

Utah Water Supply Briefing

April 7th, 2023

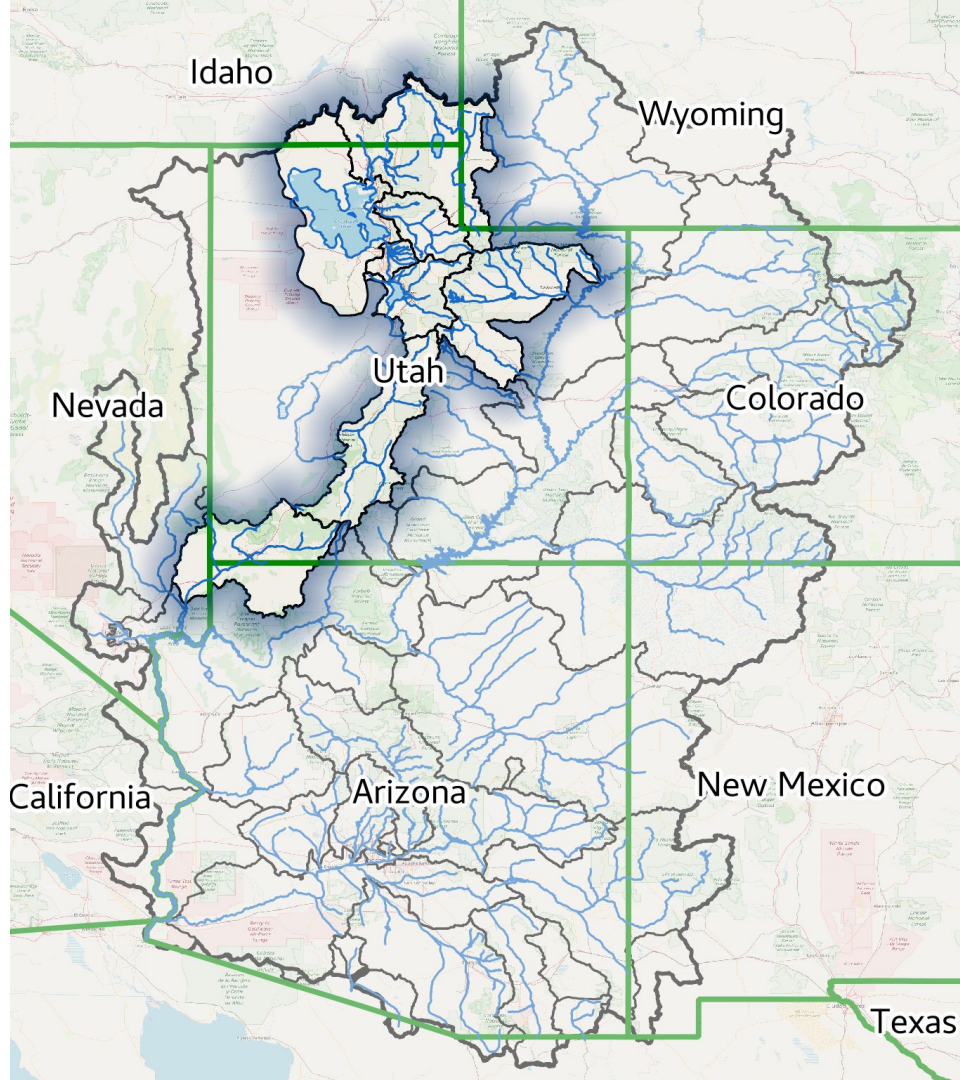
Colorado Basin River Forecast Center

Presenter: - Brenda Alcorn

Utah Forecasters: Trevor Grout
Brenda Alcorn
Patrick Kormos

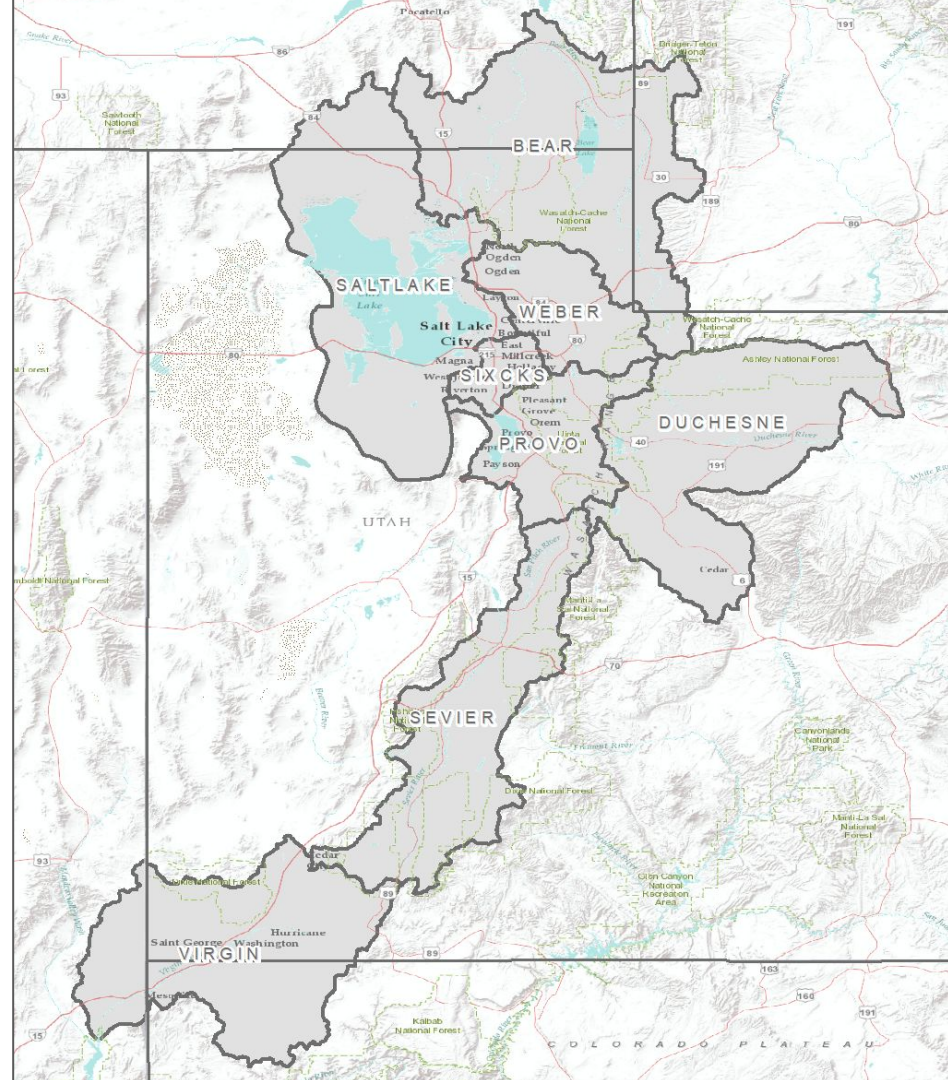
Questions: Type questions into the 'Questions'
Box or Raise Hand

