



Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly



Thank you to our contributors

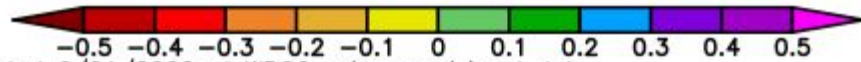
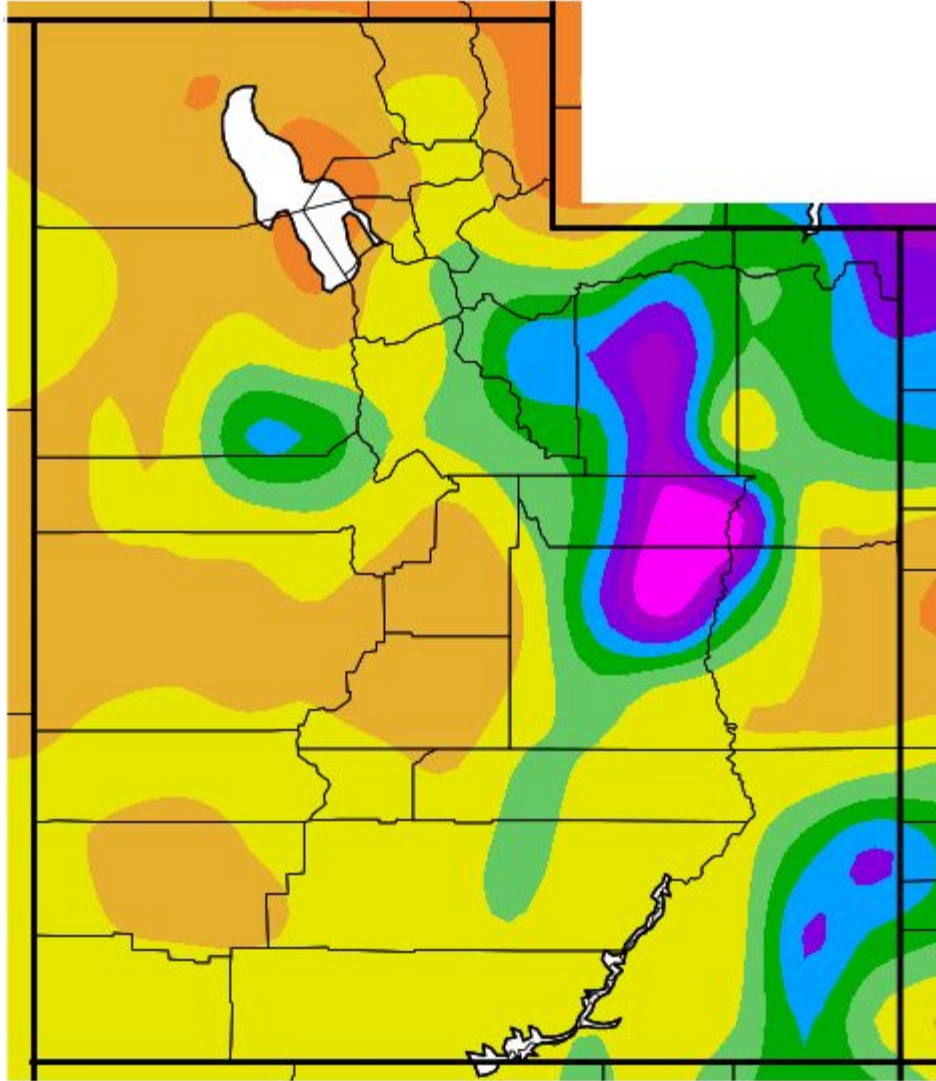




Utah Water Assessment & Conditions Monitoring Webinar

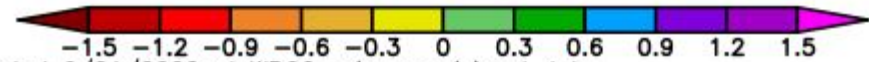
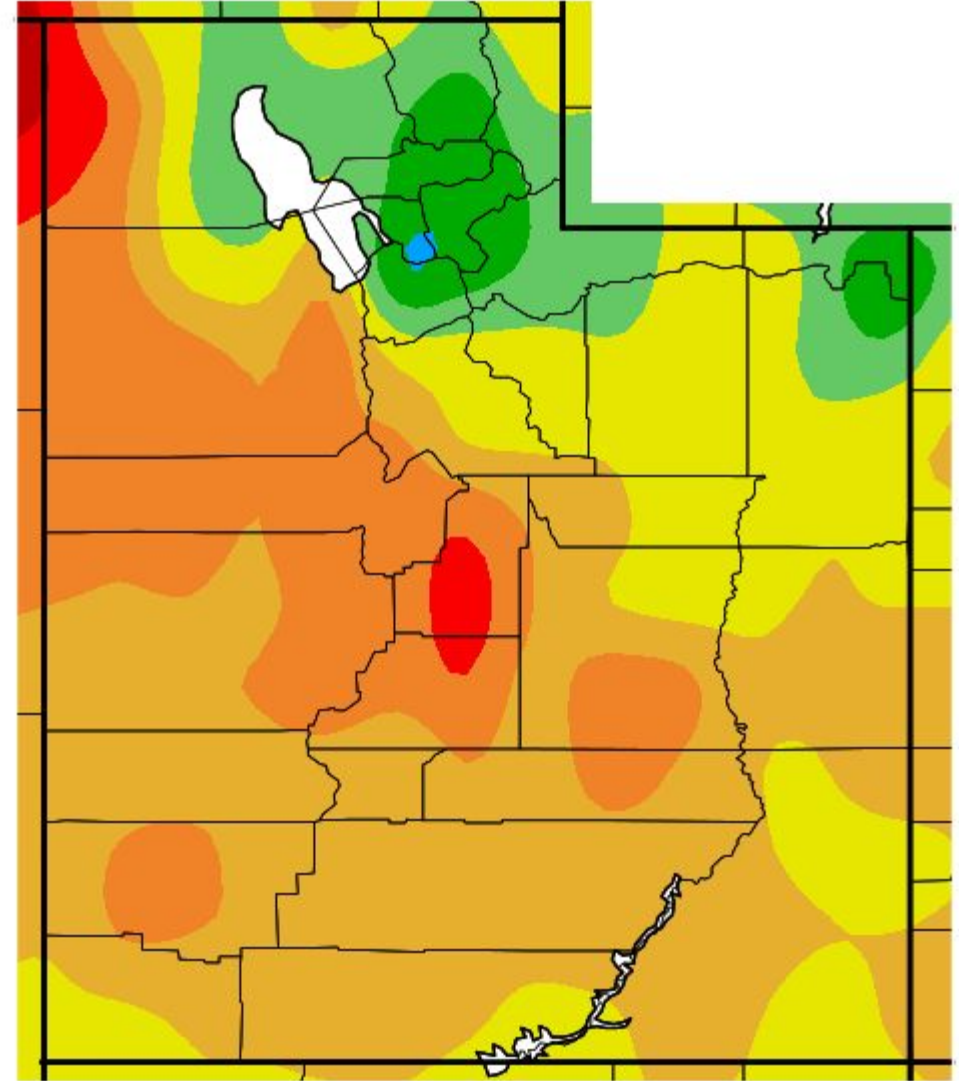
June 21, 2022

Precipitation Departure from Average (in.)
6/14/2022 – 6/20/2022



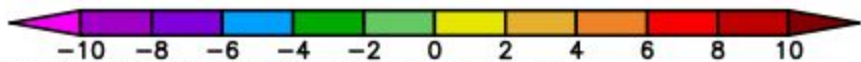
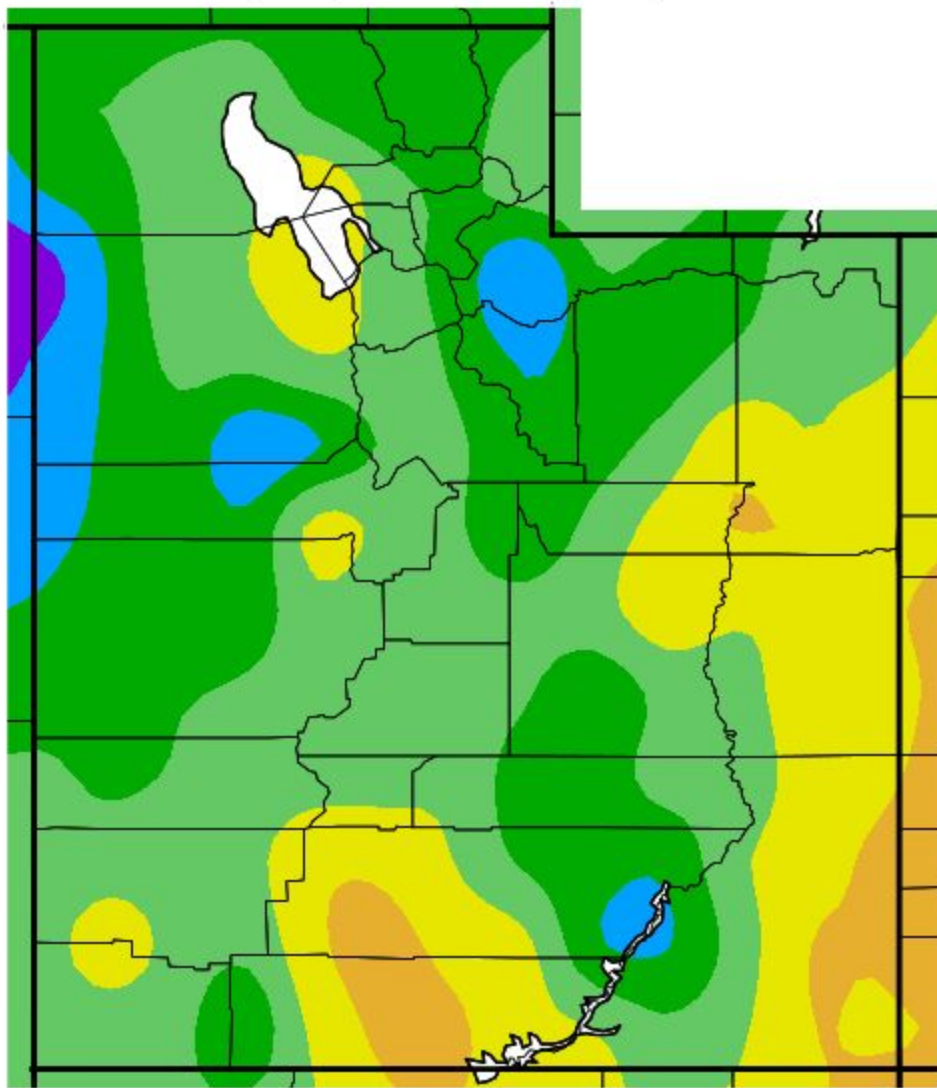
Generated 6/21/2022 at WRCC using provisional data.
NOAA Regional Climate Centers

Precipitation Departure from Average (in.)
5/22/2022 – 6/20/2022



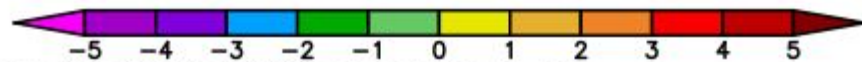
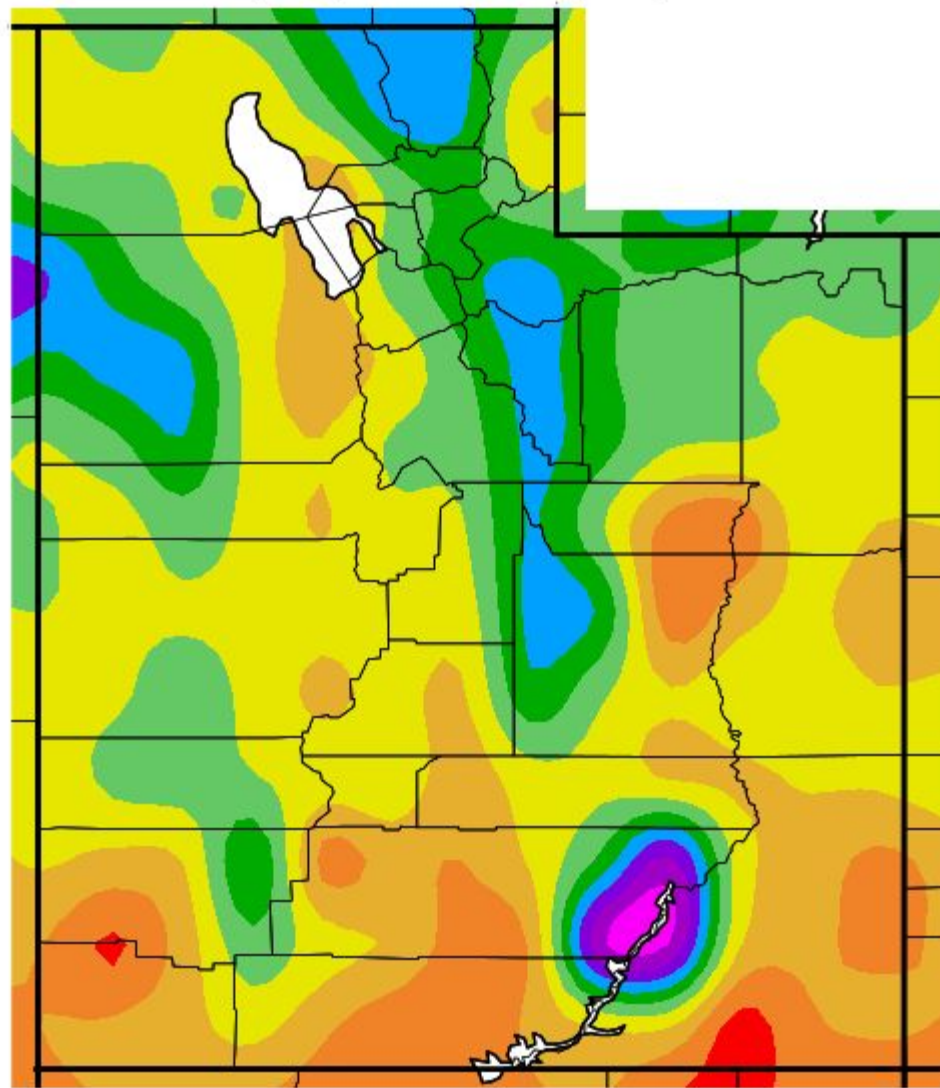
Generated 6/21/2022 at WRCC using provisional data.
NOAA Regional Climate Centers

Ave. Temperature dep from Ave (deg F)
6/14/2022 – 6/20/2022



Generated 6/21/2022 at WRCC using provisional data.
NOAA Regional Climate Centers

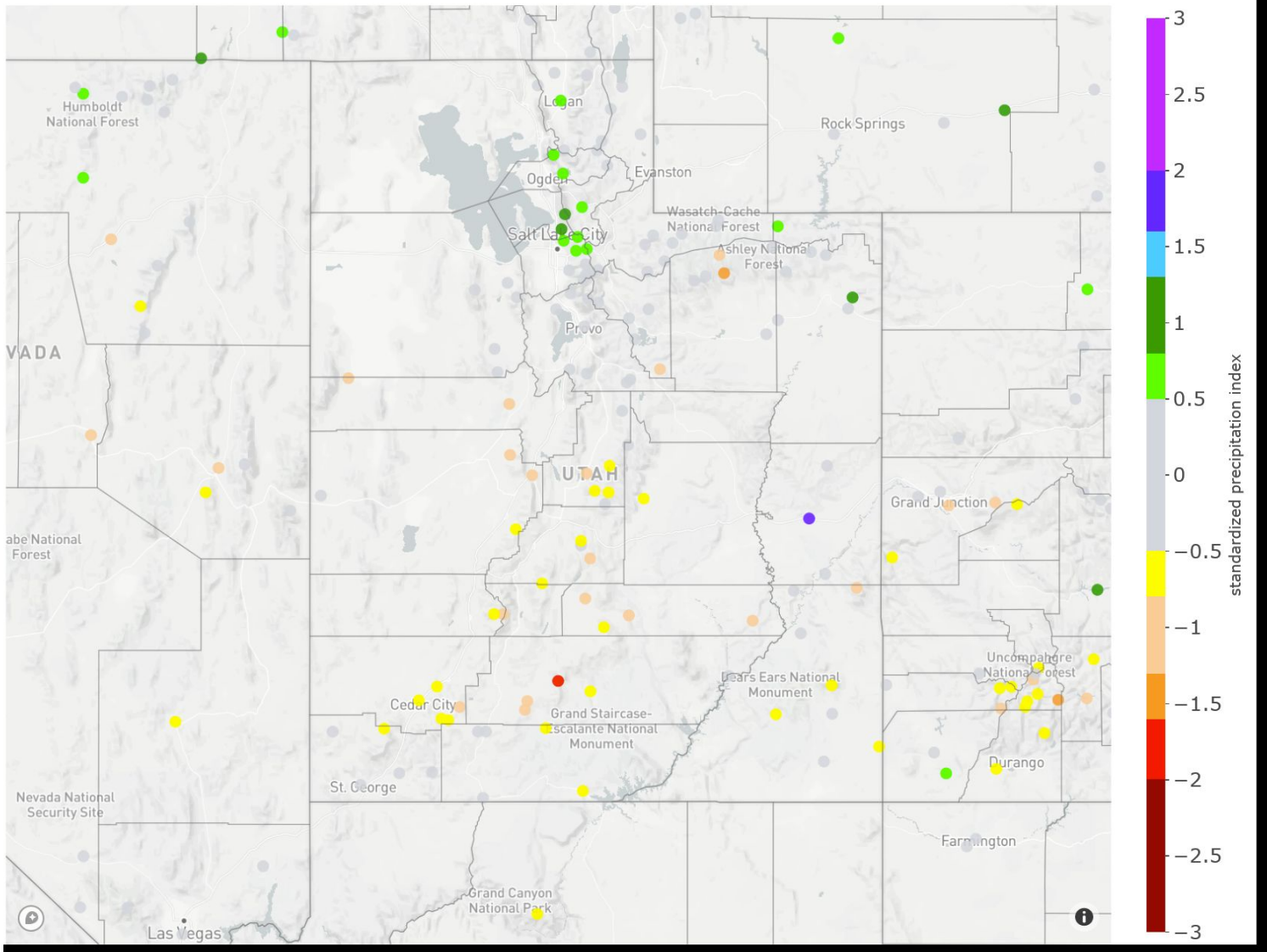
Ave. Temperature dep from Ave (deg F)
5/22/2022 – 6/20/2022



