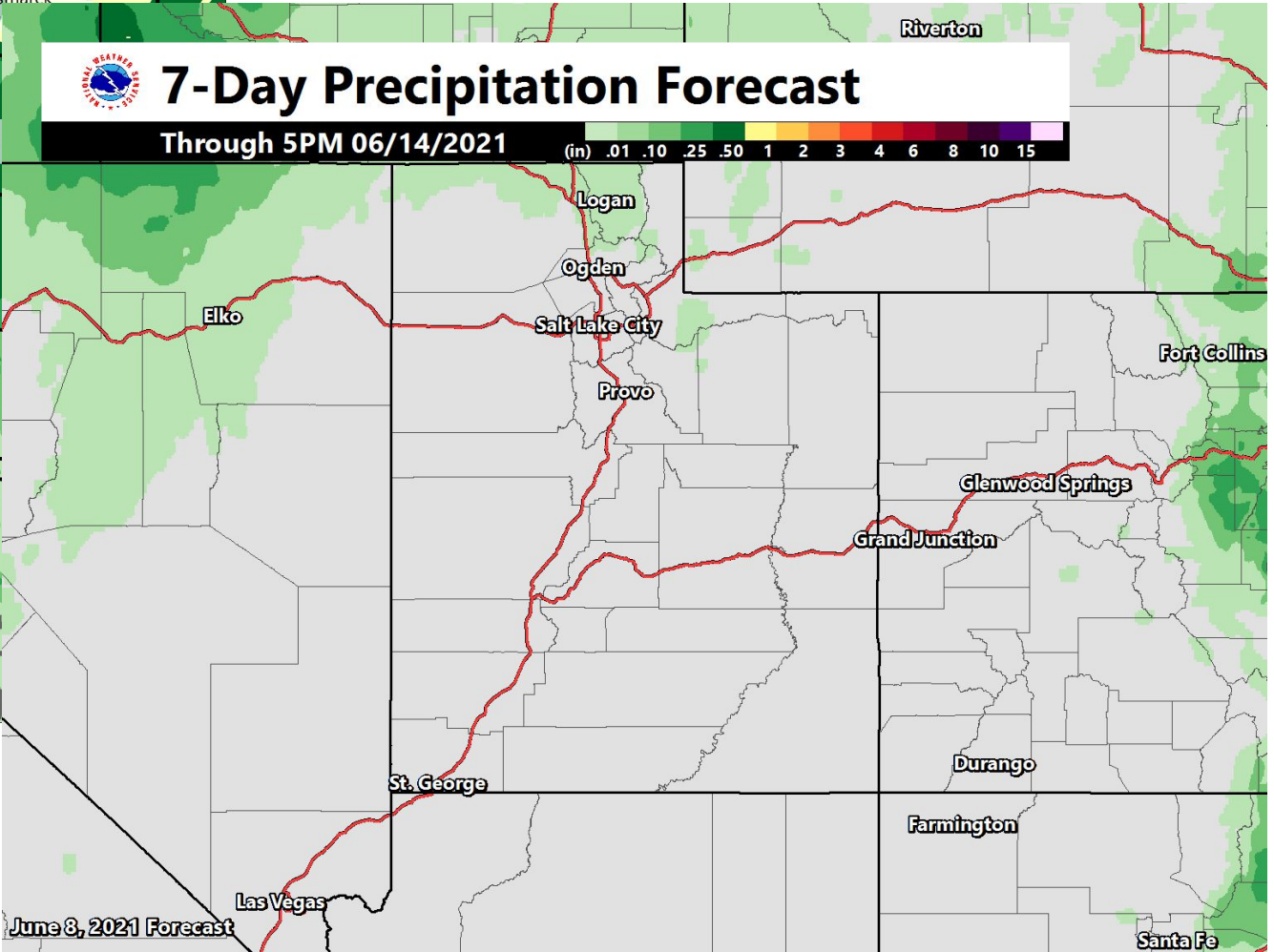
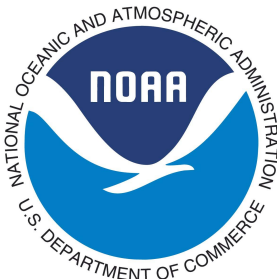


7-Day Total Precipitation Forecast

Through 5PM 06/14/2021



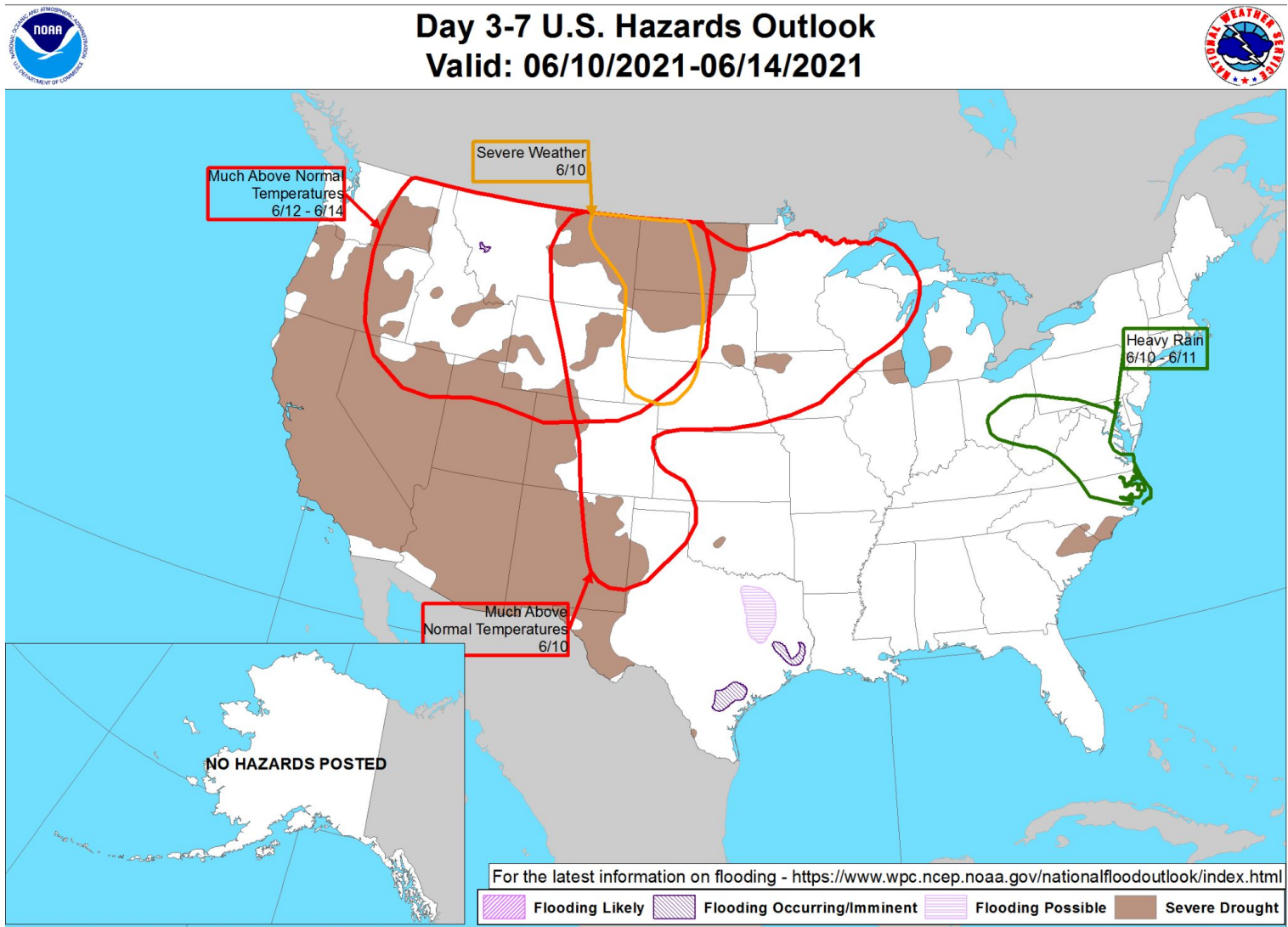
Issued: June 8, 2021



June 8, 2021 Forecast

Agency - National Weather Service Weather Forecast Office
Presenter - Jeff Colton - Grand Junction

