

January 22, 2024

Natural Resources, Agriculture and Environmental Quality
Appropriations Subcommittee

Division of Water Resources

Candice Hasenyager | Director
Division of Water Resources



Utah Division of Water Resources

water.utah.gov



PLAN | CONSERVE | DEVELOP | PROTECT Utah's Water Resources



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Water Supply



Causey Reservoir, May 2023

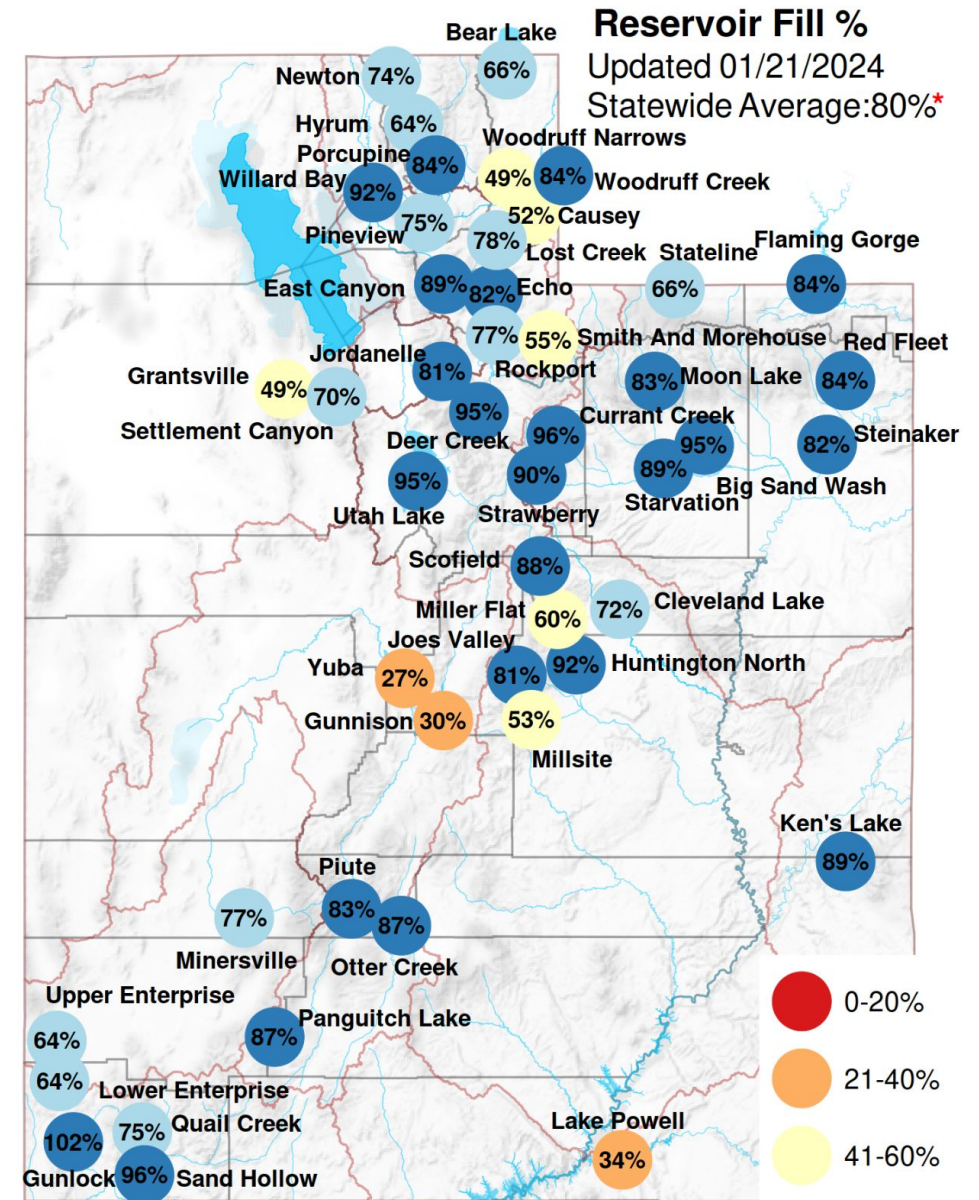


Reservoir levels

Statewide reservoirs are 22% higher than median for this time of year and 34% higher than last year



Utah Division of Water Resources

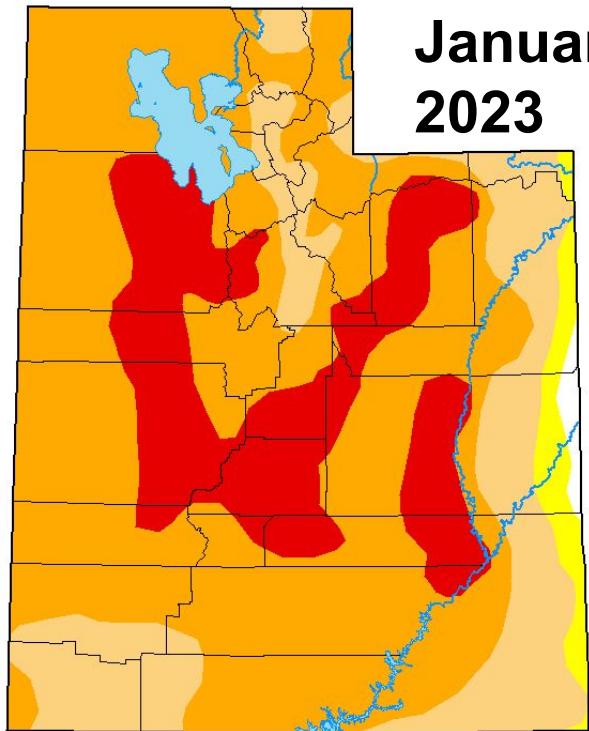


Data Sources: water.utah.gov/reservoirlevels

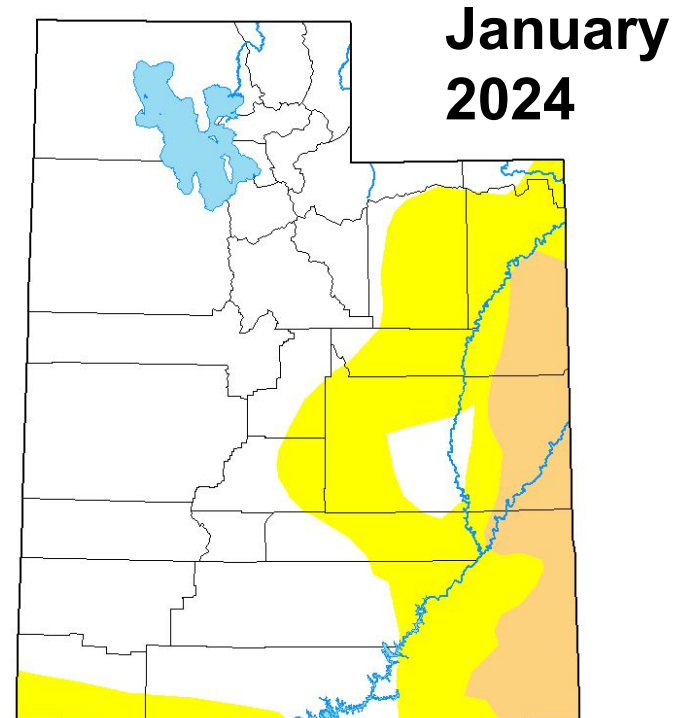
*State average excludes Lake Powell & Flaming Gorge to better represent the state's water supply.