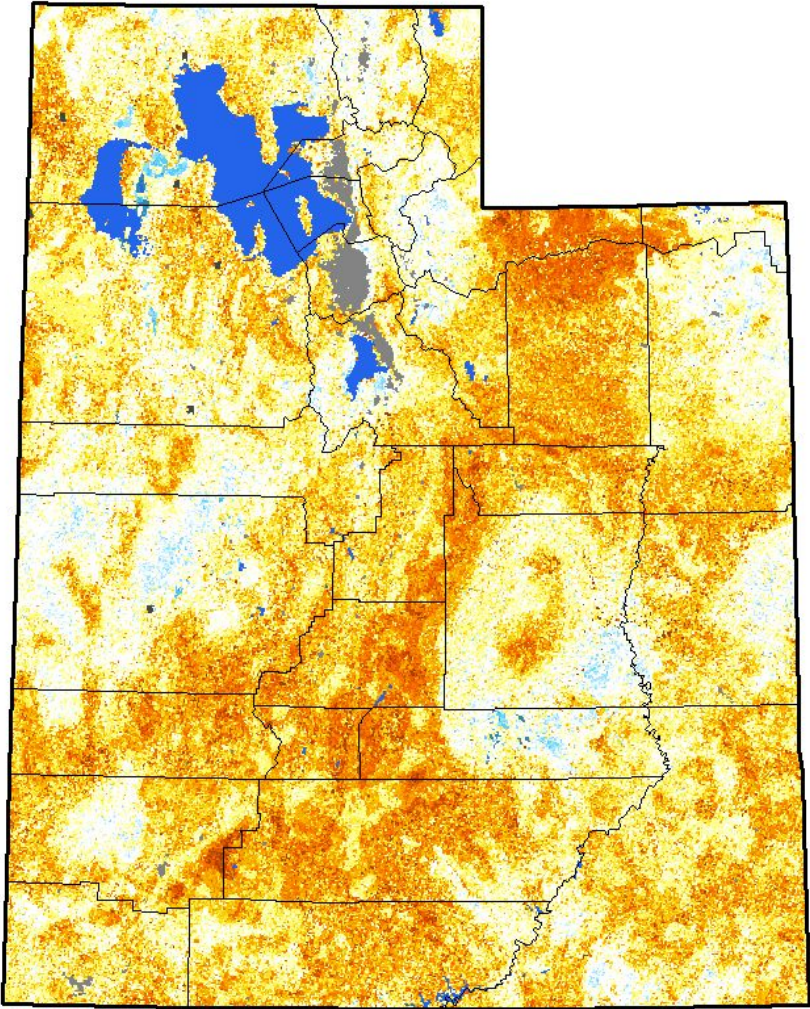
Generated 6/21/2022 at WRCC using provisional data.
NOAA Regional Climate Centers

30-day Standardize Precip Index

30-day Standardized Precipitation Index: 2022/05/22 - 2022/06/20



QuickDri



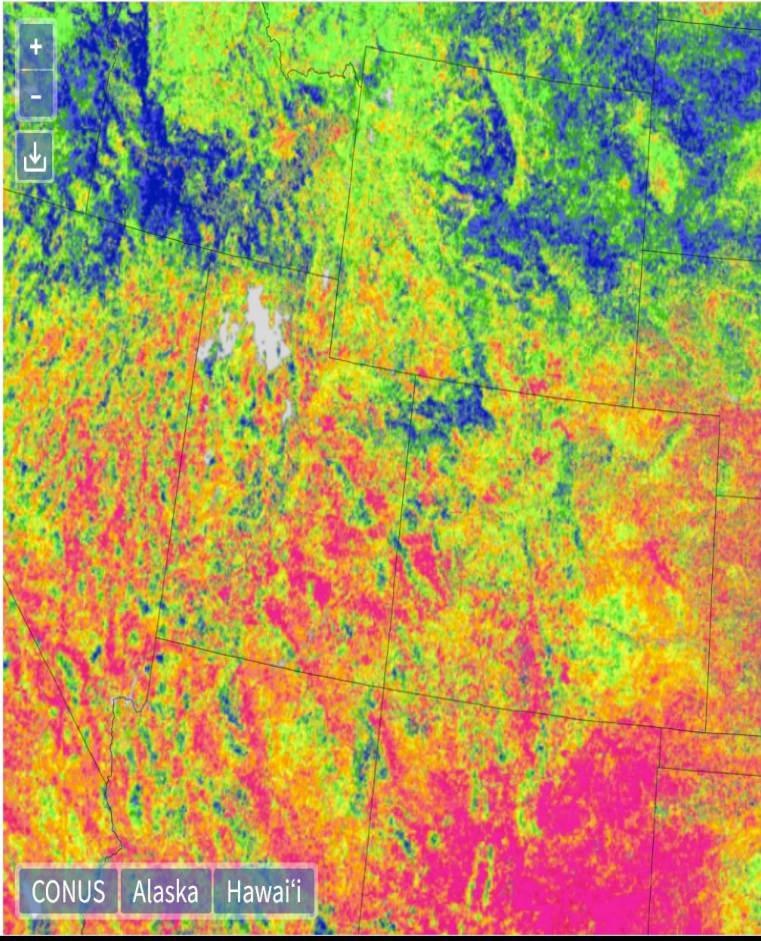
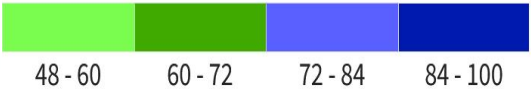
Evaporative Stress Index VegDRI Vegetation Health Index

NOAA's Center for Satellite Applications and Research produces satellite-based global vegetation health products, including the vegetation health index (VHI). VHI is a proxy characterizing vegetation health or a combined estimation of moisture and thermal conditions. Vegetation health is often used to estimate crop condition and anticipated yield. If the indices are below 40, indicating different levels of vegetation stress, losses of crop and pasture production might be expected; if the indices above 60 (favorable conditions), plentiful production might be expected. [Learn more.](#)

Unfavorable Conditions



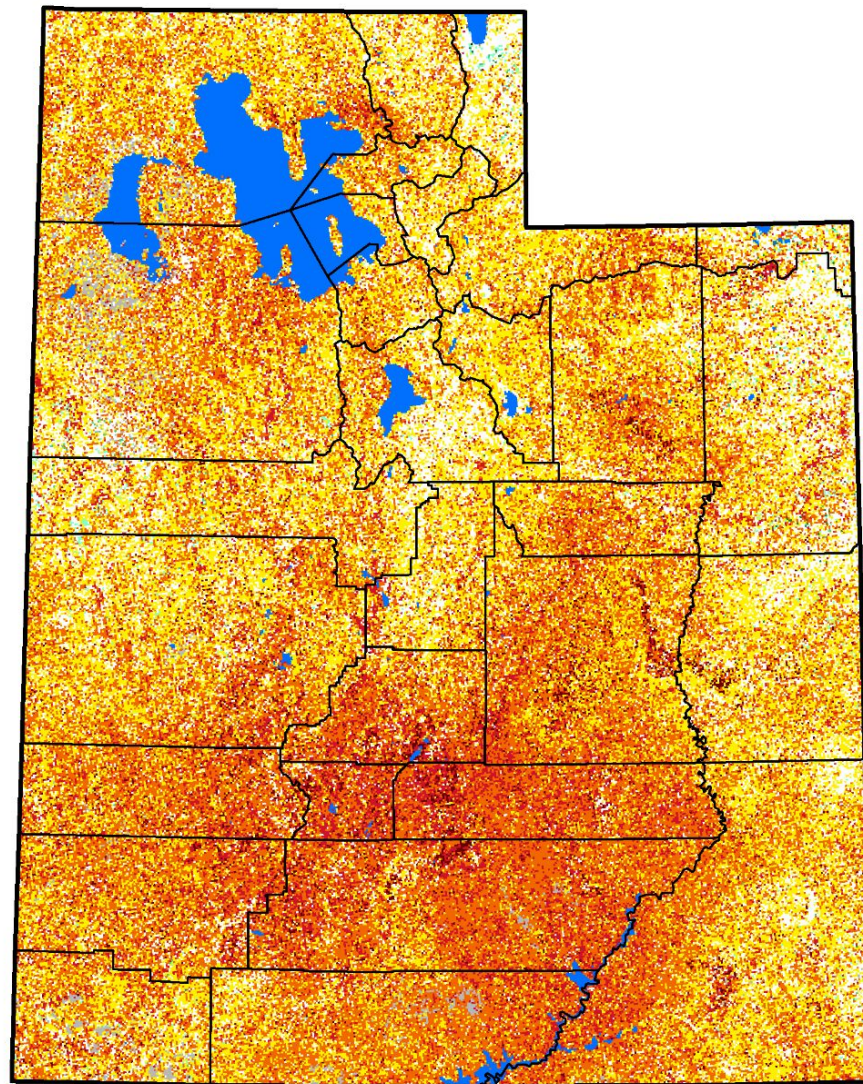
Favorable Conditions



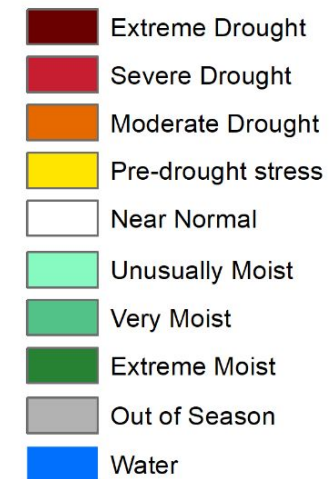
Vegetation Drought Response Index

Complete: Utah

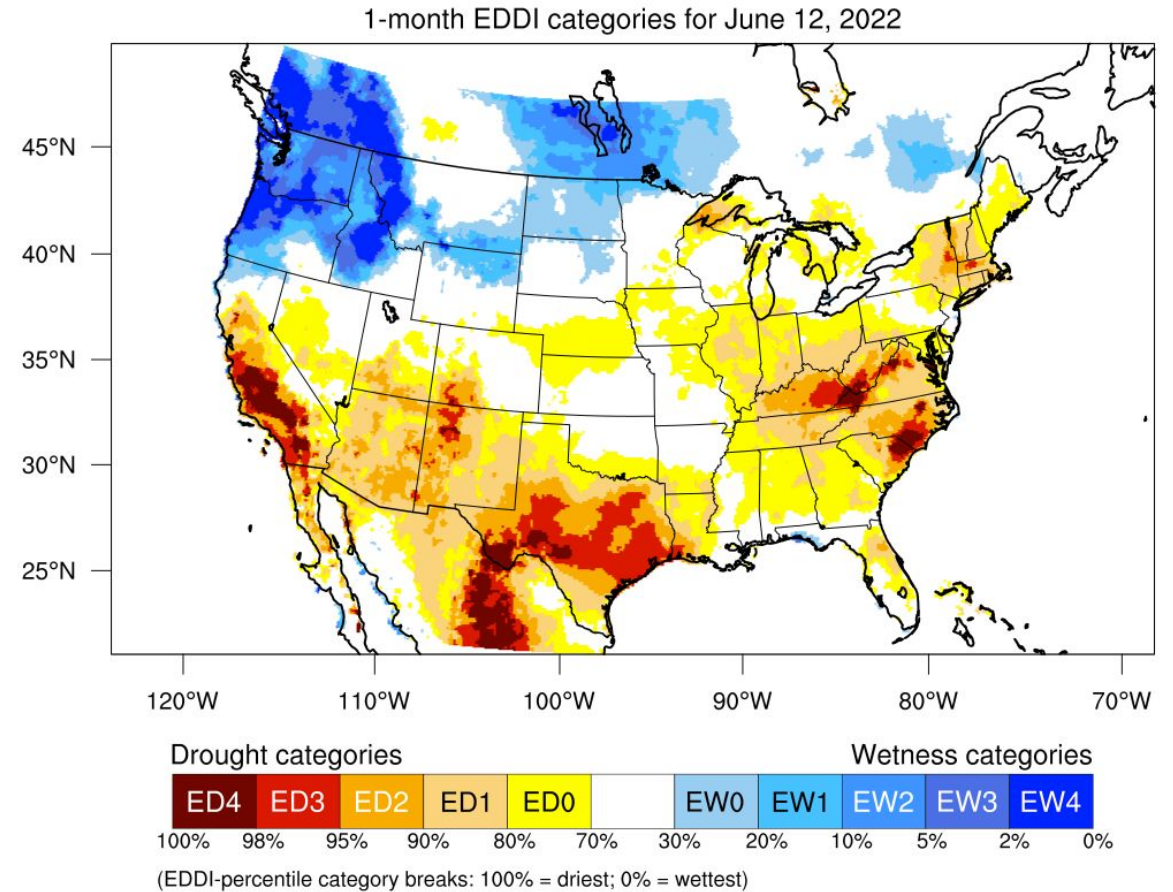
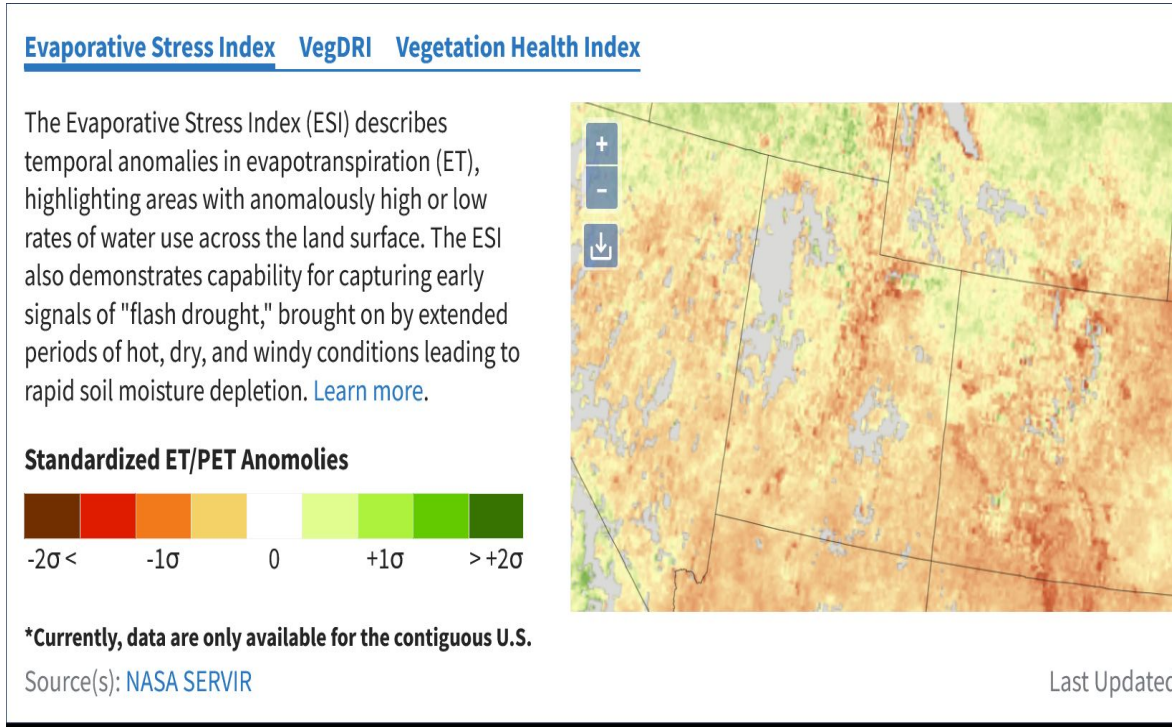
June 19, 2022