**Webinar recording & slides will be
made available on CBRFC webpage**

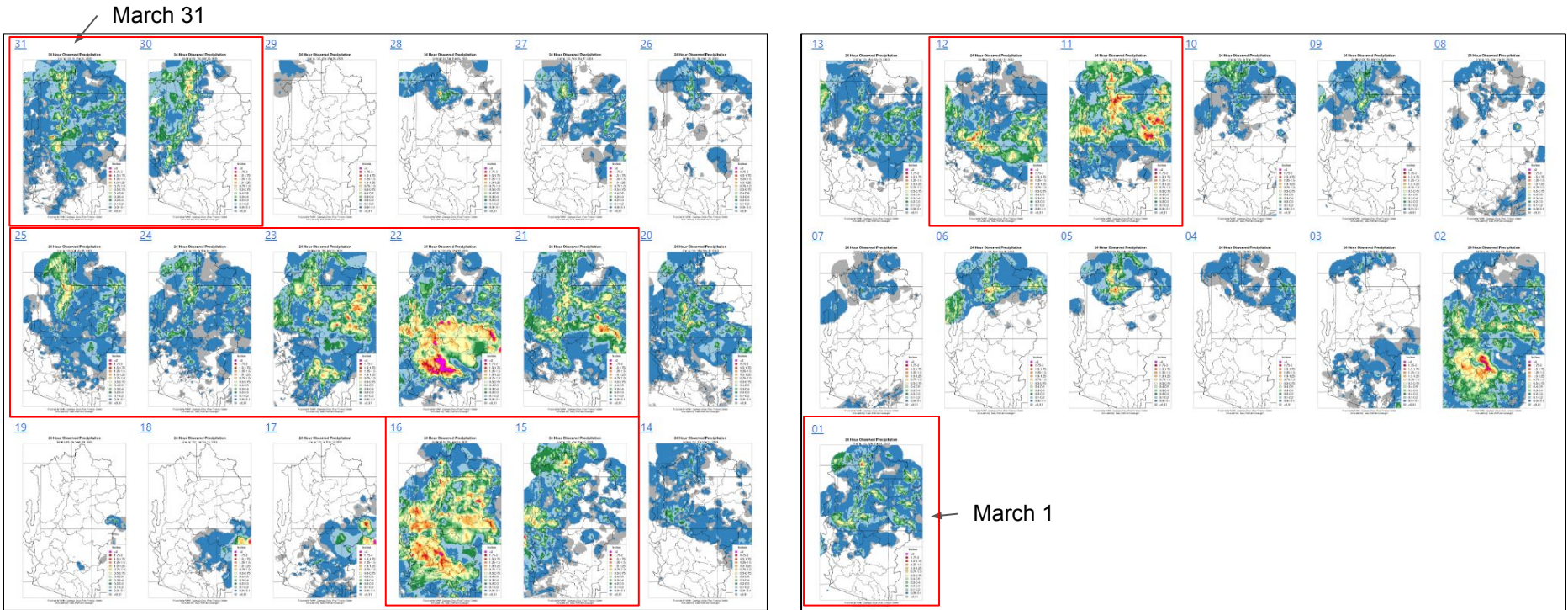


Utah Water Supply Briefing

1. Weather and Snowpack
2. Water Supply Forecasts
3. Upcoming Weather
4. Peak Flow Forecast Information
5. Contacts & Questions



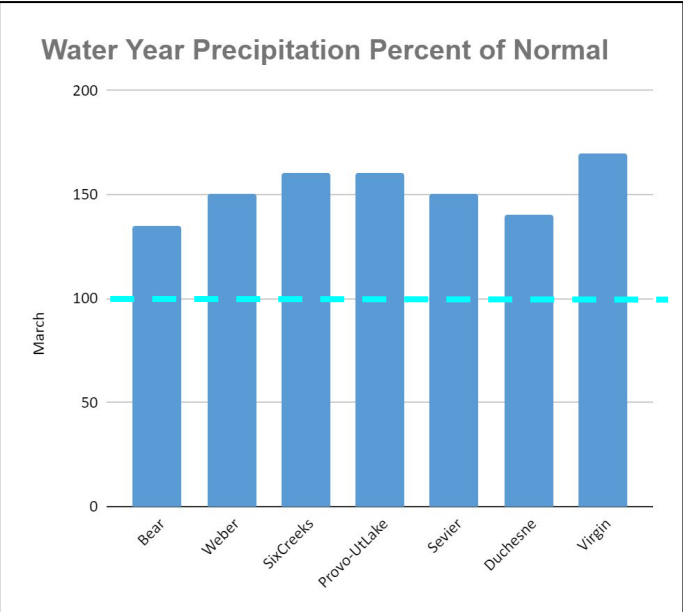
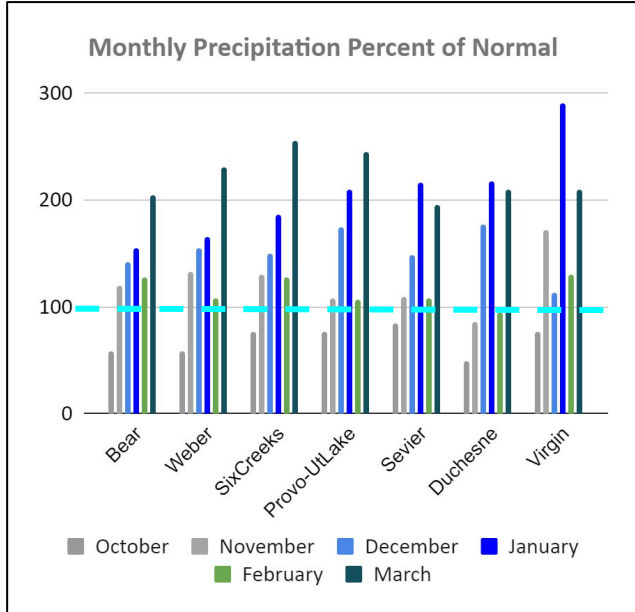
Utah Weather Review - March Daily Precipitation



March started wet and ended wet, with very few statewide dry days in between.
Big precipitation events ~weekly with some precipitation most days.

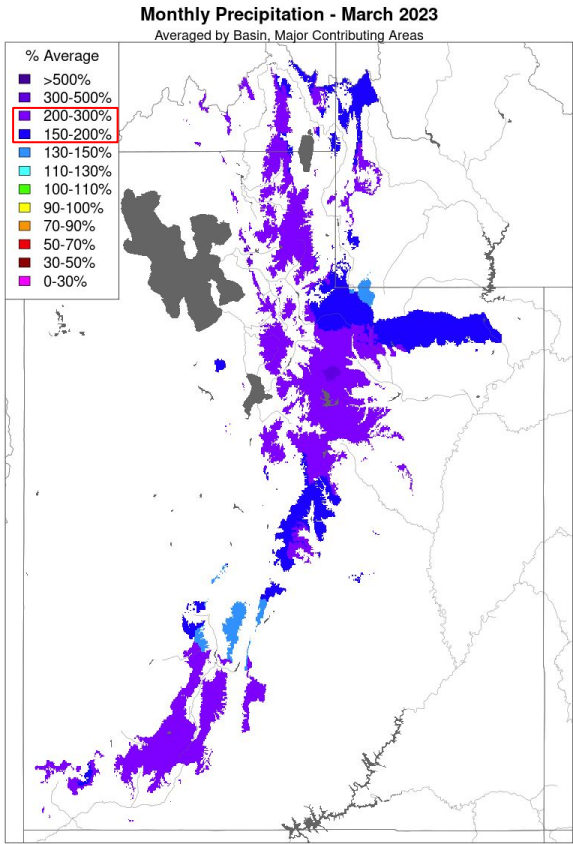
Utah Weather Review - March and Water Year Precipitation Totals

- >200% average March precipitation in all basins except Sevier (195%)
- All forecast groups have seen much above normal WY precipitation

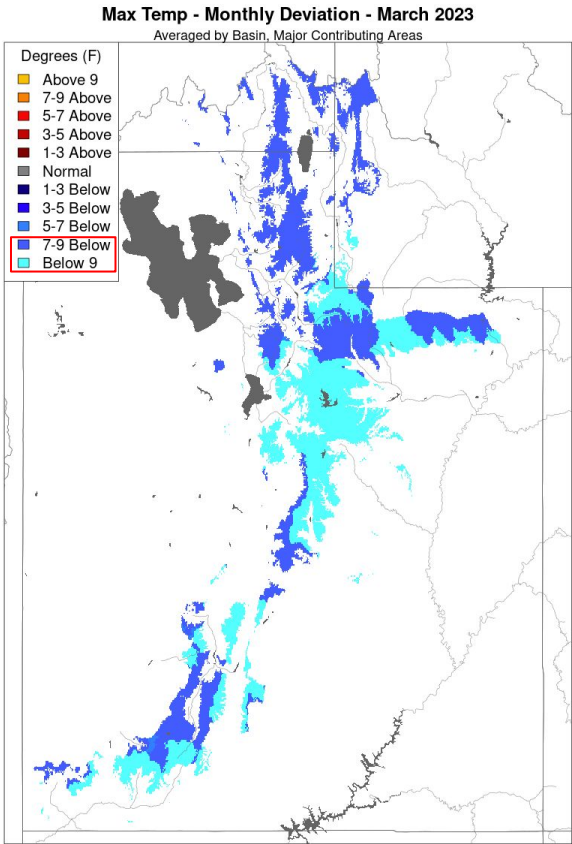


Water Year 2023 CBRFC Precipitation Percent of 1991-2020 Average		
	<u>Mar</u>	<u>Oct-Mar</u>
Duchesne	210	140
Virgin	210	170
Bear	205	135
Weber	230	150
Six Creeks	255	160
Provo/Utah Lake	245	160
Sevier	195	150