Total capacity including these is 47%

U.S. Drought Monitor Map



96% in “Moderate” and 77% in “Severe”
drought



67% in “None” and 33% in “Abnormally Dry”
and just under 10% in “Moderate Drought”

Intensity



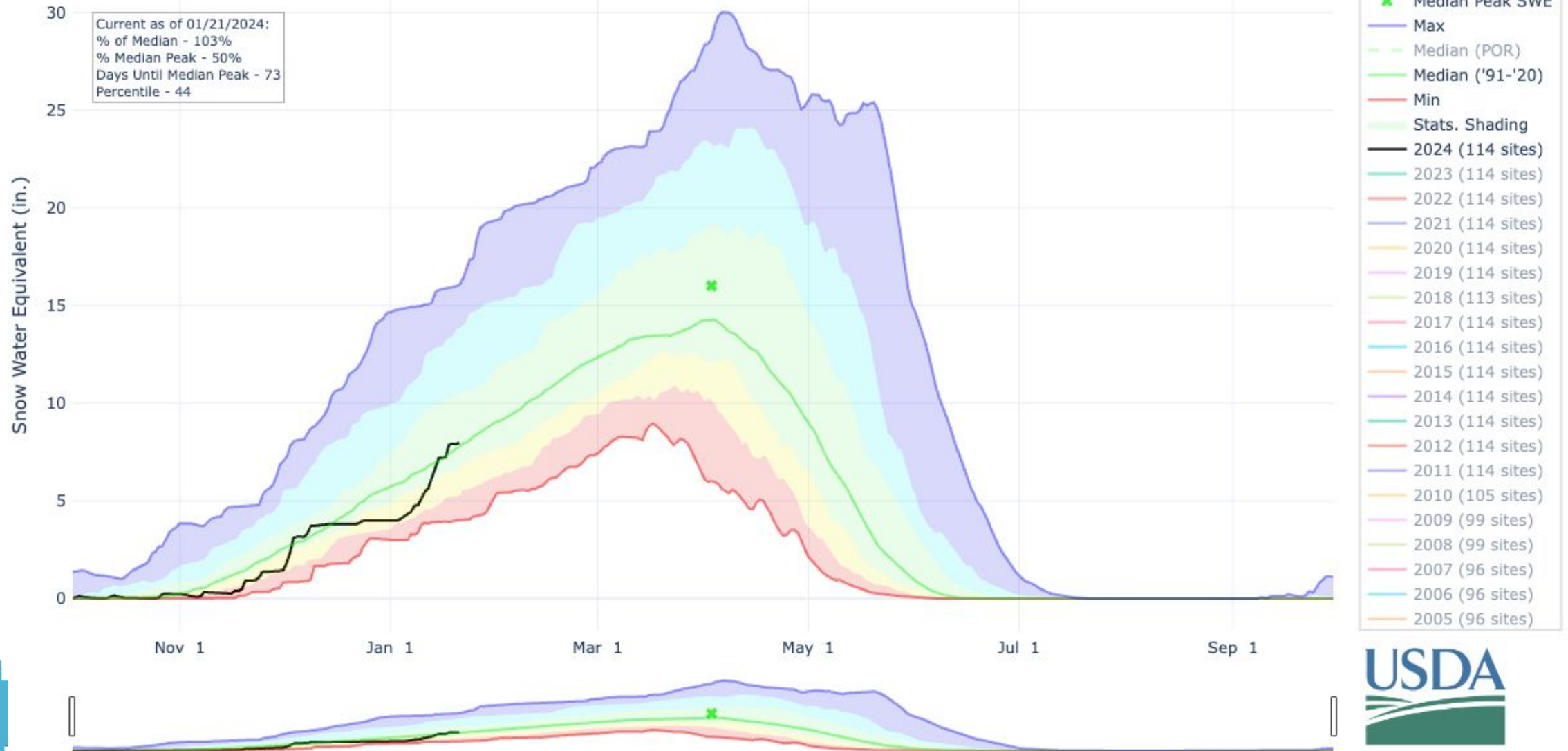
Snow Water Equivalent

SNOW WATER EQUIVALENT IN STATE OF UTAH

Reset Range

[Link to data: CSV / JSON](#)

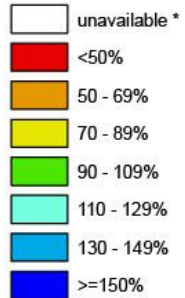
[Station List](#)



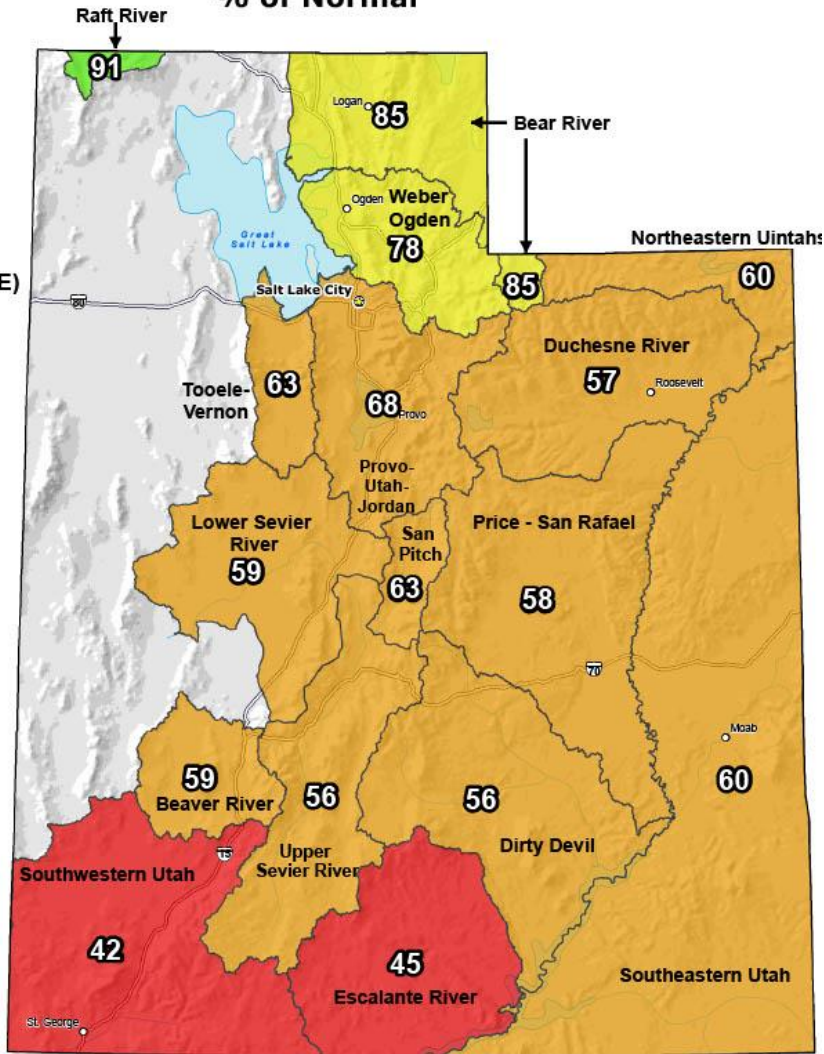
Utah SNOTEL Current Snow Water Equivalent (SWE) % of Normal

Jan 05, 2024

Snow Water Equivalent (SWE)
Basin-wide
Percent of
1991-2020
Median



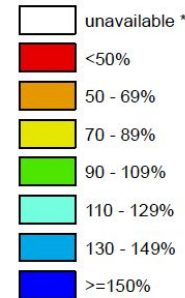
* Data unavailable at time of posting or measurement is not representative at this time of year
*Provisional Data
Subject to Revision*