Vegetation Condition

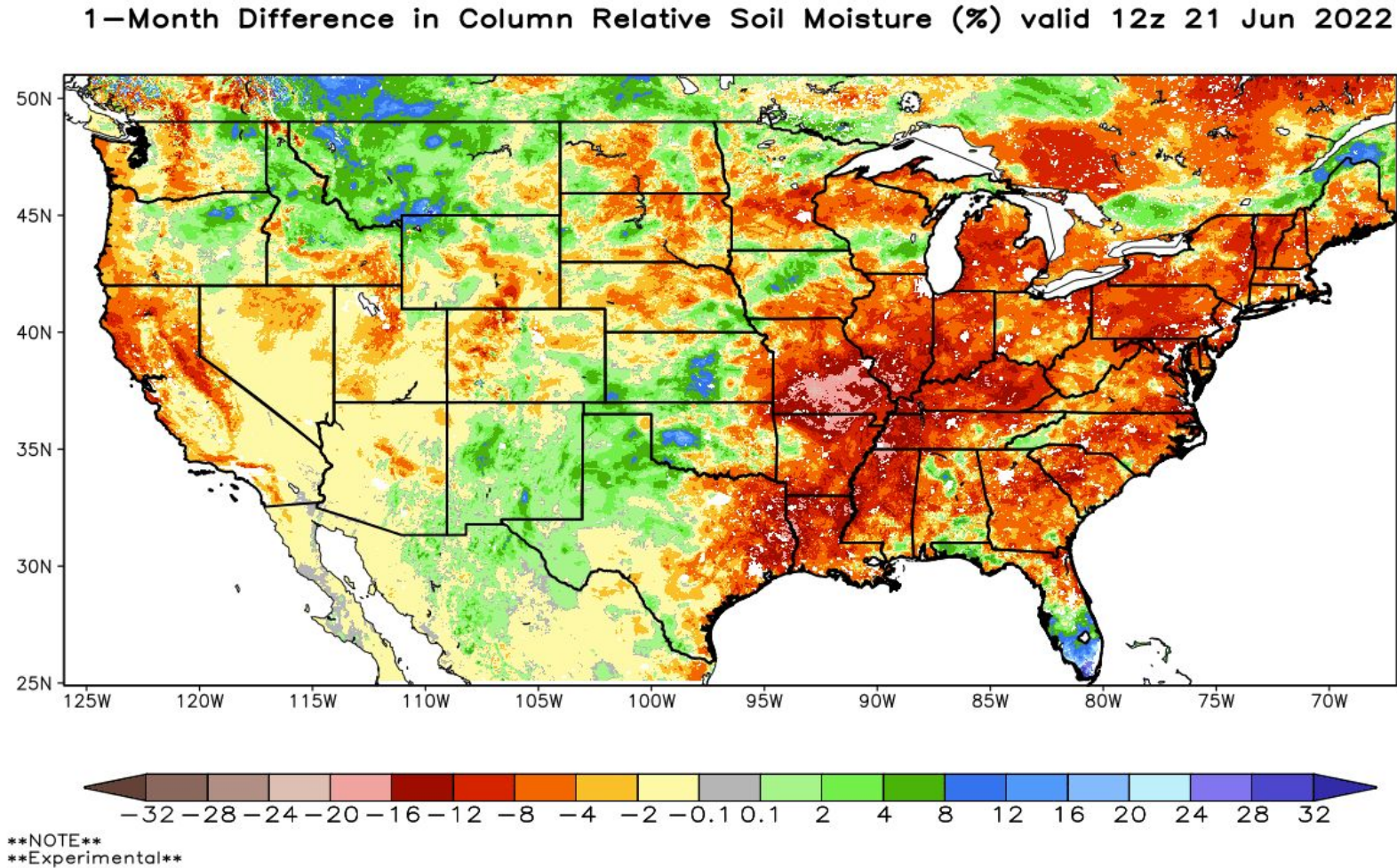


QuickDri

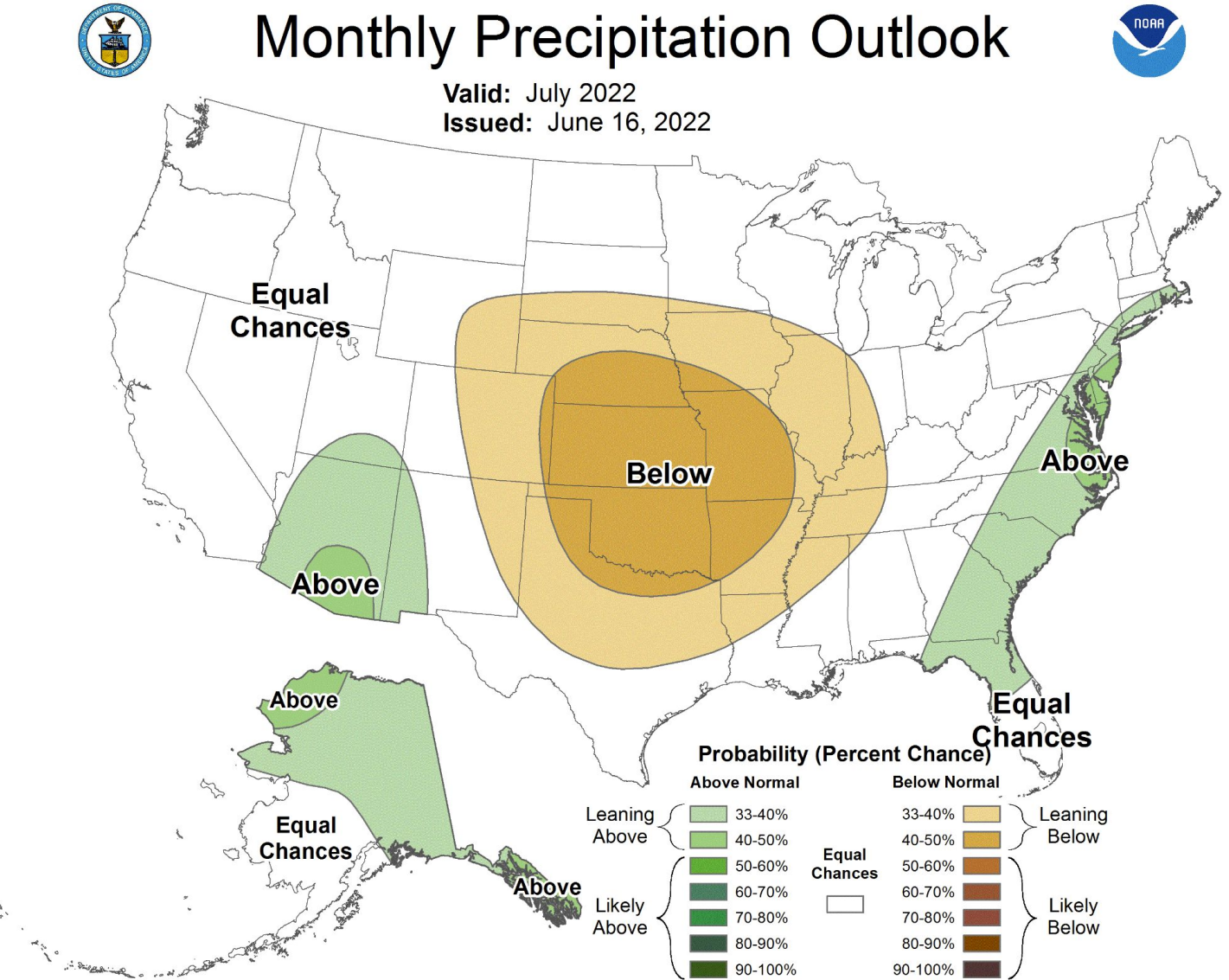
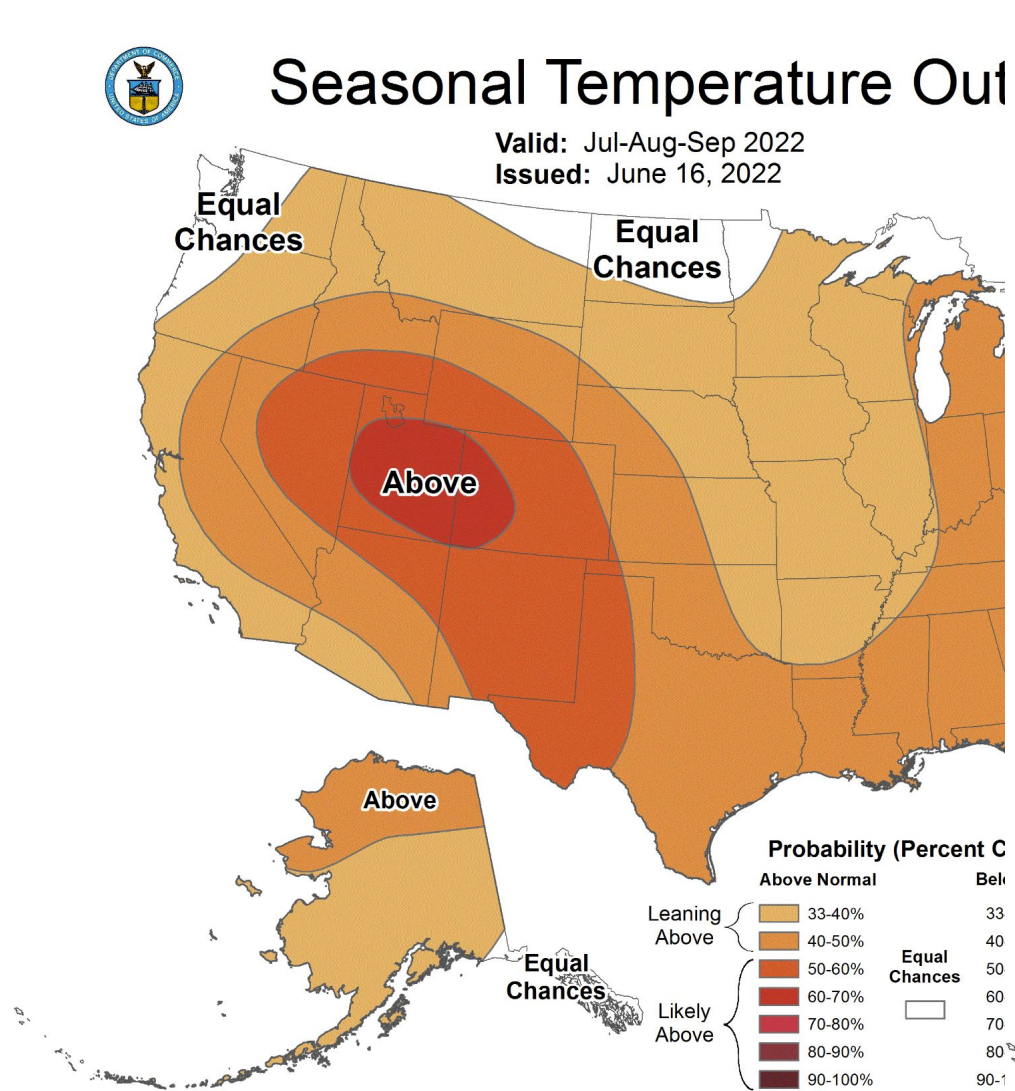


