

Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly







Thank you to our contributors







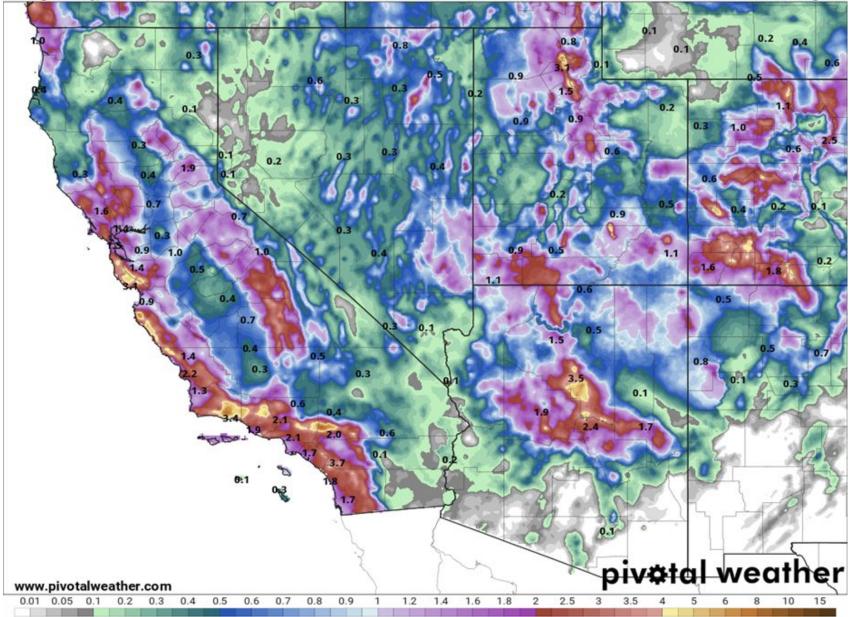
Utah Water Assessment & Conditions Monitoring Webinar

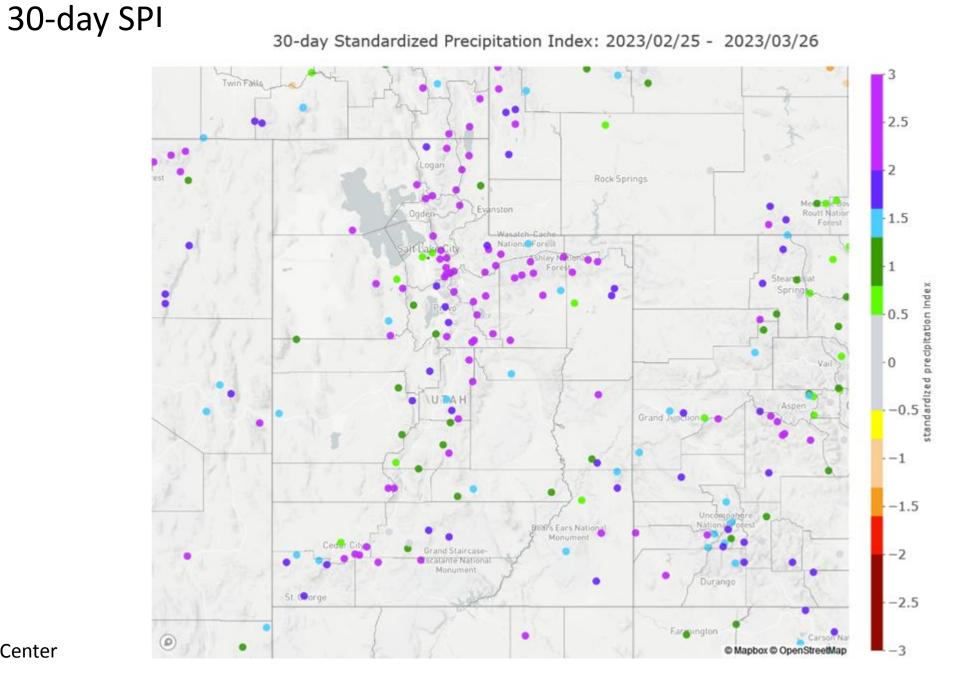
March 28, 2023

Precipitation 7 day history (Percent of Average)

168-Hour Stage IV Precipitation Analysis (in) Ending Monday, Mar. 27, 2023 at 5 a.m. PDT

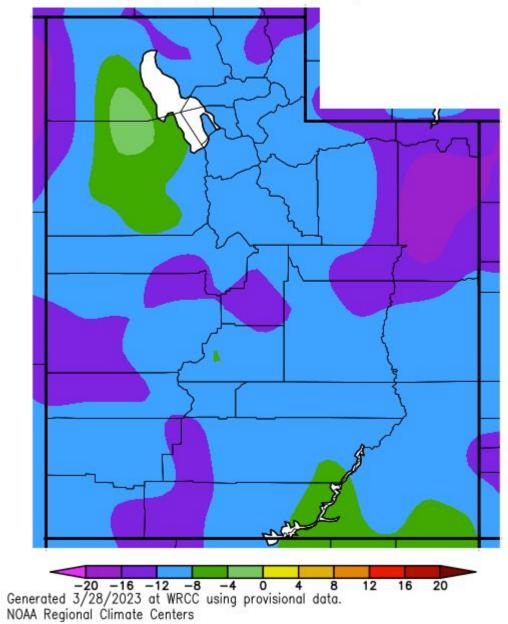
Init: Mon 2023-03-27 12z NCEP Stage IV





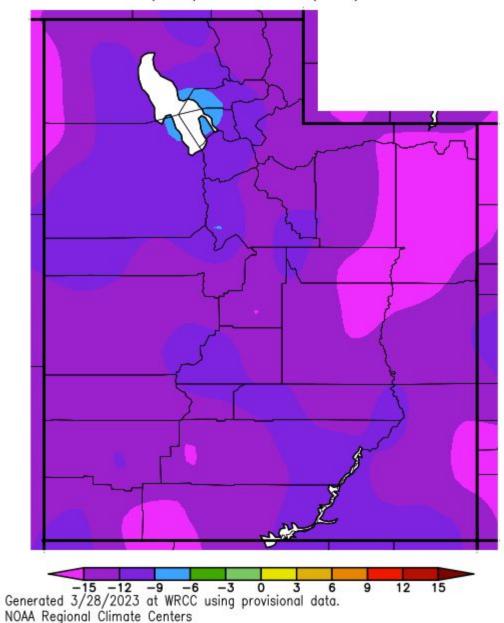
Max Temp 30-day history (Anomaly)

Av. Max. Temperature dep from Ave (deg F) 2/26/2023 - 3/27/2023

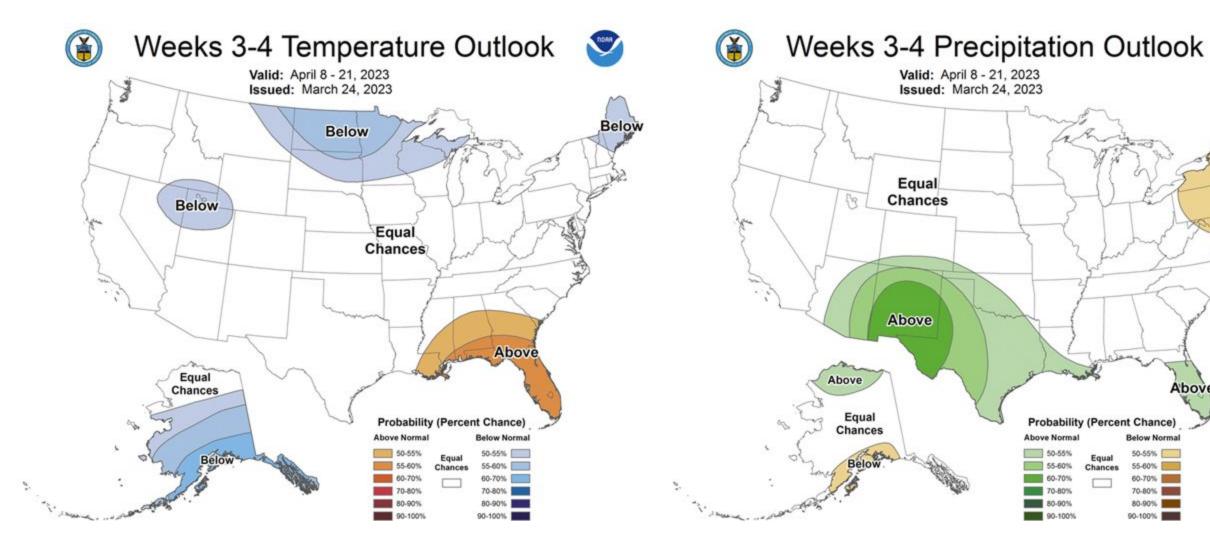


Max Temp 14-day history (Anomaly)