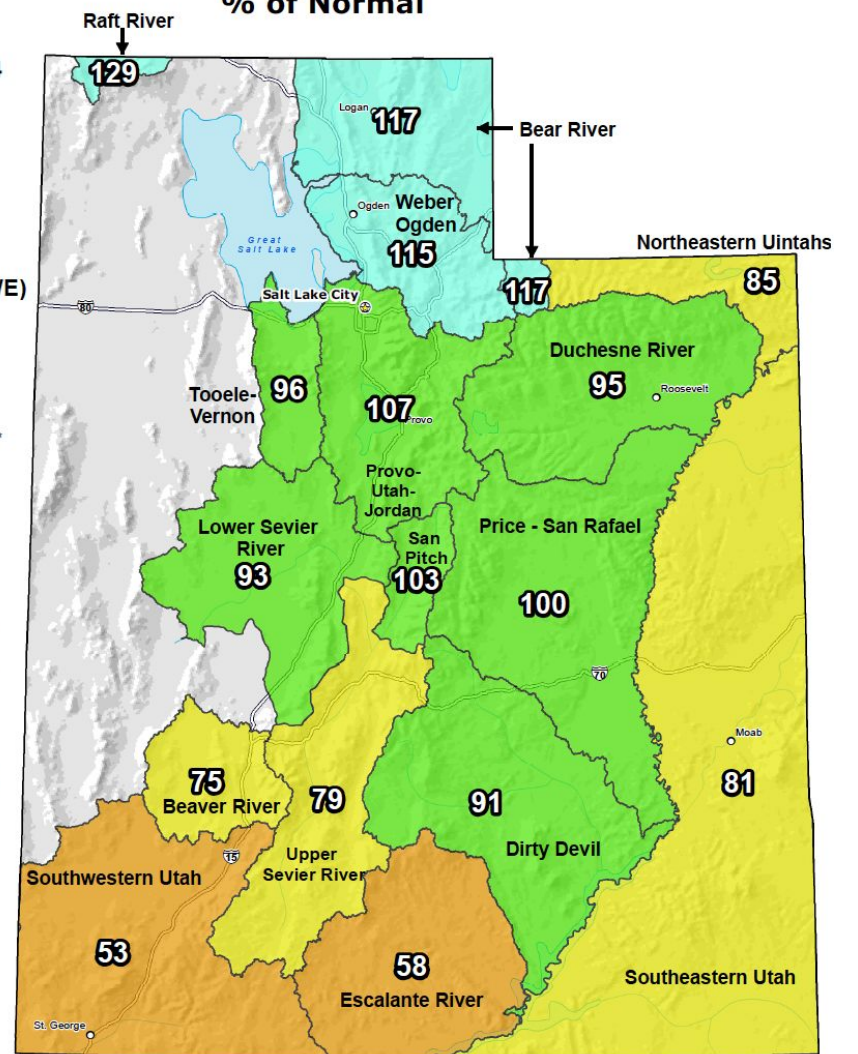
Utah SNOTEL Current Snow Water Equivalent (SWE) % of Normal

Jan 21, 2024

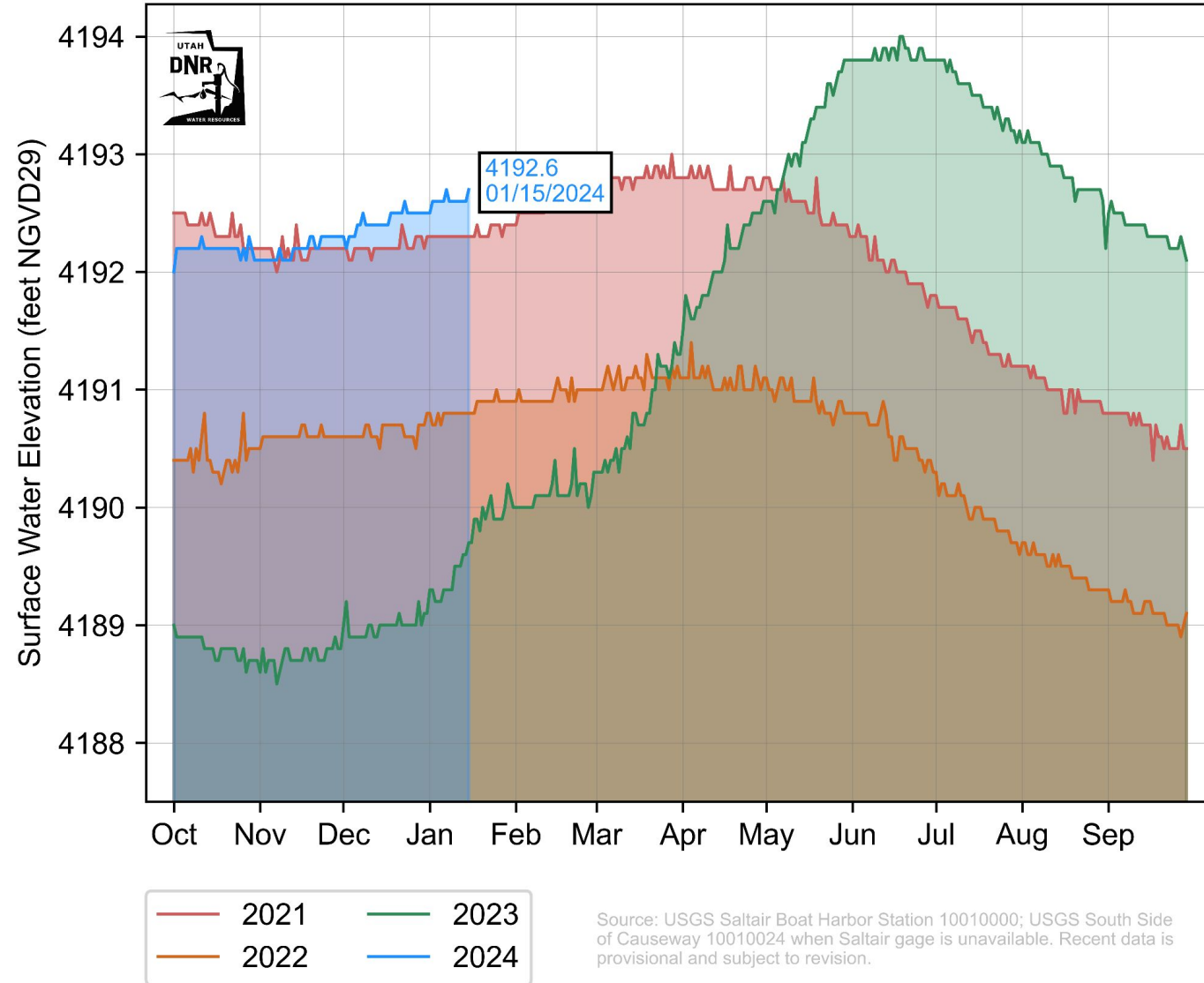
Snow Water Equivalent (SWE)
Basin-wide
Percent of
1991-2020
Median



* Data unavailable at time of posting or measurement is not representative at this time of year
*Provisional Data
Subject to Revision*



Great Salt Lake South Arm Elevation



Source: USGS Saltair Boat Harbor Station 10010000; USGS South Side of Causeway 10010024 when Saltair gage is unavailable. Recent data is provisional and subject to revision.