Generated by NOAA/ESRL/Physical Sciences Laboratory

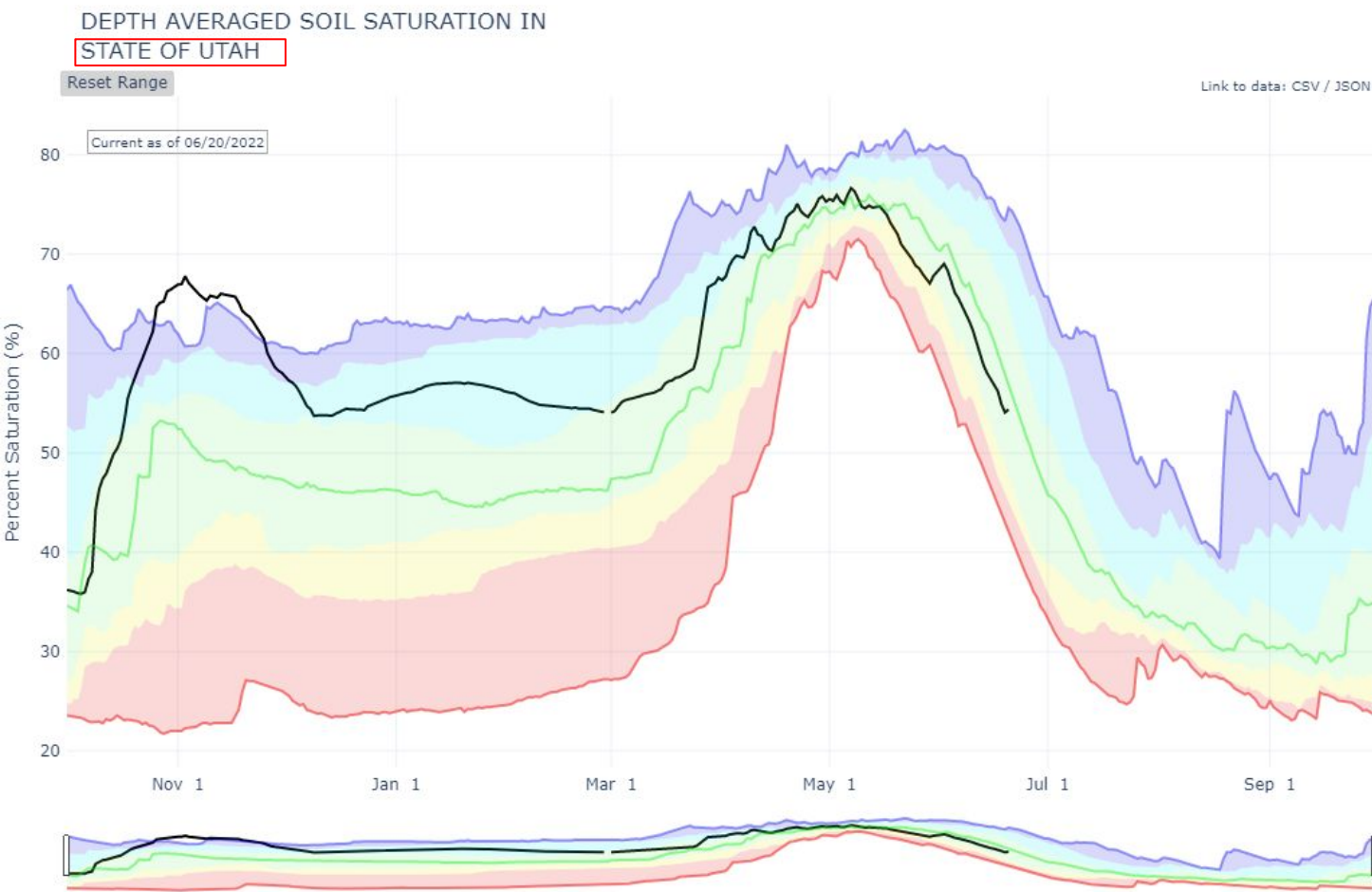
1-month soil moisture change



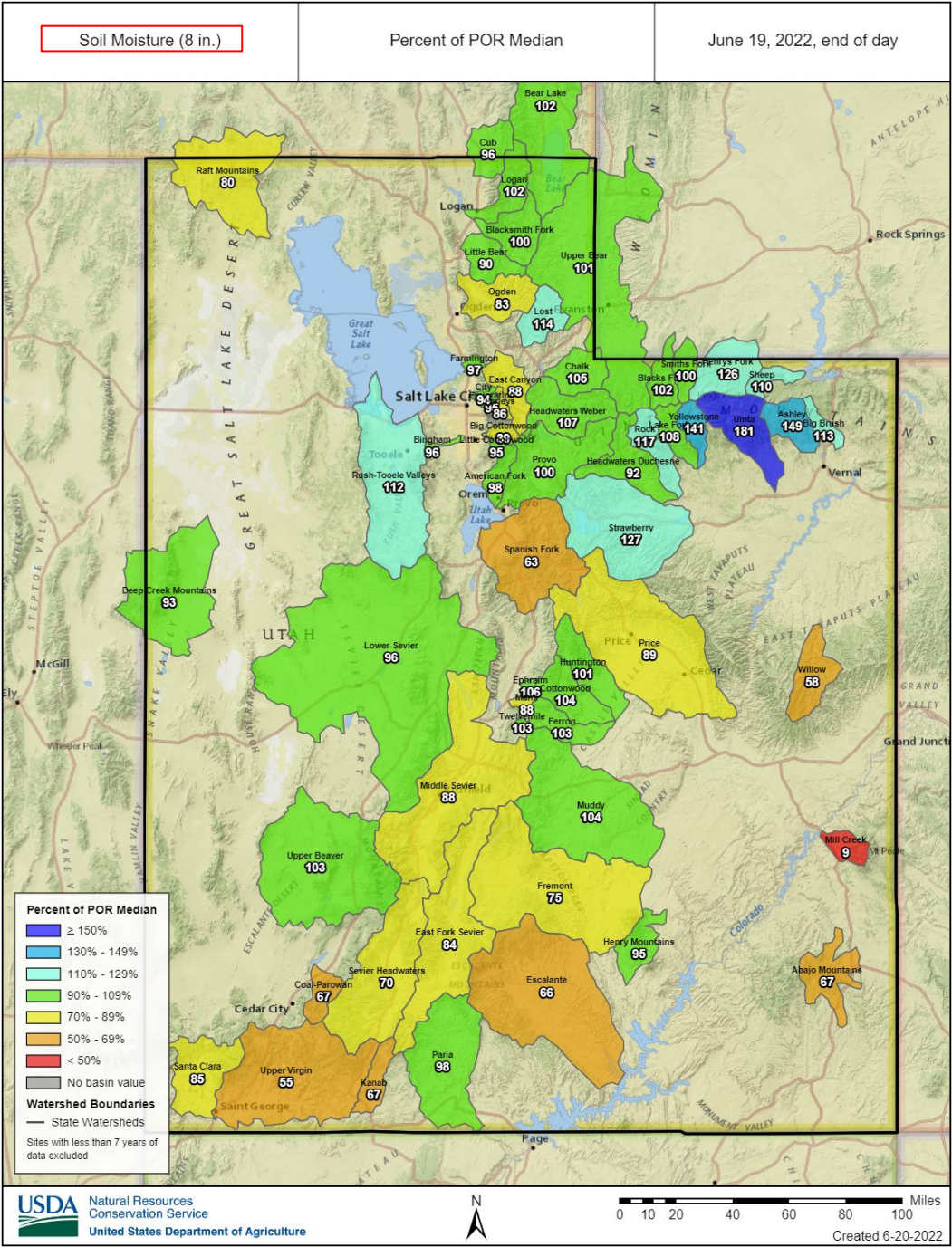
CPC one-month outlook



Soil Moisture

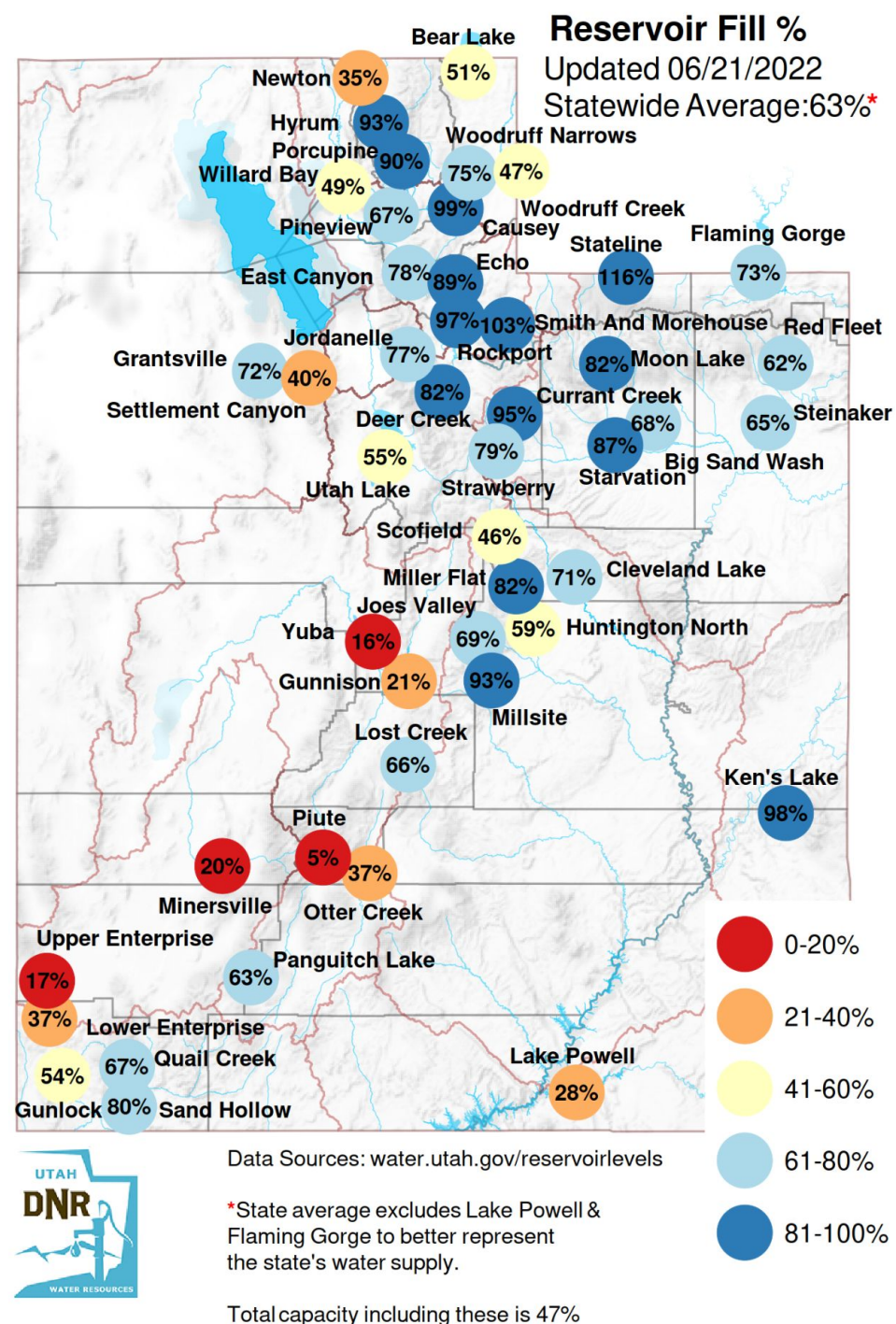


Agency - NRCS Snow Survey
slide from Jordan Clayton



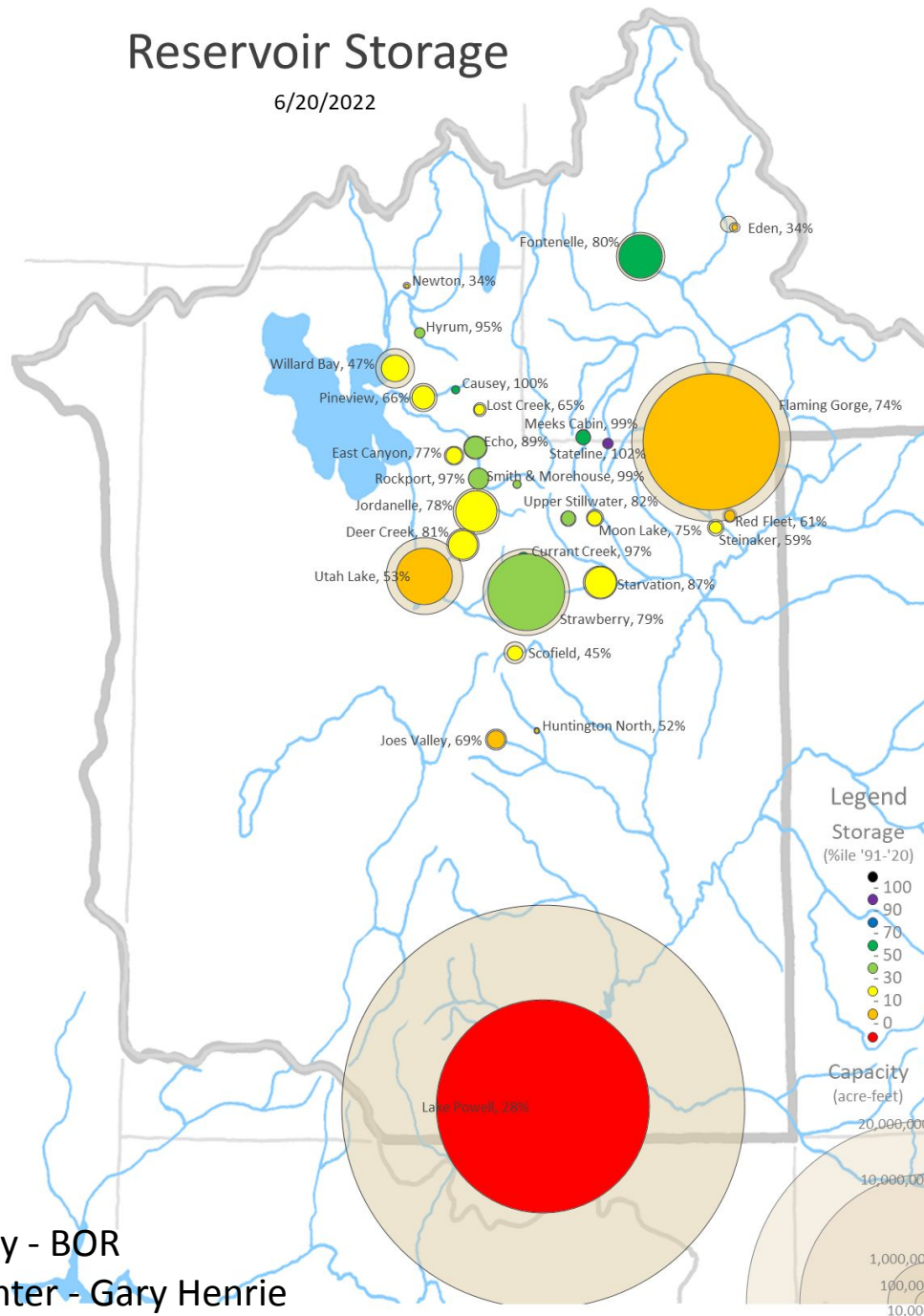
River Basin Reservoir Storage

Bear River: 52% current, 61% last year
 Cedar/Beaver: 20% current, 28% last year
 Sevier: 20% current, 30% last year
 Uintah Basin: 80% current, 80% last year
 Utah Lake: 63% current, 72% last year
 Virgin River: 72% current, 77% last year
 Weber River: 69% current, 60% last year
 West Colorado: 62% current, 64% last year
 West Desert: 64% current, 61% last year

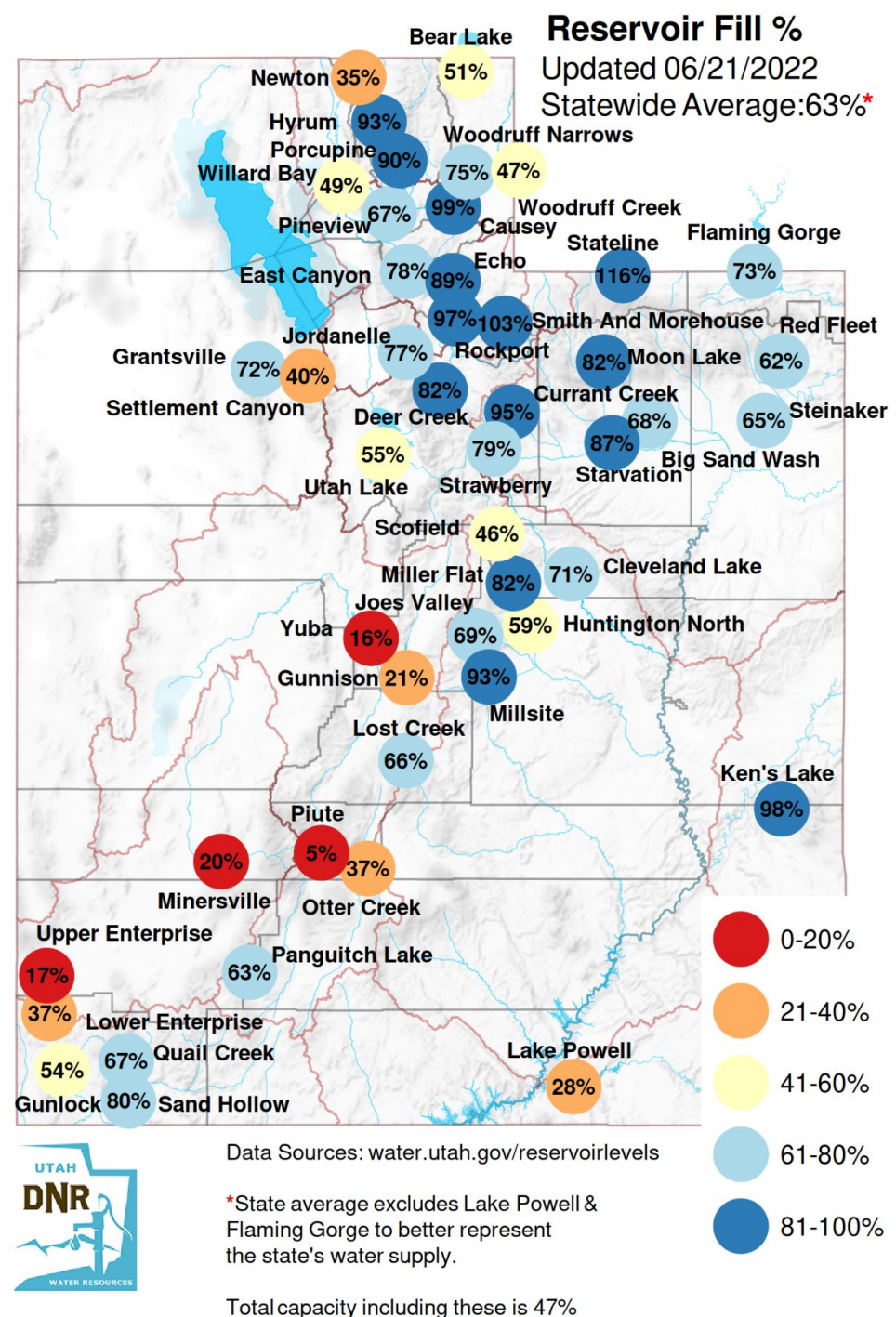


Reservoir Storage

6/20/2022



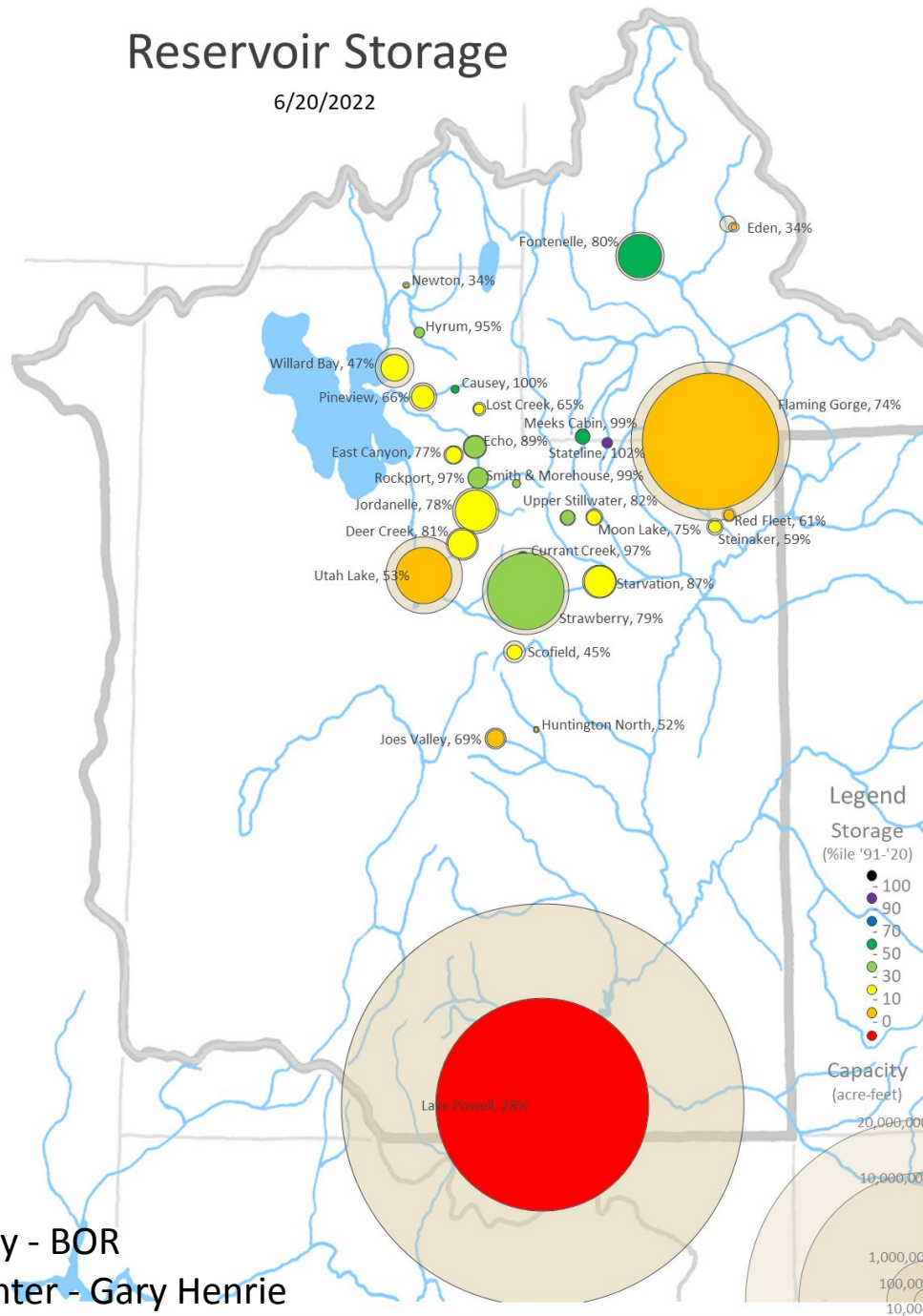
Agency - BOR
Presenter - Gary Henrie



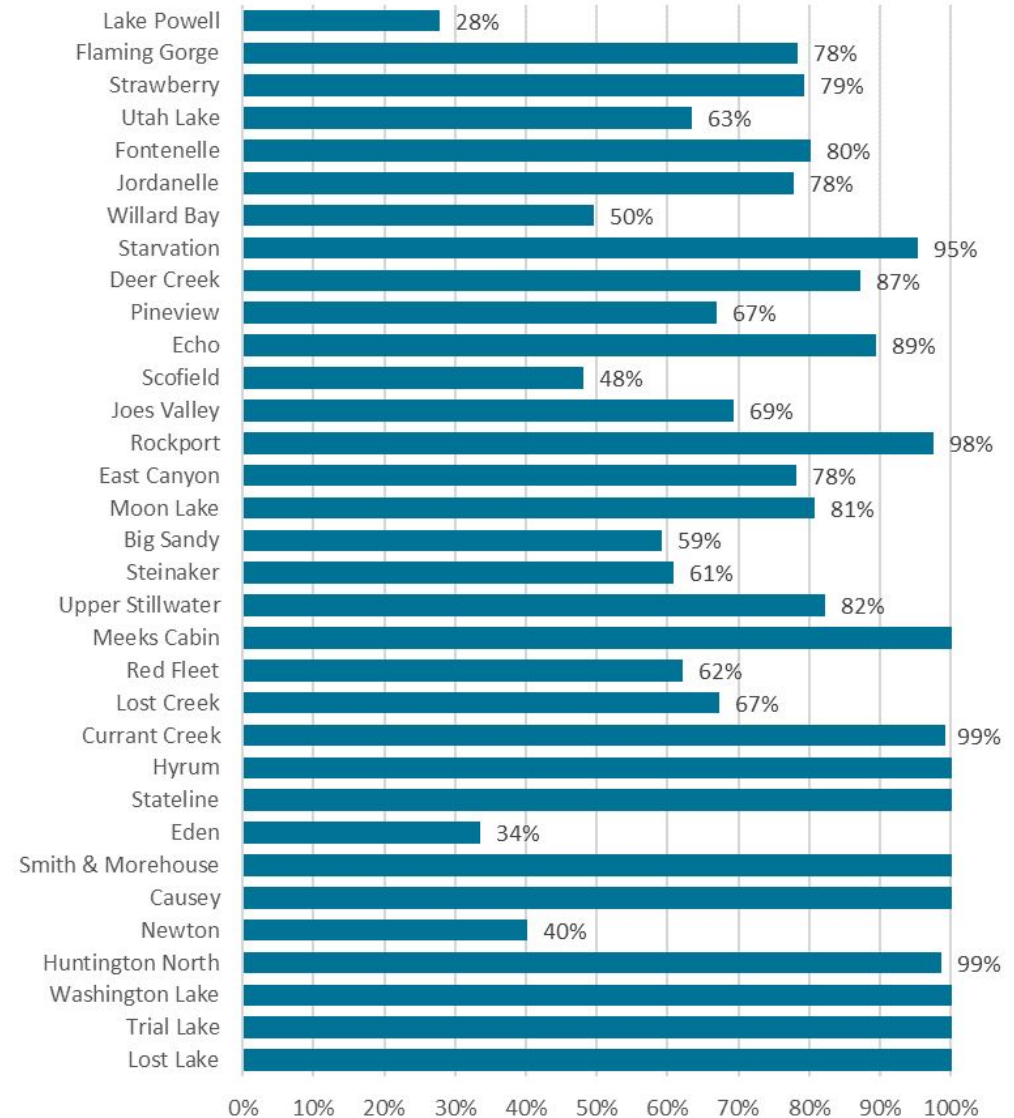
BUREAU OF
RECLAMATION

Reservoir Storage

6/20/2022



2022 Peak Reservoir Storage

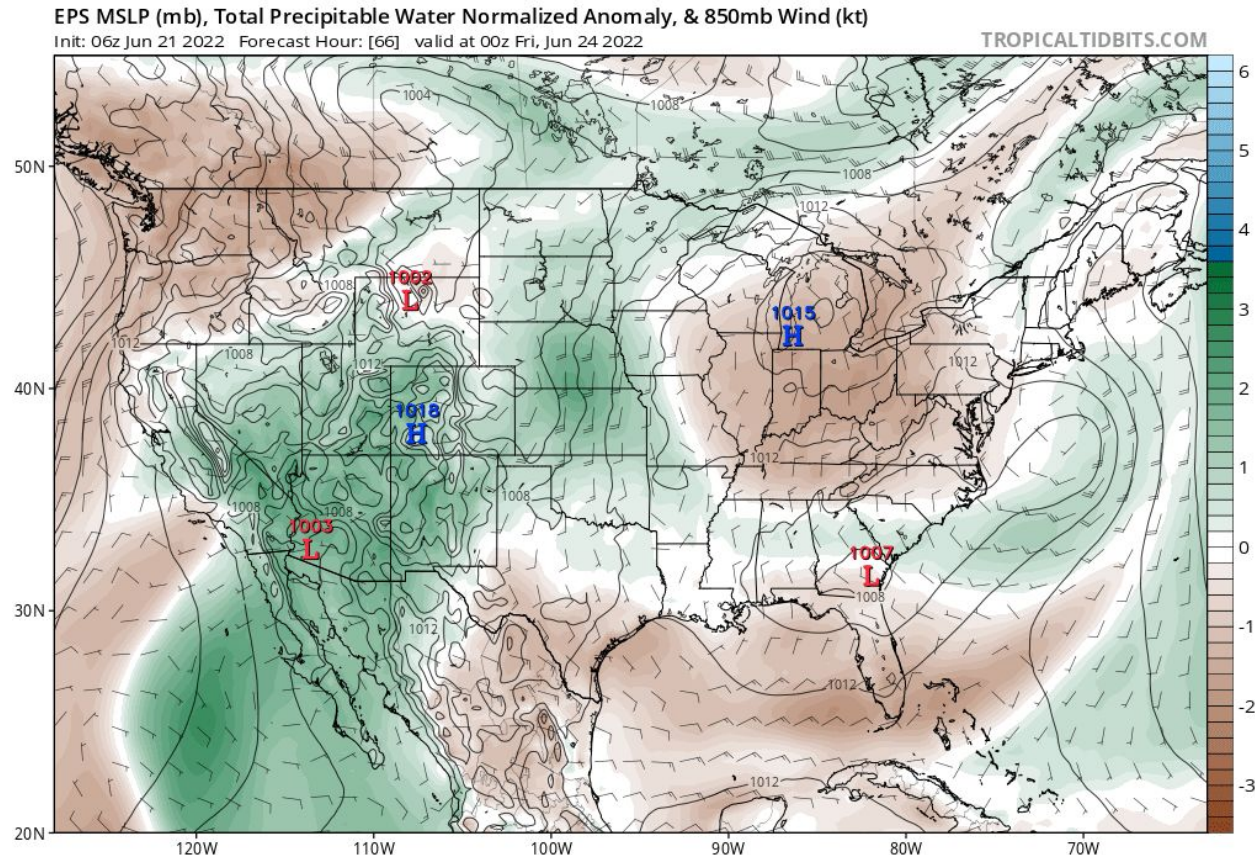
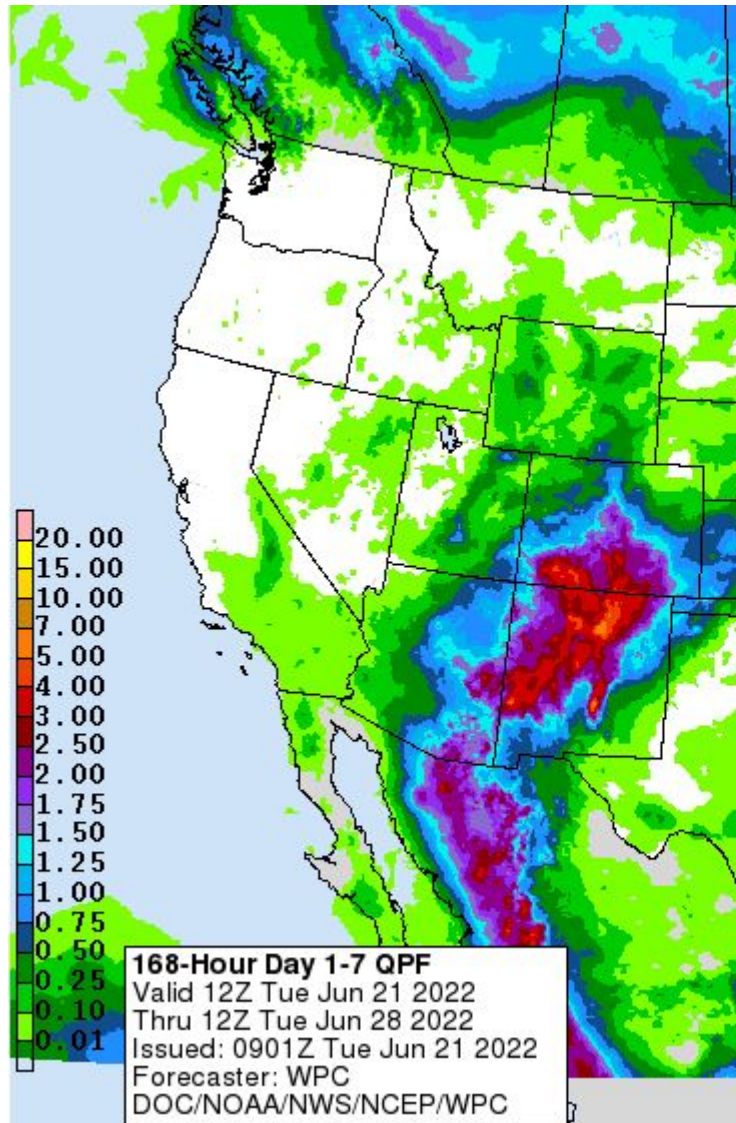