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



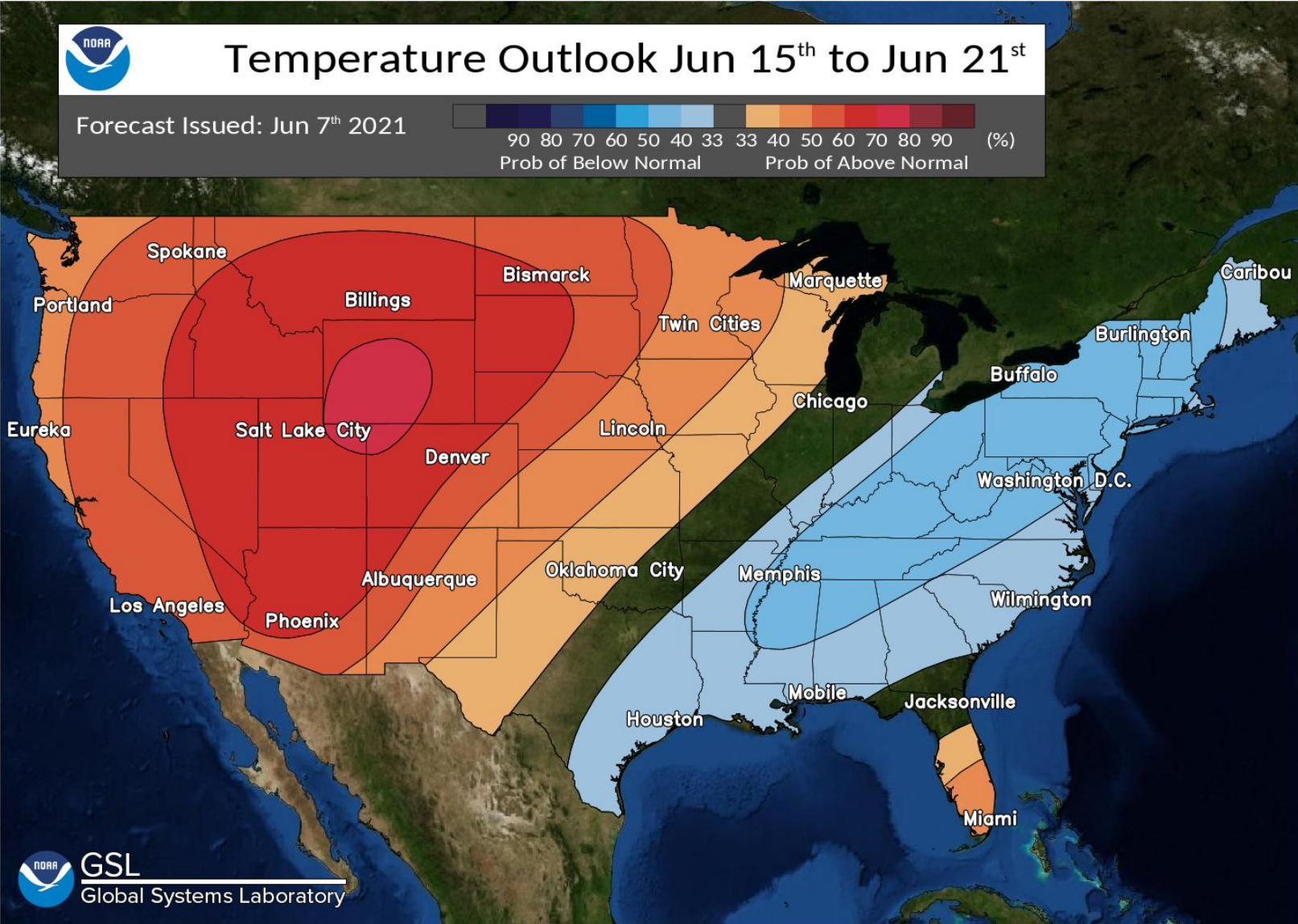
Weather Prediction Center

Made: 06/07/2021 3PM EDT

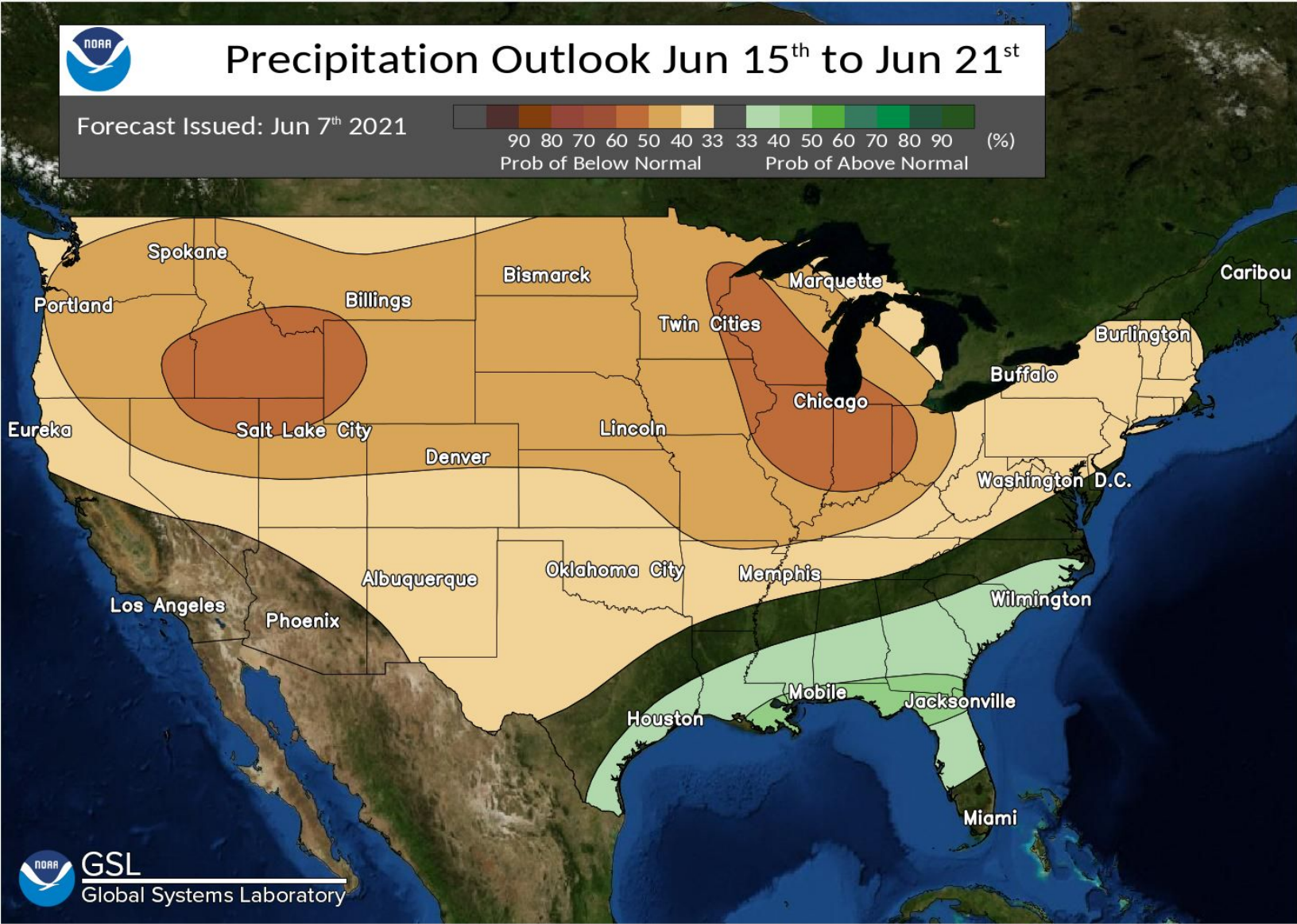
Follow us: 

www.wpc.ncep.noaa.gov

Climate Prediction Center 8 to 14 Day Outlooks - Temperature



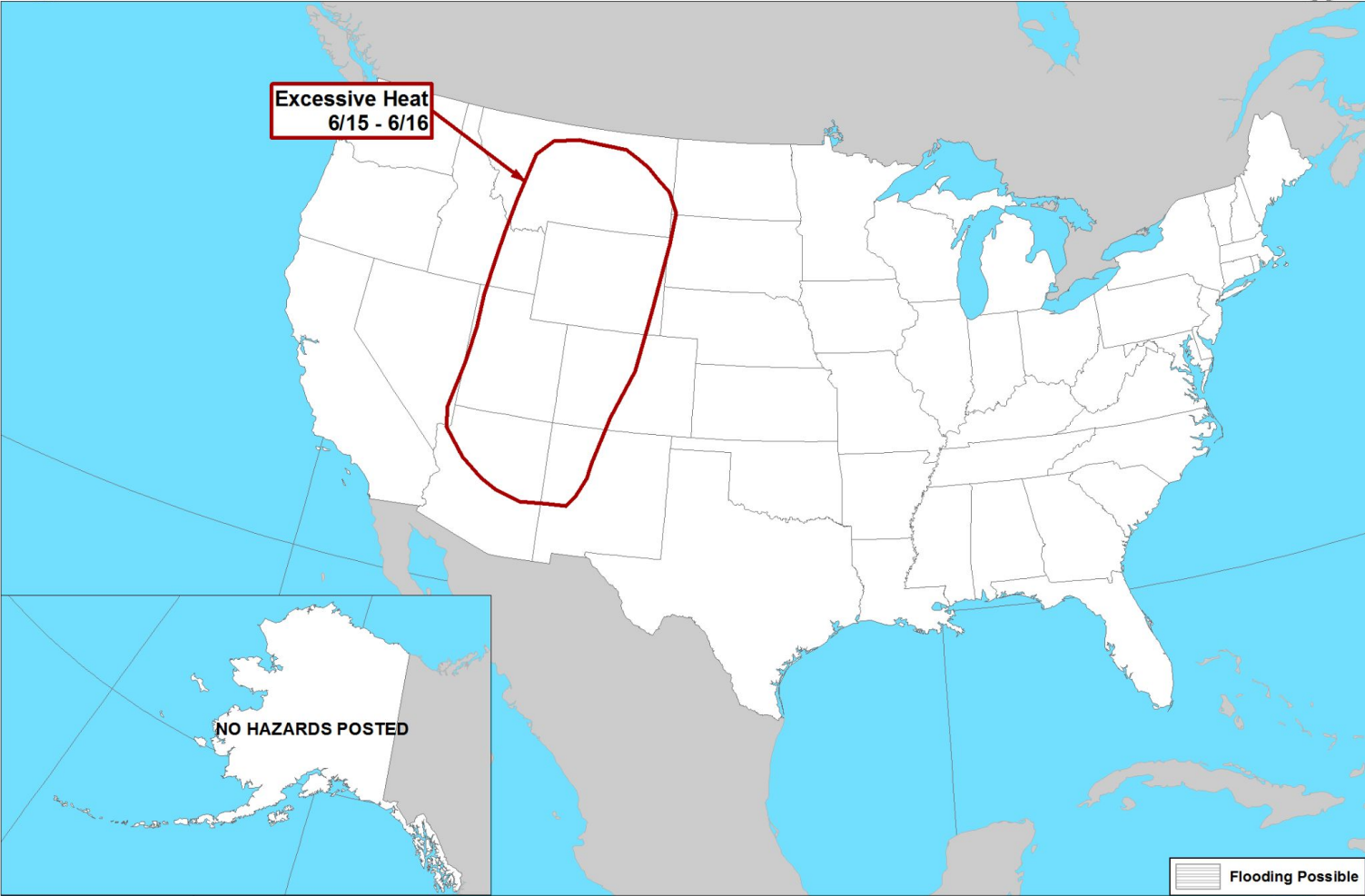
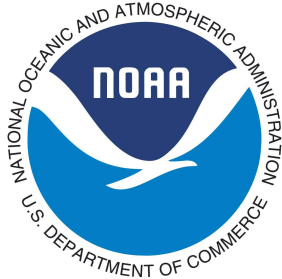
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