Utah Weather Review - March Precipitation and Temperature Maps



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



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

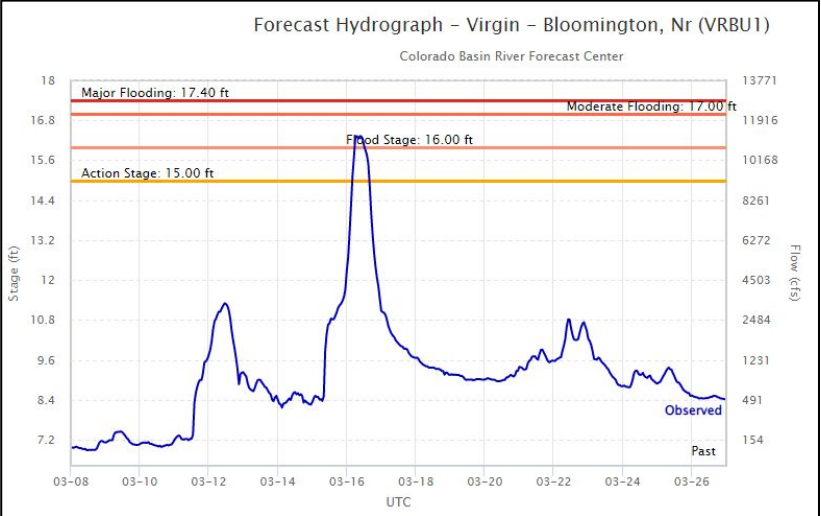
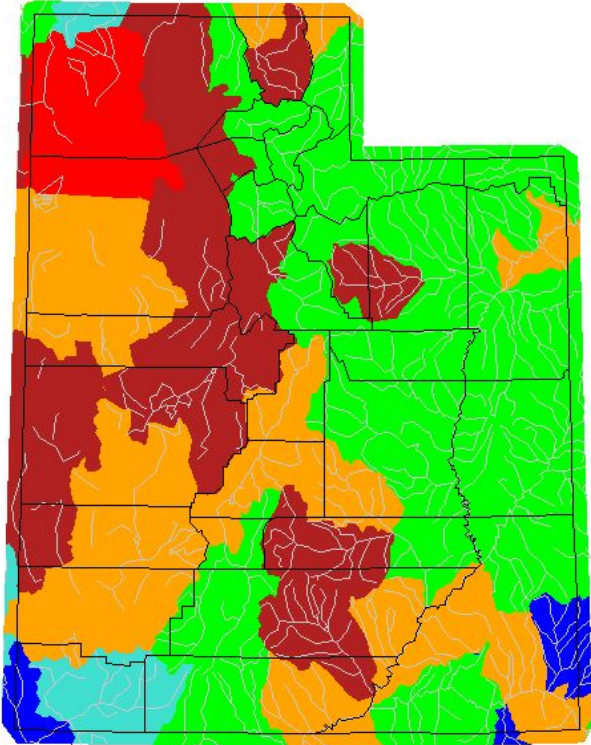
Not only was March extremely wet, but temperatures were also much below normal statewide.

This allowed the area to hold onto most of the low elevation snowpack through the month.

Utah March Streamflow

Due to the cold temperatures, minimal snowmelt occurred during March, especially in northern Utah. As a result, March streamflow was below to much below normal across most of the state.

The exception was the Virgin River Basin in southwest Utah which experienced a few lower elevation rain events during the month. The March 15-16 storm caused flooding in some parts of the basin.



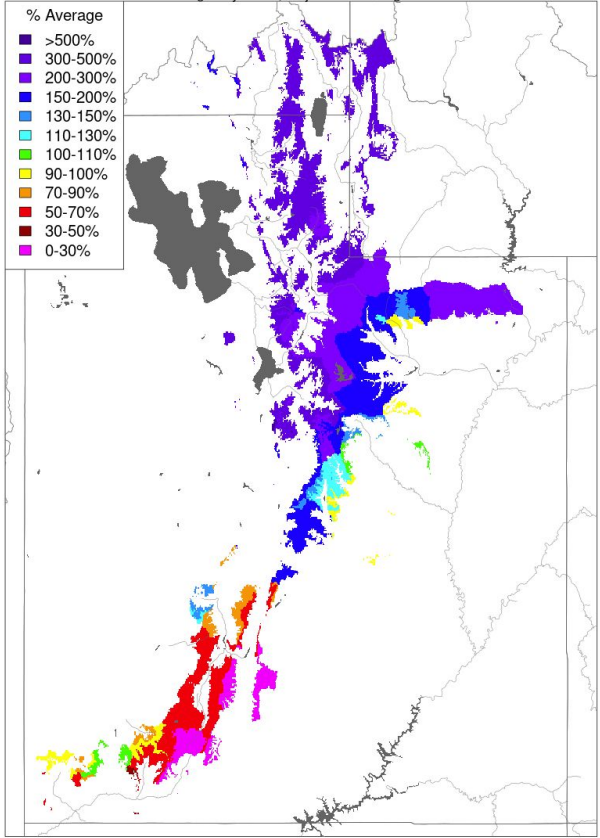
Explanation - Percentile classes

Low	<10	10-24	25-75	76-90	>90	High	No Data
	Much below normal	Below normal	Normal	Above normal	Much above normal		

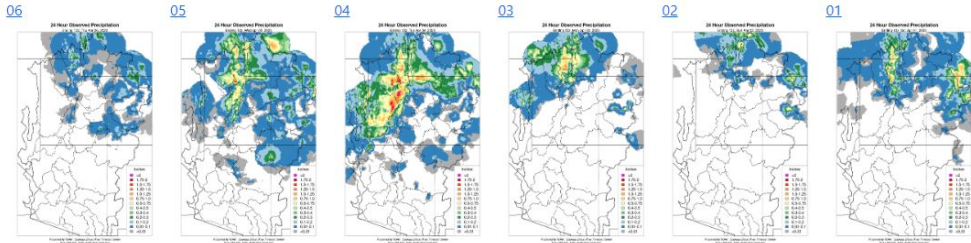
Utah Weather Review - April Precipitation to Date

Month to Date Precipitation - April 06 2023

Averaged by Basin, Major Contributing Areas



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



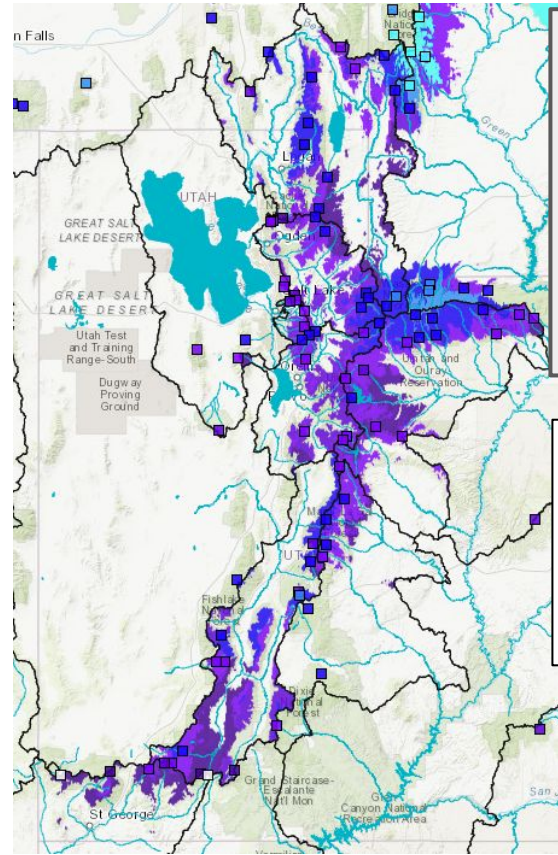
April 1-6 CBRFC Precipitation Percent of 1991-2020 Average	
Duchesne	170
Virgin	90
Bear	325
Weber	290
Six Creeks	310
Provo/Utah Lake	280
Sevier	95

The first week of April continued the cold, wet pattern of March. Areas of northern Utah received >300% of the normal totals for the period.