Agency - BOR
Presenter - Gary Henrie



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RECLAMATION

Weather Forecast Office Utah Day 1-7 Outlook

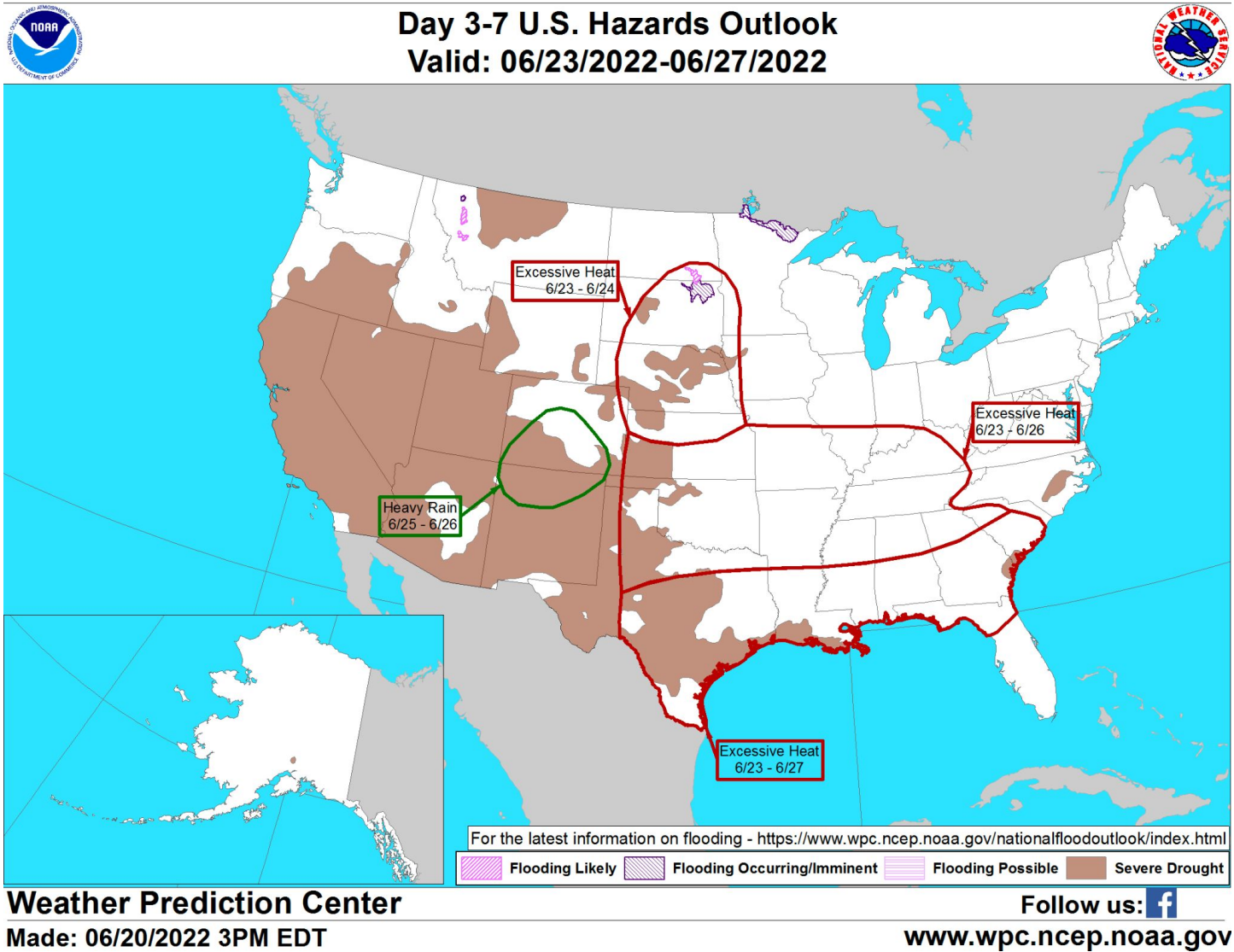


- An early sub-tropical moisture tap will spread north across the area beginning Wednesday.
- Scattered diurnal showers and thunderstorms expected each day thereafter. Most likely over the mountain spines and southeastern Utah.
- Near to slightly above normal temperatures expected.

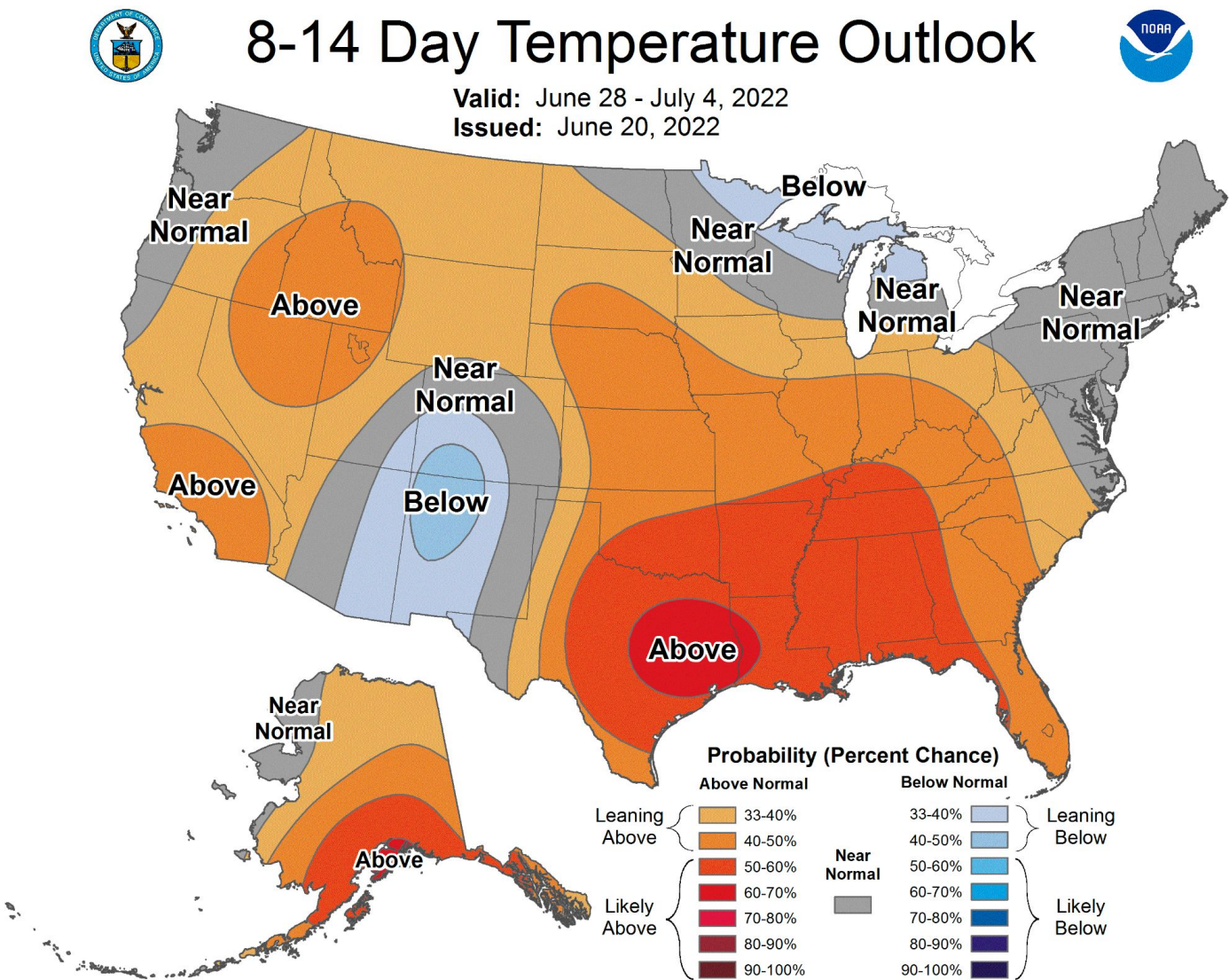
Agency - National Weather Service Weather Forecast Office

Presenter -

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



Climate Prediction Center 8 to 14 Day Outlooks - Temperature



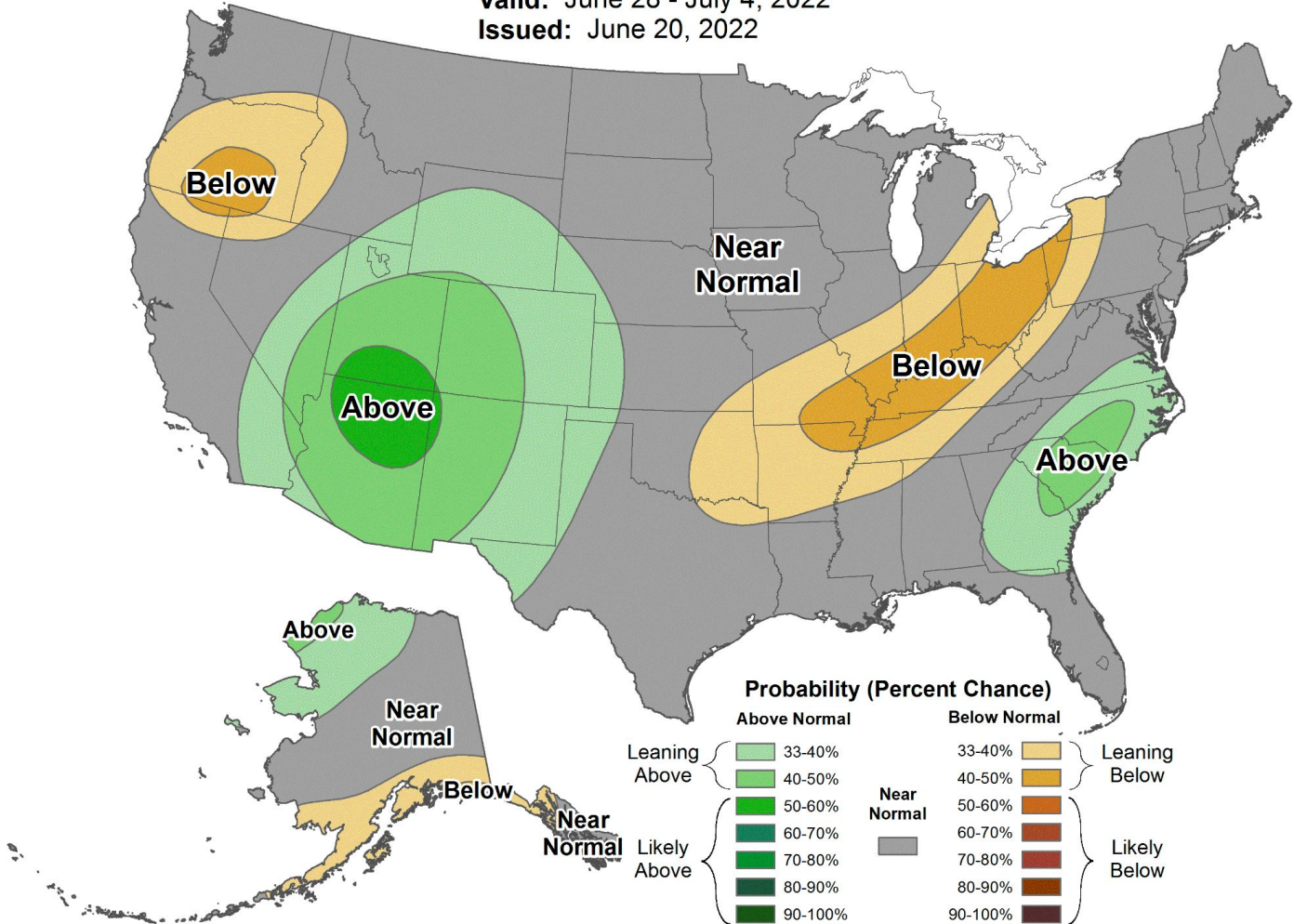
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



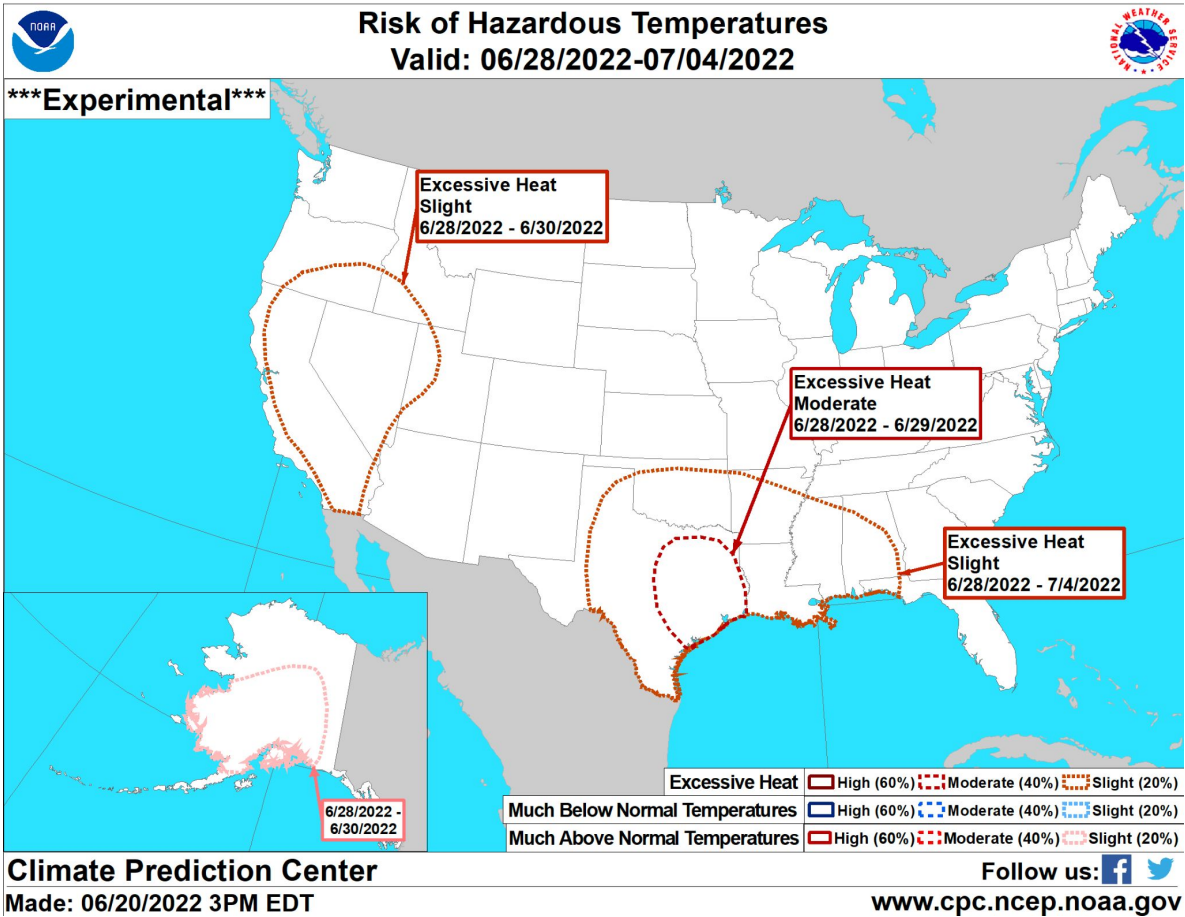
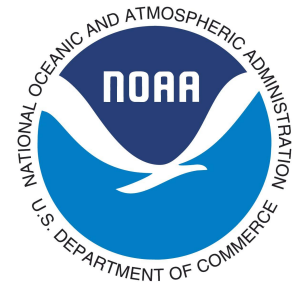
8-14 Day Precipitation Outlook



