

2023 Spring Runoff Recap

Record Snowpack

200+% of normal in watersheds

Drought

- Soil Moisture extremely low
- Reservoir and Lake Storage
 - Utah Lake low
 - Great Salt Lake low

Comparison to 1983

• Improvements since 1983

State, County, City Declarations

Season Progression

Gradual warming

Photo Credit: <u>Flooding in Wasatch Hollow — Salt Lake City</u>, Utah – YouTube



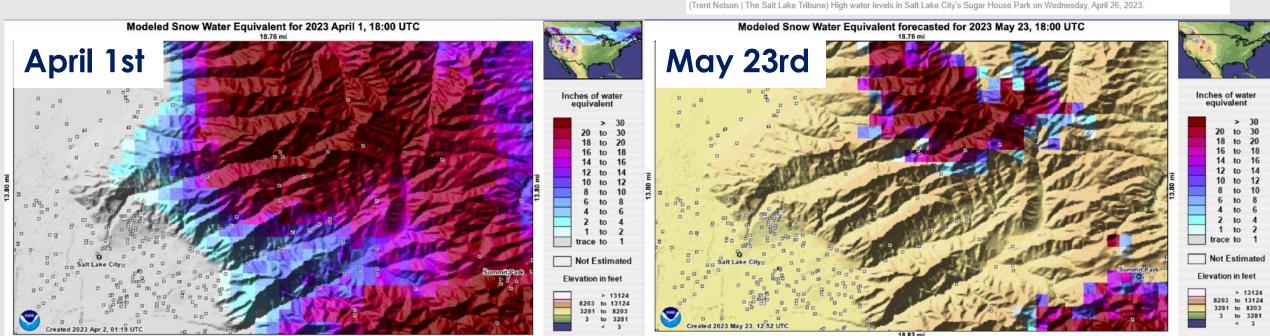


2023 Spring Runoff Recap Cont

2023 Snowpack Magnitude

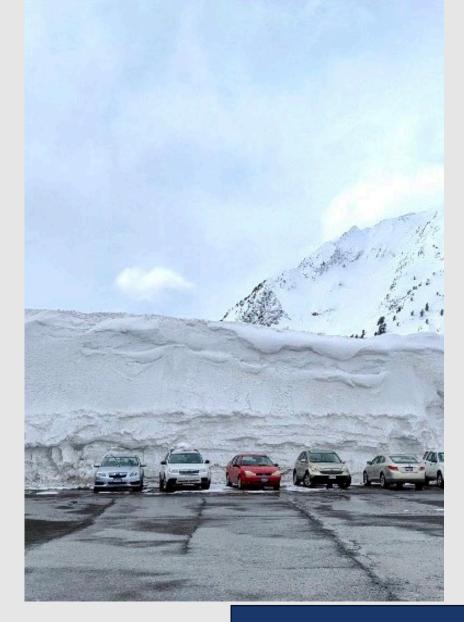


(Trent Nelson | The Salt Lake Tribune) High water levels in Salt Lake City's Sugar House Park on Wednesday, April 26, 2023.



2024 Snowpack Current Conditions

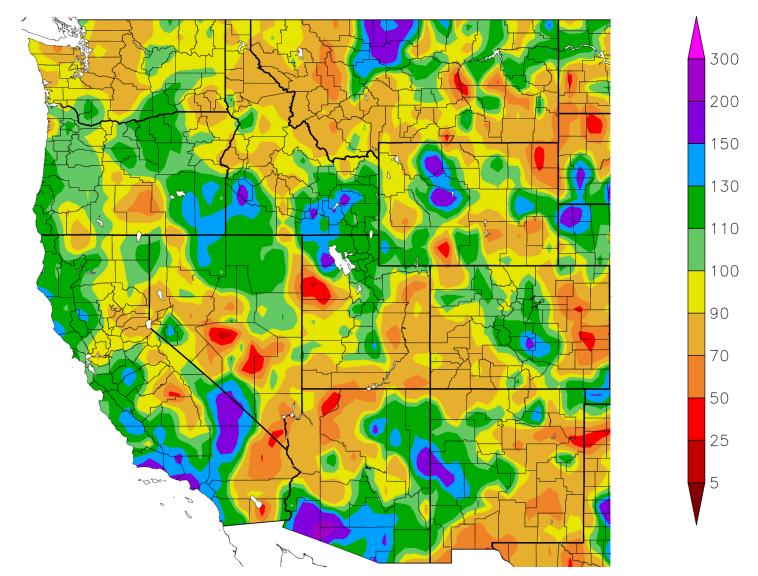
Released April 16, 2024





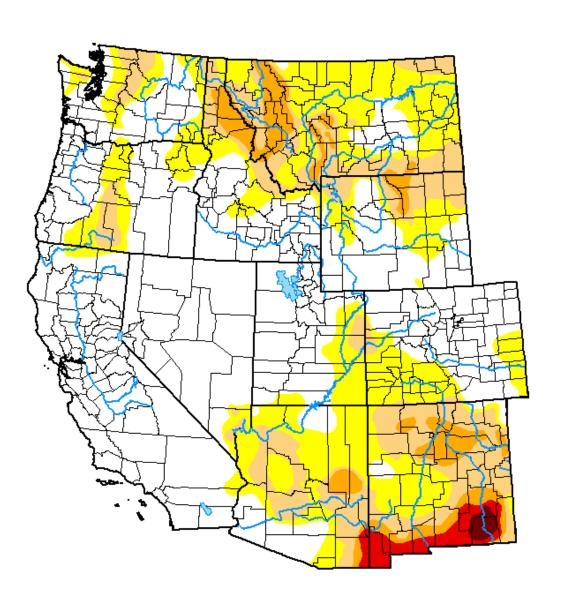
Western United States: Precipitation Water Year (WY)

Percent of Normal Precipitation (%)10/1/2023 - 4/15/2024



U.S. Drought Monitor Western U.S.