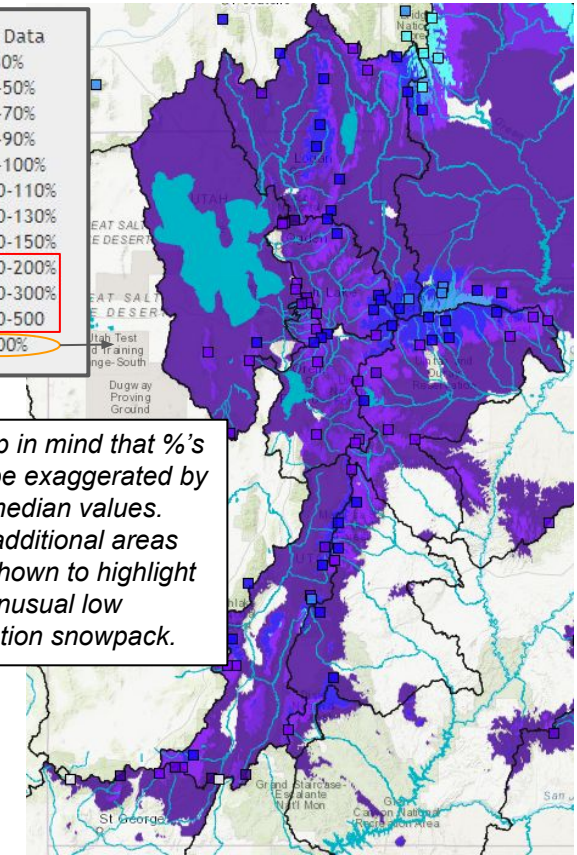
The April 1 water supply forecasts were being made in the midst of this significant precipitation event. Use of forecast precipitation helped forecasters take it into account but some areas outperformed the projections.

Utah Current Snowpack: CBRFC April 6th

CBRFC Model SWE and SNOTEL %Med Significant Areas



CBRFC Model SWE and SNOTEL %Med All Areas with Median > 0



- No Data
- < 30%
- 30-50%
- 50-70%
- 70-90%
- 90-100%
- 100-110%
- 110-130%
- 130-150%
- 150-200%
- 200-300%
- 300-500%
- >500%

**Keep in mind that %'s can be exaggerated by low median values. The additional areas are shown to highlight the unusual low elevation snowpack.*

CBRFC Model Snow by Forecast Group (Significant Areas) %Median

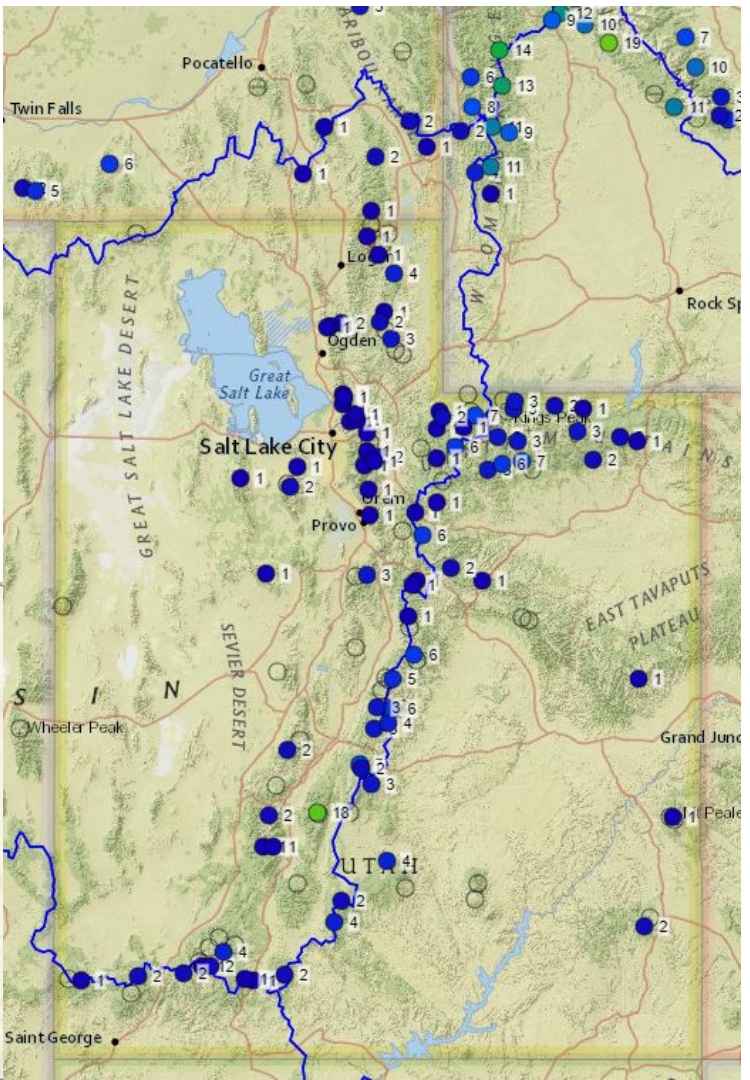
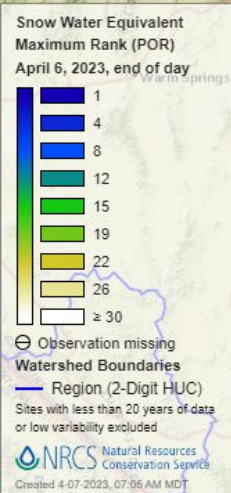
	4/1	4/6
Bear	175	195
Weber	220	245
Six Creeks	230	250
Provo	250	275
Duchesne	200	205
Sevier	225	235
Virgin	400	450

Increased % median snow in southern Utah due more to lack of melt than to significant additional accumulation.

Utah Current Snowpack: NRCS April 6th

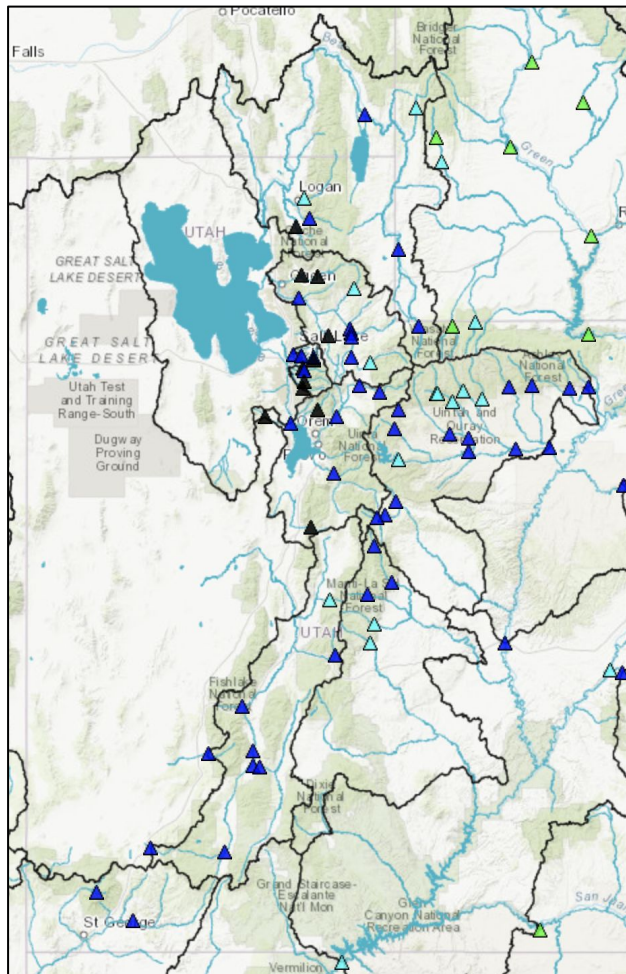
Most SNOTEL stations in the Bear, Weber, Six Creeks, and Provo river basins are now reporting SWE values that are the highest on record.