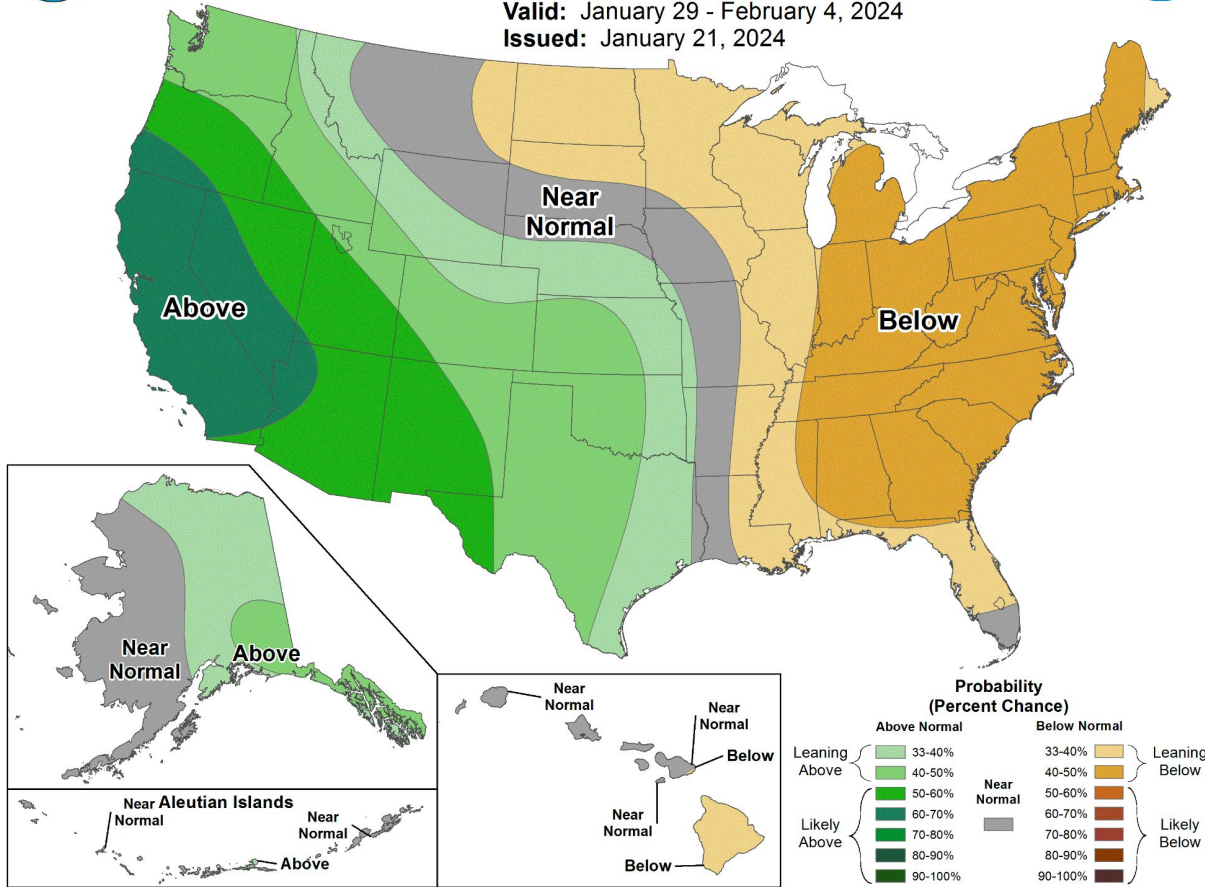
Water surface elevation labeled on the graph is the 5-day mean.