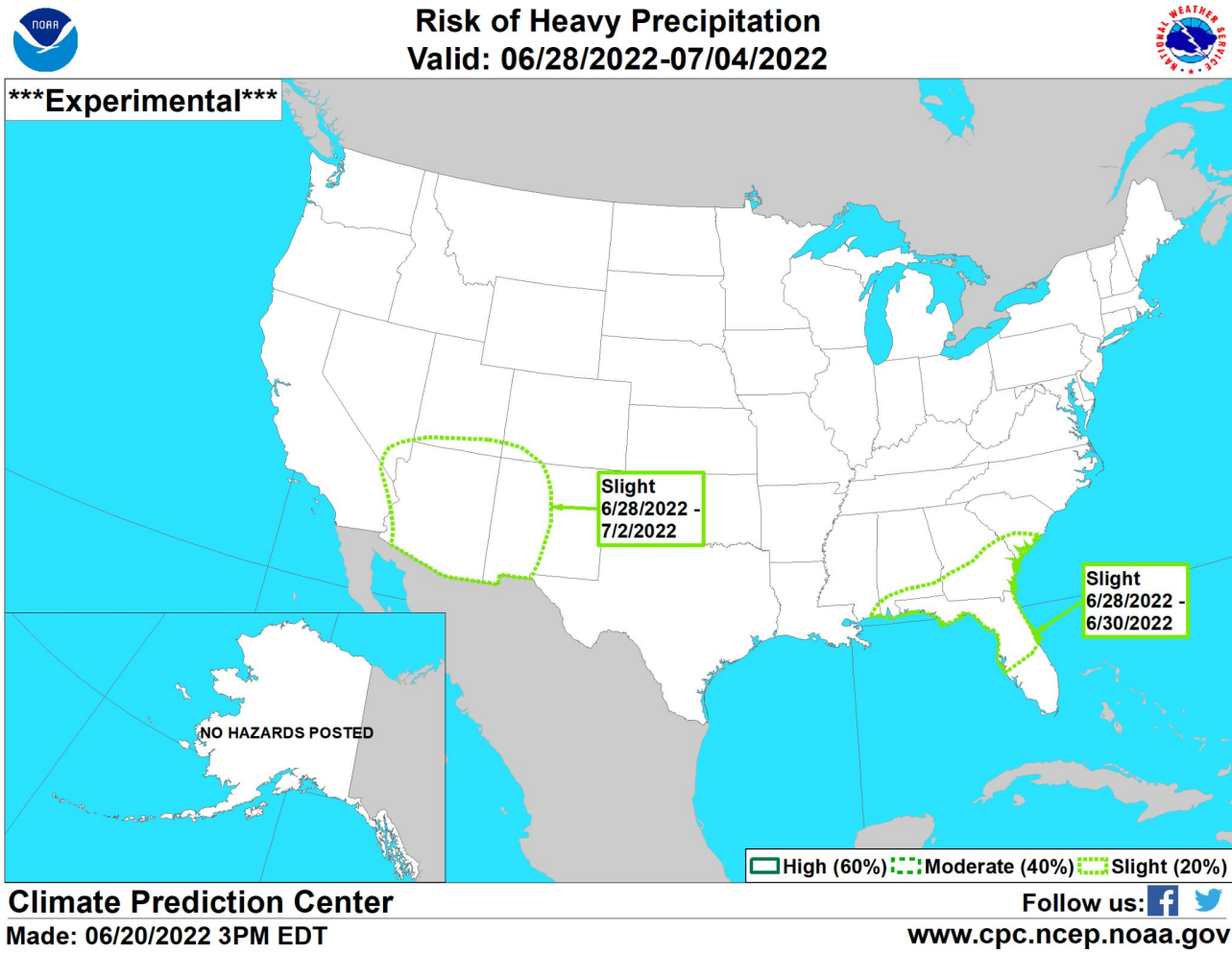
Valid: June 28 - July 4, 2022
Issued: June 20, 2022

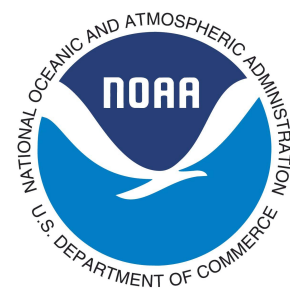


Climate Prediction Center U.S. Week-2 Hazards Outlook



Agency - National Weather Service Weather Forecast Office
Presenter -





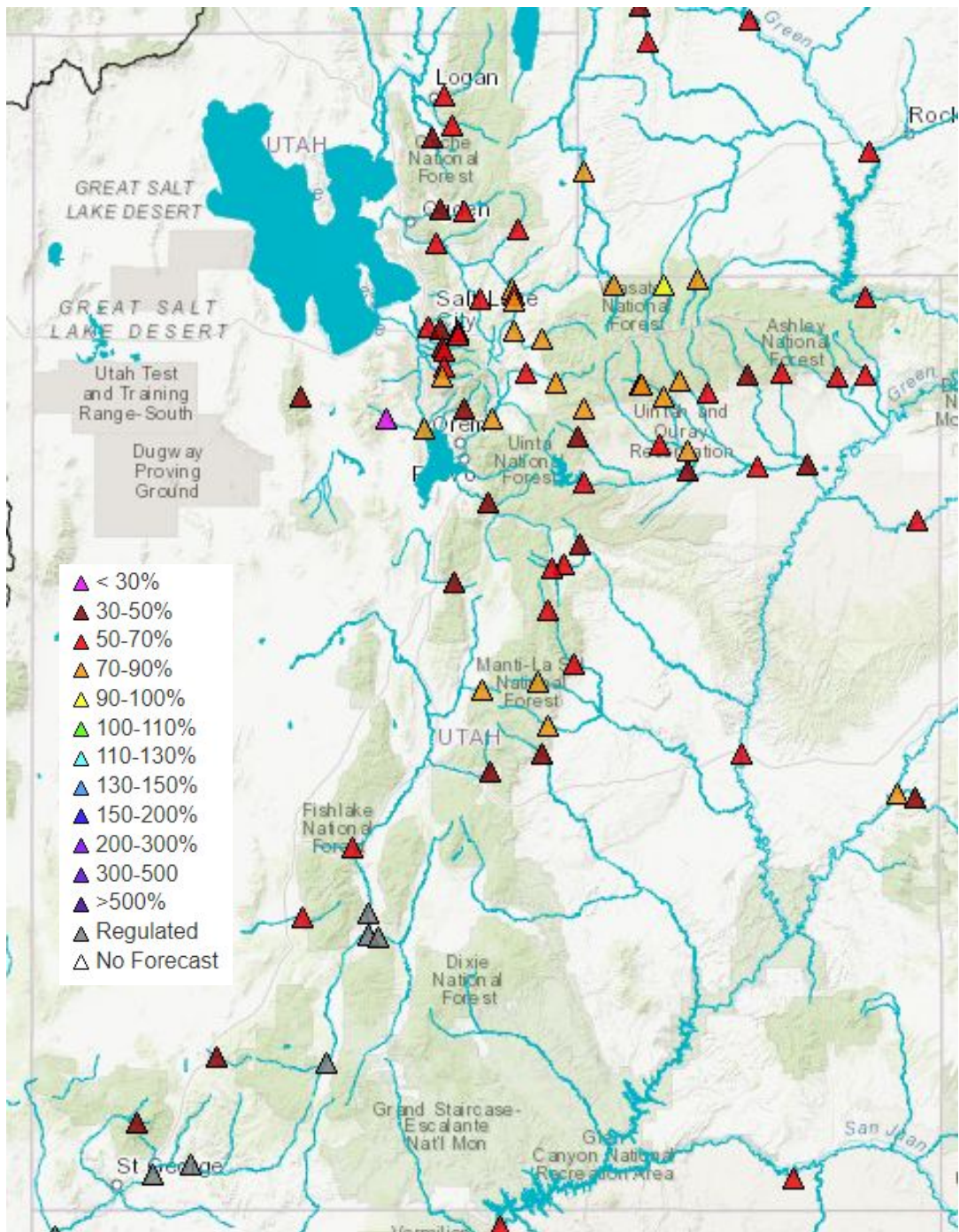
Last mid-month seasonal water supply forecasts for Water Year 2022 were sent out earlier this month. Provisional observed seasonal volumes will be available in early August.

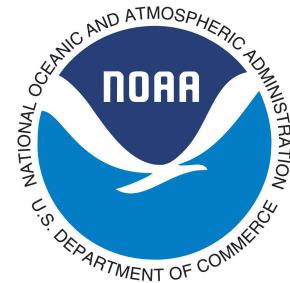
Summer is typically a time for development in our office; we anticipate that we're going to be able to update our verification statistics and metrics. Let us know if there's a priority that we can help you all with. We'll share developments on this call throughout the year.

We remain available to help with your decision support needs; please feel free to contact myself or Patrick.

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patrick.kormos@noaa.gov





NOAA & NRCS FORECAST COMPARISON TOOL

FORECASTING PARADIGMS

AREA

MONTH

YEAR

PROBABILITY

GREEN

COLORADO

SAN JUAN

GREAT

SEVIER

VIRGIN

LOWER COLORADO

JAN

FEB

MAR

APR

MAY

JUN

2022

2021

2020

MIN 90

P 70

MOST PROB

P 30

MAX 10

COLUMNS

FILTERS

DENSITY

EXPORT

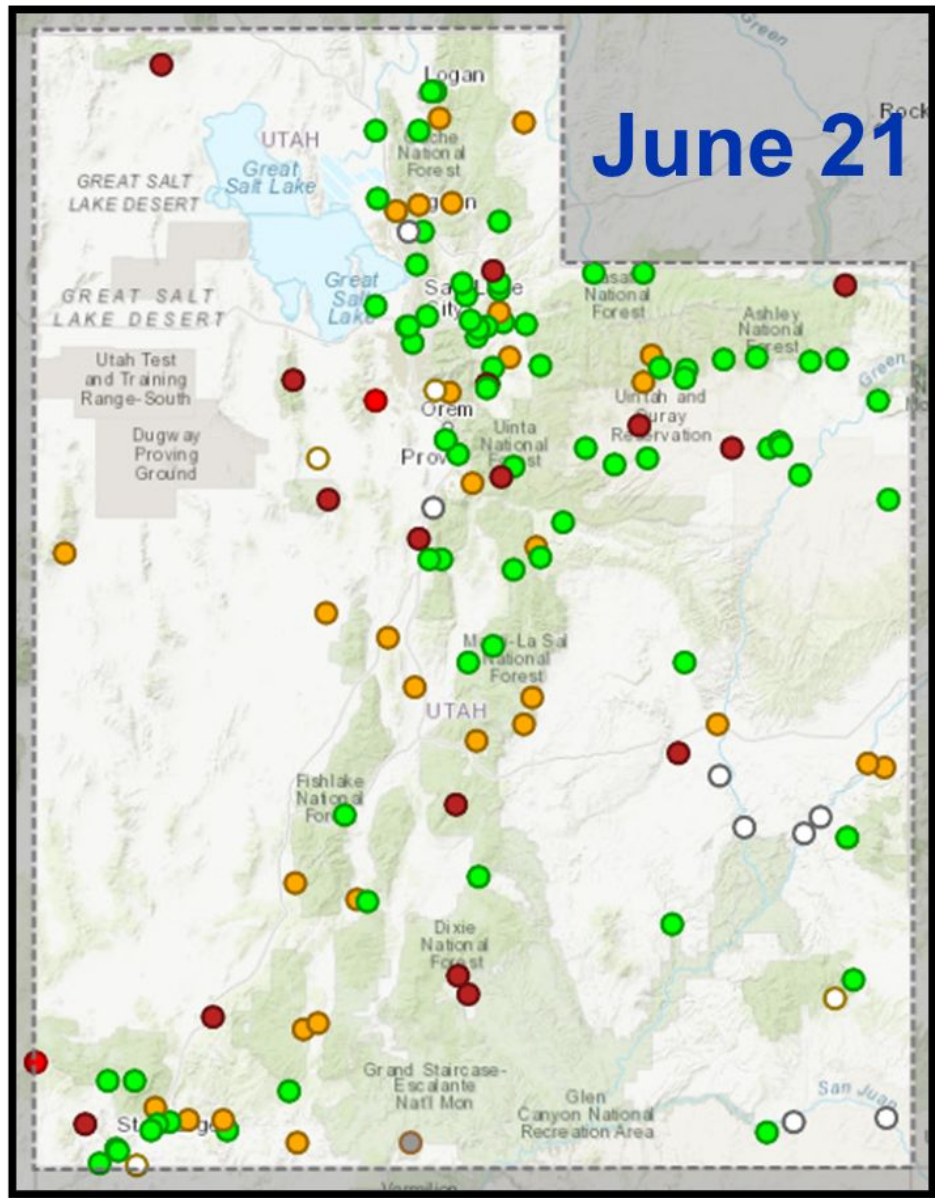
AVERAGE

MEDIAN

Area	Stator ID	USGS Station ID	River	Location	Fcst Period	CBRFC Fcst (KAF)	CBRFC Avg (KAF)	RFC % of Avg	NRCS Fcst (KAF)	NRCS Avg (KAF)	NRCS % of Avg	Difference (NRCS-CBRFC)	Difference % (NRCS-CBRFC)	
UT	SL	AFPU1		AMERICAN FORK	AMERICAN FORK; NR; UP PWRPLNT; ABV	6-7	5.8	16	36					
UT	SL	BCTU1		BIG COTTONWOOD CK	SALT LAKE CITY; NR	6-7	10.6	18	60					
UT	SL	BERU1	10011500	BEAR	UTAH	4-7	82	109	75	94	109	86	12	14
UT	SL	CASU1		SPANISH FORK	CASTILLA; NR	6-7	6.5	19	35					
UT	SL	CCSU1		CITY CK	SALT LAKE CITY; NR	6-7	1.68	3	54					
UT	SL	CIVU1		CHALK CK	COALVILLE	6-7	5.7	13	43					
UT	SL	CLLU1		WEBER	COALVILLE; NR	6-7	25	55	45					
UT	SL	CRAU1		LOST CK	LOST CK RESERVOIR; CROYDEN; NR	6-7	1.15	3	37					
UT	SL	DCRU1		PROVO	DEER CK RESERVOIR	6-7	24	50	46					
UT	SL	DELU1		DELL FK	LITTLE DELL RESERVOIR	6-7	0.38	1	28					
UT	SL	ECBU1		WEBER	ECHO RESERVOIR; ECHO; AT	6-7	29	66	44					
UT	SL	ECRU1		EAST CANYON CK	EAST CANYON RESERVOIR; MORGAN; NR	6-7	2.8	7	41					
UT	SL	GATU1		WEBER	GATEWAY	6-7	35	92	38					
UT	SL	HRMU1	10113500	BLACKSMITH FORK	HYRUM; NR; UPNL DAM; ABV	4-7	19.2	37	52	21	37	57	1.8	9
UT	SL	LAMU1		LAMBS CK	SALT LAKE CITY; NR	6-7	0.79	2	34					

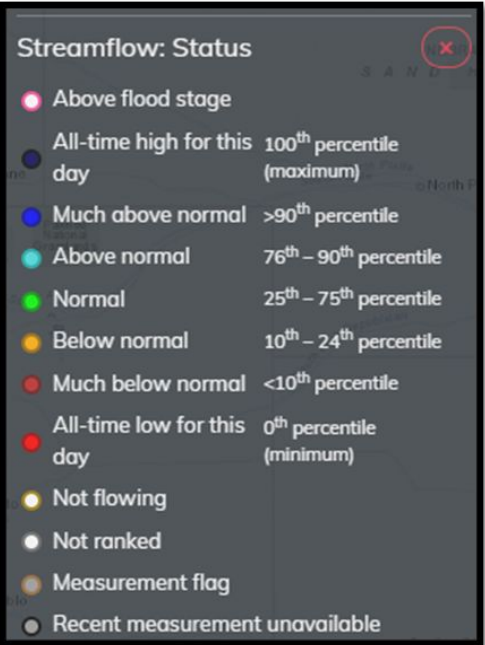
We now have a website accessible through our main page that will compare CBRFC and NRCS forecasts. Updates for this page will begin again in January for Water Year 2023, but shows water supply forecasts for all CBRFC and NRCS locations, and compares them where they overlap.

Current Streamflow Conditions



*Sites must have at least 10 years of streamflow record to be ranked on this graphic

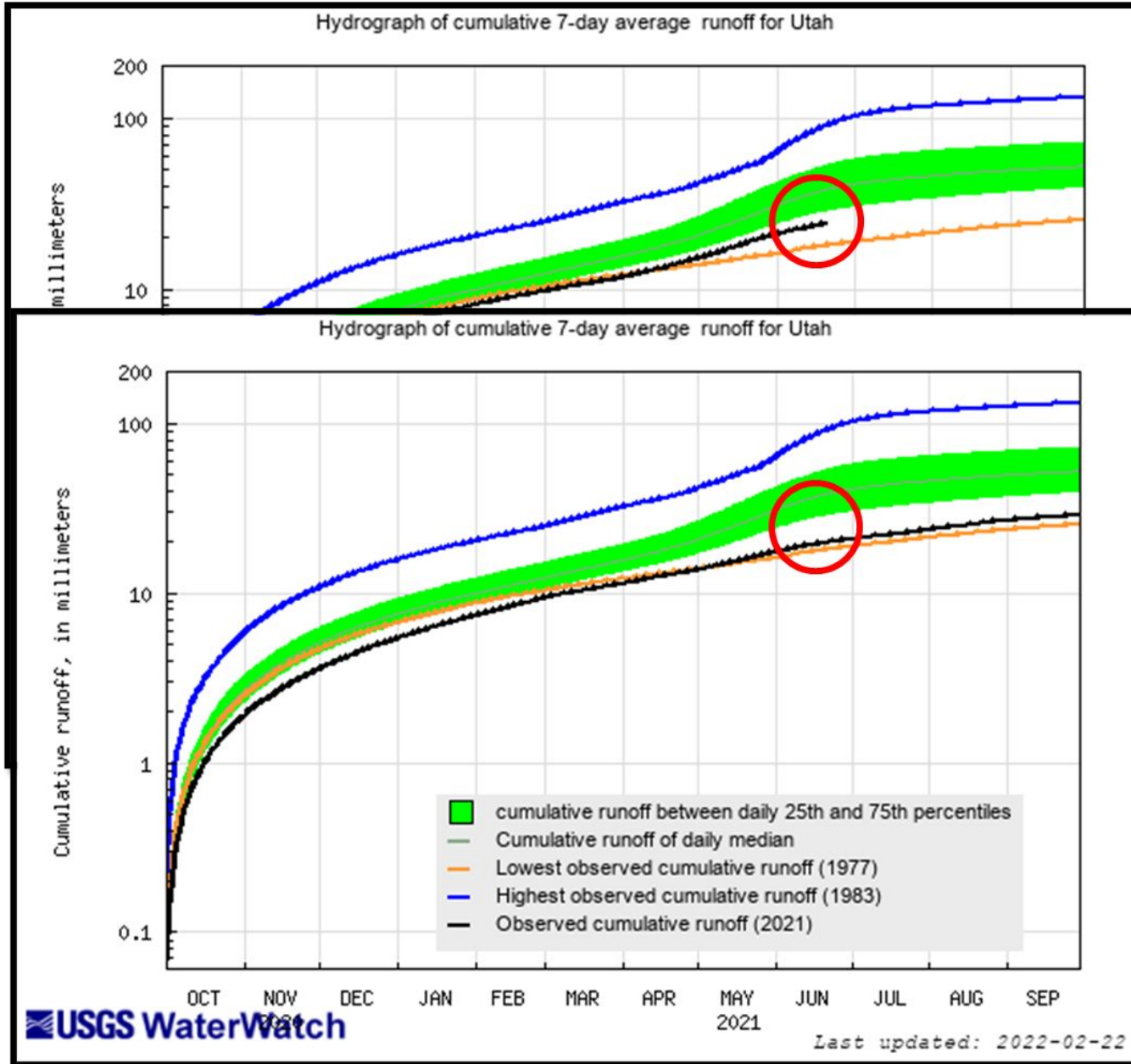
Day-of-Year Status	% Gages	% Gages
All-time high for this day-of-year	0.0%	0.0%
Much above normal for this day-of-year	0.0%	0.0%
Above normal for this day-of-year	0.0%	0.0%
Normal for this day-of-year	44.9% <div></div>	54.4% <div></div>
Below normal for this day-of-year	30.1% <div></div>	22.8% <div></div>
Much below normal for this day-of-year	14.0% <div></div>	11.8% <div></div>
All-time low for this day-of-year	2.2% <div></div>	1.5% <div></div>
Not ranked - insufficient record	6.6% <div></div>	6.6% <div></div>
Not ranked - stream not flowing	0.7% <div></div>	2.2% <div></div>
Not ranked - no measurement	1.5% <div></div>	0.7% <div></div>