Elsewhere across the state most stations rank in the top 3 of record.



Utah Water Supply Forecasts - Percentile Map

****NEW****



Water Supply Forecasts

First of Month Forecast Date: 2023-04-01

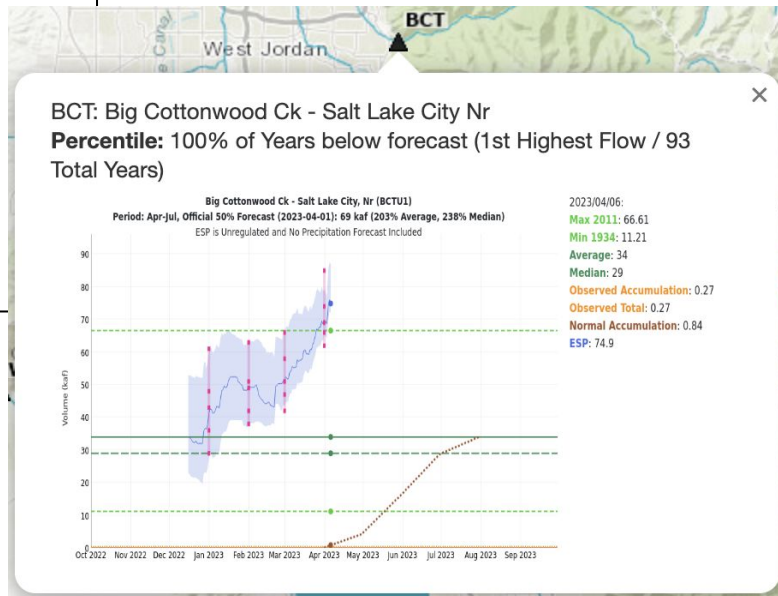
Latest Model Run Date: 2023-04-06

Show Hide Other Types

- First of Month Forecast Percent Average
- First of Month Forecast Percent Median
- First of Month Forecast Percentile
- Latest Model Guidance Percent Average
- Latest Model Guidance Percent Median
- Latest Model Guidance Percentile

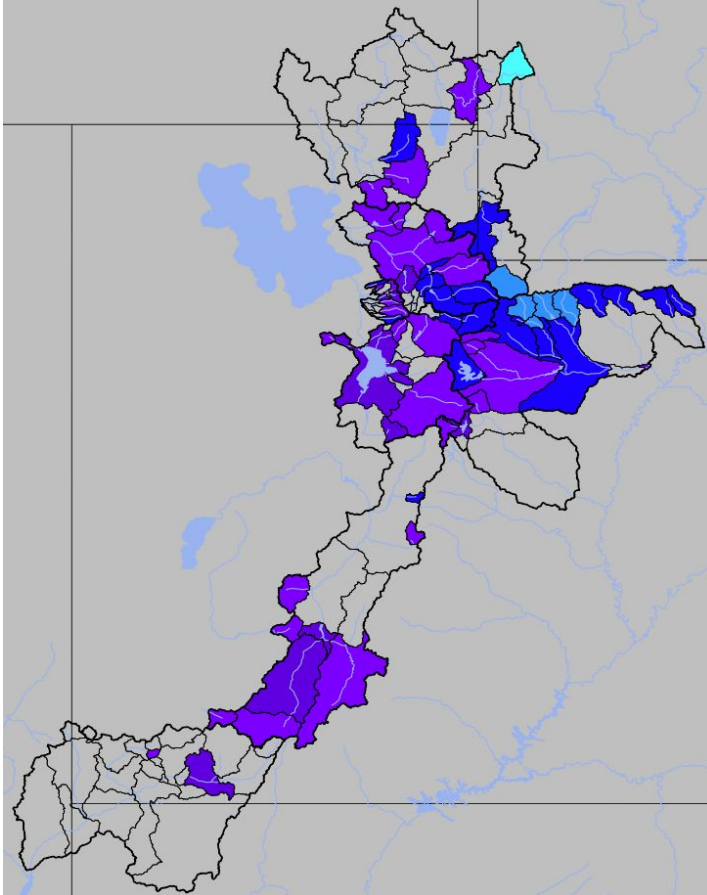
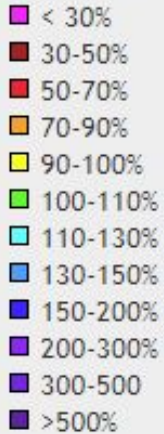
- △ No Forecast
- ▲ No Data
- ▲ Low
- ▲ <10
- ▲ 10-25
- ▲ 25-75
- ▲ 75-90
- ▲ >90
- ▲ High

Latest model guidance after the storm indicates record volumes at some sites along the Wasatch Front.



Utah Water Supply Forecasts

Percent of Average

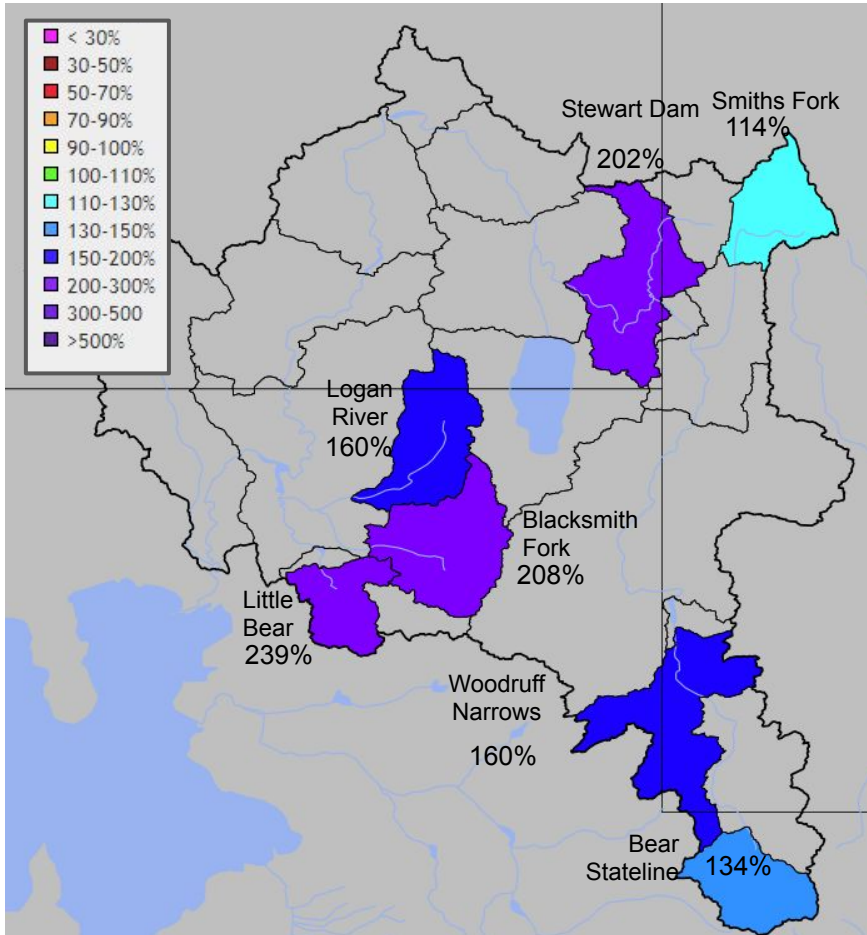


- April 1 forecast for April-July volume
- April-July forecast streamflow volumes are in percent of 1991-2020 average.

Median forecasts by forecast group.