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

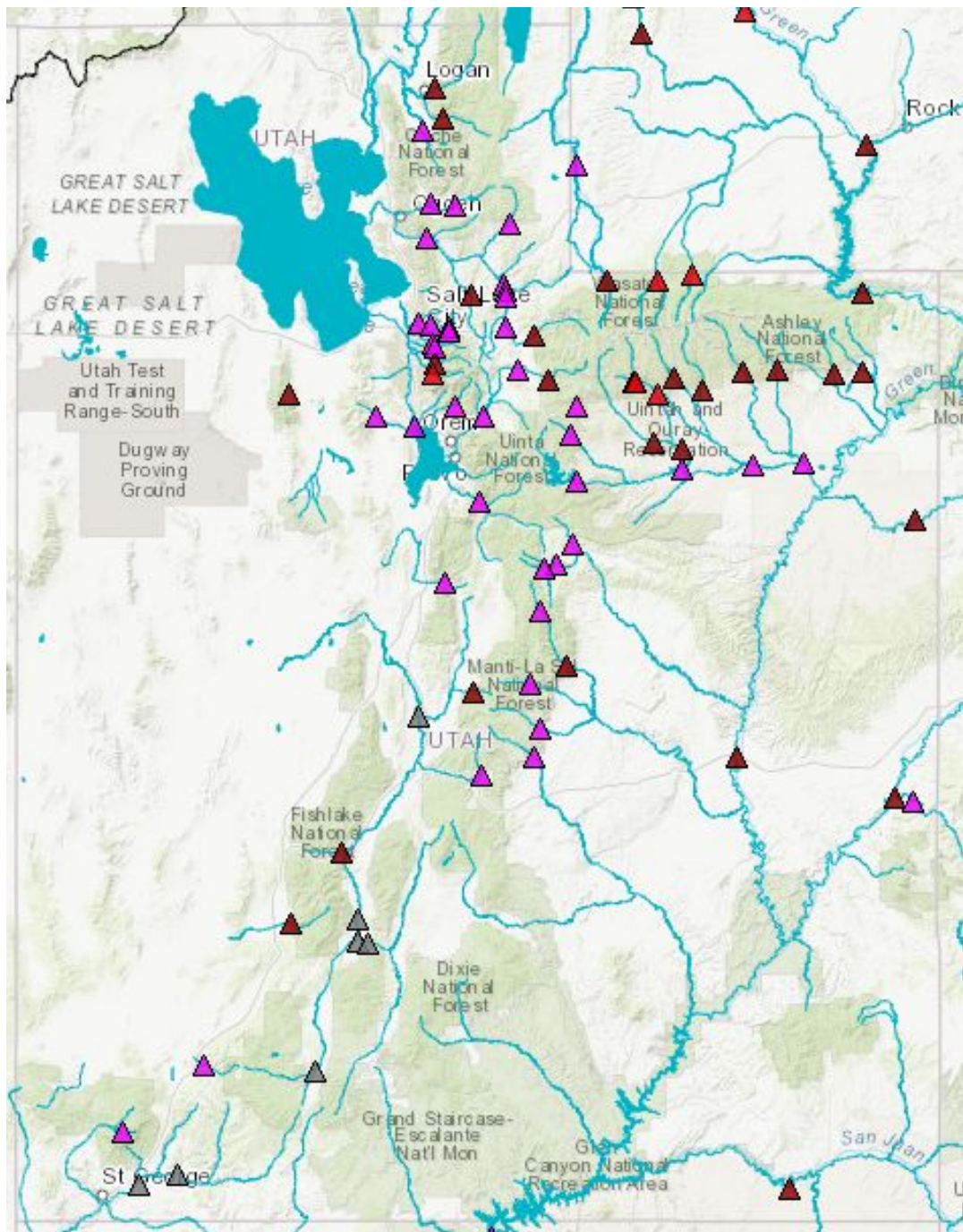


Day 8-14 U.S. Hazards Outlook
Valid: 06/15/2021-06/21/2021



Climate Prediction Center
Made: 06/07/2021 3PM EDT

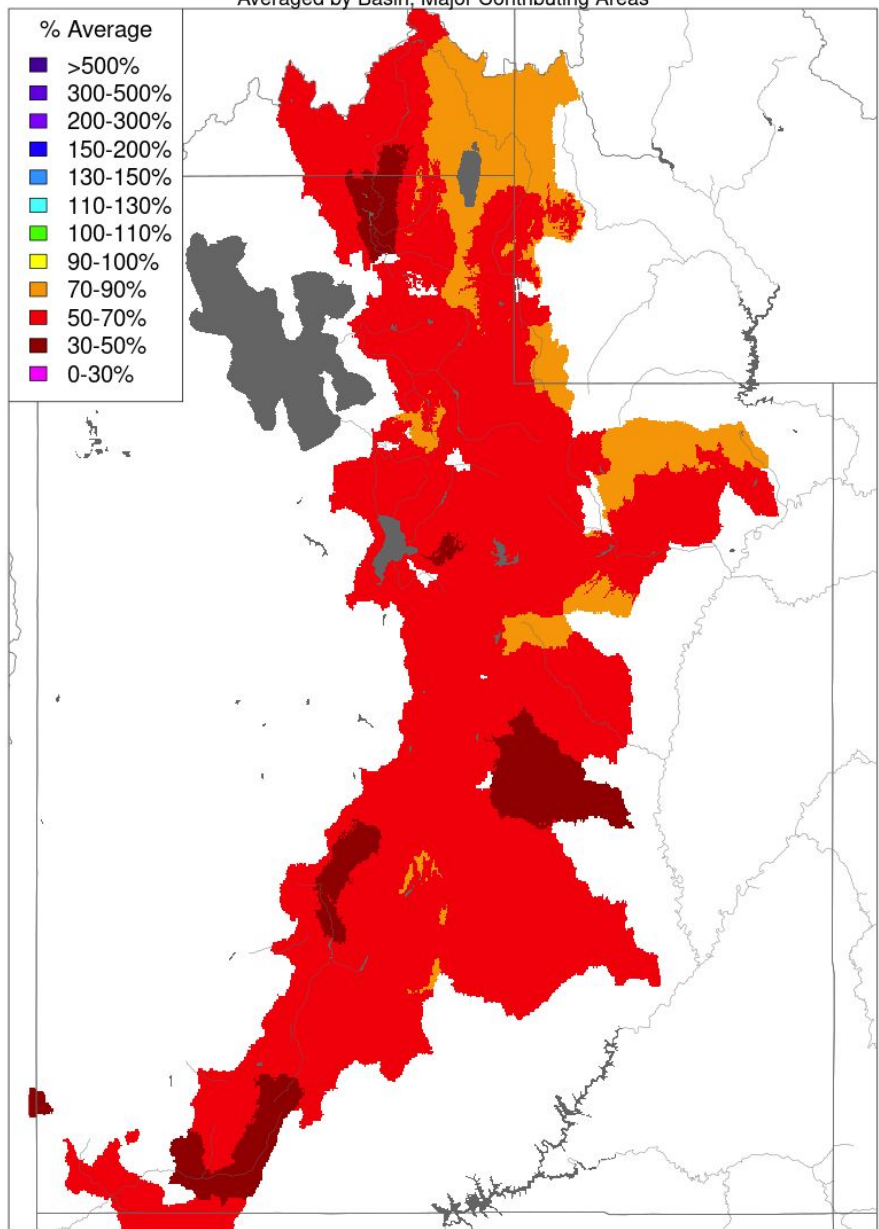
Follow us:
www.cpc.ncep.noaa.gov



Very dry conditions continue to drive water supply forecasts well below average. Most forecasts are below 30% of average.

Water Year Precipitation, October 2020 - May 2021

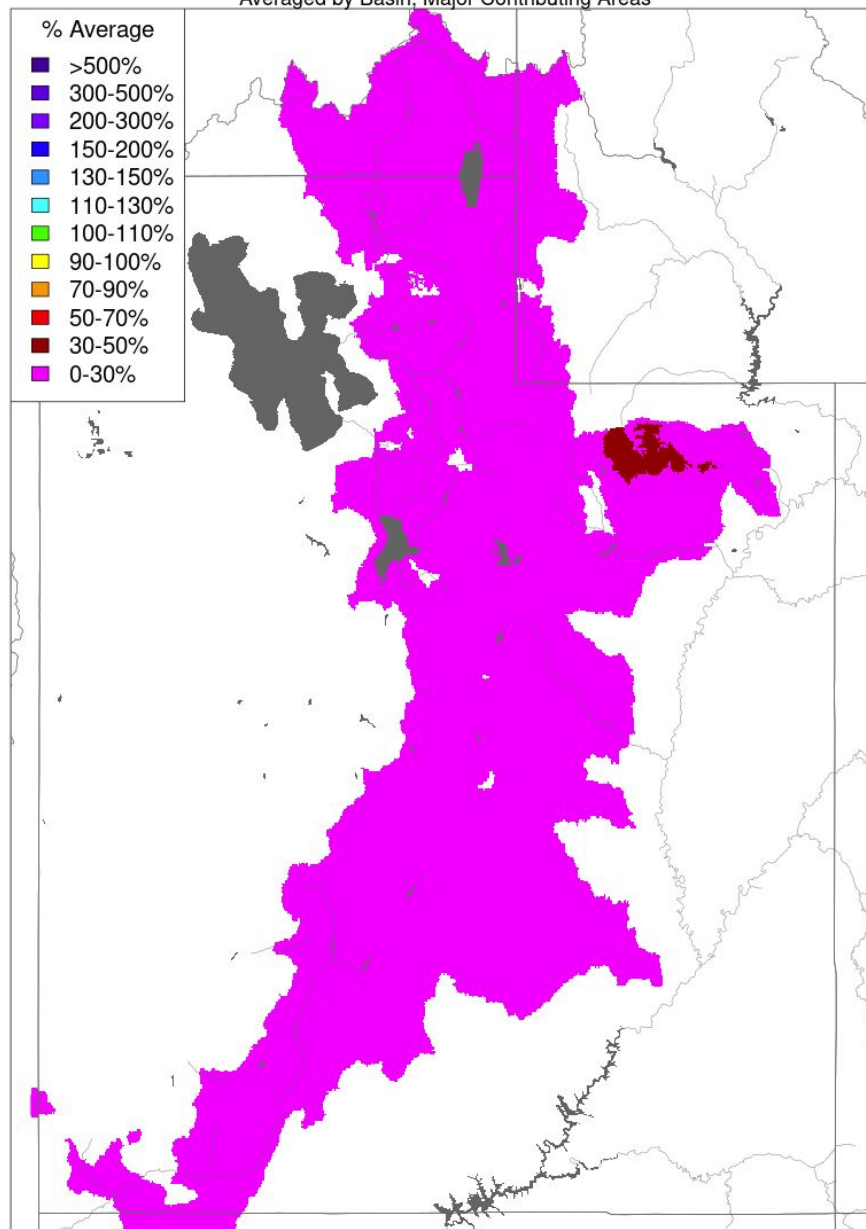
Averaged by Basin, Major Contributing Areas



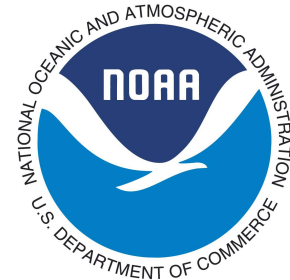
Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

Month to Date Precipitation - June 08 2021

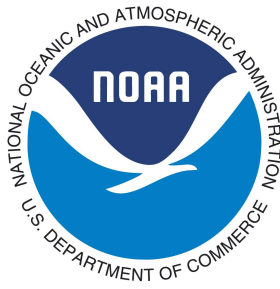
Averaged by Basin, Major Contributing Areas