Av. Max. Temperature dep from Ave (deg F) 3/14/2023 - 3/27/2023



Sub-seasonal (Week 3-4) outlook



NORR

Below 2

Above

Below Normal

50-55%

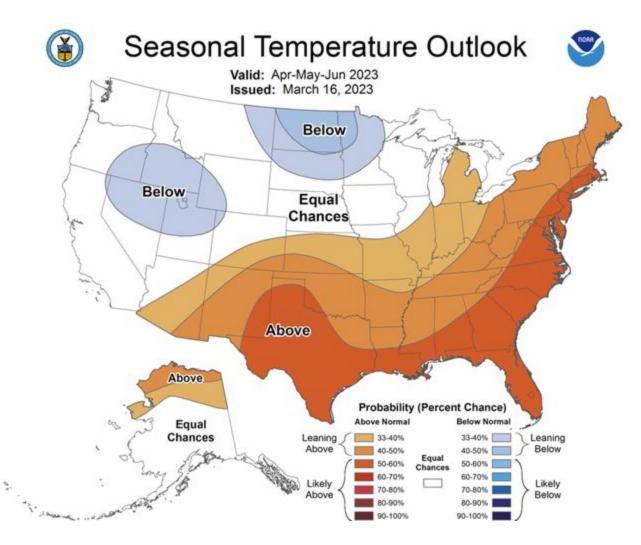
55-60%

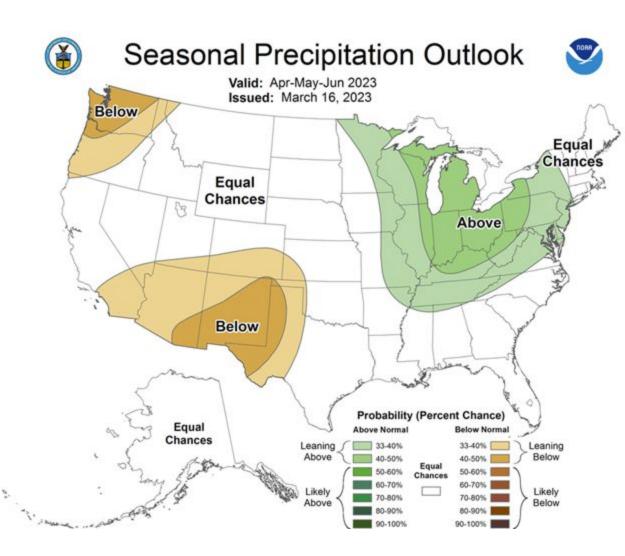
60-70%

80.90%

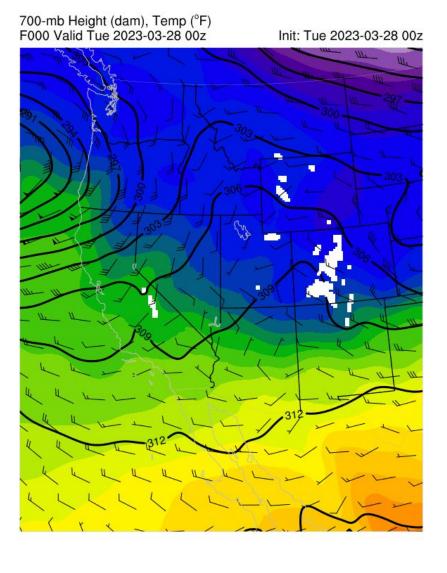
90-100%

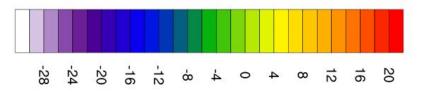
3-month (April-June) outlook





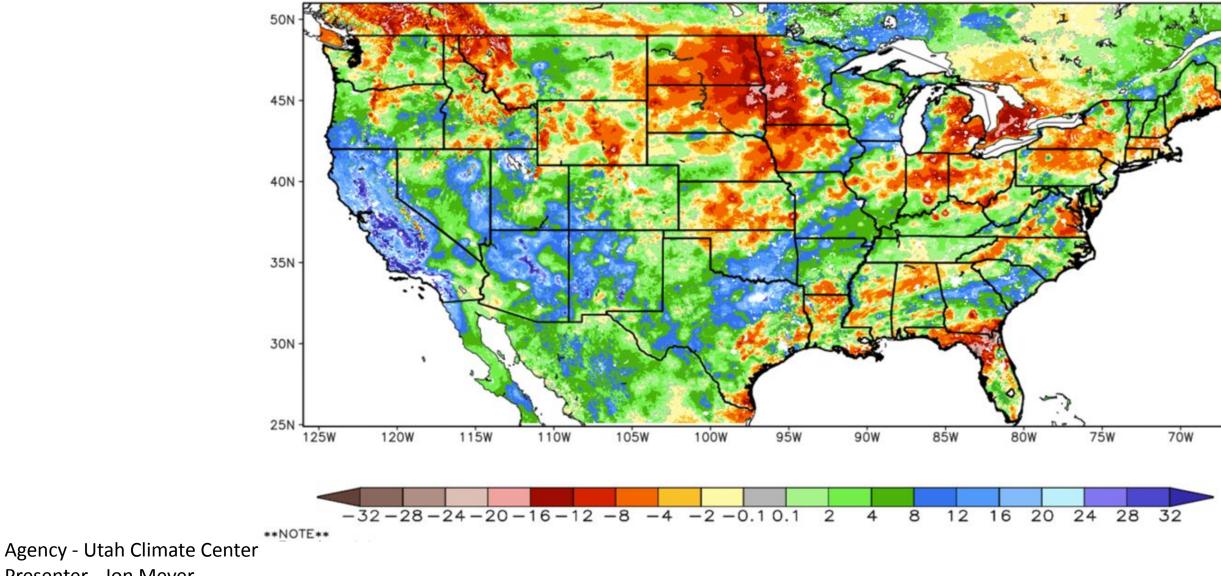
UCC 1-month Forecast Model (temperatures)