Agency - USGS Utah WSC
Presenter - Ryan Rowland



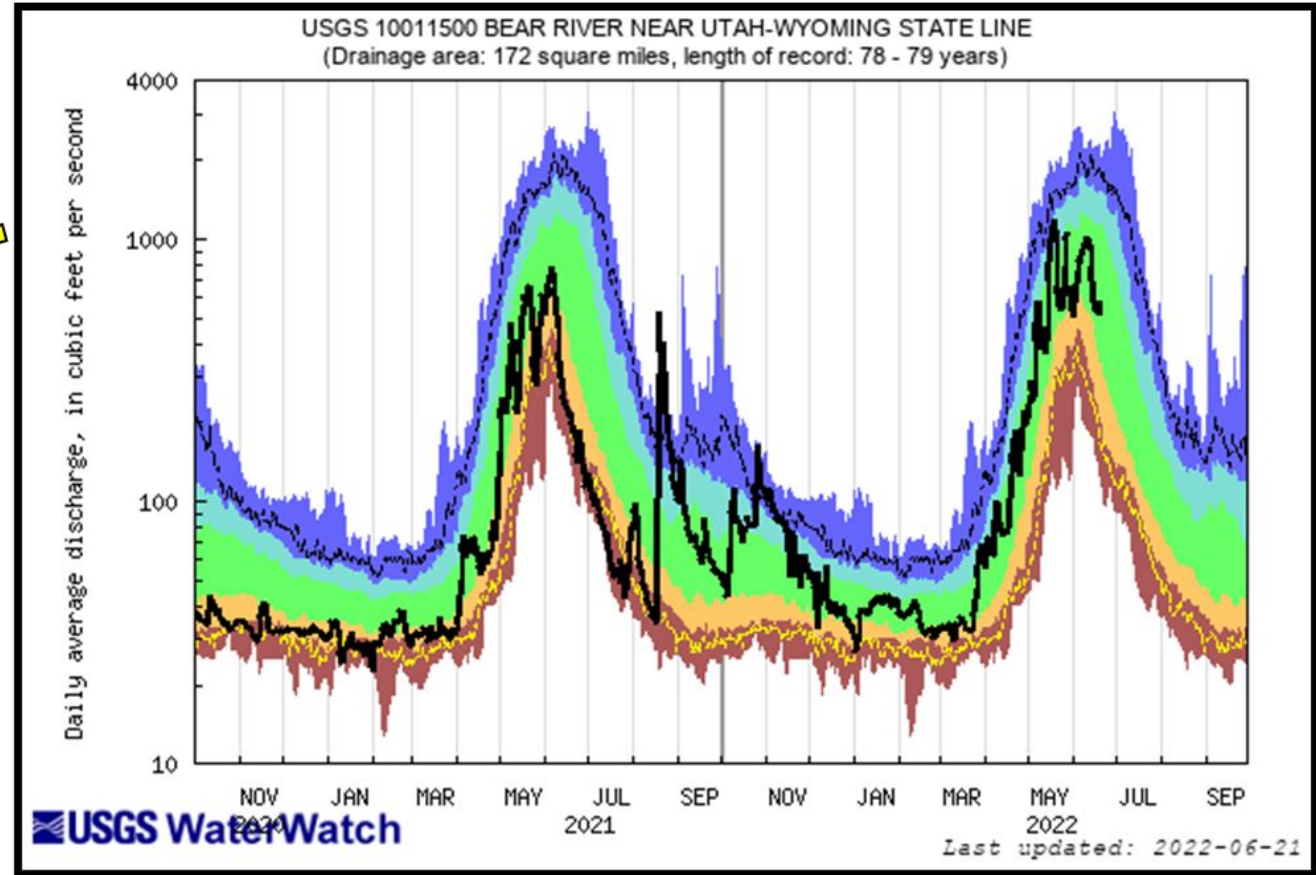
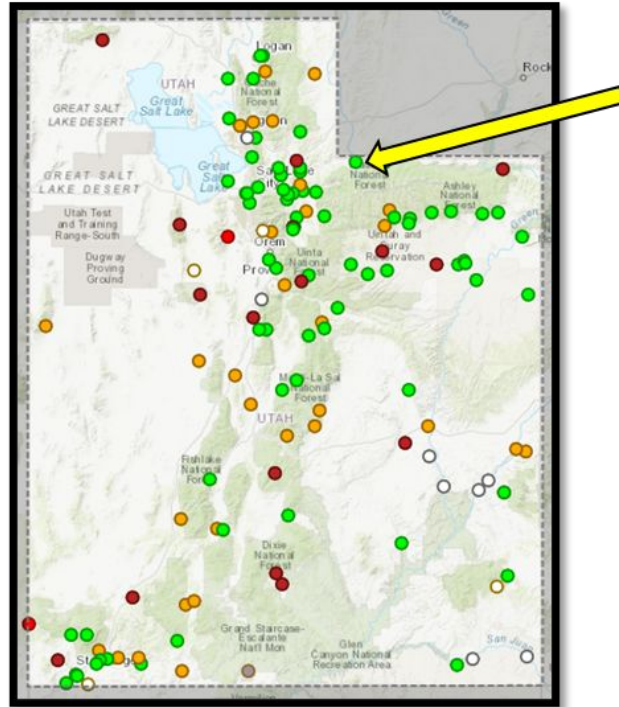
Area Based Cumulative Runoff for Utah



□ Area based runoff computed from mixed regulated and unregulated streamflows

Agency - USGS Utah WSC
Presenter - Ryan Rowland

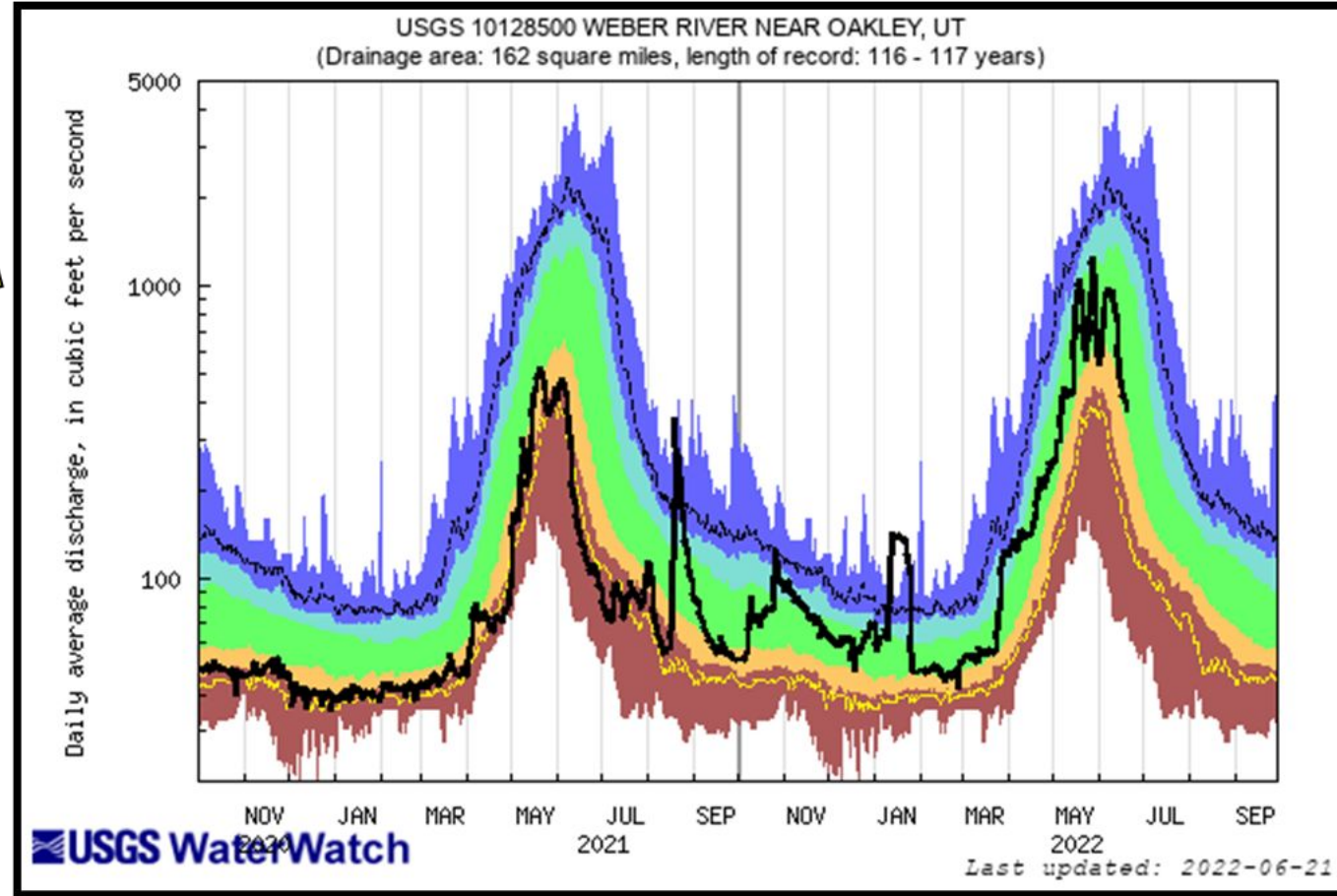
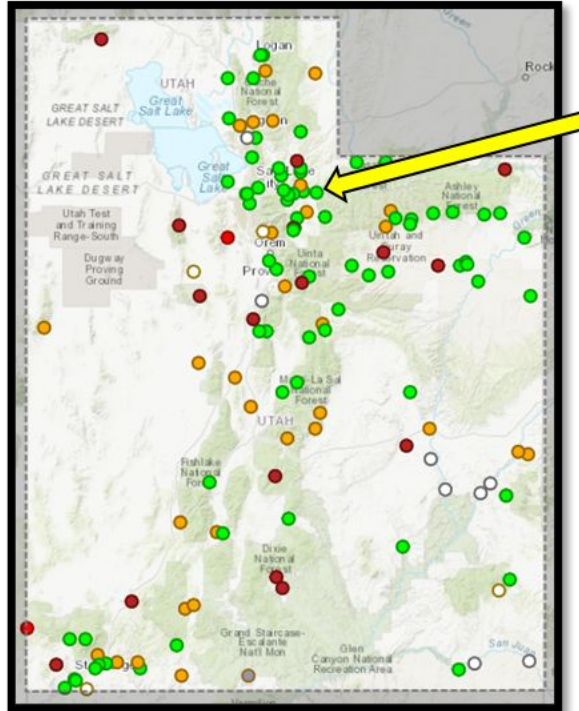
Streamflow at Selected Gages



Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile - highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

Agency - USGS Utah WSC
Presenter - Ryan Rowland

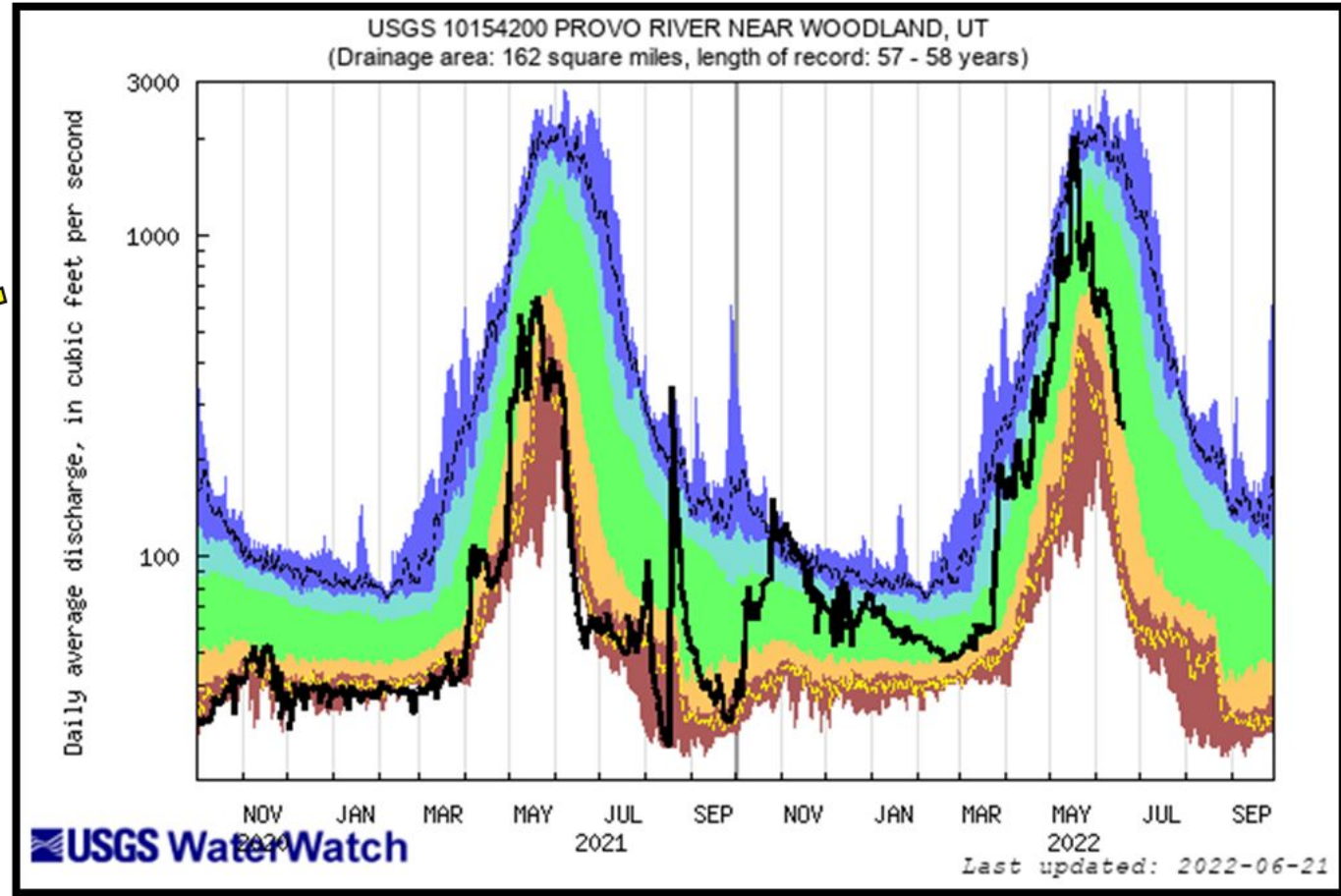
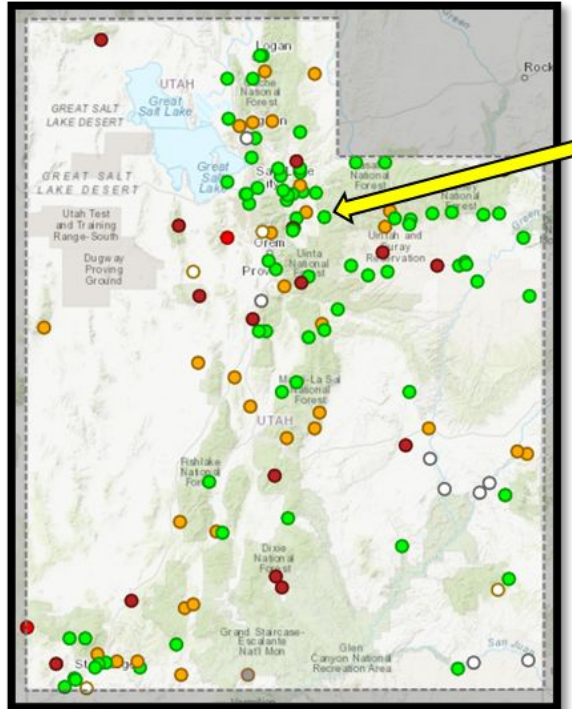
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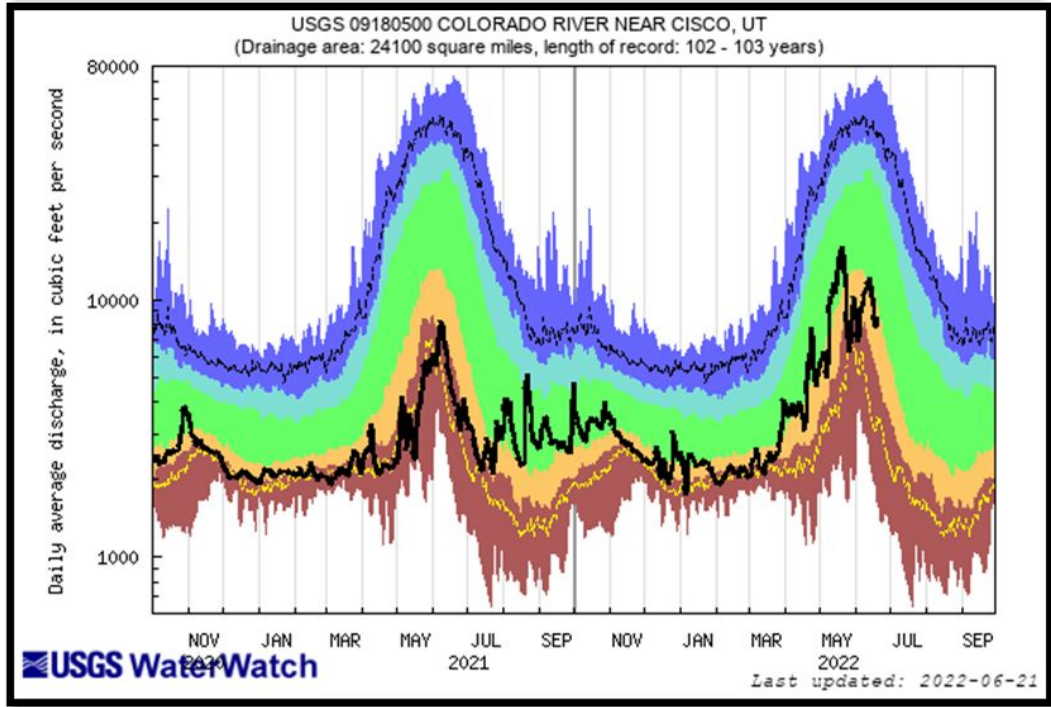
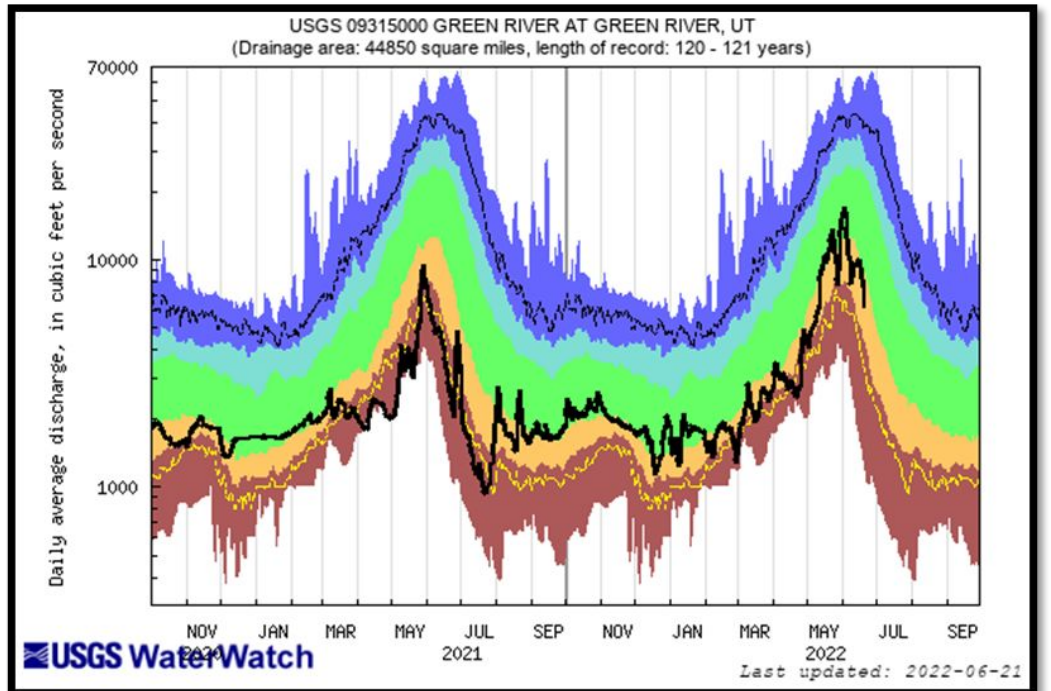
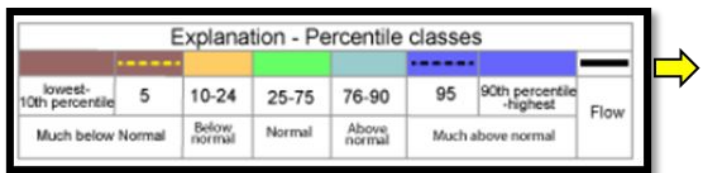
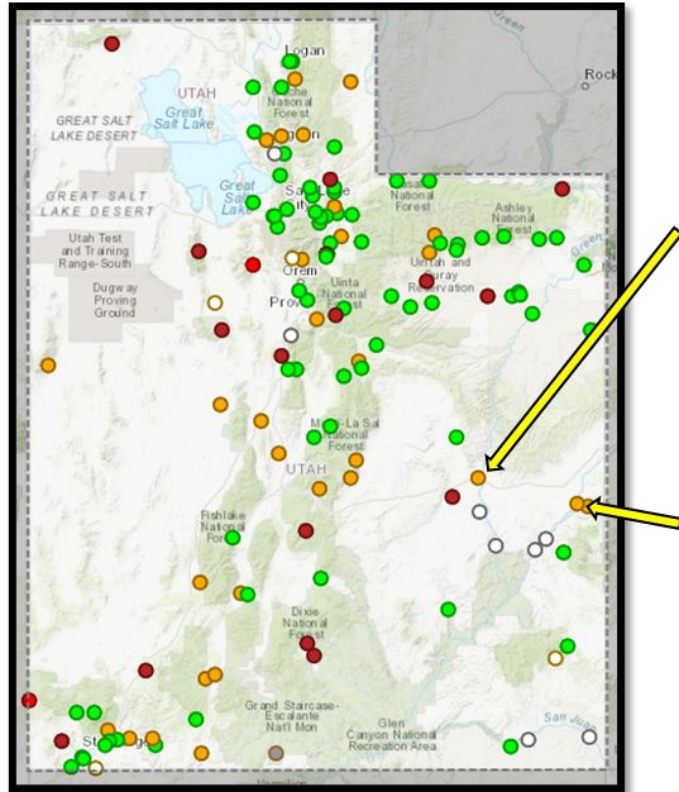
Streamflow at Selected Gages