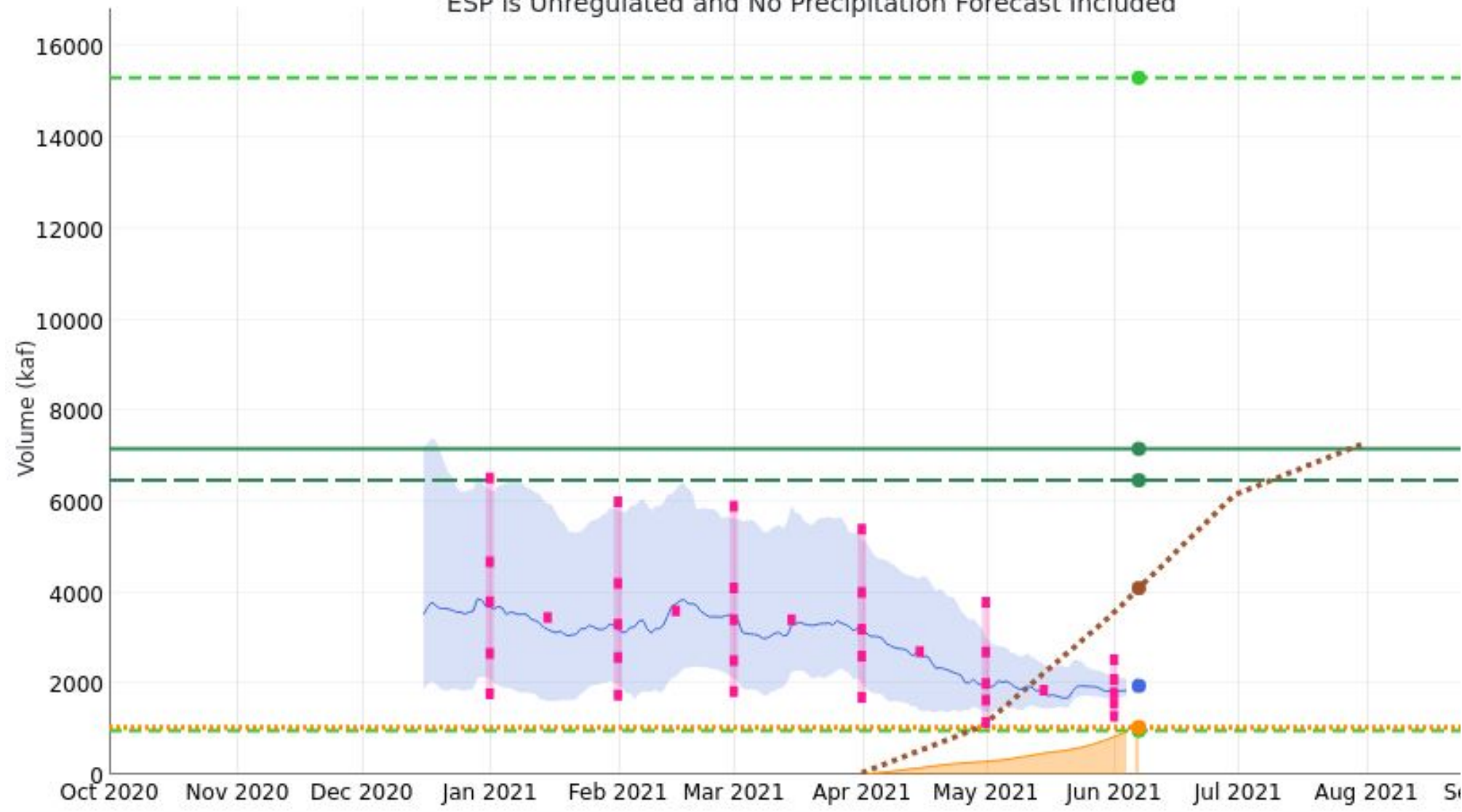
Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov



Precipitation conditions have been well below average for the water year, and June has also been below average. Precipitation is the primary driver to our model.



Colorado - Lake Powell, Glen Cyn Dam, At (GLDA3)
Period: Apr-Jul, Official 50% Forecast (2021-06-01): 1800 kaf (25% Average, 28% Median)
ESP is Unregulated and No Precipitation Forecast Included

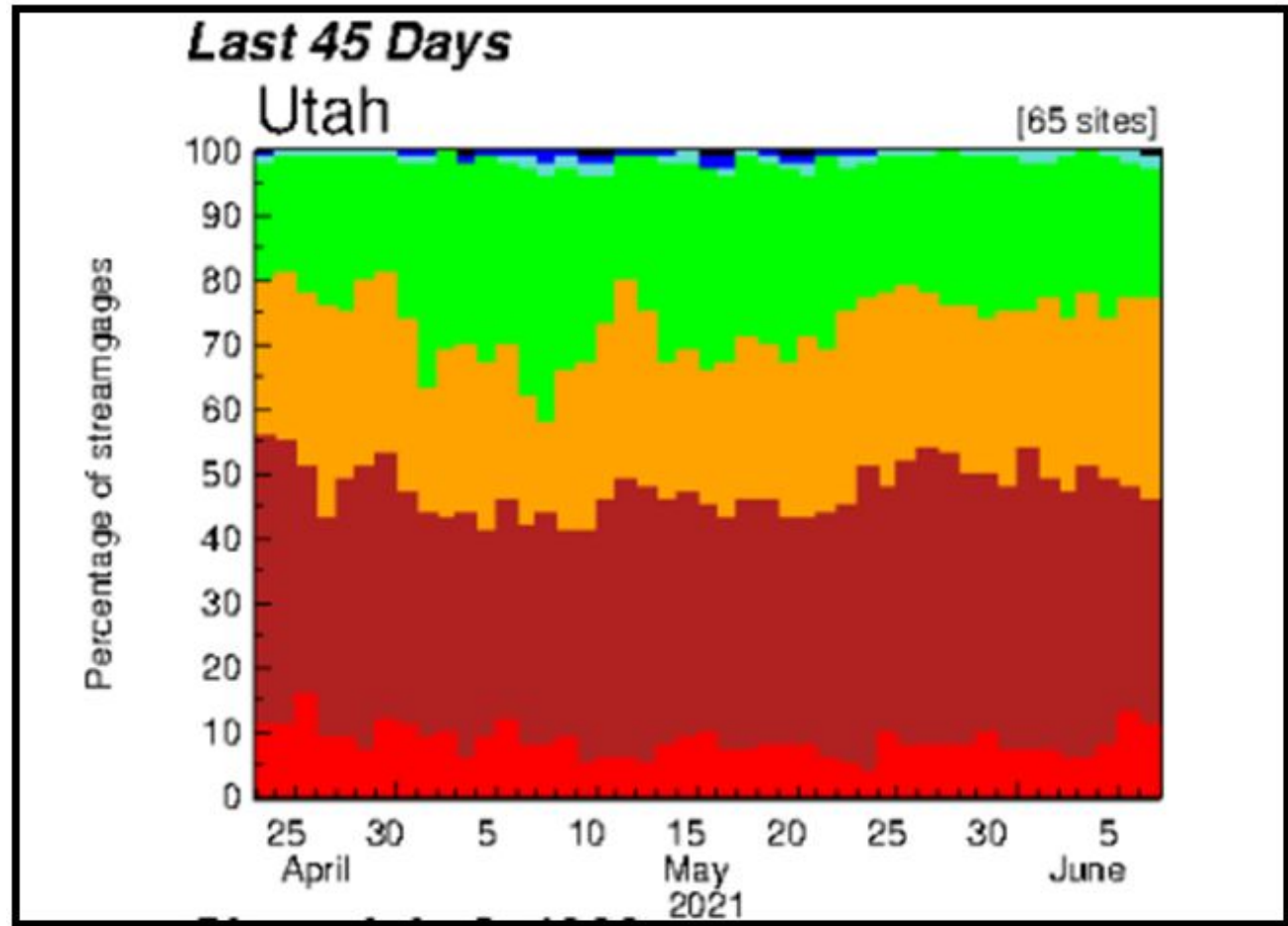


Current forecast would be the 3rd driest on record for seasonal runoff into Lake Powell. Most locations are seeing flows in the top 5 of historical records.