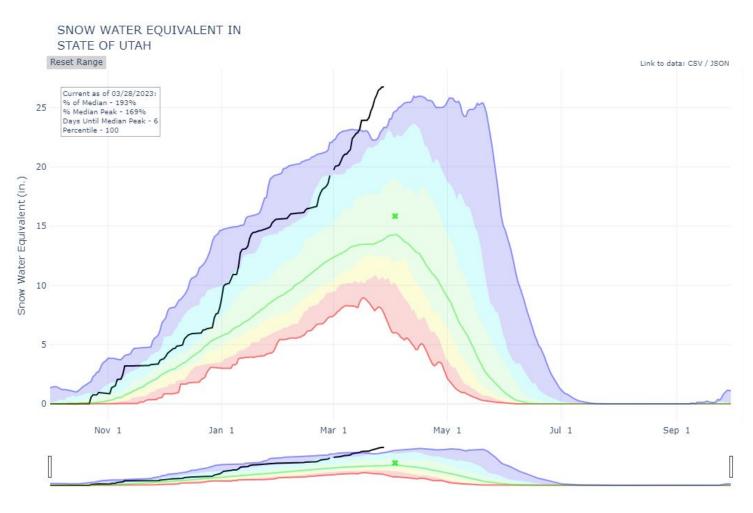
Year-Over-Year Soil Moisture Change

1-Year Difference in Column Relative Soil Moisture (%) valid 12z 28 Mar 2023

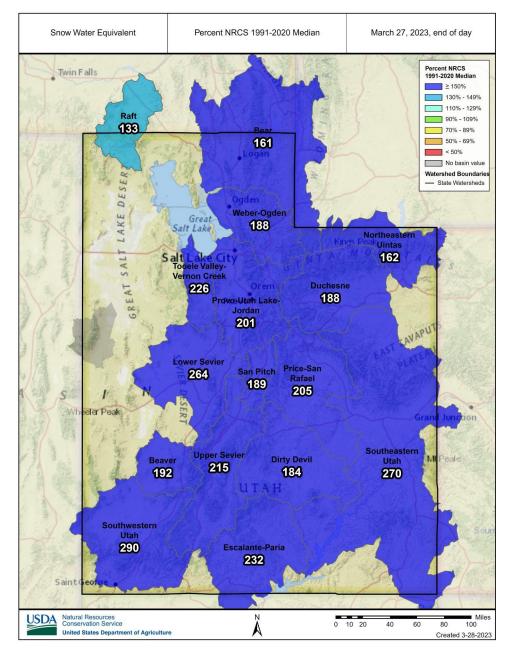


Presenter - Jon Meyer

Statewide SWE



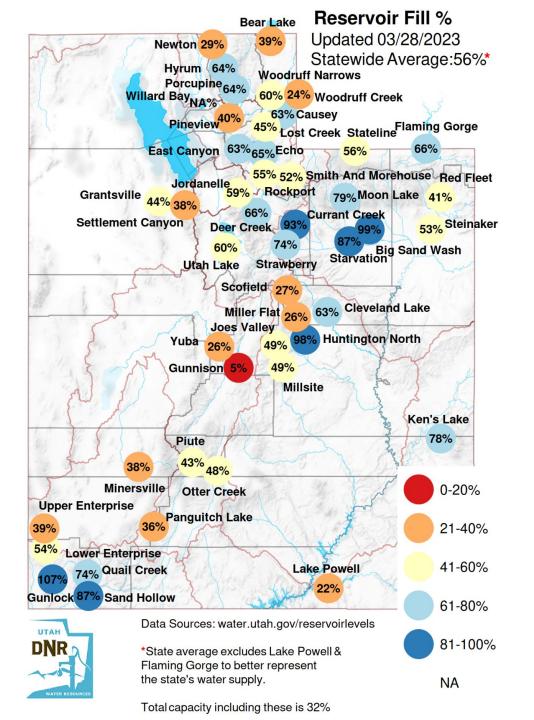
Current SWE 26.7 inches Previous (1983) Max Peak 26.0 inches SWE May 20, 1983 was 25.4 inches

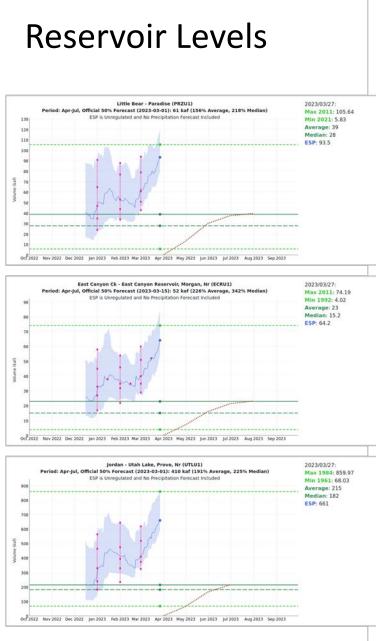


Current Statewide Average is 56% Median Average is 61%

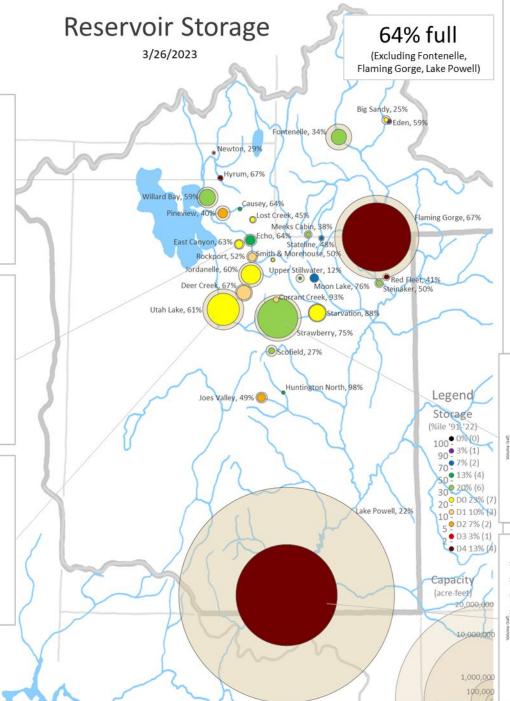
Gunnison is the only reservoir below 20% 12 reservoirs are between 21-40%

Median statewide peak is first of June at 74%



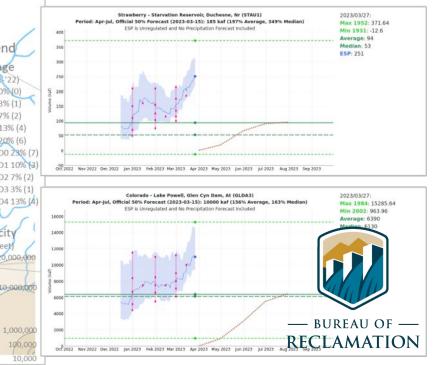


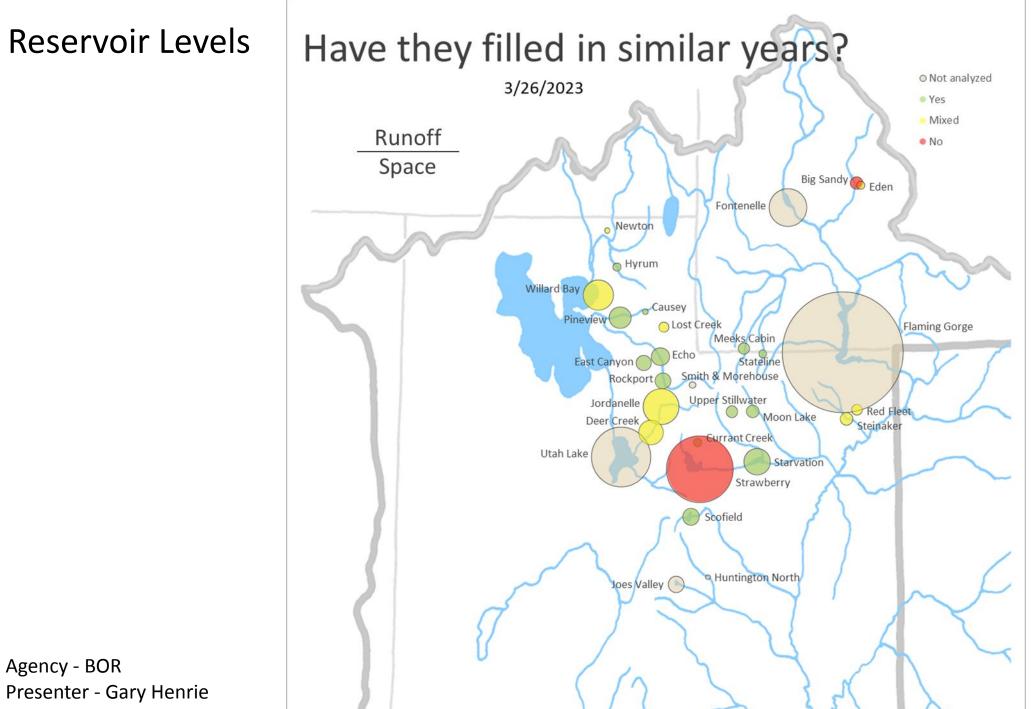
Agency - BOR Presenter - Gary Henrie



No significant changes since last meeting:

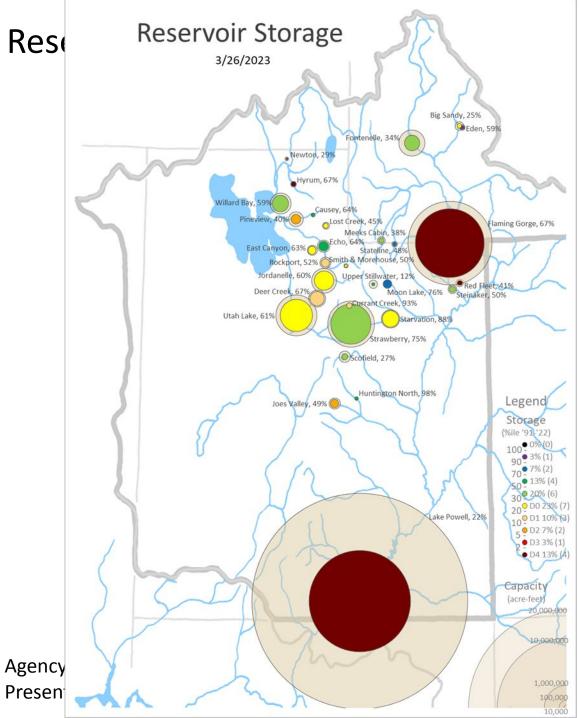
- Overall storage increased ~3% to 64% full
- Cold temperatures have kept the snow in place.
- We haven't seen rain-on-snow or snowmelt inflows.
- Reservoirs continue to slowly fill at ~typical baseflow rates.