Bear	160
Weber	215
Six Creeks	235
Provo / Utah Lake	260
Sevier	245
Duchesne	165
Virgin	305

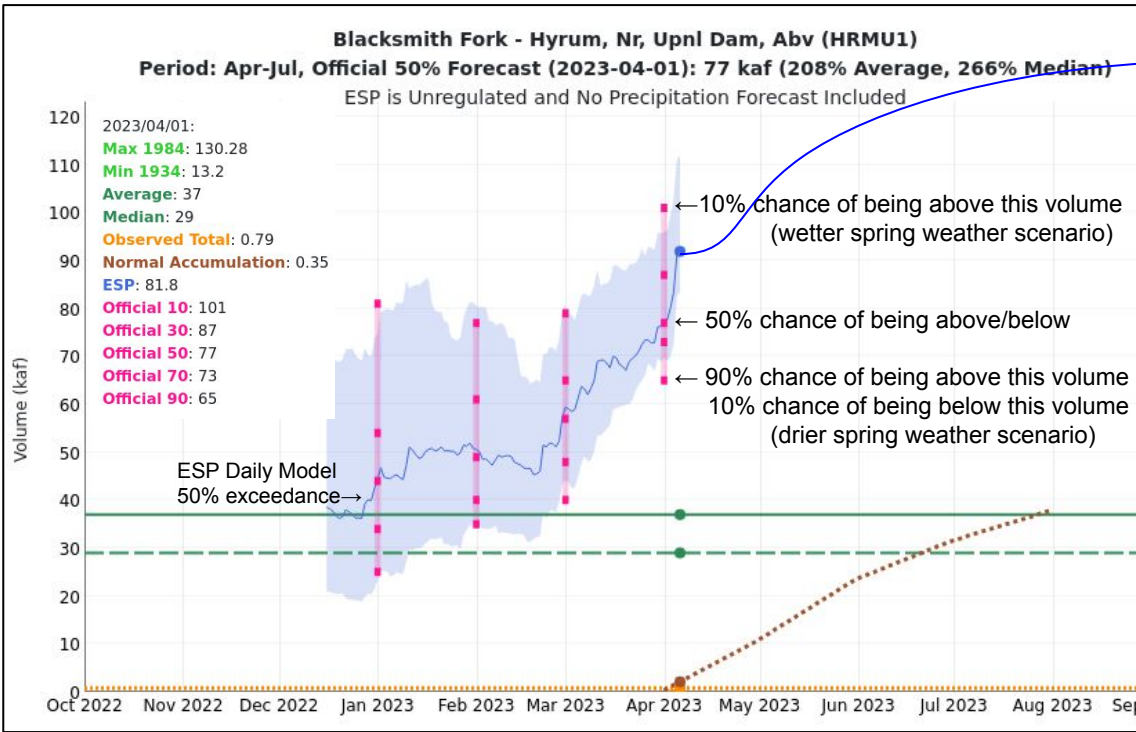
Utah Water Supply Forecasts - Bear



April 1 Forecast

- >10% increases across the basin
- median forecast 160% of avg.
- forecasts range 114-239% of avg.
- No official 50% forecasts over record
- 1 Latest Model Guidance 50% over record
 - Little Bear

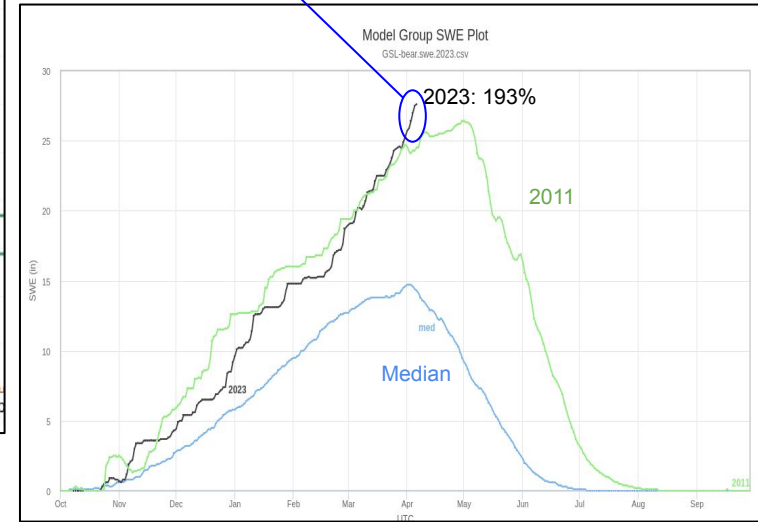
Utah Water Supply Forecasts - Bear



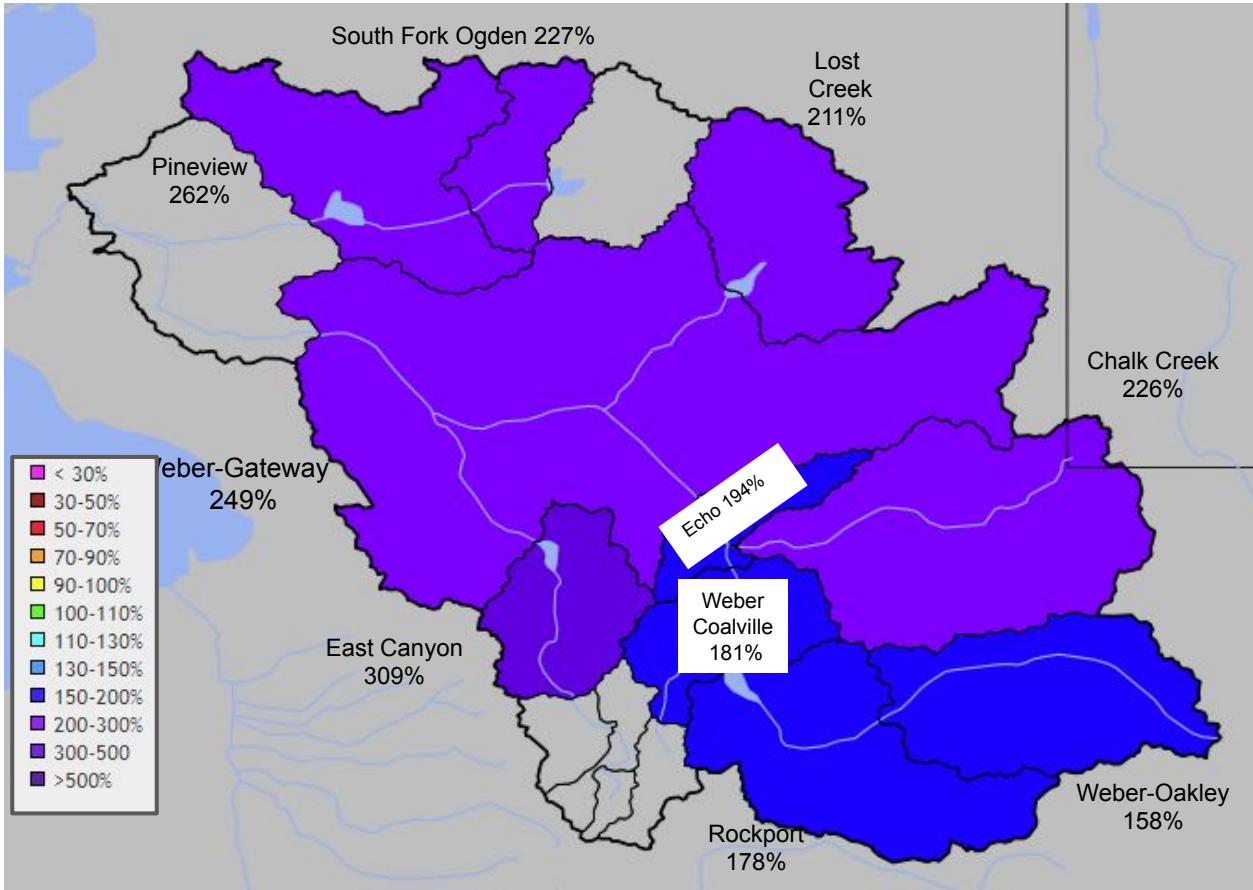
20% chance observed runoff volume could be outside of the 10/90 forecast range.

Model guidance already suggests an increase to 92 KAF.

Model snow water equivalent has increased ~2+” in the Bear River Basin as a whole since April 1.