Tuesday, June 08, 2021 11:30ET

June 8

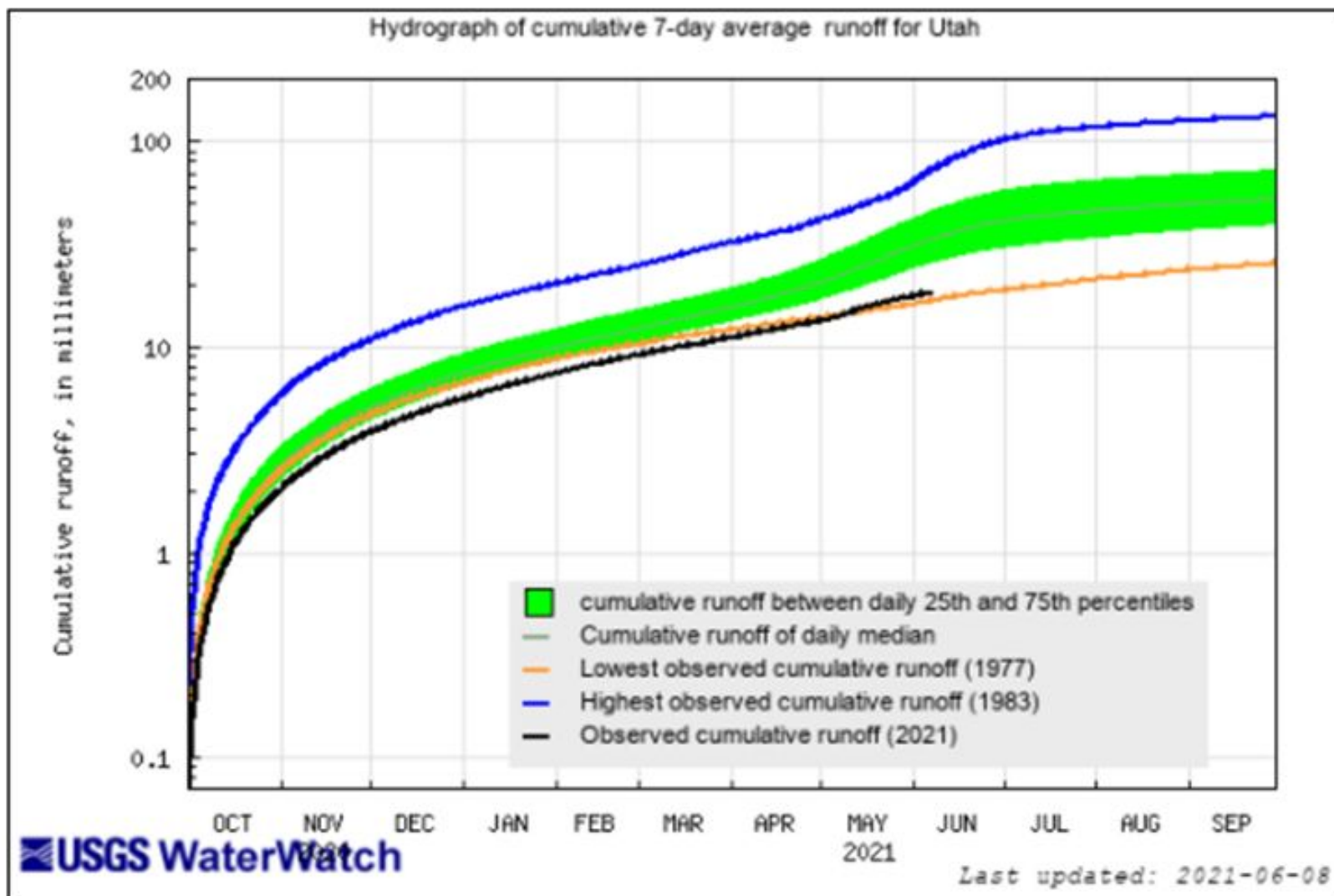
Current Streamflow Conditions



Explanation - Percentile classes

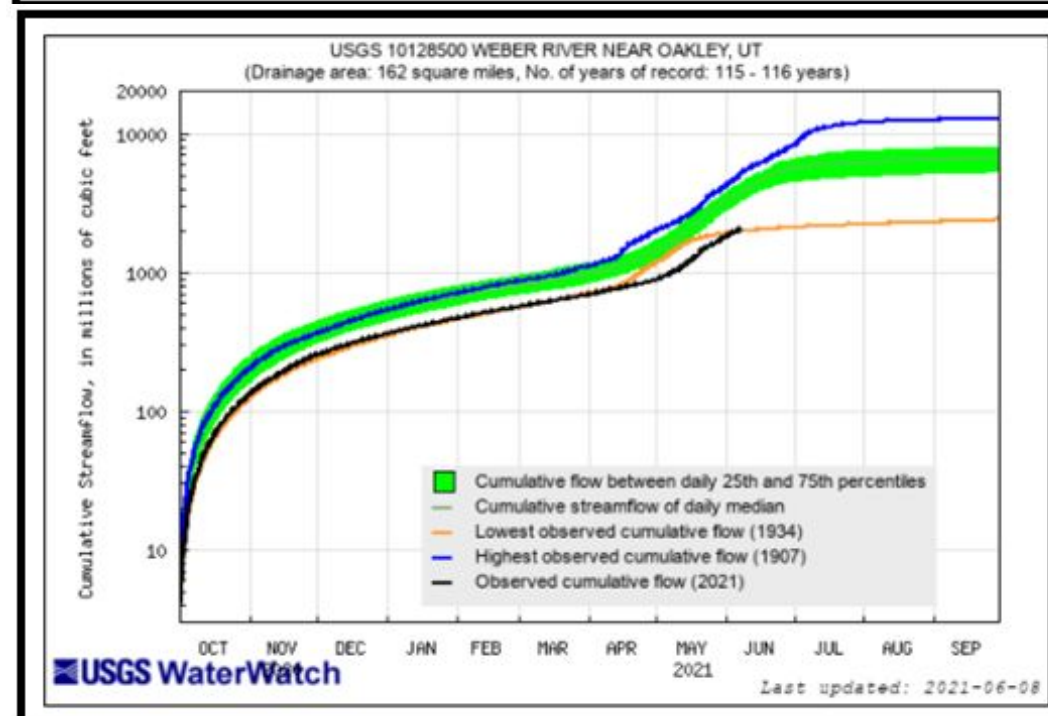
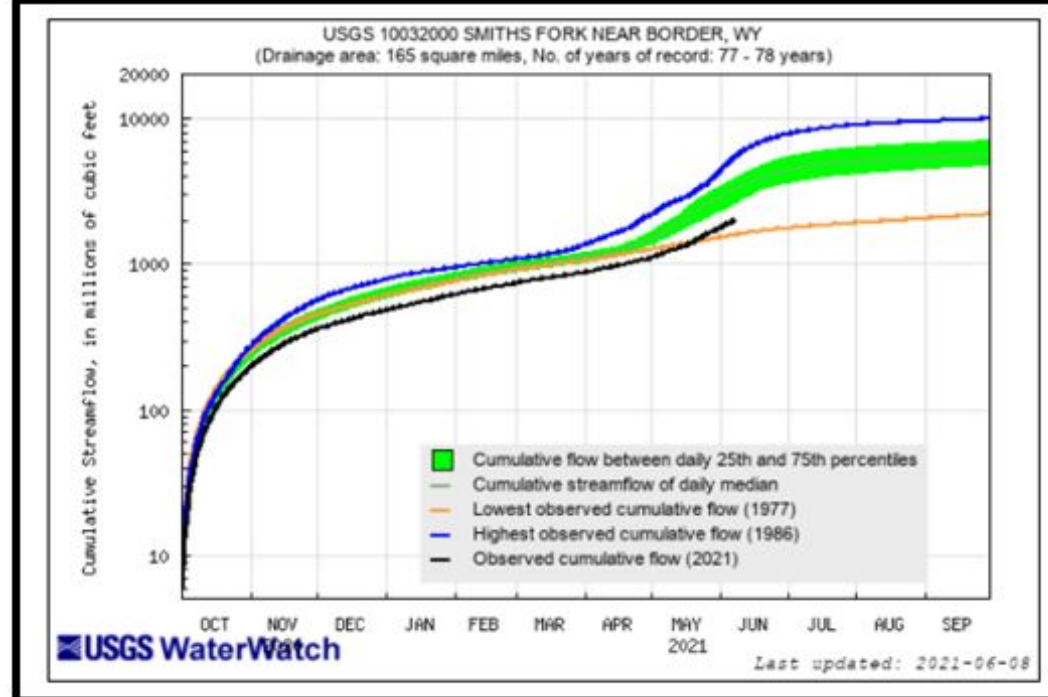
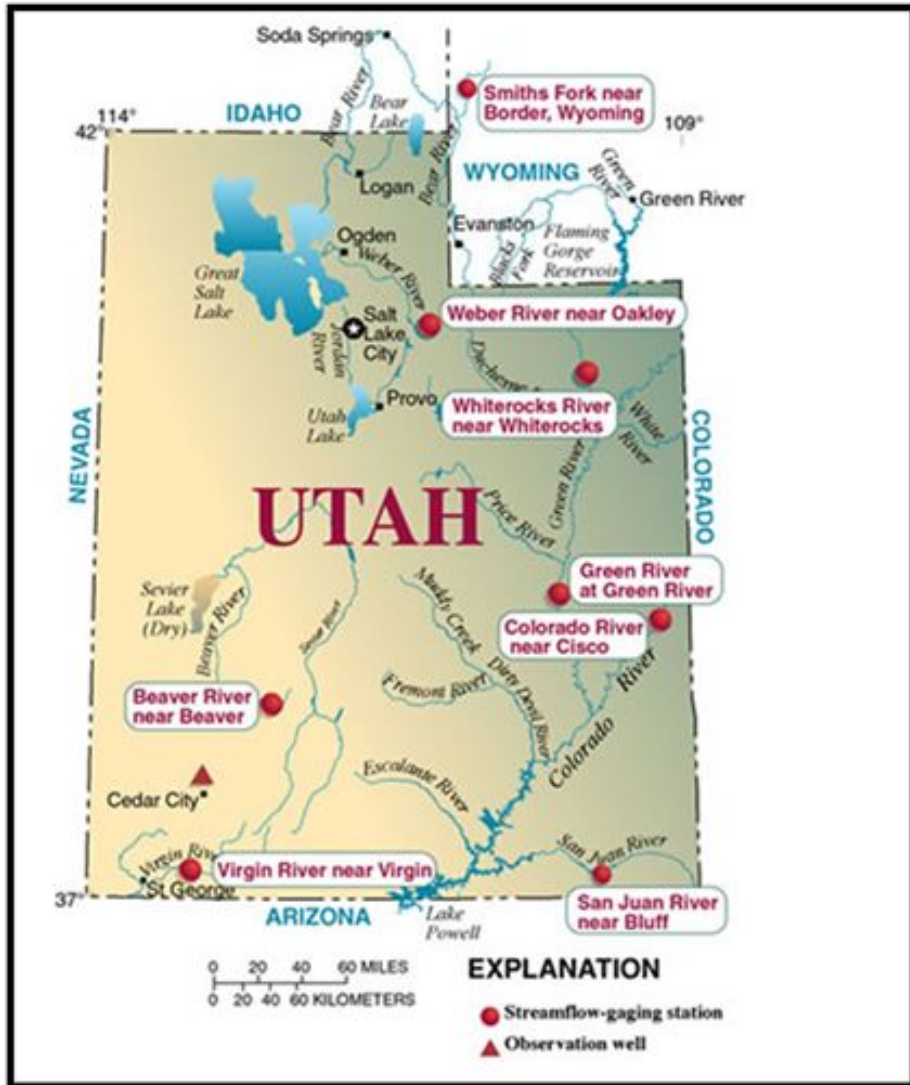
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

Current Streamflow Conditions



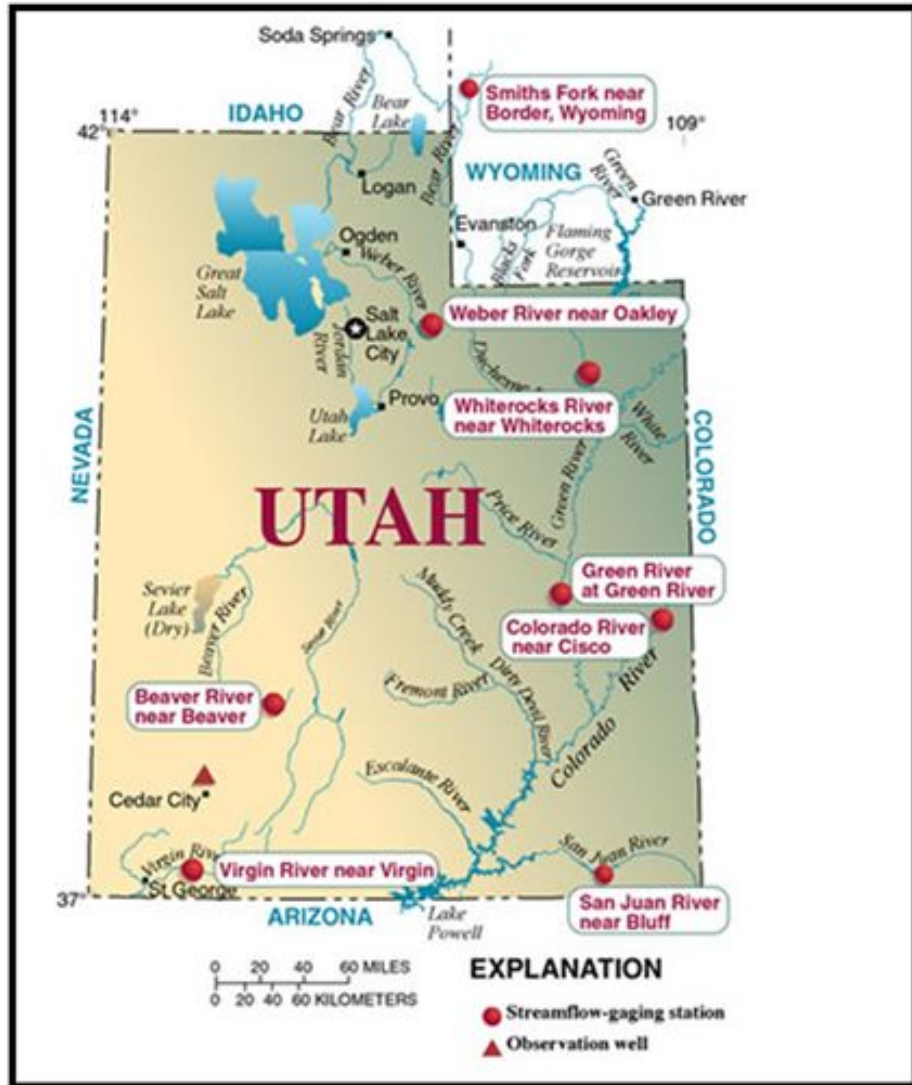
❑ Cumulative 7-day average runoff for water year 2021 is near the lowest on record