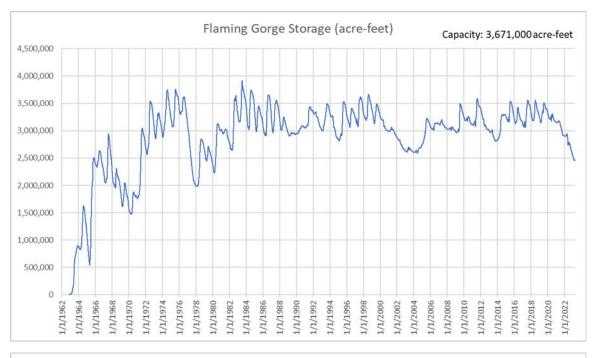


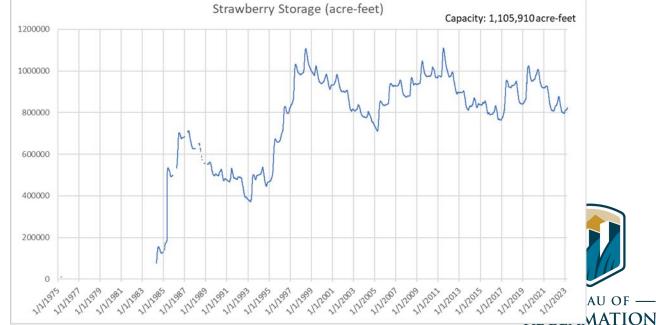


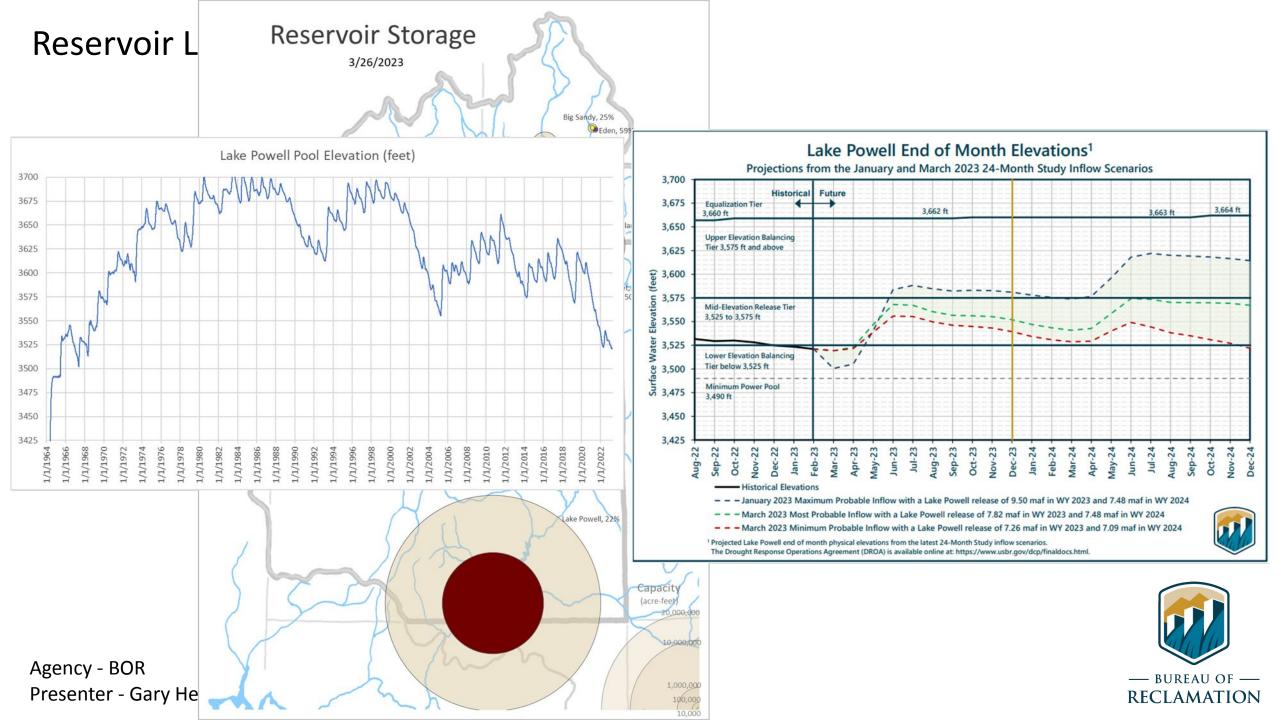


Presenter - Gary Henrie



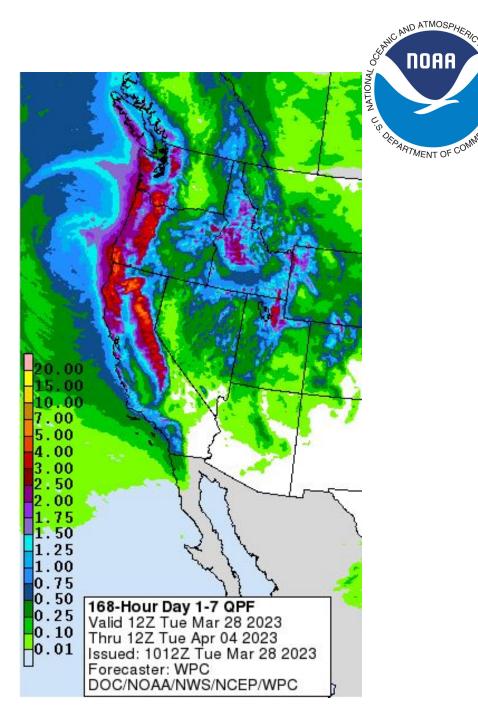




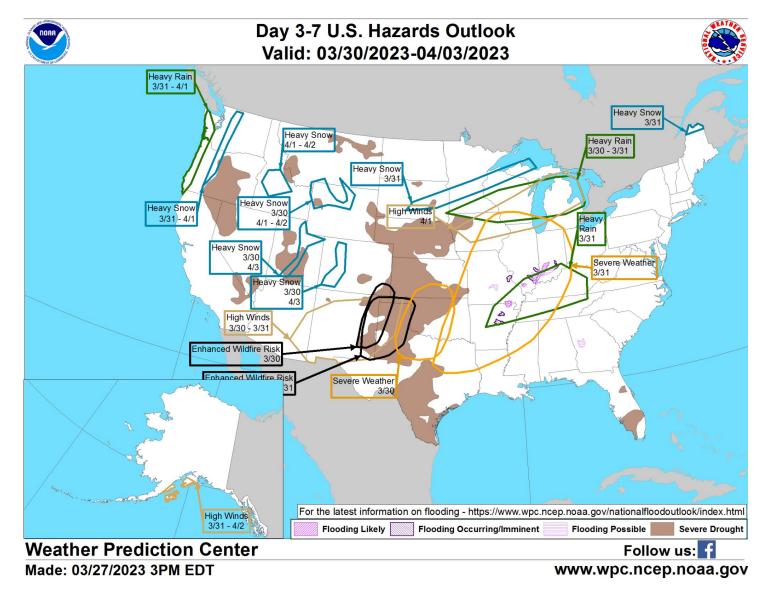


Weather Forecast Office Utah Day 1-7 Outlook

GEFS Accumulated Precip. Anomaly (in) from 06z28Mar2023 to 06z04Apr2023 (Days 1-7) TROPICALTIDBITS.COM Init: 06z Mar 28 2023 Forecast Hour: [168] valid at 06z Tue, Apr 04 2023 50N 130-高 12 9 60 3.5 2.5 1.5 40N-0.5 -0.5 -1.5 -2.5 -3.5 30 N · -7 \$ -9 -12 130W 120W 100W 110W 90W

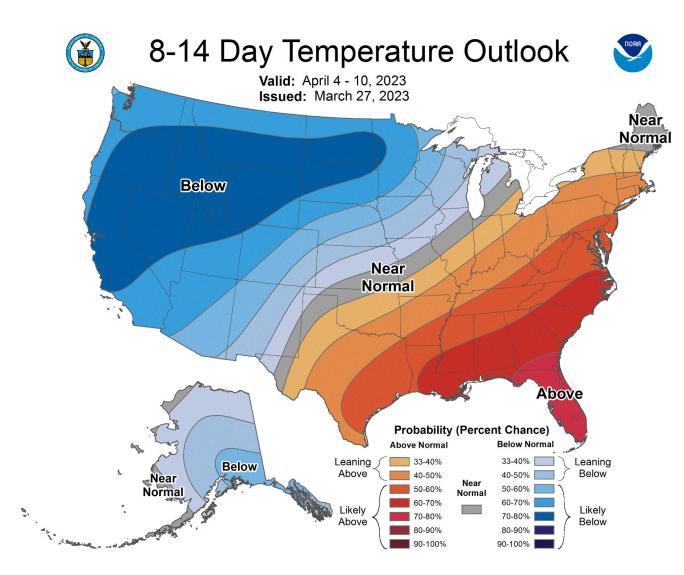


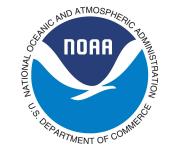
Weather Prediction Center U.S. Day 3-7 Hazards Outlook





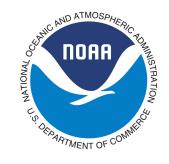
Climate Prediction Center 8 to 14 Day Outlooks - Temperature



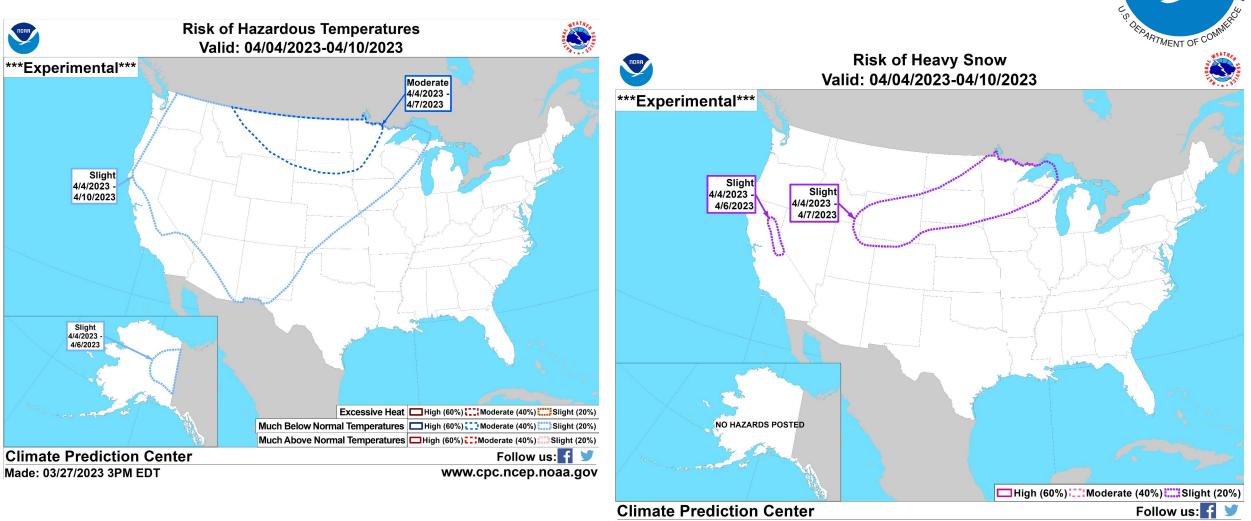


8-14 Day Precipitation Outlook NORA Valid: April 4 - 10, 2023 Issued: March 27, 2023 Near Normal Fr? Above Near Above Normal Near Normal **Probability (Percent Chance)** Above Above Normal **Below Normal** 33 Leaning 33-40% 33-40% Leaning Above Below 40-50% 40-50% 50-60% 50-60% Norma 60-70% Likely Likely 70-809 Above Below 80-90% 80-90% 90-100% 90-100%

Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



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



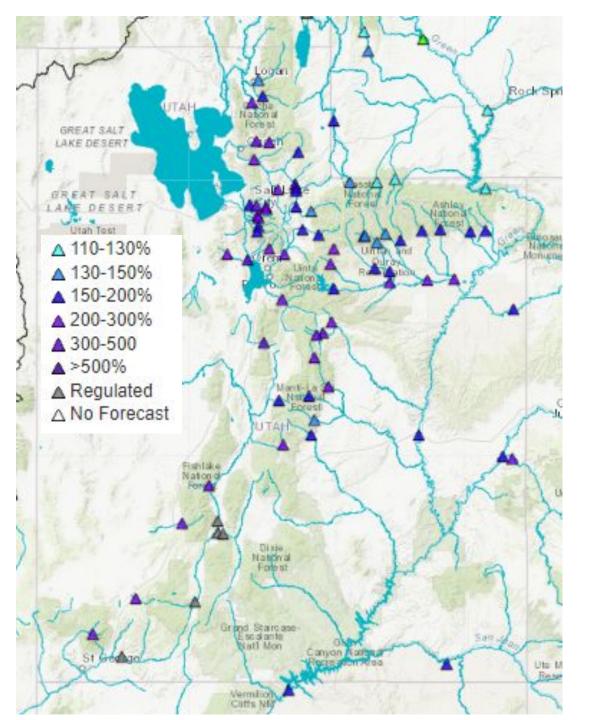
Made: 03/27/2023 3PM EDT

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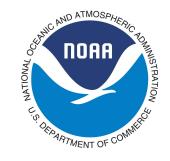