Western
United
States:
Drought
Monitor



April 9, 2024

(Released Thursday, Apr. 11, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	54.63	45.37	21.08	6.85	1.84	0.36
Last Week 04-02-2024	52.27	47.73	22.35	7.89	2.01	0.36
3 Month's Ago 01-09-2024	48.96	51.04	27.28	13.43	4.57	0.66
Start of Calendar Year 01-02-2024	51.19	48.81	25.08	13.17	4.67	0.66
Start of Water Year 09-26-2023	55.99	44.01	31.24	17.70	6.09	0.70
One Year Ago 04-11-2023	44.43	55.57	27.08	7.34	1.44	0.06

Intensity:

None D2 Severe Drought
D0 Abnormally Dry D3 Extreme Drought
D1 Moderate 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: Brad Pugh CPC/NOAA



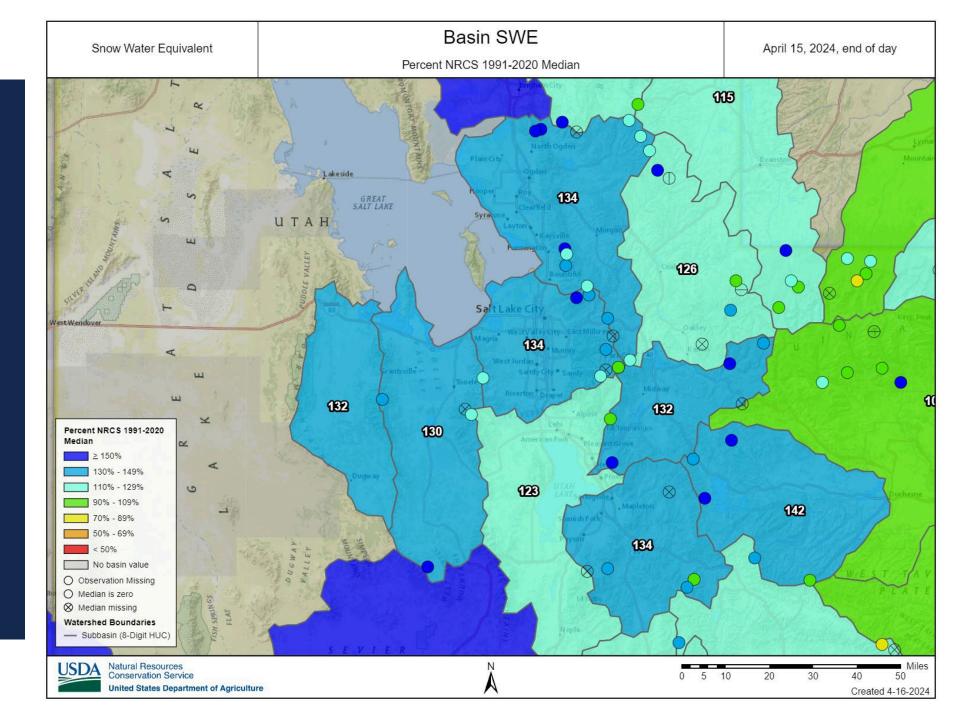