Streamflow Conditions at Long Term Sites

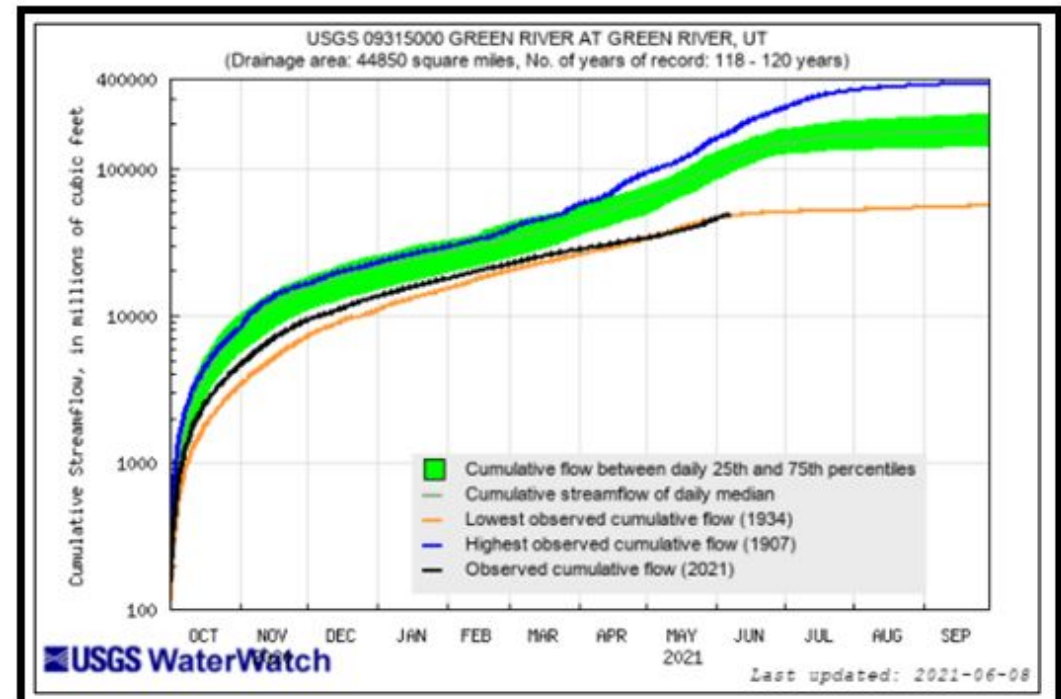
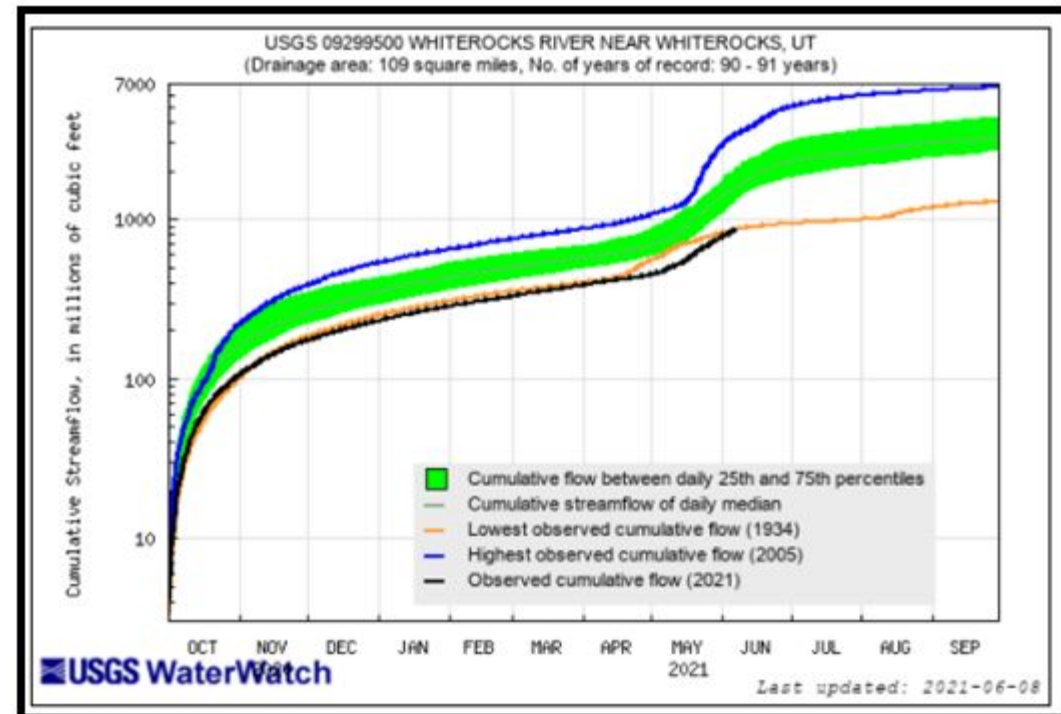


Agency - U.S. Geological Survey
Presenter - Ryan Rowland - Utah Water Science Center

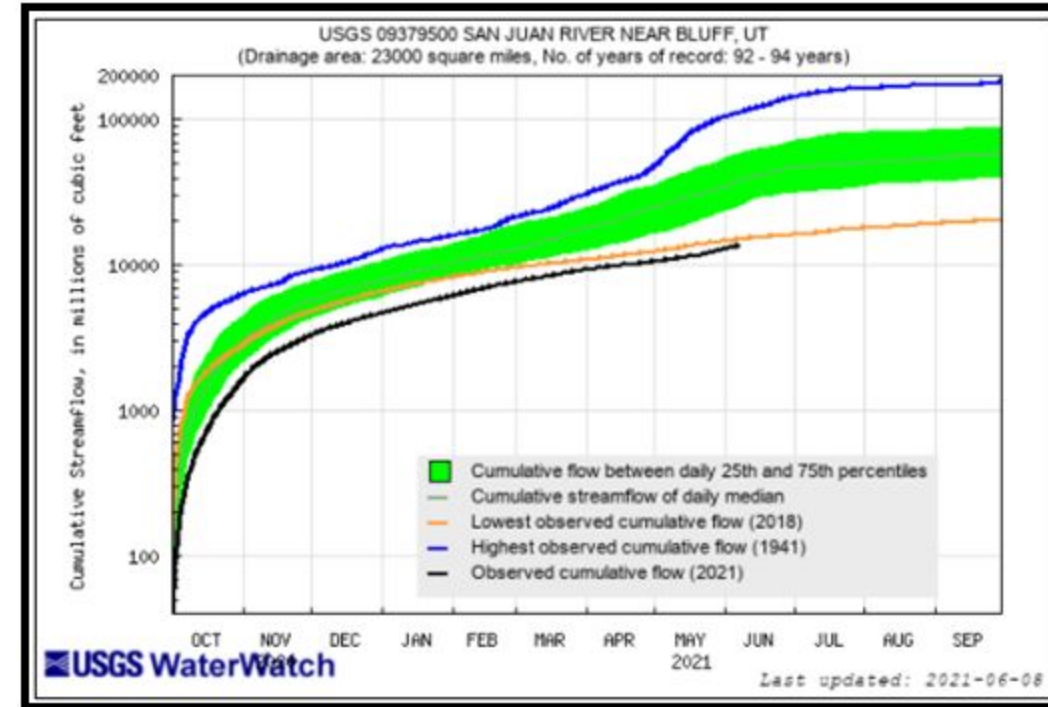
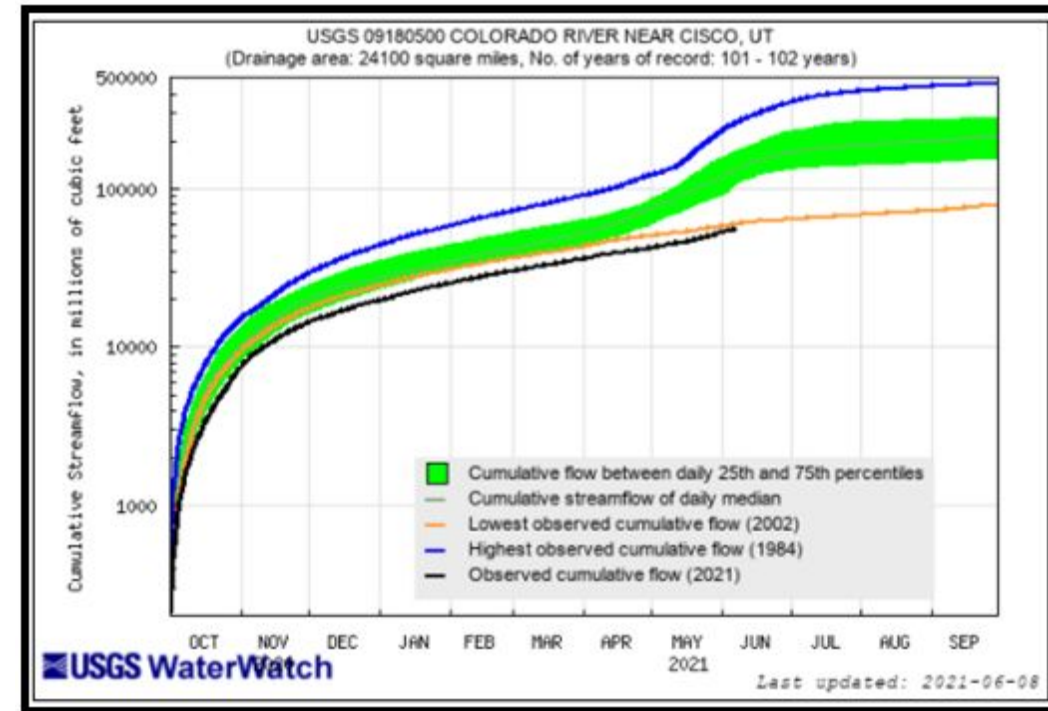
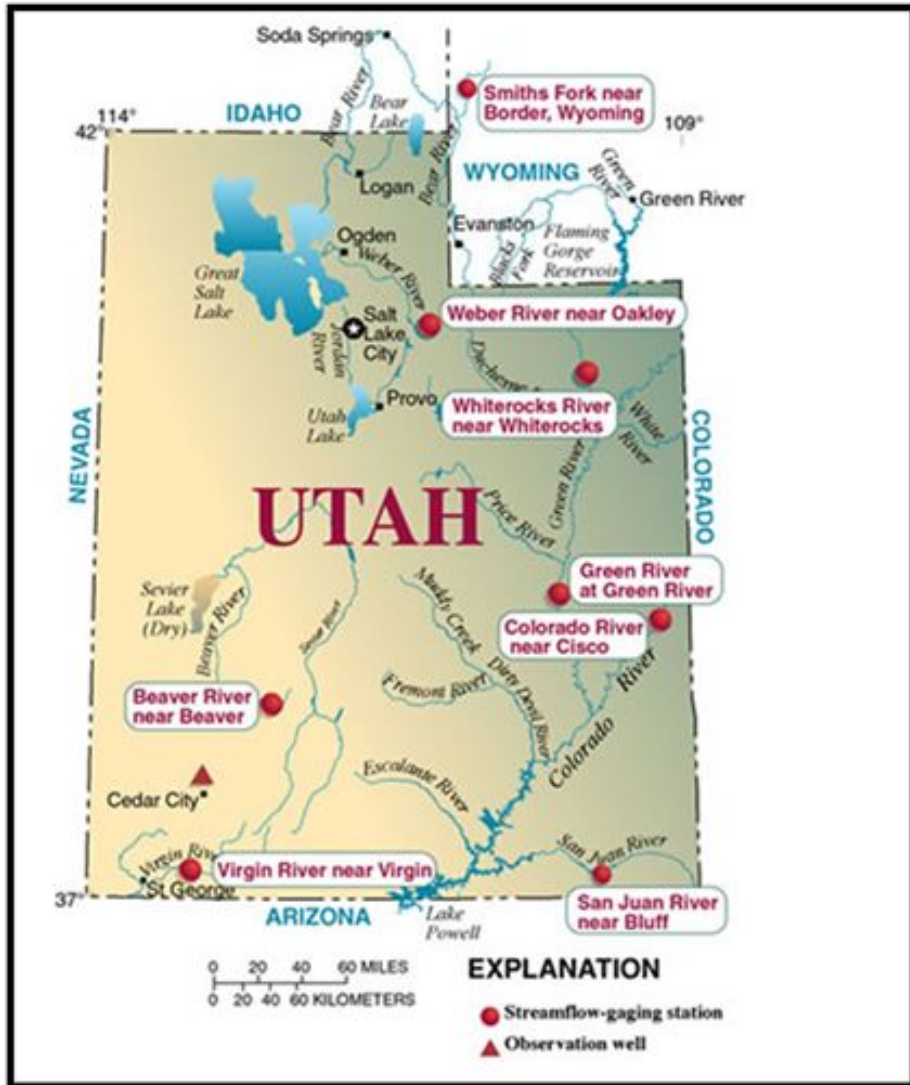
Streamflow Conditions at Long Term sites