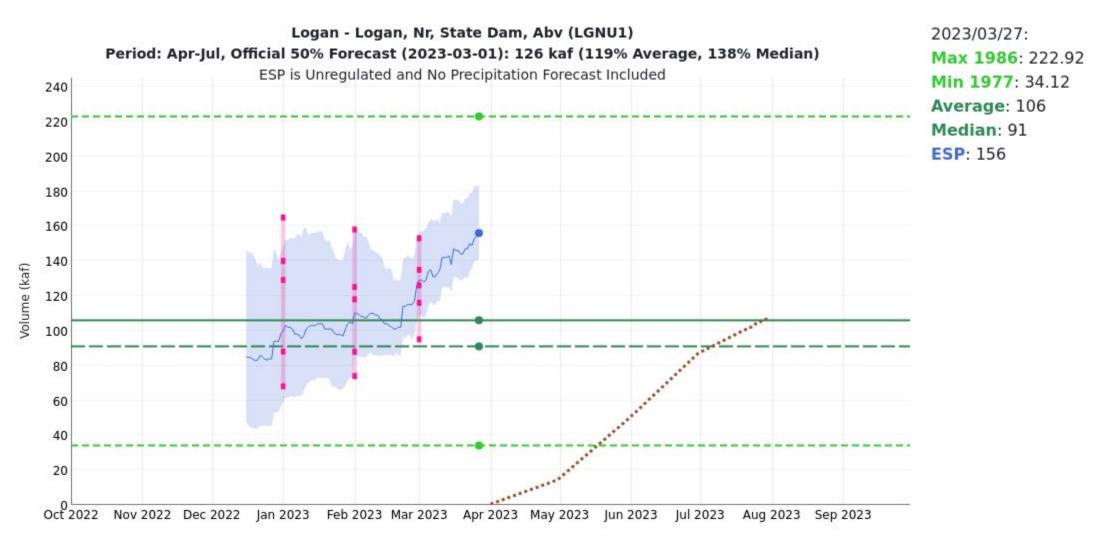


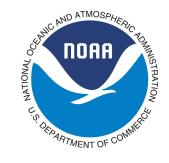
 Recent storm events since our last official forecasts have pushed water supply forecasts over Utah even higher

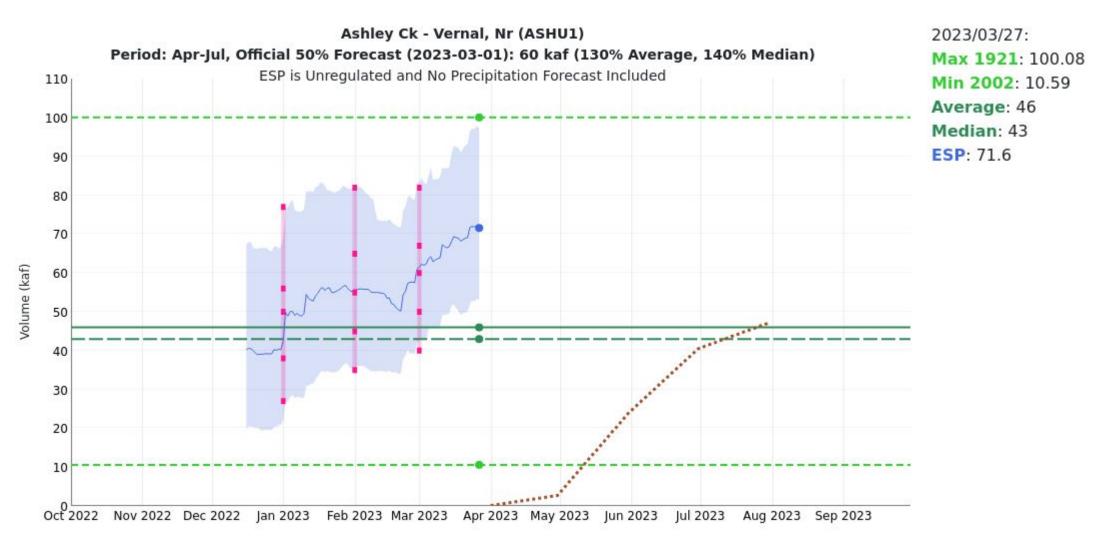
 Water supply forecasts range from about 115% of average in the Lower Green River area to over 200% of average in the Six Creeks area