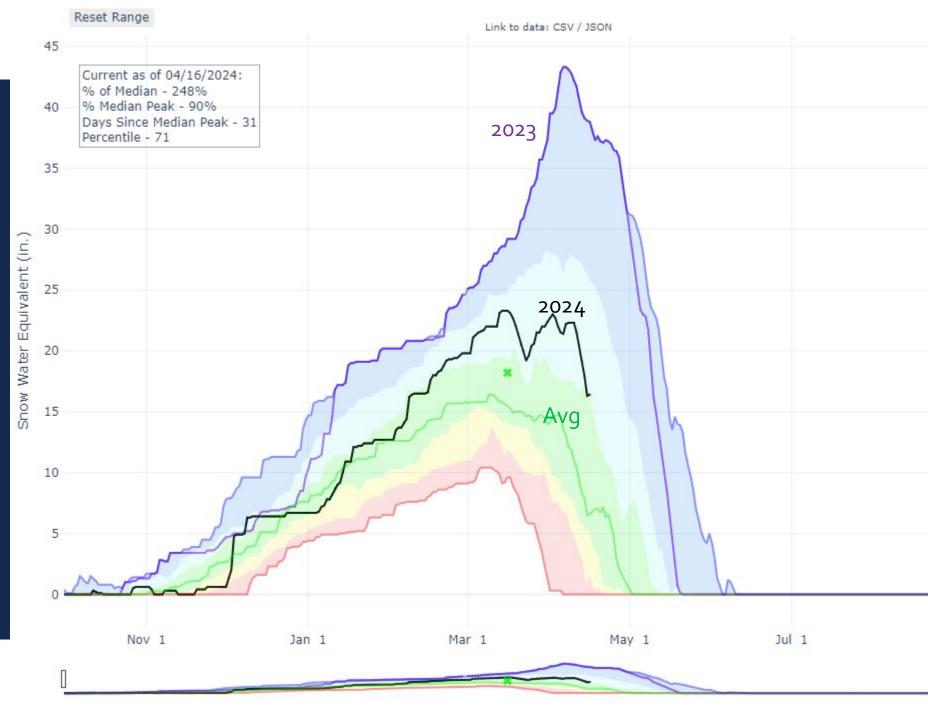


droughtmonitor.unl.edu

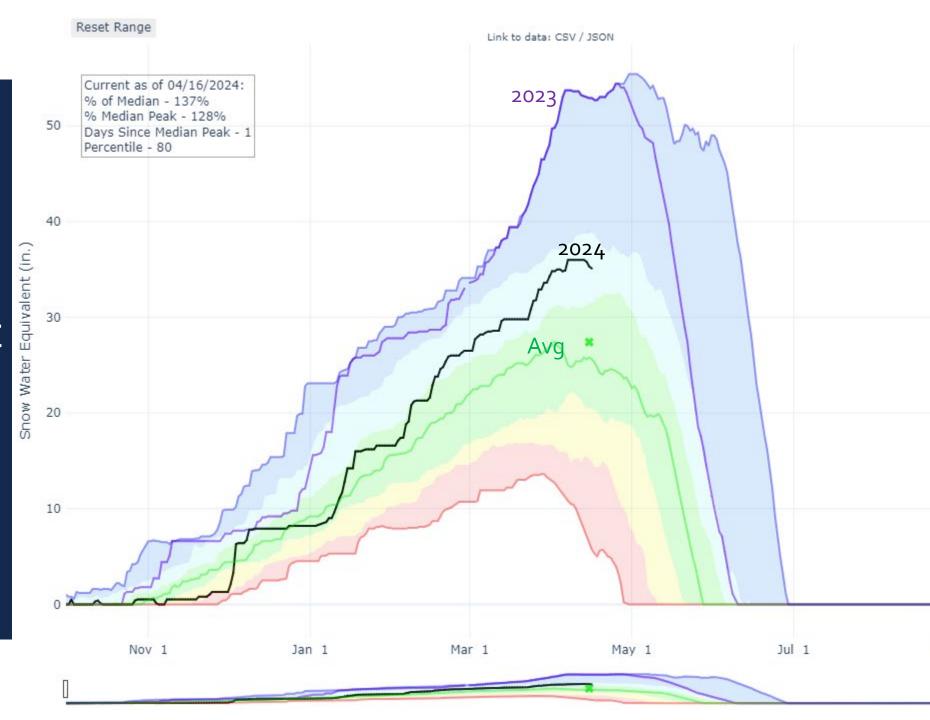
Northern Utah Basins: SWE



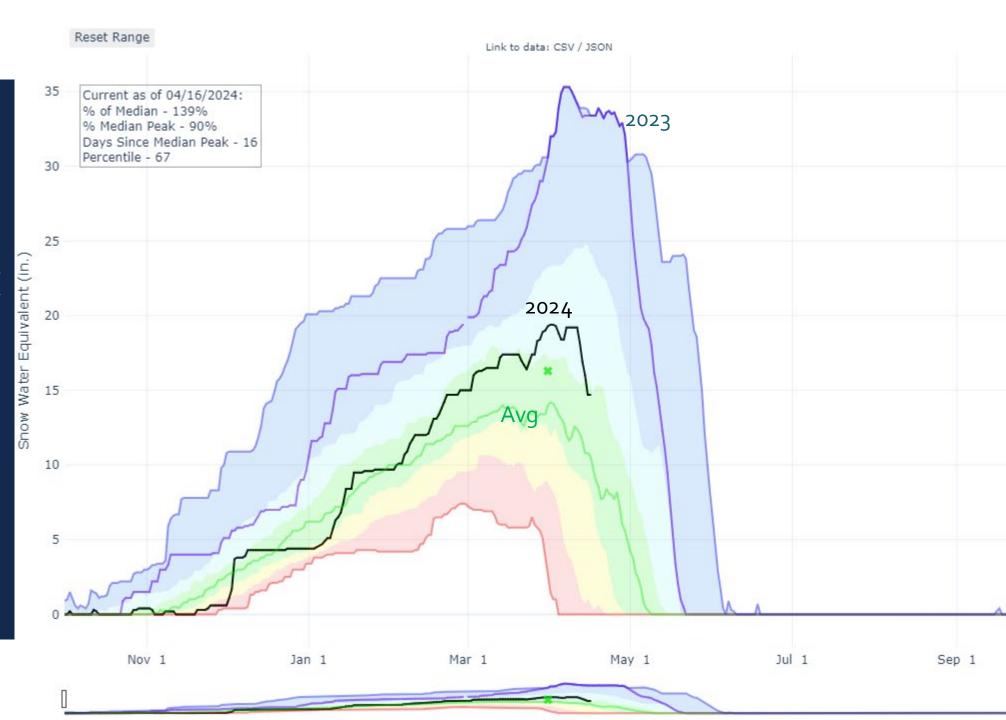
City Creek SWE at Louis Meadow



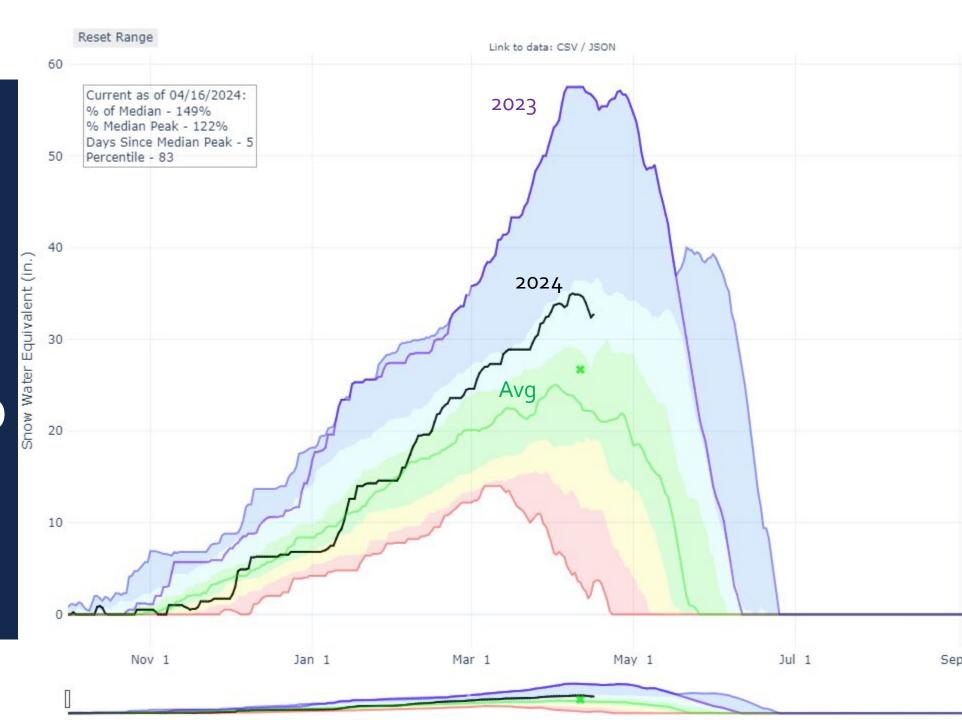
City Creek SWE at Lookout Peak



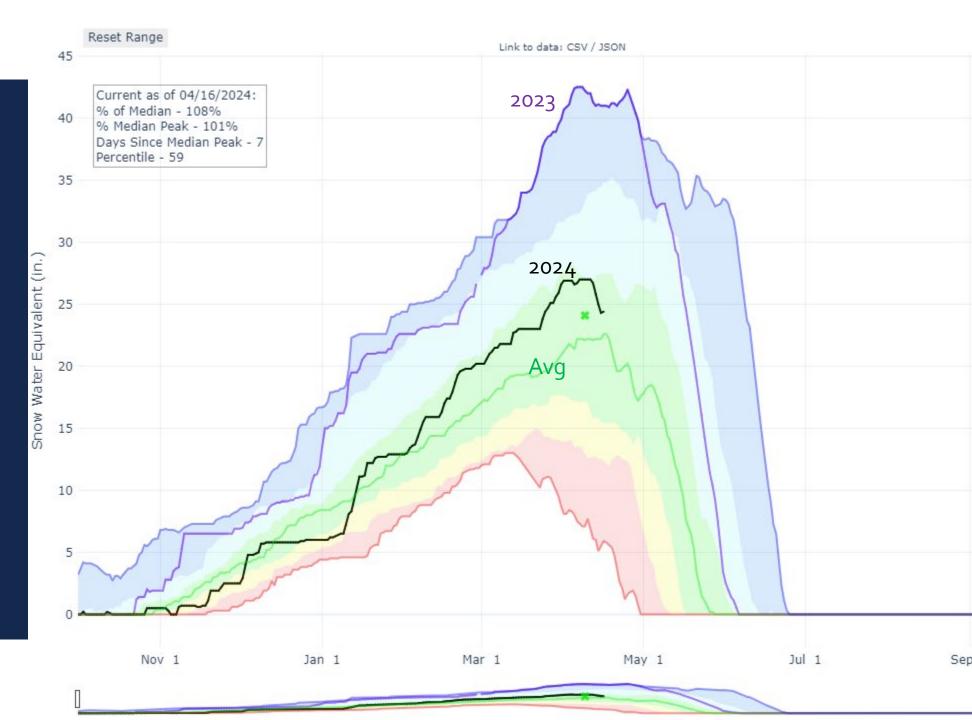
Parley's Creek SWE at Parley's Summit



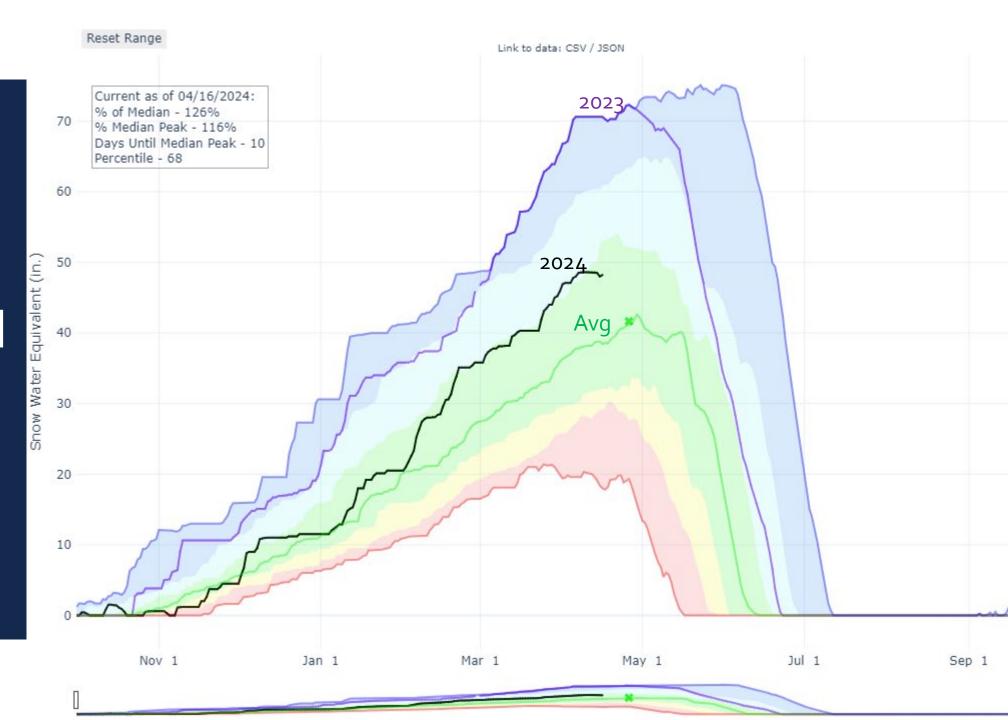
Big Cottonwood SWE at Mill D



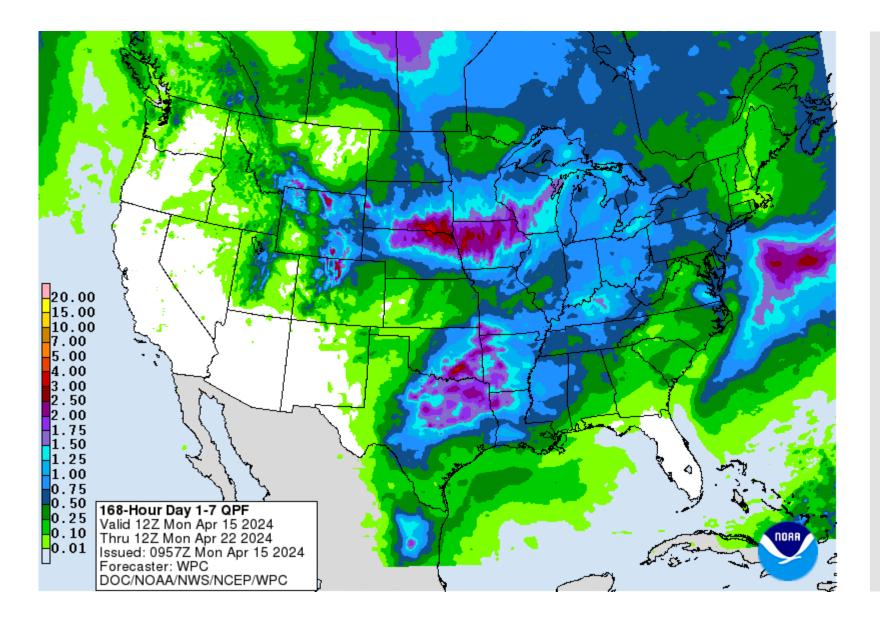
Big Cottonwood SWE at Brighton



Little Cottonwood SWE at Snowbird



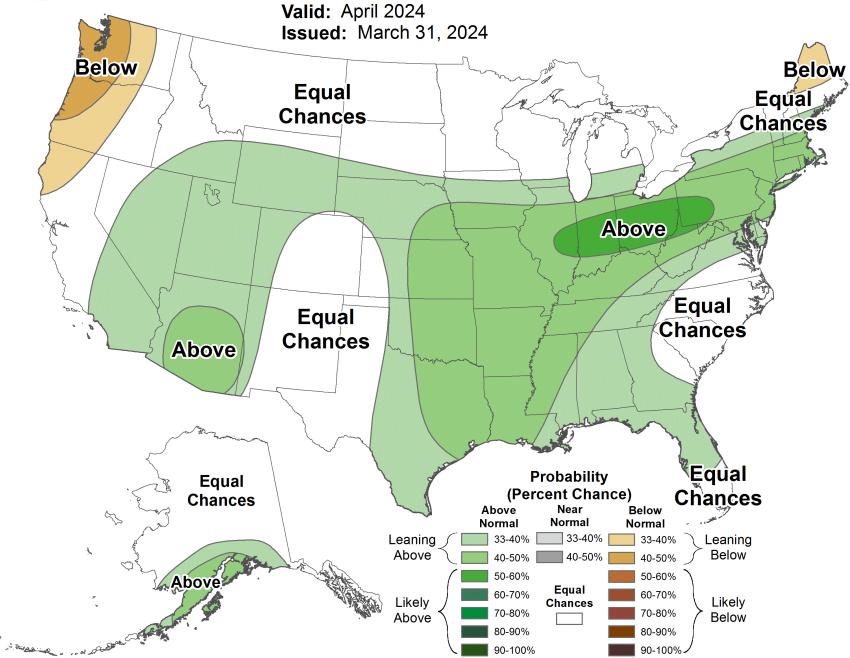
7 DayPrecipitationForecast



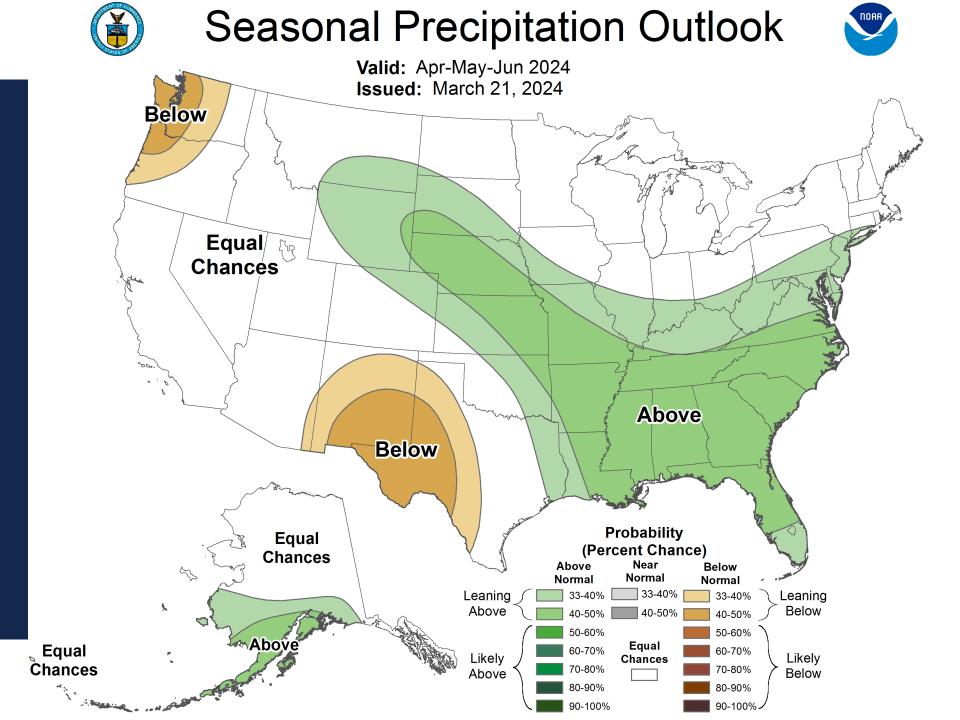