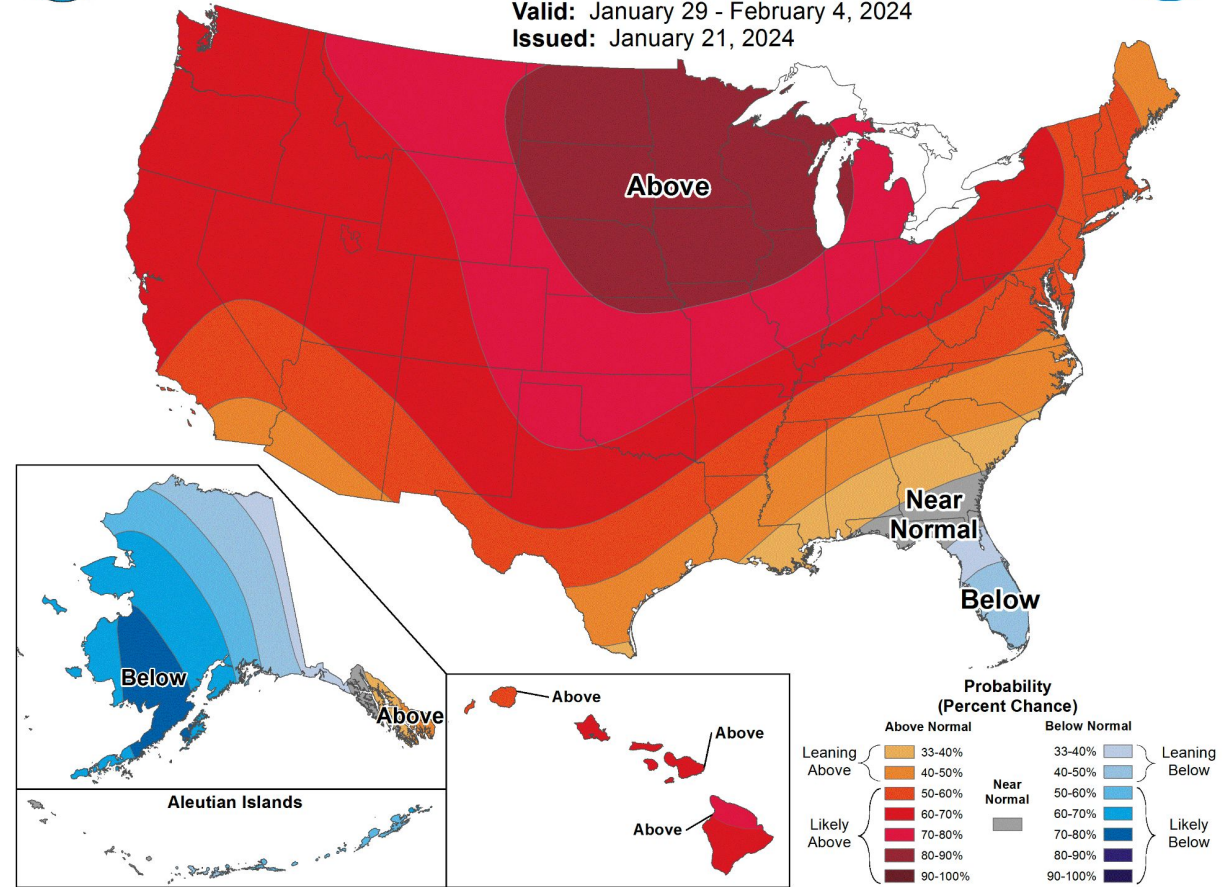
8-14 Day Precipitation Outlook

Valid: January 29 - February 4, 2024
Issued: January 21, 2024

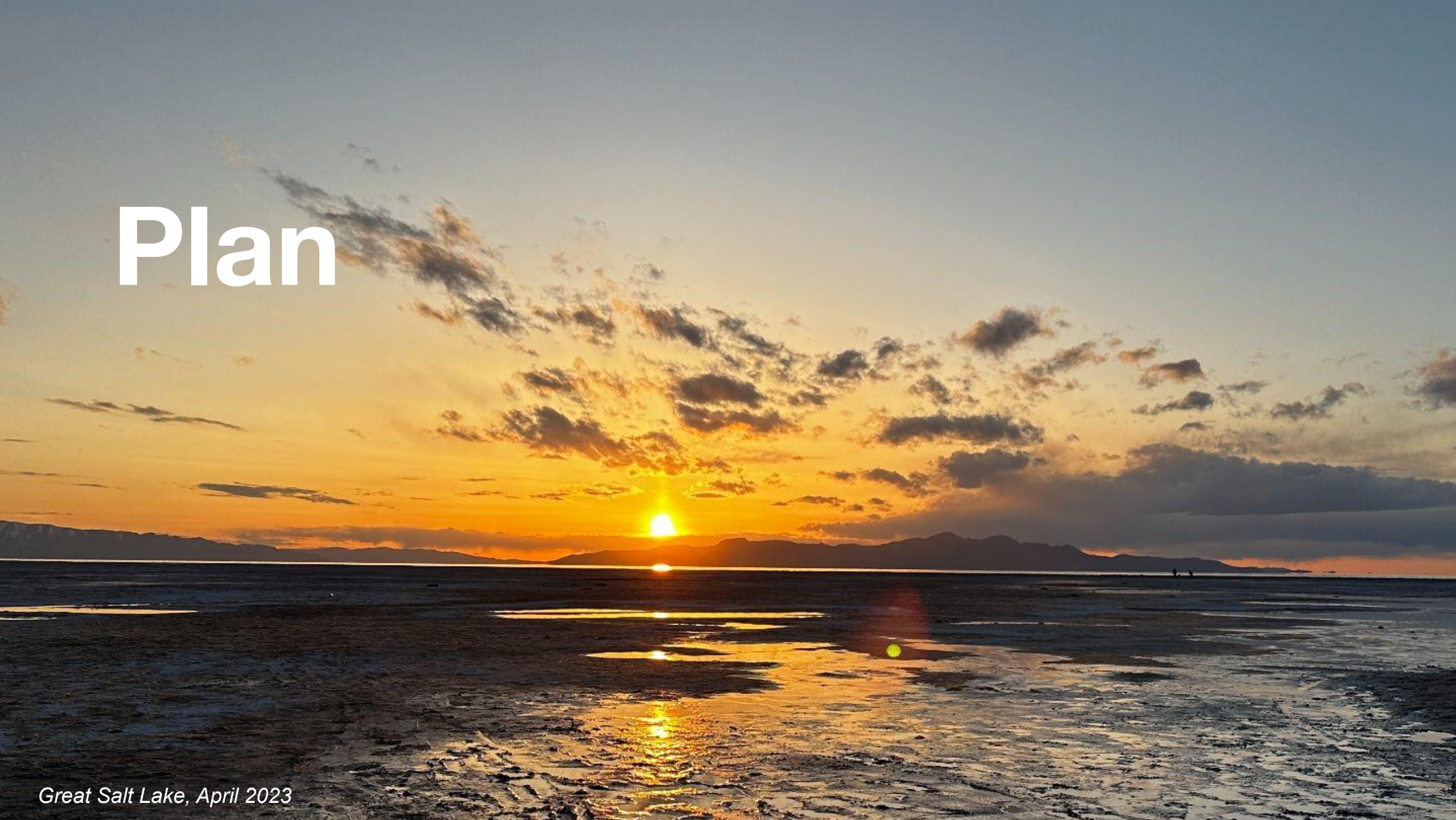


8-14 Day Temperature Outlook

Valid: January 29 - February 4, 2024
Issued: January 21, 2024



Plan



Growing Water Smart

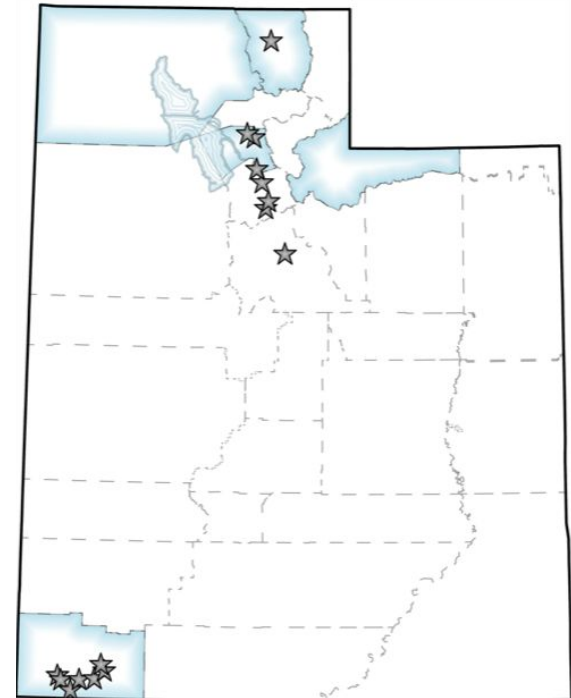
Brings key community staff and decision-makers on water and land use planning together to collaborate to help build a more resilient and sustainable water future

Successful 3rd Utah workshop

3rd workshop included 54 team participants from 7 communities and Washington County

Each team created an action plan along with an implementation timeline

The division is planning a fourth workshop for northern Utah in 2024



GWS Participant Map



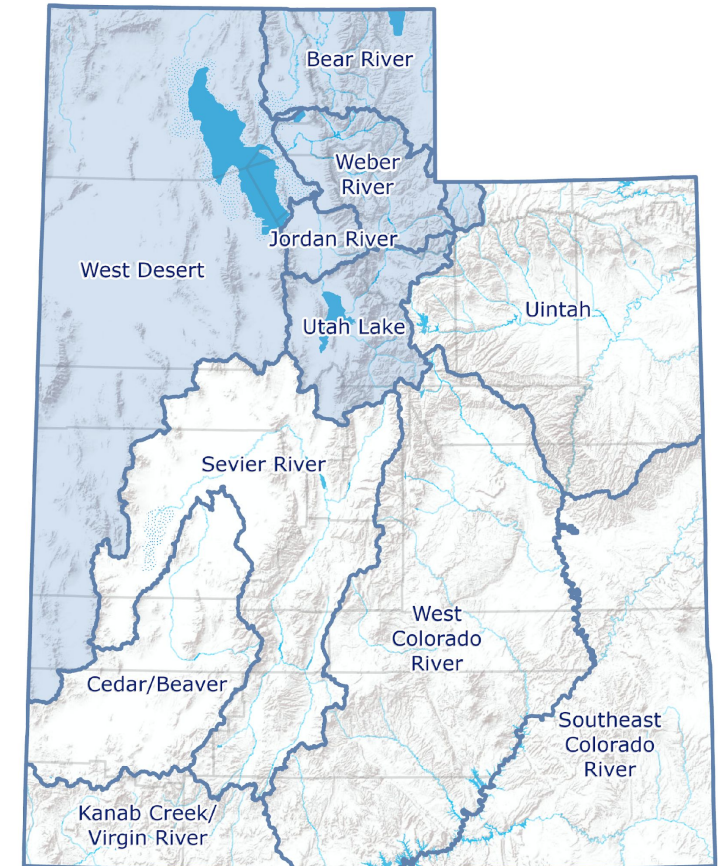
Utah Watersheds Council (a statewide council)

Formed:

- January 2022

Role:

- A forum to encourage and facilitate discussion and collaboration among water-related stakeholders
- Facilitate coordination between DNR, DEQ, UDAF and other state and federal water agencies
- Advise governor and legislature on water issues
- Support local councils



□ 11 Utah Watershed Councils

■ Great Salt Lake Watershed Council



Local Watershed Councils

Established:

- Bear River Watershed Council (April 2023)
- Jordan River Watershed Council (April 2023)
- Weber River Watershed Council (July 2023)
- Utah Lake Watershed Council (July 2023)
- West Desert Watershed Council (Oct. 2023)
- Uintah Watershed Council (Oct. 2023)
- Kanab Creek/Virgin River (Jan. 2024)
- Sevier River (Jan. 2024)

To be established:

- Cedar/Beaver (Spring 2024)
- West Colorado River (2024)
- Southeast Colorado River (2024)
- Great Salt Lake (2024)



Water Infrastructure Funding Study (2023 SB 34)

- Detailed water financing data obtained from several dozen water suppliers throughout the Western US
 - These entities include districts (wholesalers and retailers) and cities
 - Utah is not unique in how property taxes are used for water
 - Property taxes largely used by local and regional entities
- A handful of entities with property tax authority, don't use it
- A survey to gather more information from entities outside of Utah is underway
- Interviews with roughly 15-20 Utah water suppliers to be conducted
- The report will also include water rate structures and average water pricing for entities in Utah and other states



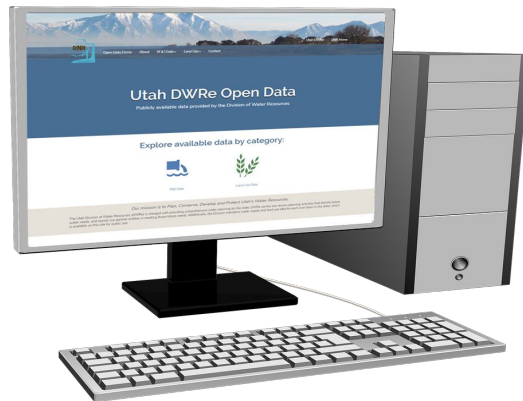
Open Water Data Website

- **Interactive Web Mapping Applications**

Visually explore the data and view summary statistics (by river basin, county, retail supplier, and more)