• Some flood potential in areas

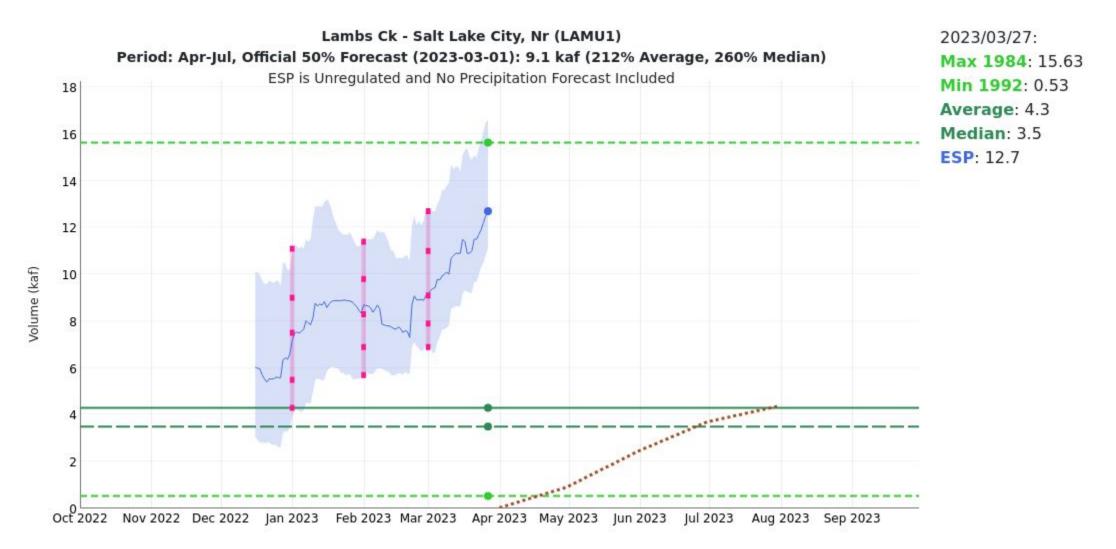


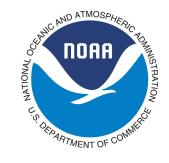


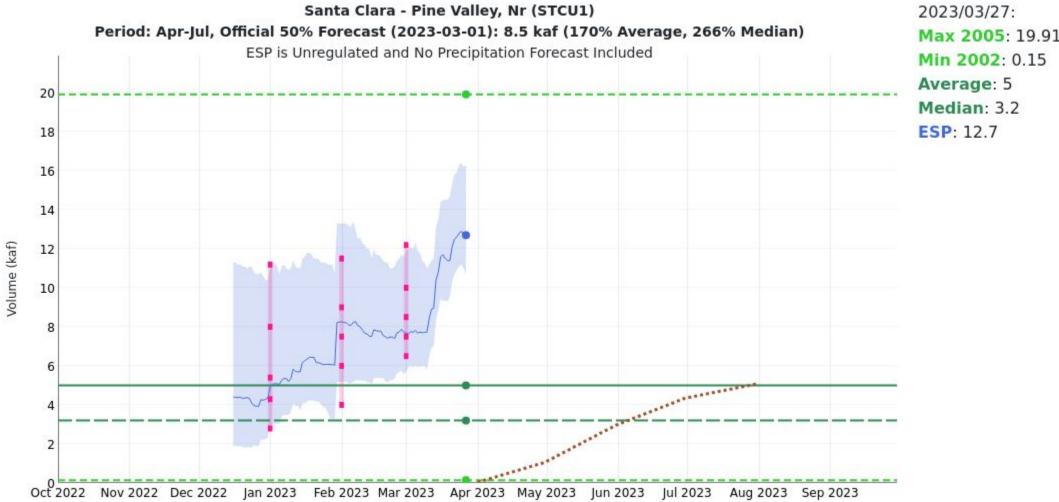




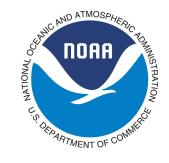


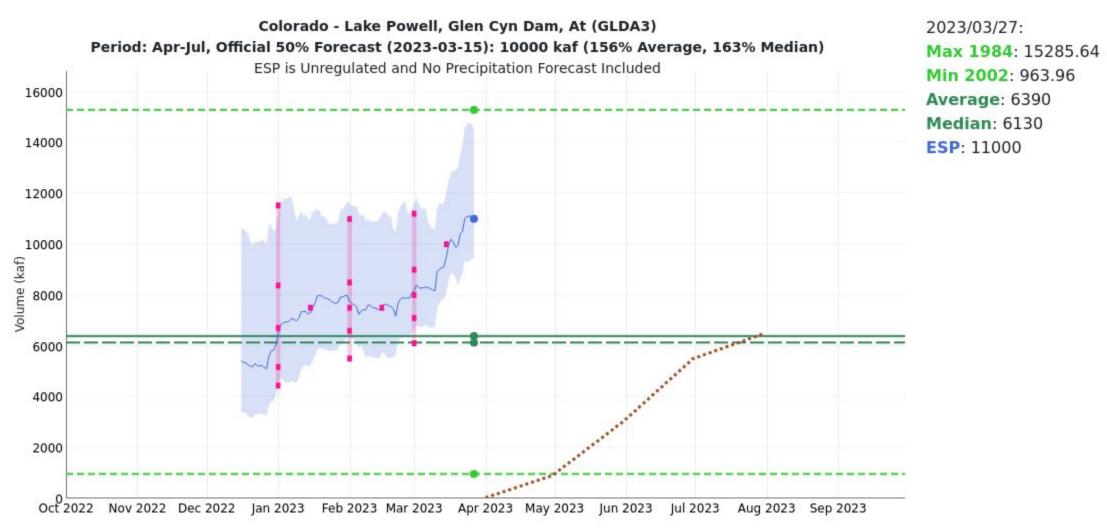


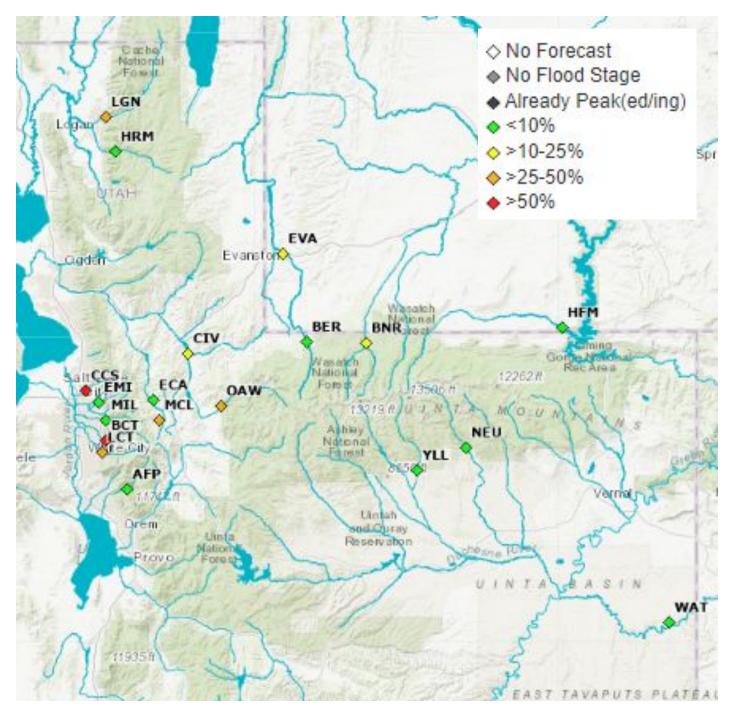




Max 2005: 19.91





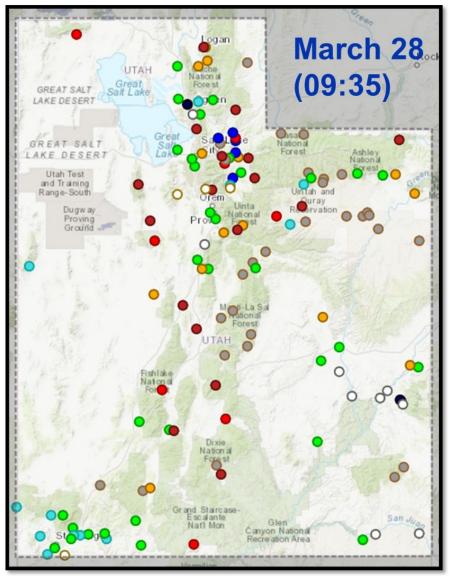




- We also produce a peak flow product over a subset of sites over the State of Utah
- Highest flooding potential in the Six Creeks area

 Highly dependent on temperature and precipitation

Current Streamflow Conditions



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

Provisional data, subject to revision

Mar 7 Mar 28

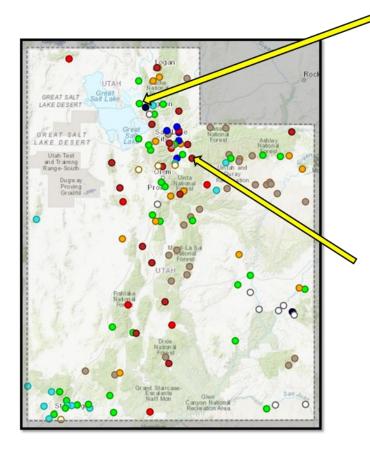
Day-of-Year Status	% Gages	% Gages
All-time high for this day-of-year	0.0%	1.5%
Much above normal for this day-of-year	0.0%	3.6%
Above normal for this day-of-year	4.4%	10.9%
Normal for this day-of-year	27.0%	24.1%
Below normal for this day-of-year	19.0%	9.5%
Much below normal for this day-of-year	10.9%	13.1%
All-time low for this day-of-year	3.6%	5.8%
Not ranked - insufficient record	7.3%	7.3%
Not ranked - no measurement	2.9%	19.7%
Not ranked - no recent measurement	22.6%	1.5%
Not ranked - stream not flowing	2.2%	2.9%