Monthly Precipitation Forecast



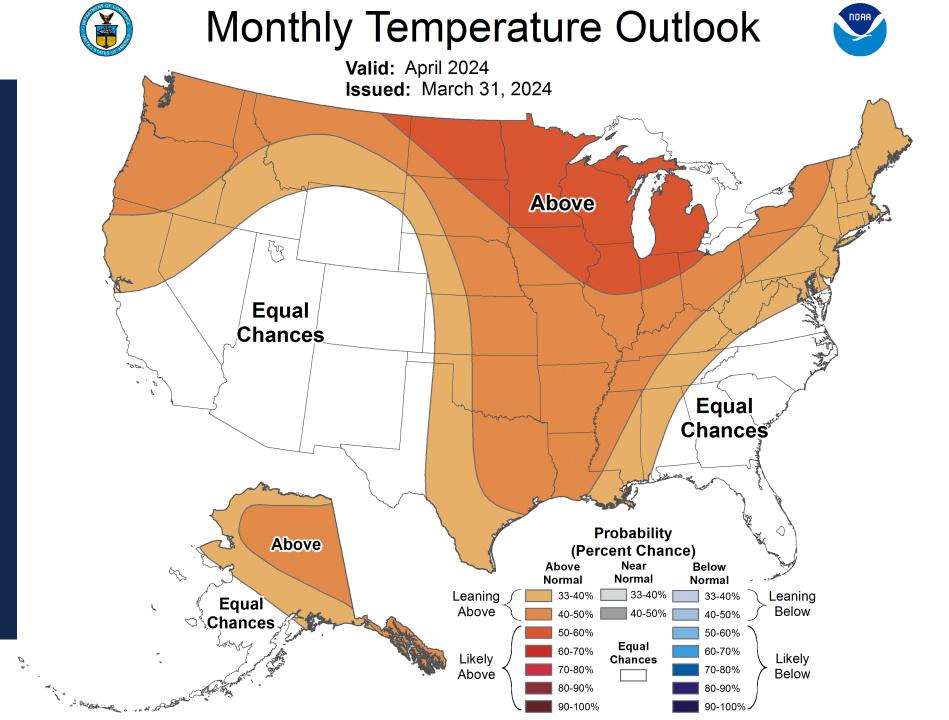




Seasonal Precipitation Forecast

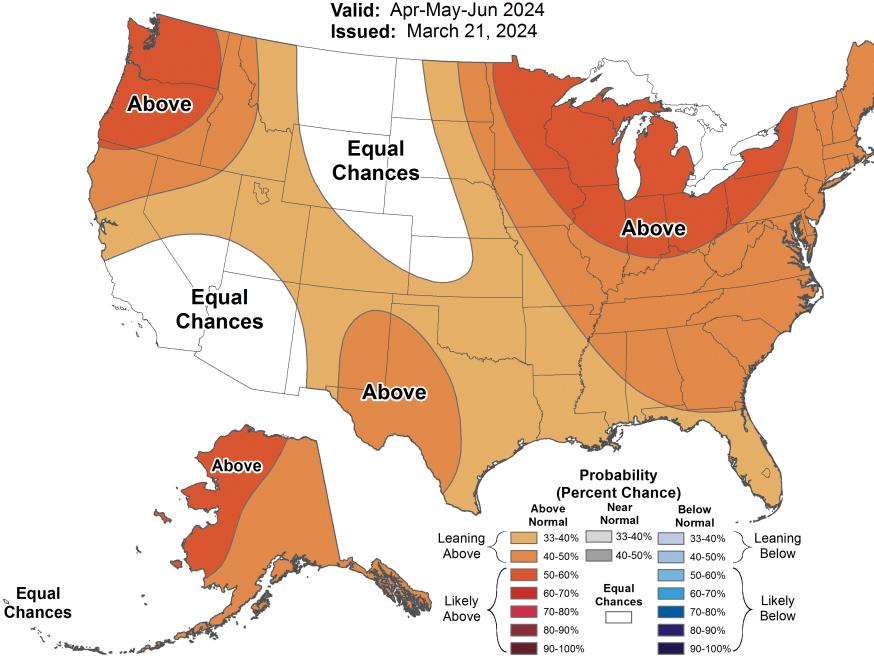


Monthly Temperature Forecast

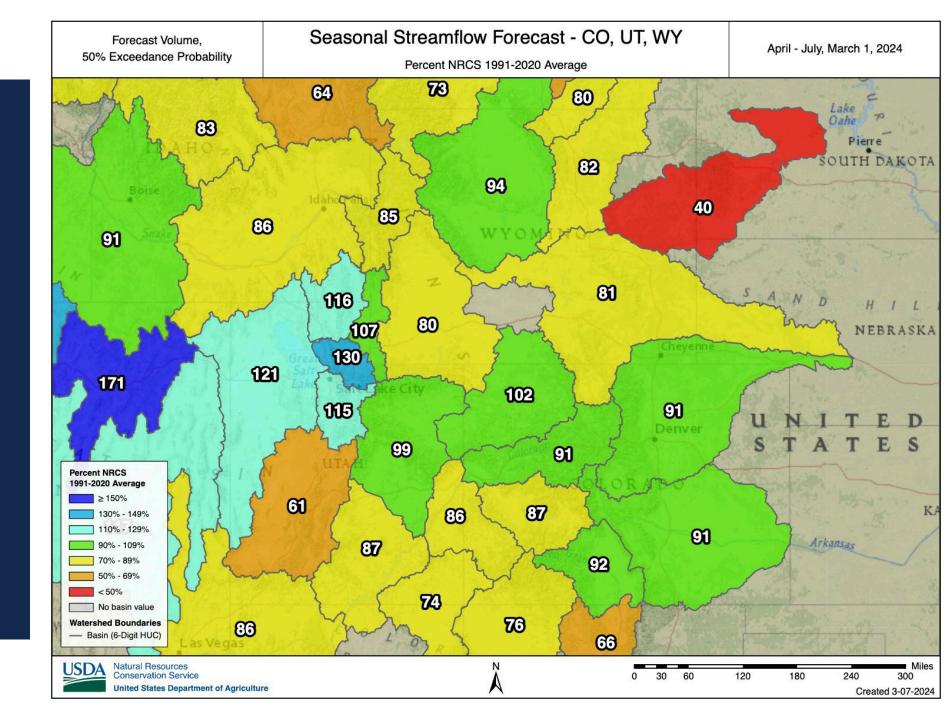


Seasonal Temperature Forecast





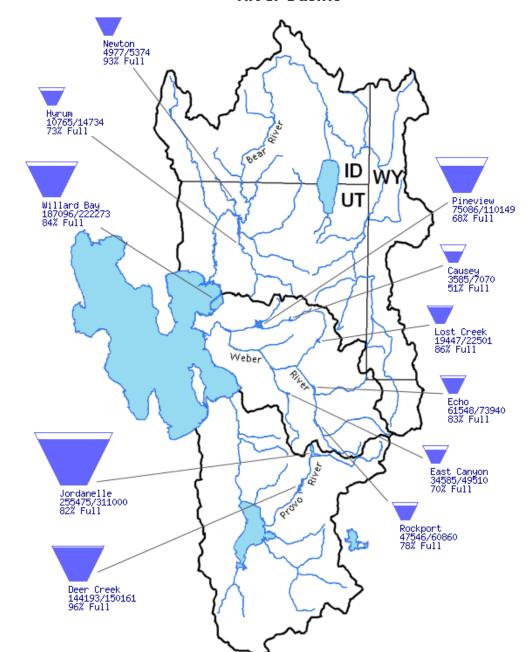
Seasonal Streamflow Forecast



Wasatch Reservoirs: % full as of April

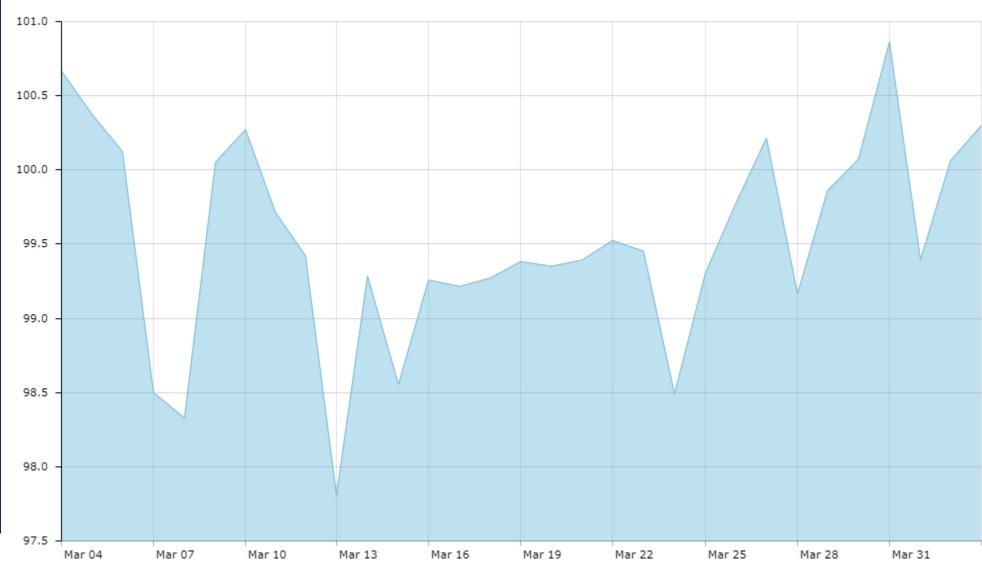
Data Current as of: 04/14/2024

Bear, Weber, and Provo River Basins



Utah Lake: at compromise

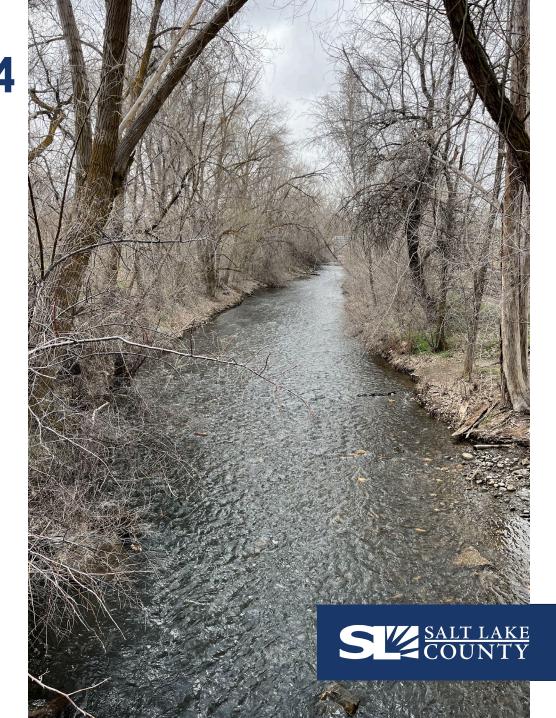
All CUWCD Data is Provisional



Comparison from 2023 to 2024

2023

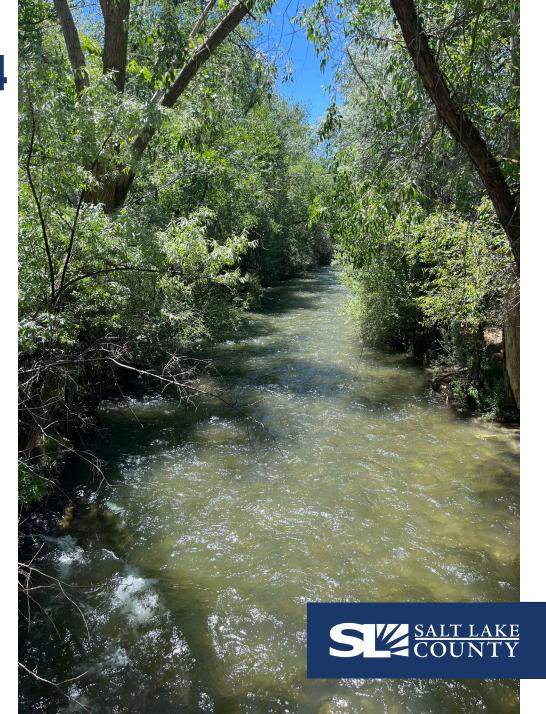
- Record snowpack 200+% of normal