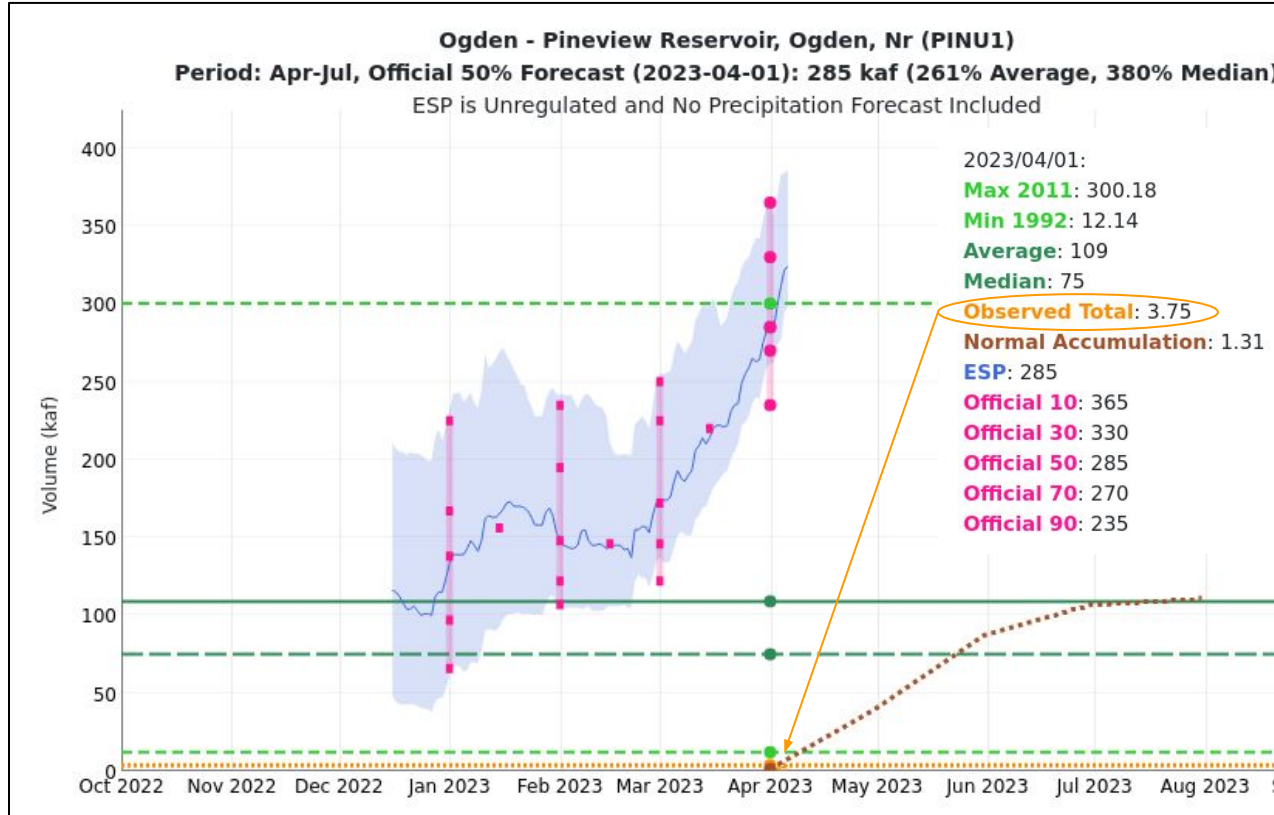
Utah Water Supply Forecasts - Weber



April 1 Forecast

- >10% increases across the basin
- median forecast 215% of avg.
- forecasts range 158-309% of avg.
- No official 50% forecasts over record
- 3 Latest Model Guidance 50% over record
 - South Fork Ogden
 - Pineview
 - East Canyon

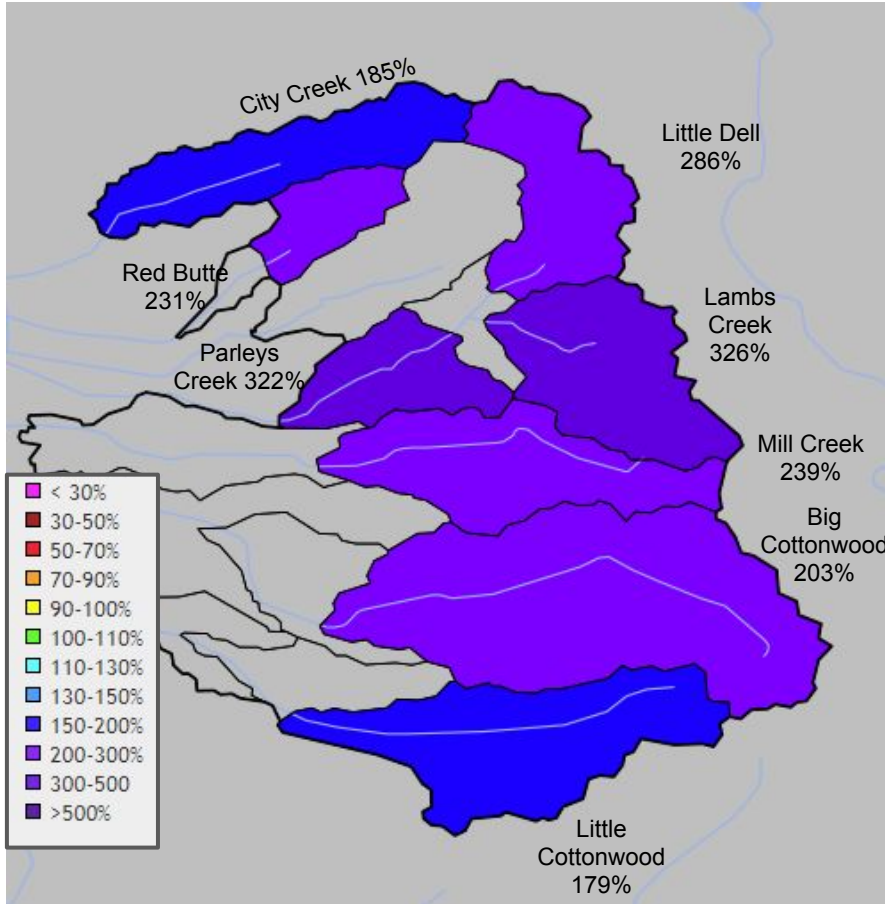
Utah Water Supply Forecasts - Weber



Now that we are within the runoff window (April-July), observed volumes must be added to the model forecast which is only for the current day forward.

If observed data is unavailable, the Model Guidance will be plotted as purple instead of blue.

Utah Water Supply Forecasts - Six Creeks

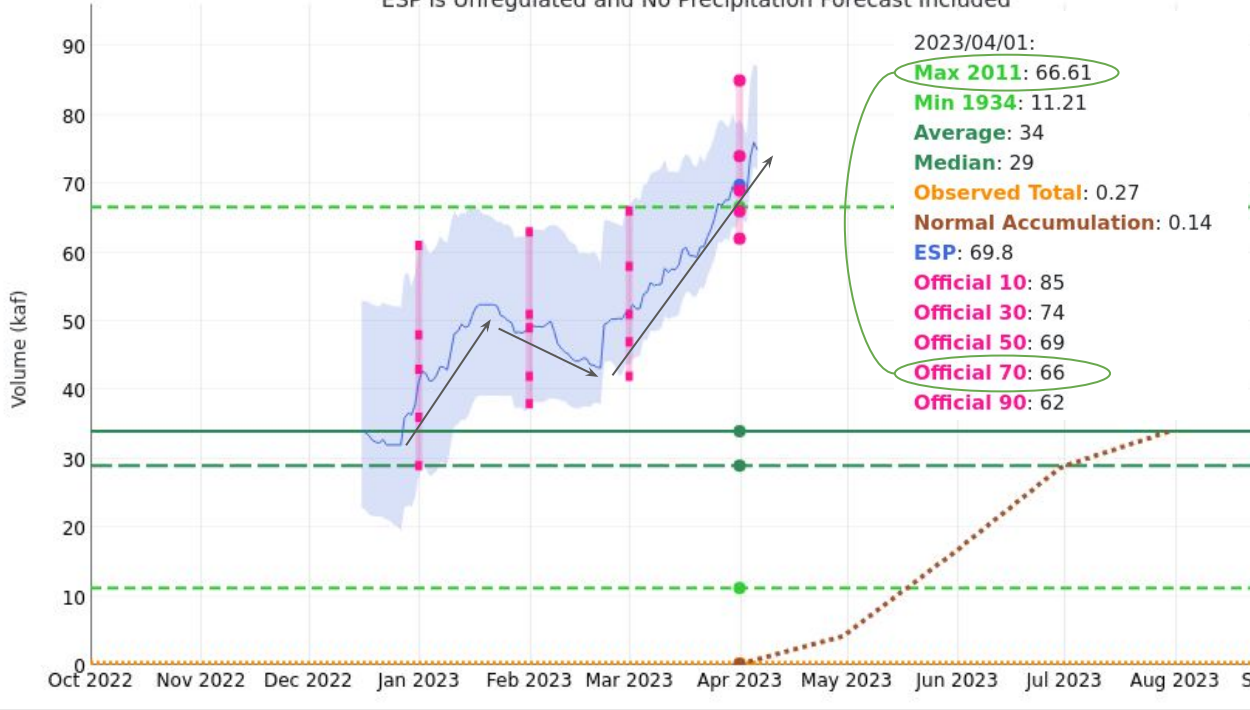


April 1 Forecast

- >10% increases across the basin
- median forecast 235% of avg.
- forecasts range 179-326% of avg.
- 2 official 50% forecasts over record
 - Lambs Creek
 - Big Cottonwood Creek
- 2 additional Latest Model Guidance 50% over record
 - Parleys Creek
 - Little Cottonwood Creek