Agency - U.S. Geological Survey
Presenter - Ryan Rowland - Utah Water Science Center

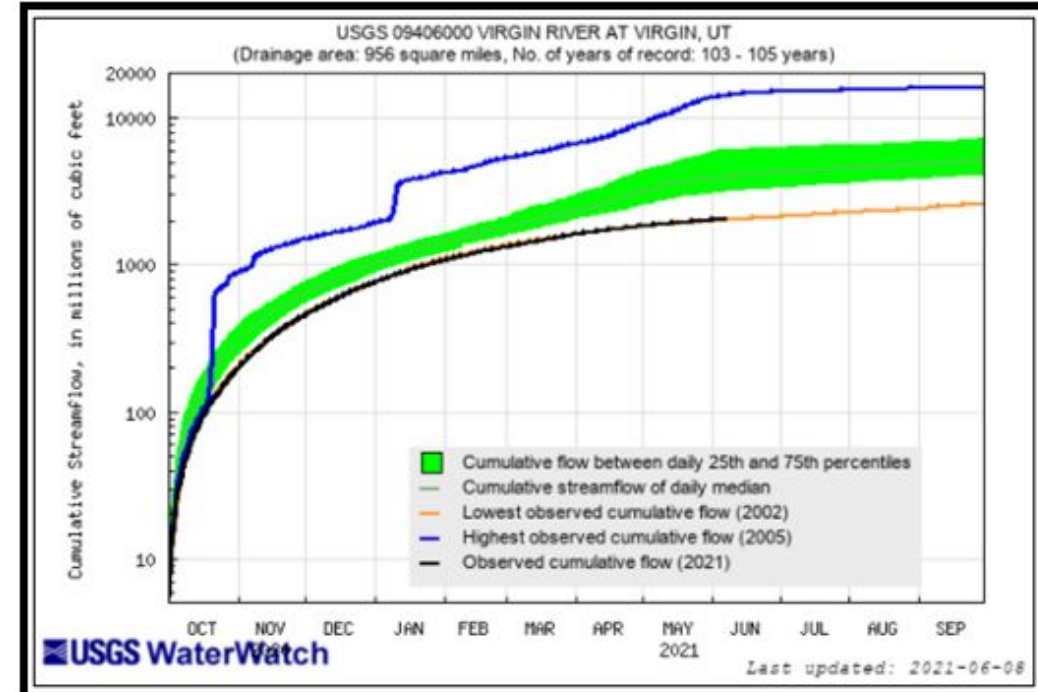
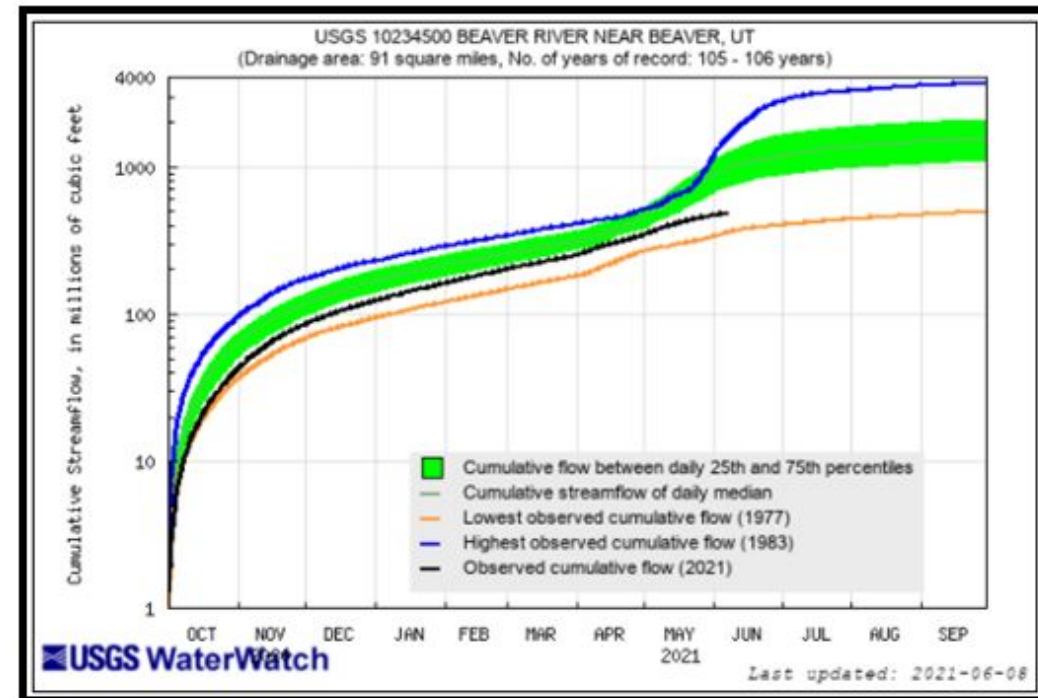
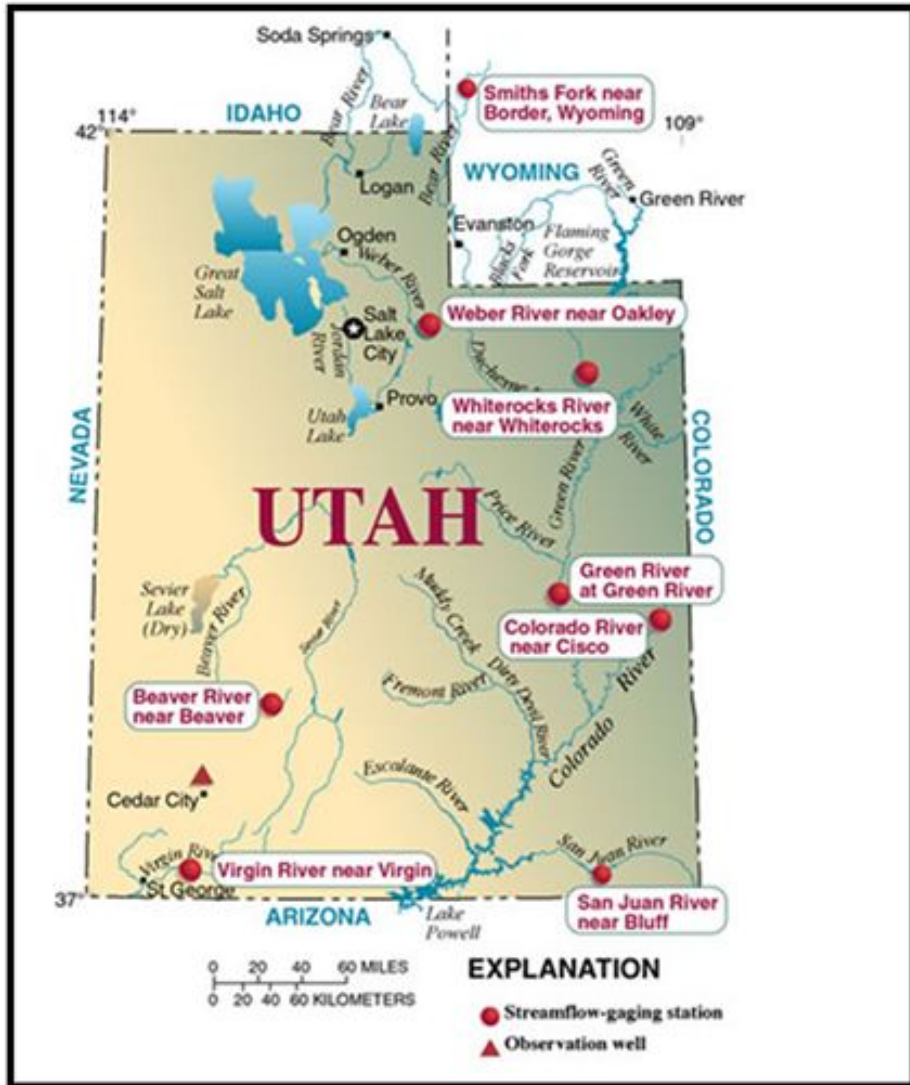


Streamflow Conditions at Long Term sites



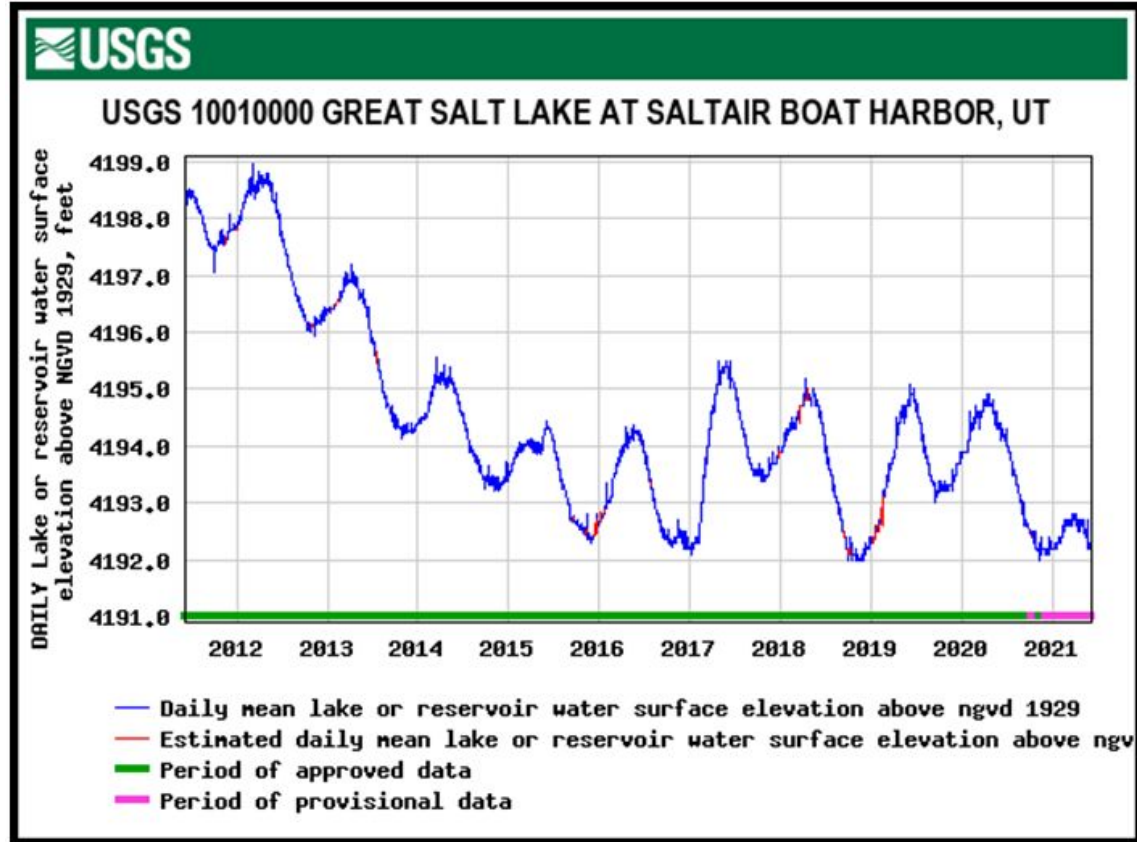
Agency - U.S. Geological Survey
Presenter - Ryan Rowland - Utah Water Science Center