- Record drought conditions leading into winter
- Soil Moisture extremely low
- Reservoir & Lake Storage (lots of room)
 - Utah Lake Low
 - Jordanelle Low
 - Deer Creek Low
 - Great Salt Lake Low



Comparison from 2023 to 2024 (cont.)

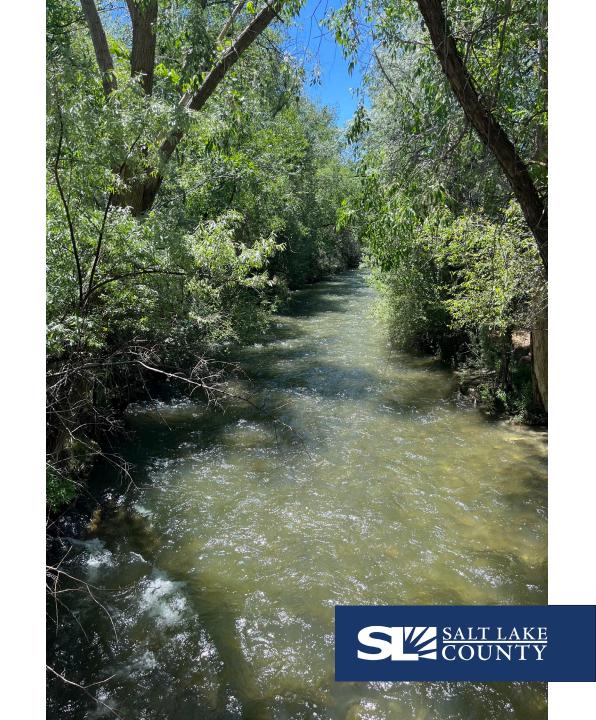
2024

- Snowpack 130% of normal
 - Less low and mid level elevation snow
- Soil Moisture extremely high
- Reservoir & Lake Storage (no room)
 - Utah Lake Full
 - Jordanelle Full
 - Deer Creek Full
 - Great Salt Lake Rising



Response in 2023 supports 2024 efforts

- Less debris in creeks due to 2023 preventative efforts
- Dredging of 10 Flood Control(FC)
 Detention Basins