- **Downloadable Data**

shapefiles, spreadsheets



Utah Aqua Spots

Storymap of unique water features across the state



Interactive Map Application

For viewing Statewide Water-Related Land Use Data collected with the new CDL methodology (2017-2020)



Municipal and Industrial Water Data

- 2019 Culinary Suppliers
- 2019 County Summary
- 2019 State Summary
- 2019 Basin Summary

Current Offerings:



Water Related Land Use (WRLU) Data

- Historical Inventory Data
- 2017-2021 Statewide WRLU Datasets



Municipal and Industrial Water Data

- 2015-2020



Water Budget Data

- Historical Data thru 2019
- (2020 update coming soon)












Develop

Millsite Dam, December 2023

Board of Water Resources



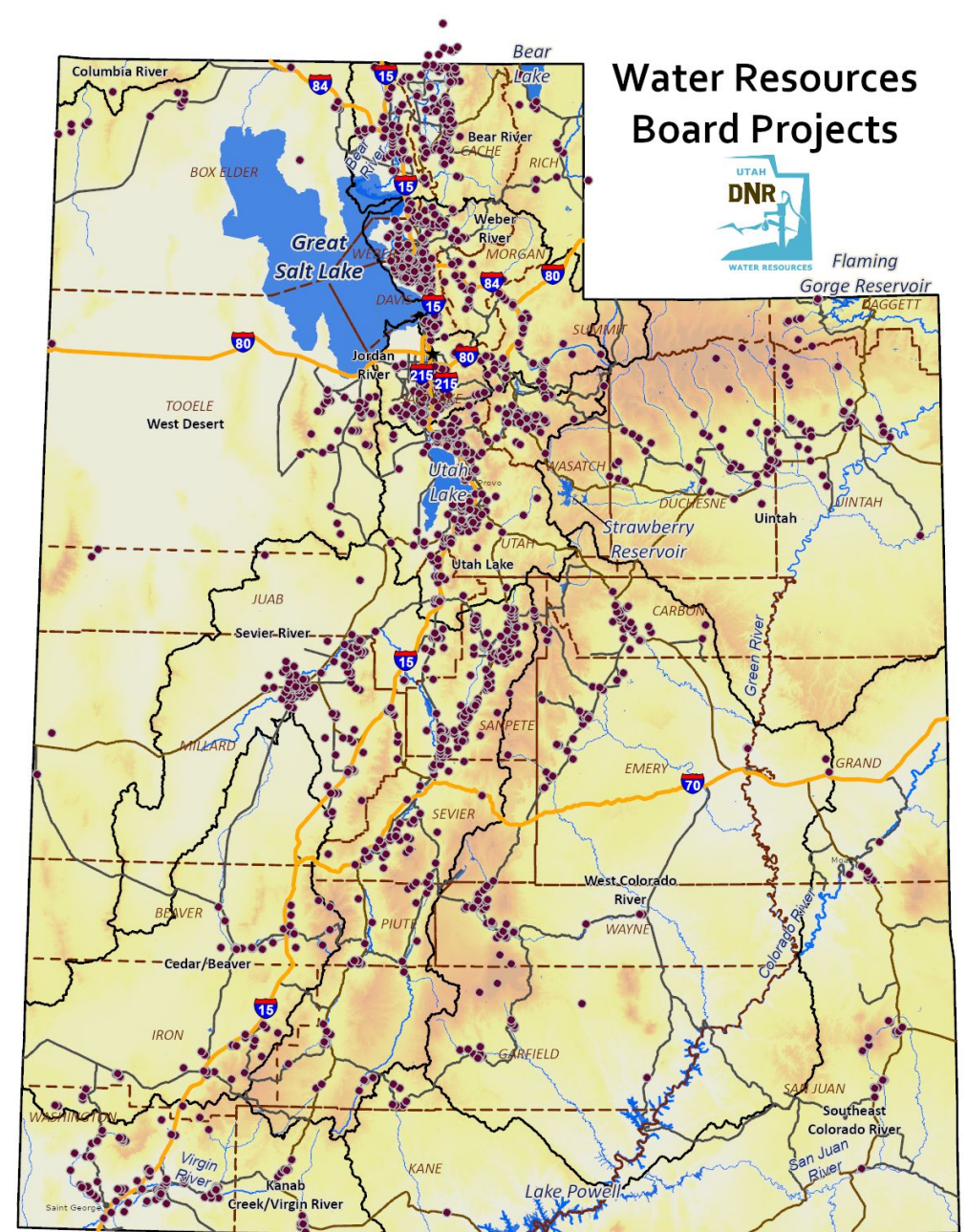
Brian Steed,
Great Salt Lake Board Member

 <p>Salt Lake & Tooele Counties Salt Lake & Tooele</p> <p>Chair Juliette Tennert C. 385-216-1674 Email: juliette.tennert@utah.edu Salt Lake City UT 84103</p>	 <p>Bear River District Box Elder, Cache & Rich</p> <p>Vice-Chair Charles Holmgren O. 435-279-8357 C. 435-279-3303 Email: cwholm@frontiernet.net Bear River City UT 84301</p>	 <p>Green River District Daggett, Duchesne & Uintah</p> <p>Randy Crozier C. 435-823-4529 Email: croziermch@gmail.com Neola UT 84053</p>
 <p>Lower Colorado River District Beaver, Garfield, Iron, Washington & Kane</p> <p>Spencer Jones C. 435-463-0843 Email: spencer@velocitybuilders.com Enoch UT 84721</p>	 <p>Upper Colorado River District Carbon, Emery, Grand & San Juan</p> <p>Dana Van Horn C. 435-260-9952 Email: moabvanhorns@gmail.com Moab UT 84532</p>	 <p>Provo River District Juab, Utah & Wasatch</p> <p>Michael Davis C. 435-671-3216 Email: michaeldavis@hotmail.com Heber City UT 84032</p>
 <p>Sevier River District Millard, Sanpete, Sevier, Piute & Wayne</p> <p>Blaine Ipson P. 435-864-3120 C. 435-864-8592 Email: blaine.ipsen@ipsc.com Delta UT 84624</p>	 <p>Weber River District Weber, Davis, Morgan & Summit</p> <p>Kyle Stephens C. 801-870-0800 Email: kstephens08@gmail.com Kayville UT 84037</p>	 <p>Division of Water Resources Director</p> <p>Candice Hasenyager O. 801-538-7278 Email: candicehasenyager@utah.gov Salt Lake City UT 84114</p>



Board Funding

- 3 revolving funds
- 1,584 projects funded since 1947
- Funds totaling \$1.34 B
- FY 2023 - funded 62 projects with a total contribution of over \$260 M
- Includes dams, irrigation, drinking water and secondary water projects



Dam Safety Funds

- Annual dam safety funding \$3.8 M
- Average cost to upgrade a dam is \$4.6 M
- Upgrades to Millsite, DMAD and Sevier Bridge dams are nearing completion
- Around 100 high hazard dams need upgrades
- It will take over 100 years at current funding
- 2015, 2019, 2022, 2023 Legislature provided a total \$62.4 M in one-time funds to partner on NRCS dams and extraordinarily large dam projects
- FEMA grant application