Streamflow Conditions at Long Term Sites

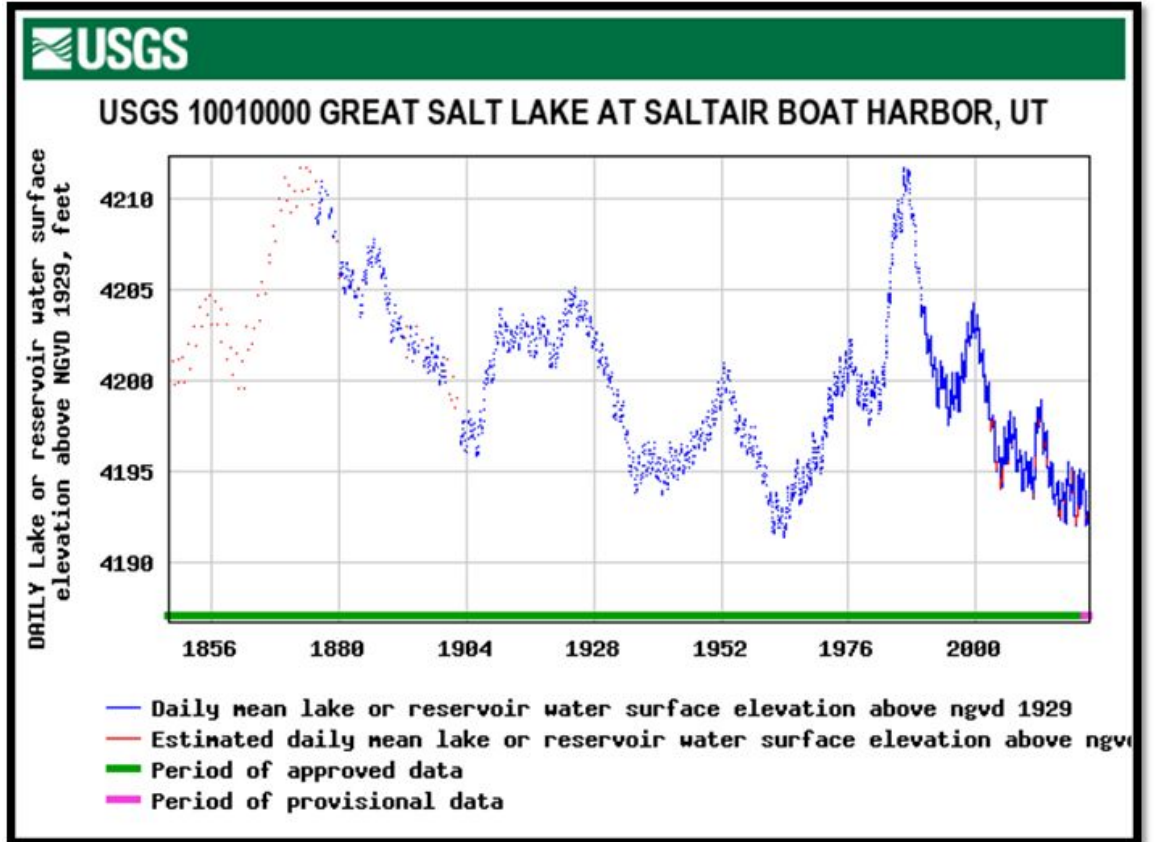


Great Salt Lake Water Surface Elevation

The last 10 years...



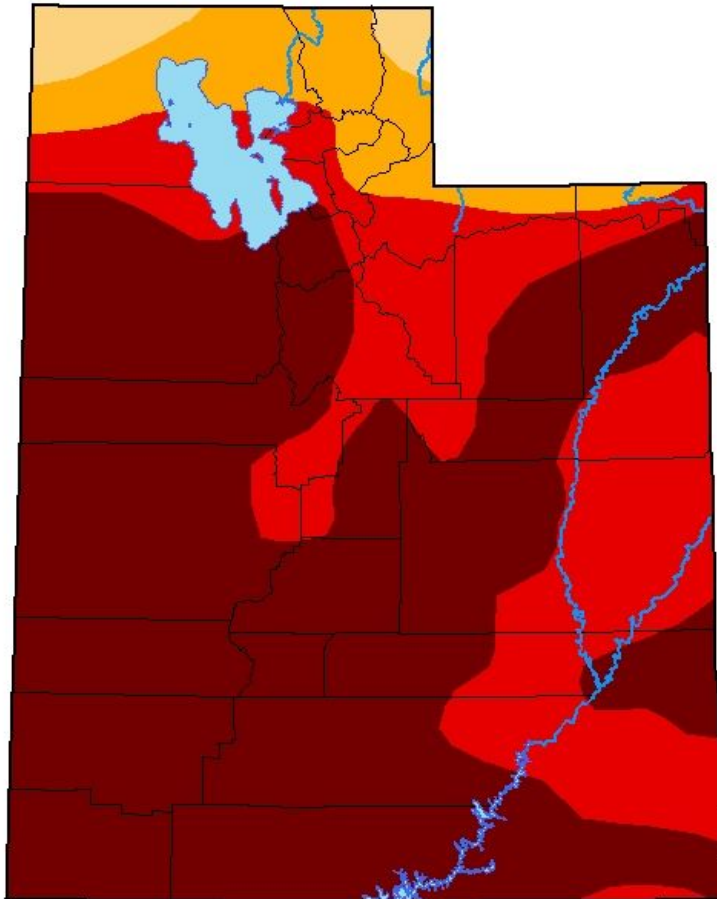
From 1847 to present...



❑ 4,191.9' today

❑ Historic low measurement
4,191.35' (1963)

U.S. Drought Monitor Utah



June 1, 2021
(Released Thursday, Jun. 3, 2021)
Valid 8 a.m. EDT

Intensity:



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>

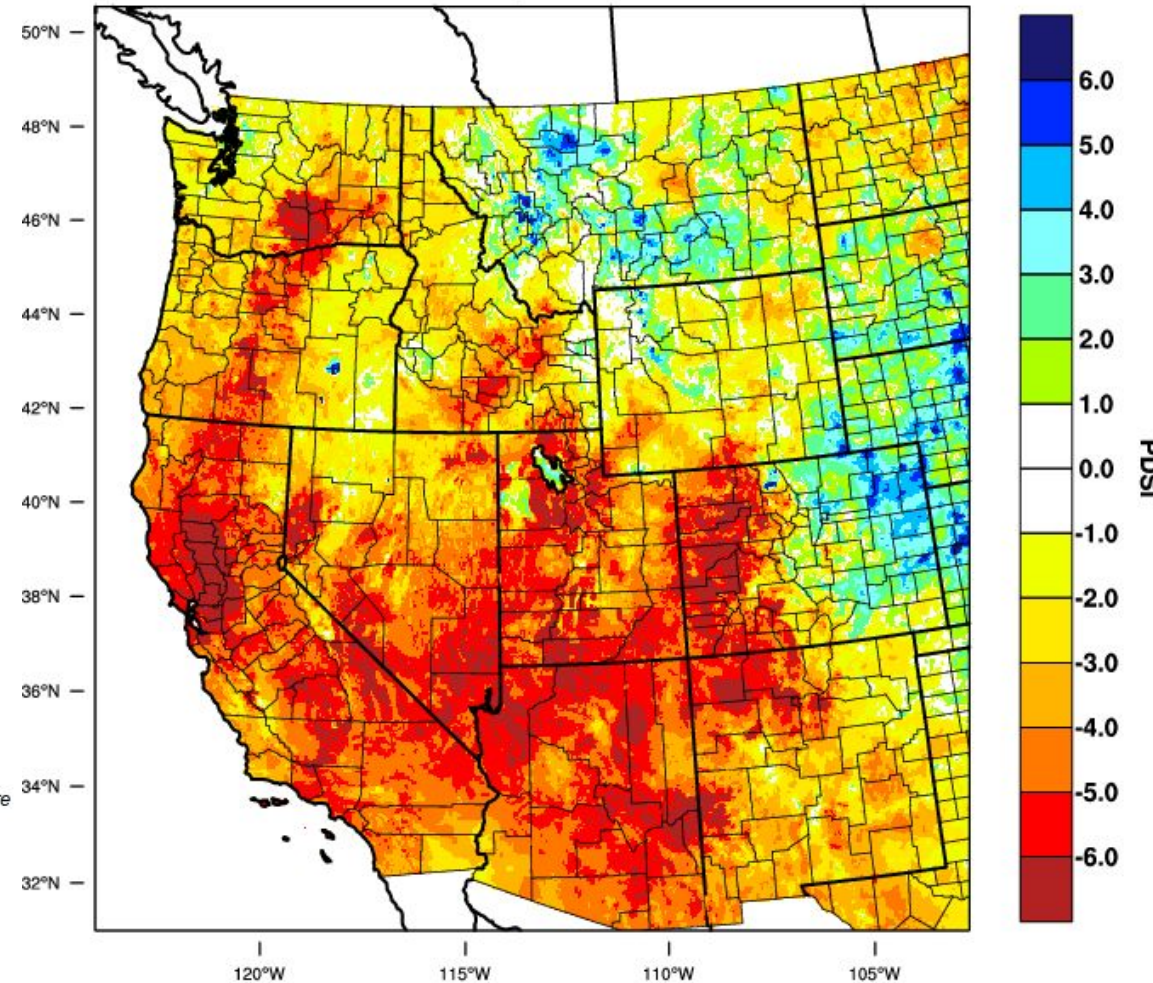
Author:

Brian Fuchs
National Drought Mitigation Center



droughtmonitor.unl.edu

Western United States - PDSI May 2021



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 JUN 2021