- FC has all the sandbags we can store



2024 Runoff Ready Preparation

- Spring Runoff Prep collaboration with cities and towns
- Utah Lake/Jordan River Coordination with State
- Public outreach and education program, including dedicated website and social media engagement
 - https://slco.org/runoff-ready/
- Resource collaboration with municipalities
 - 15,000 filled sandbags and 823,000 unfilled sandbags
 - Two (2) Sandbagger Machines ready to go
 - FC Crews walking creeks for debris removal
 - Staging equipment on Emigration & Parley's Creeks
 - Coordinate all response with cities



2024 Runoff Ready Preparation (cont.)

- Flood Control & Watershed will continuously monitor precipitation and snowpack data
- Systems in place to retrieve real-time data Precipitation, Snowtel, and Stream Flow information
- Utilize data-driven decision-making process to prioritize equipment staging and resource allocation



Typical Peak Runoff Date Ranges by Waterway

City Creek ----- May 15th to May 25th

Emigration Creek ----- April 15th to May 10th

Parley's Creek ------ April 10th to May 10th

Mill Creek ----- May 20th to June 10th

Big Cottonwood Creek ----- May 20th to June 25th

Little Cottonwood Creek ----- June 5th to June 25th



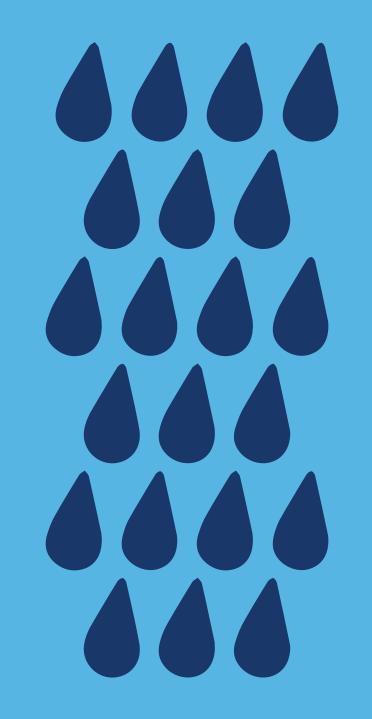
Current Status

- 1. Controlled releases from Utah Lake to the Jordan River
 - Additional 800 to 1,500 cfs, more than double last year
 - Gates are fully open
 - Jordan River trail will have limited access in some areas though July
 - Coordinating with Parks and Rec for Jordan River Trial impacts
- 2. Ground water issues in the surrounding areas along the river
- 3. Jordan River will be flowing bank full in low-lying areas
- 4. Additional flows will be sent down Surplus Canal
- 5. Lower Jordan River will not be affected, currently
- 6. Controlled releases from Little Dell Reservoir to Parley's Creek
- 7. Emigration and Parley's Creeks are actively running off



Thank You

Questions?



Contact: Salt Lake County Flood Control (385) 468-6600