Secondary Meter Grants

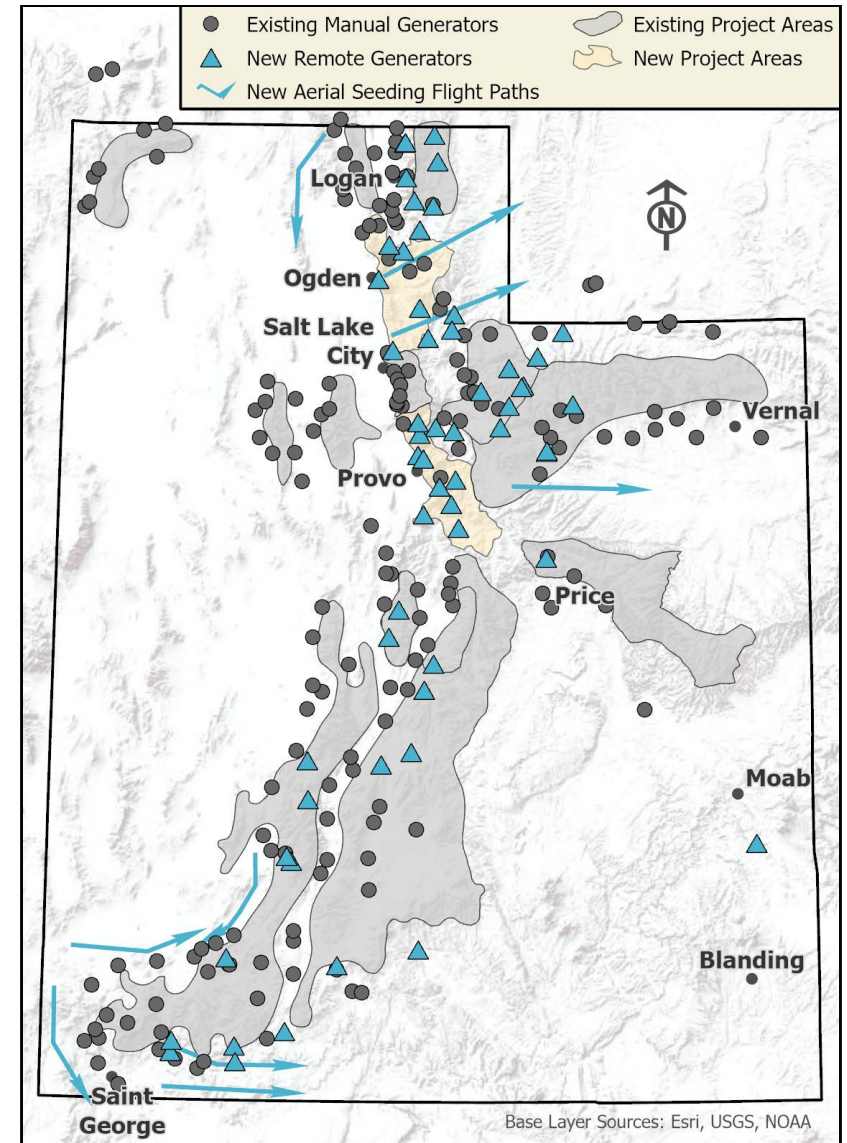


- Can't manage what you don't measure
- Average water reduction of 20-30%
- Long-term investment will yield continued savings
- \$167 million in grants contracted for the purchase and installation of secondary meters so far
- \$38 million in Board loans contracted for meter projects
- Over 24,000 meters installed



Cloud Seeding

- Appropriations to expand cloud seeding
 - \$12 million one-time, \$5 million ongoing (compared to \$350,000 annually)
- Utah aerial cloud seeding operations began Nov. 2022
- 20 Remotely operated cloud seeding generators 2023 (Goal of 40 more by Nov. 2024)
- Studying new areas to cloud seed
- Meteorologist has been hired to oversee the program
- Cloud Seeding Symposium



Cloud Seeding Map

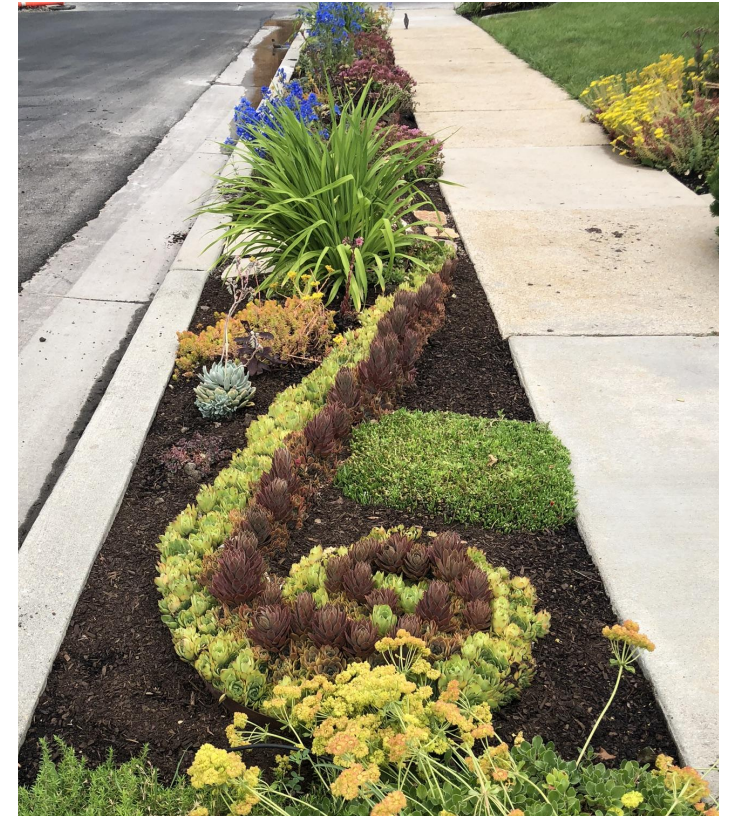




Conservation

Landscaping Conversion Incentive Program

- Since [2022 HB 121](#) and [2023 SB 118](#) were passed, Utah has replaced almost **4 million square feet of grass**, save about 104 million gallons of water annually
- Incentives for removing lawn and replacing it with water efficient landscaping
- Over 5,000 applications since May 1, 2023
- A waterwise landscape uses about **2/3 less** water than a traditional Utah landscape
- Partnerships with water conservancy districts
- Apply: UtahWaterSavers.com or for Washington County wcwcd.org



Courtesy: JVVCD

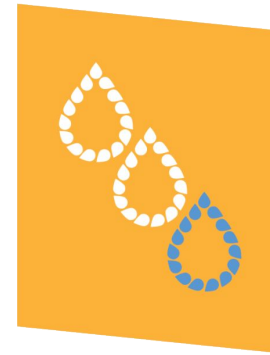


Water Efficiency Standards

- Communities must adopt water-efficiency standards for new construction in order for residents to participate in the Landscape Conversion Incentive Program
- 63 eligible locations (this includes counties and unincorporated areas that have adopted standards)
- 56.5% of Utahns live in an area with water-efficiency standards



Utah Water Savers



Almost 30,000 rebates have been paid to Utahns for these devices in five years



Transparent Water Billing

- Resources for education and outreach
- Effective communication techniques
 - Text, Email, Bills, and Portals
- Help customers understand water bill
- Collaboration between water provider, WRe, and software service providers
- Reporting on effective tactics
- We are showing a 12% reduction in water use VS control groups in some cities.