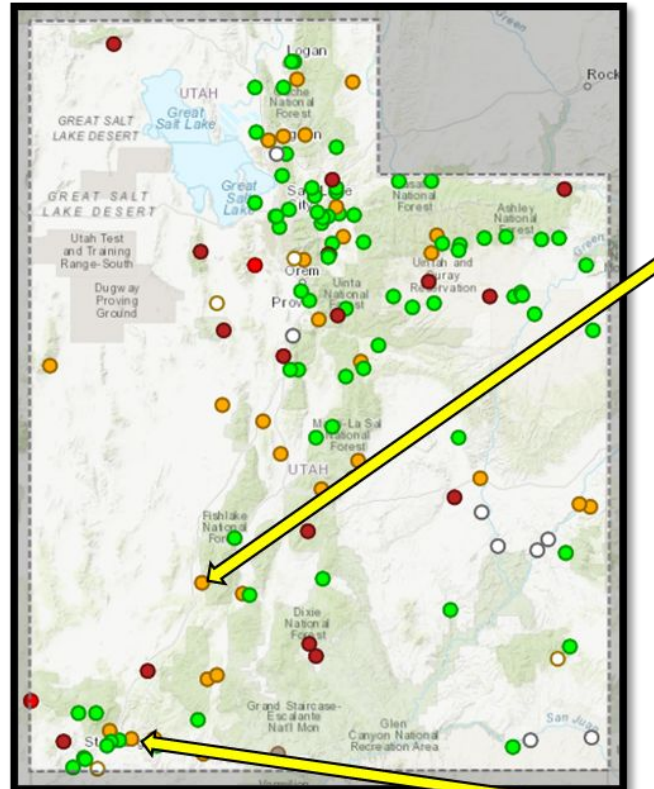
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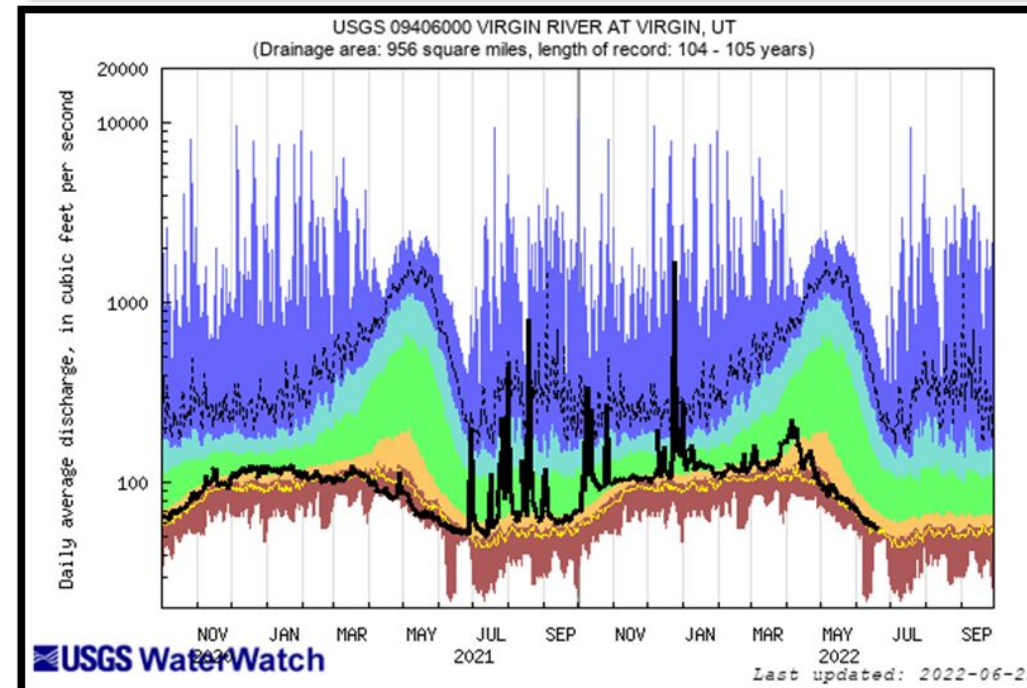
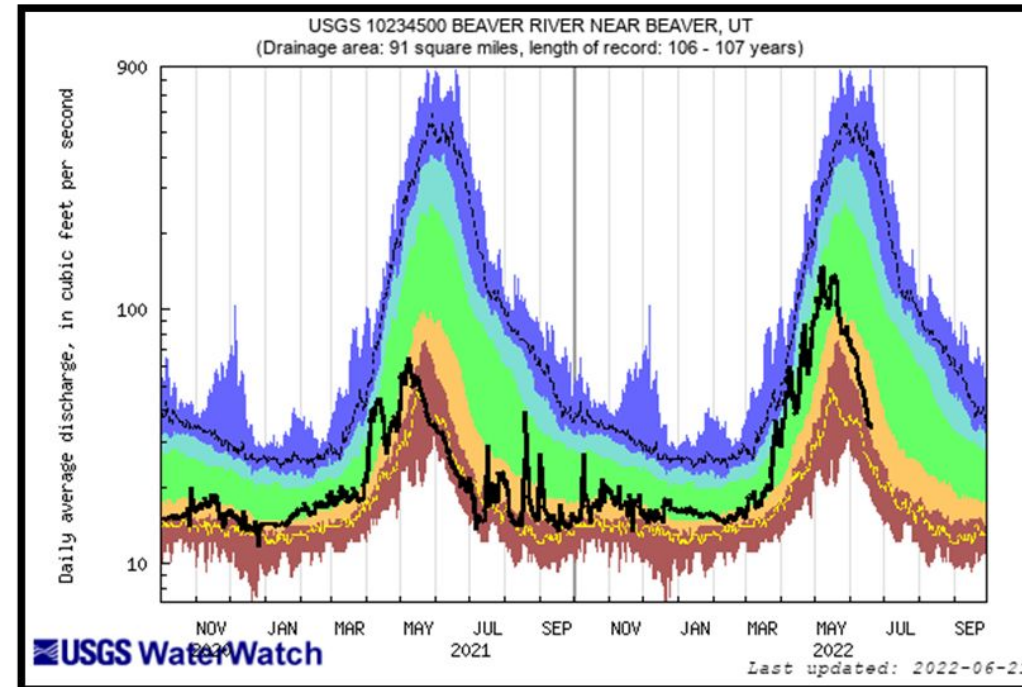
Streamflow at Selected Gages



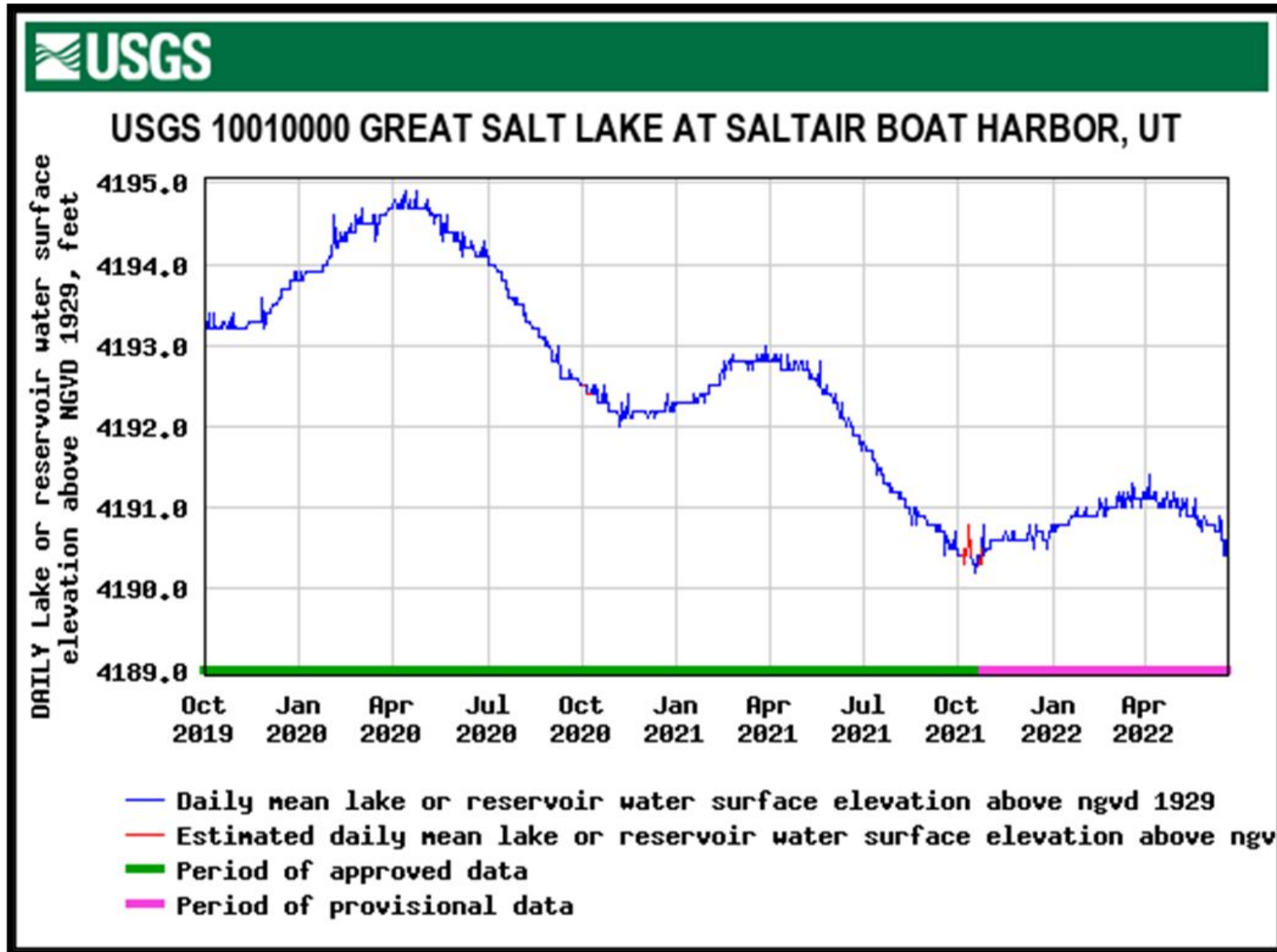
Streamflow at Selected Gages



Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile-highest
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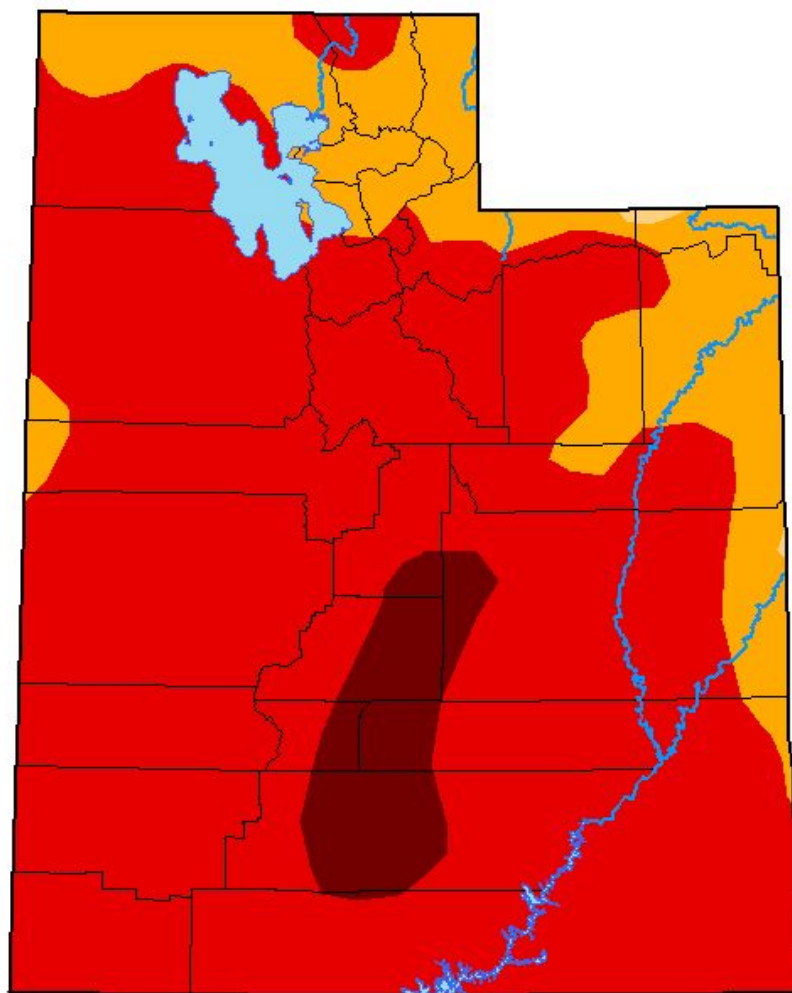
Great Salt Lake Water Surface Elevation



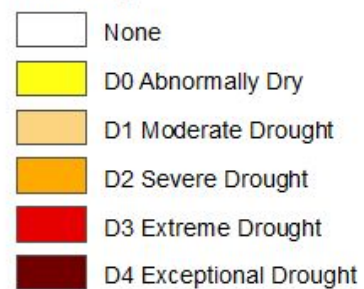
- ❑ Mean daily value 6/21/2022 = 4,190.6'
- ❑ Mean daily value 6/6/2022 = 4,190.8'
- ❑ 4,190.2' 10/18/2021 (historic low)

U.S. Drought Monitor Utah

June 14, 2022
(Released Thursday, Jun. 16, 2022)
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:

Adam Hartman
NOAA/NWS/NCEP/CPC



droughtmonitor.unl.edu