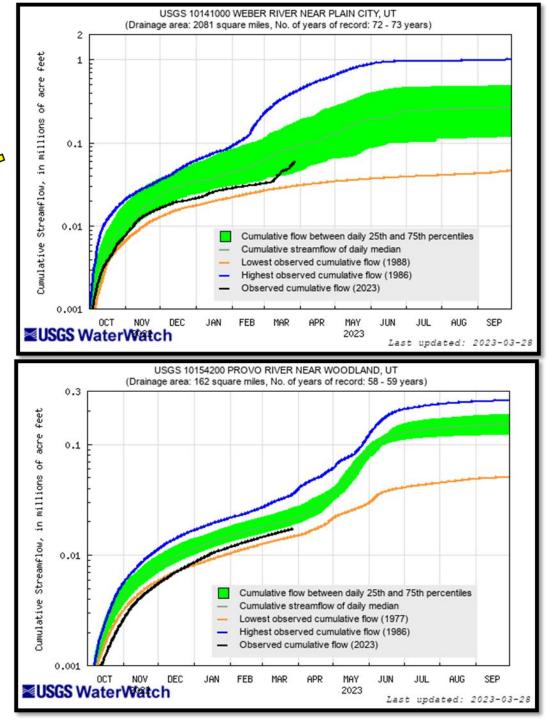


Agency - USGS Utah WSC Presenter - Laura Haskell on behalf of Ryan Rowland



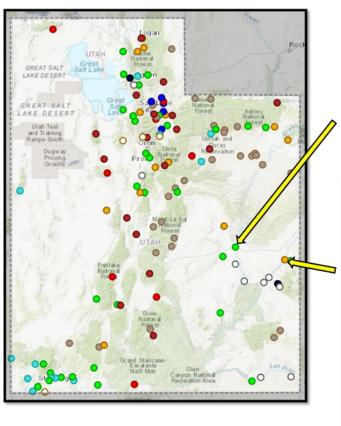
Cumulative Streamflow at Selected Gages

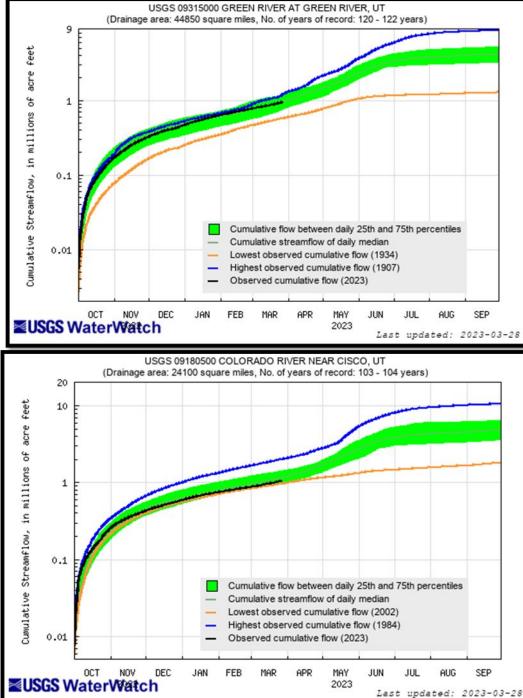






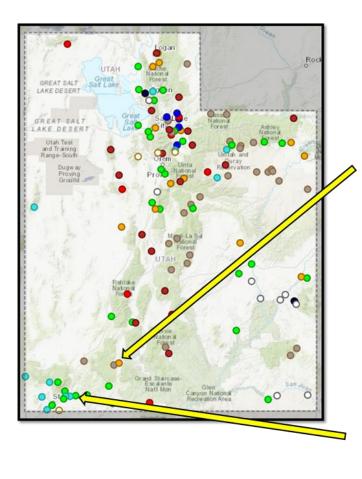
Cumulative Streamflow at Selected Gages

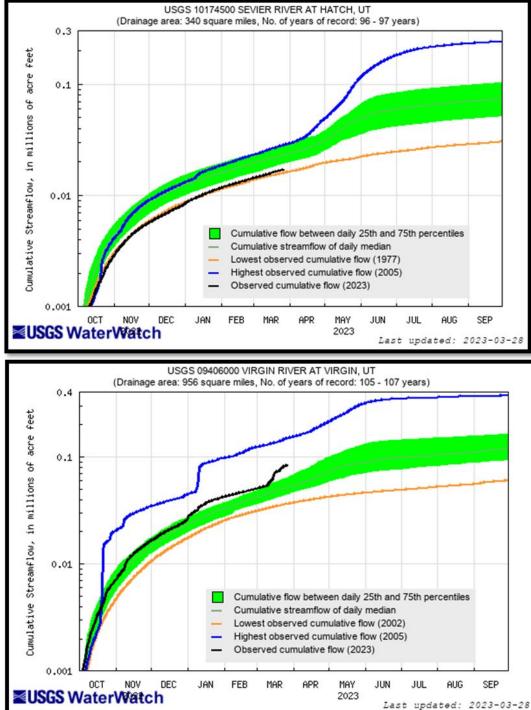






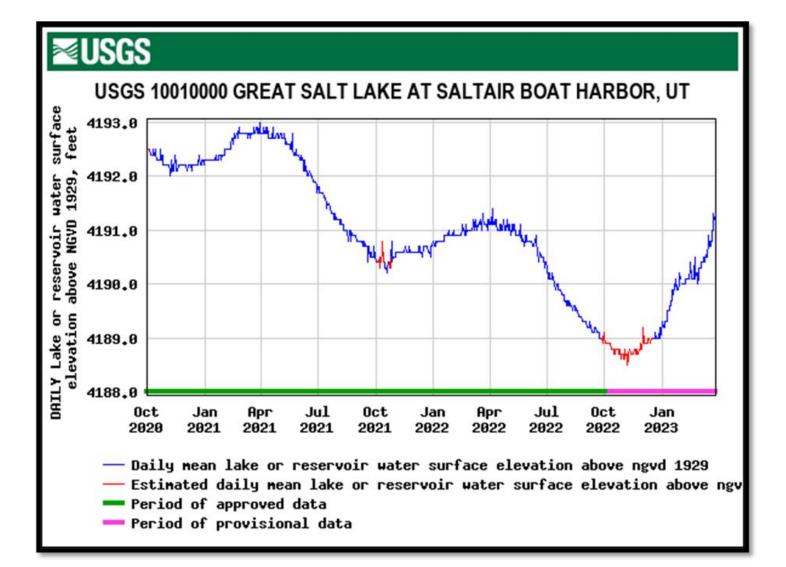
Cumulative Streamflow at Selected Gages







Great Salt Lake Water Surface Elevation - South Arm

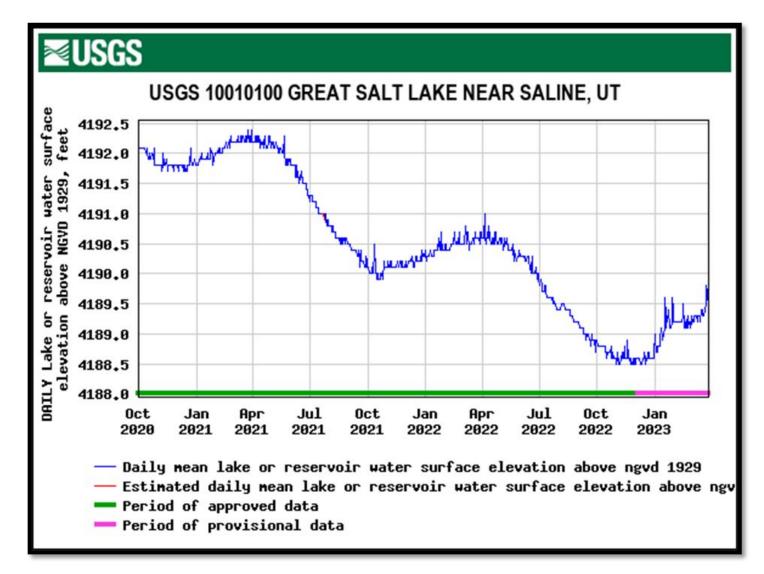


Daily value 3/27/2023 = 4,191.2'

- Daily value 3/6/2023 = 4,190.4'
- Up 2.7' since November



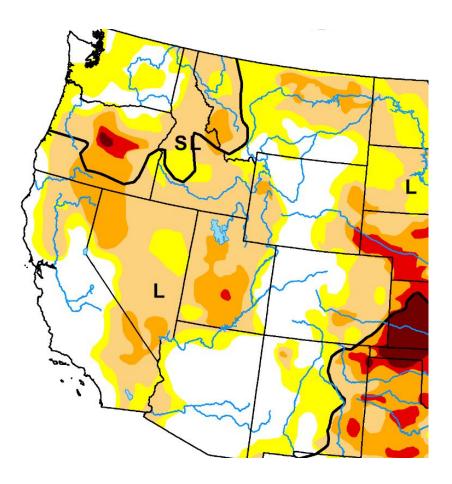
Great Salt Lake Water Surface Elevation - North Arm



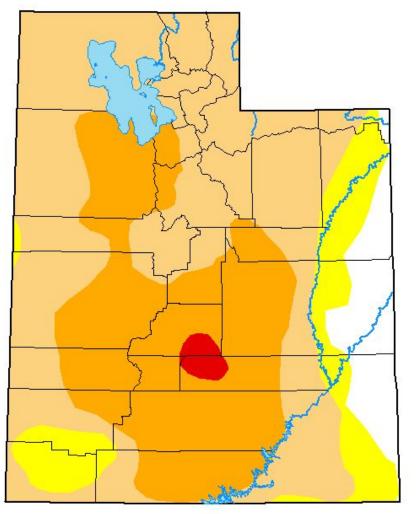
Daily value 3/27/2023 = 4,189.5'

- Daily value 3/6/2023 = 4,189.3'
- Up 1.0' since November





U.S. Drought Monitor Utah



March 21, 2023 (Released Thursday, Mar. 23, 2023) Valid 8 a.m. EDT



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

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droughtmonitor.unl.edu