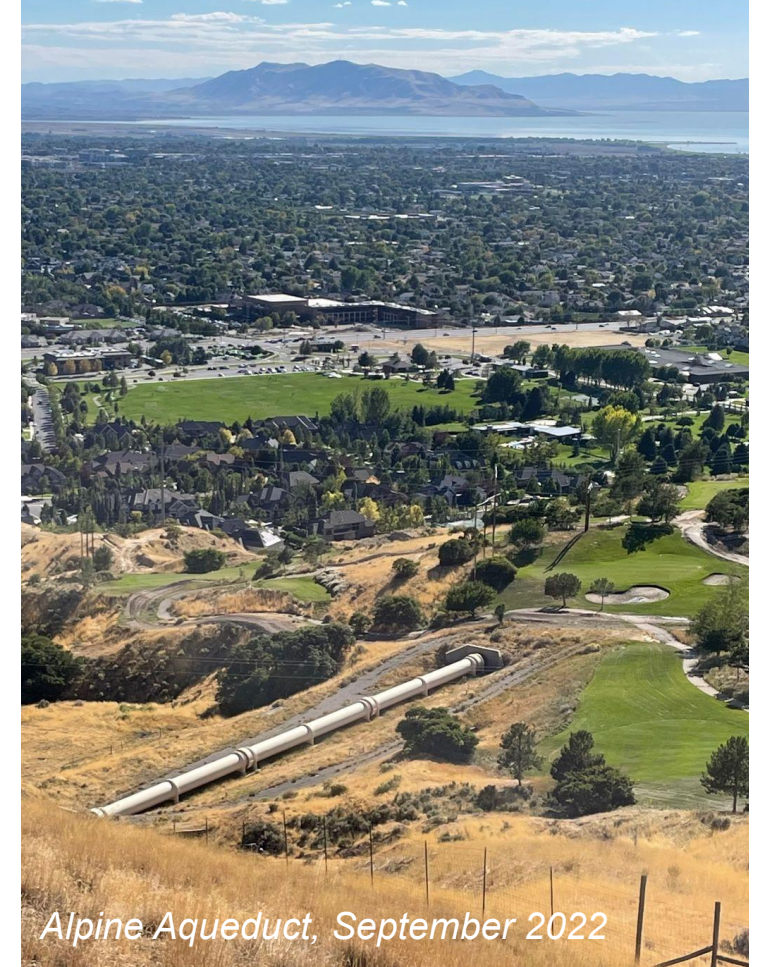




Protect

Wasatch Front Aqueduct Resilience

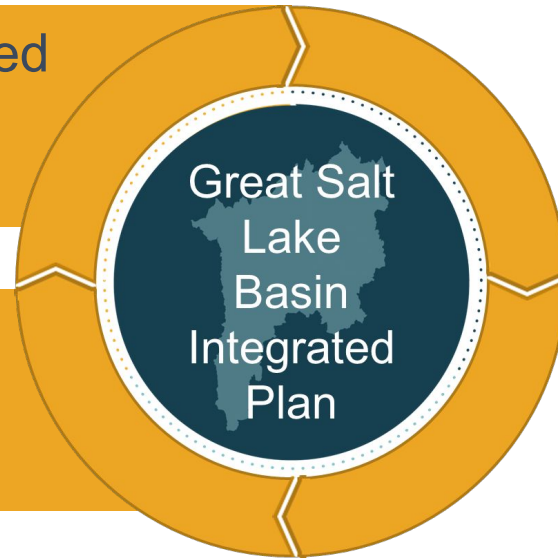
- Estimated total cost \$560 million, Funding needed \$180 million
- 2023 Appropriation: \$50 million
- Upgrade pipelines to improve seismic resilience along the Wasatch Front
- Applications were due last fall and have been reviewed, grants awarded
- Contracts are being prepared for recipients
- Funds will be reimbursed as studies and construction are completed



GSL Basin Integrated Plan

HB 429 Great Salt Lake Watershed
Integrated Water Assessment
(\$5M, Finish by Nov 2026)

U.S. Bureau of Reclamation
WaterSmart Basin Study
(\$3.1M Match)

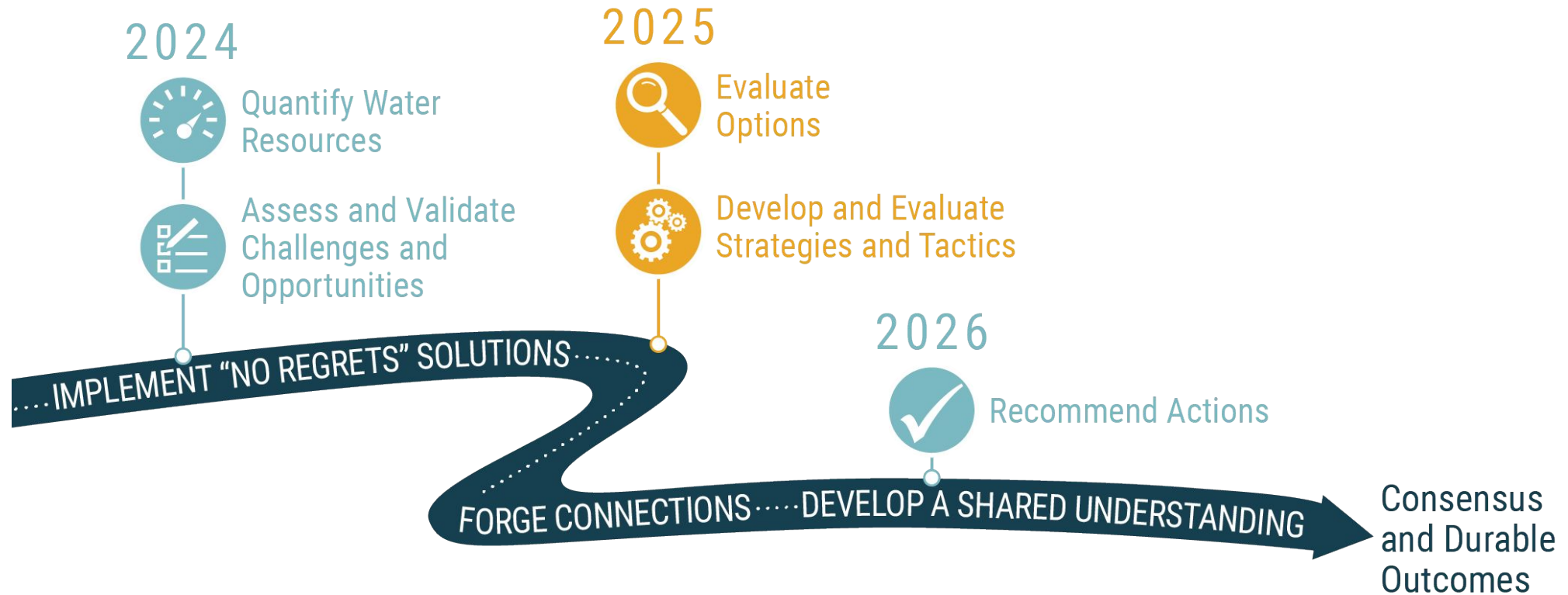


Goal:

Ensure a resilient water supply for Great Salt Lake and all water uses, including people and the environment, throughout the watershed.



GSL Basin Integrated Plan



Interstate Stream - Colorado River

- 63M-14-103 Division of Water Resources shall coordinate with the authority and river commissioner
- UCRC's Depletion Demand Schedule
- Glen Canyon Dam Adaptive Management Program support for the Technical Work Group
- Modeling work related to interstate streams needs (e.g. Virgin River).
- Represent Utah on Colorado River Salinity Control Program
- MOA contract and project administration
- Climate and Hydrology Work Group



Interstate Stream - Bear River

- Utah Division of Water Resources worked with the Idaho Department of Water Resources and the Wyoming State Engineer's office, through the commission's Technical Advisory Committee, to finalize an updated Depletion Study.
- Developed, maintaining and expanding a Bear River model from Bear Lake to Great Salt Lake
- Agricultural Optimization



Opportunities for Water Funding

- State Water Resources Planning Specialist - \$136,500 ongoing GF
- Dam Safety Upgrades - \$5.0M one-time GF
- Water Resources Technical Assistance Programs
 - Utah Growing Water Smart workshops - \$600,000 one-time restricted funds
 - Watershed Councils - \$150,000 - one-time restricted funds
 - Transparent Water Billing - \$1.0M - one-time restricted funds
- Aqueduct Seismic Resilience Upgrades - \$20.0M one-time GF



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- 1,660 new Facebook followers
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Gloria Falls, July 2023

Thank you.

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