Utah Water Supply Forecasts - Six Creeks

Big Cottonwood Ck - Salt Lake City, Nr (BCTU1)
Period: Apr-Jul, Official 50% Forecast (2023-04-01): 69 kaf (203% Average, 238% Median)
 ESP is Unregulated and No Precipitation Forecast Included

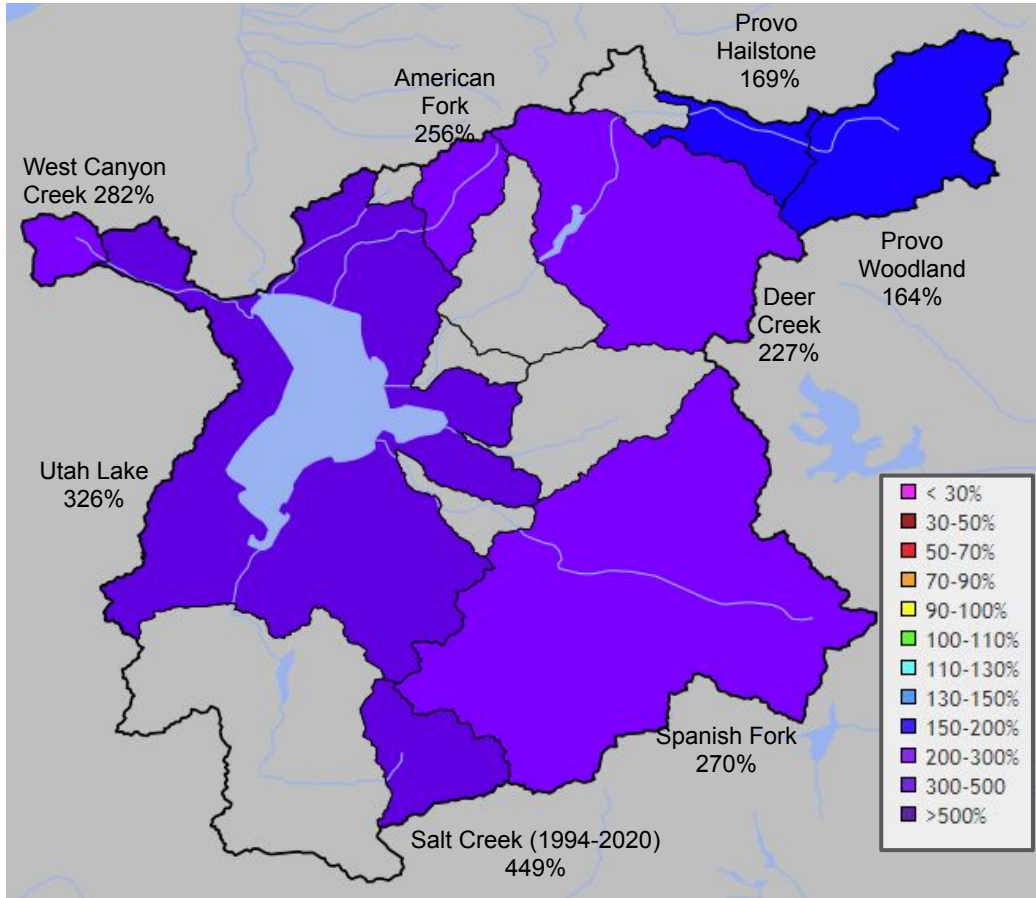


After a great start to the season, there was a dry period during February and forecast volumes dipped as a result.

However, forecast volumes have been steadily increasing since the end of February thanks to the continual cold, wet weather during that time.

The current forecast indicates a 70% chance of exceeding the historical volume.

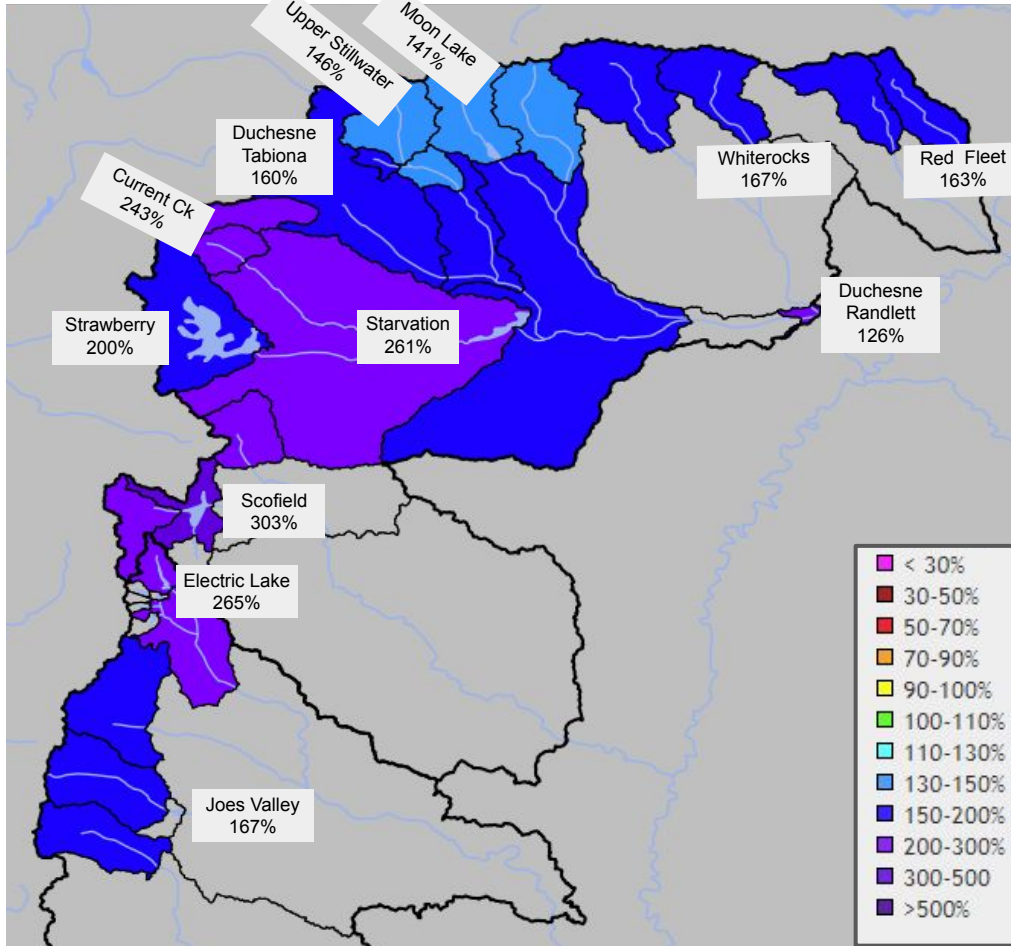
Utah Water Supply Forecasts - Provo - Utah Lake Basin



April 1 Forecast

- >10% increases across the basin
- median forecast 260% of avg.
- forecasts range 164-326% of avg.
- 1 official 50% forecasts over record
 - Salt Creek
- 1 additional Latest Model Guidance 50% over record
 - American Fork

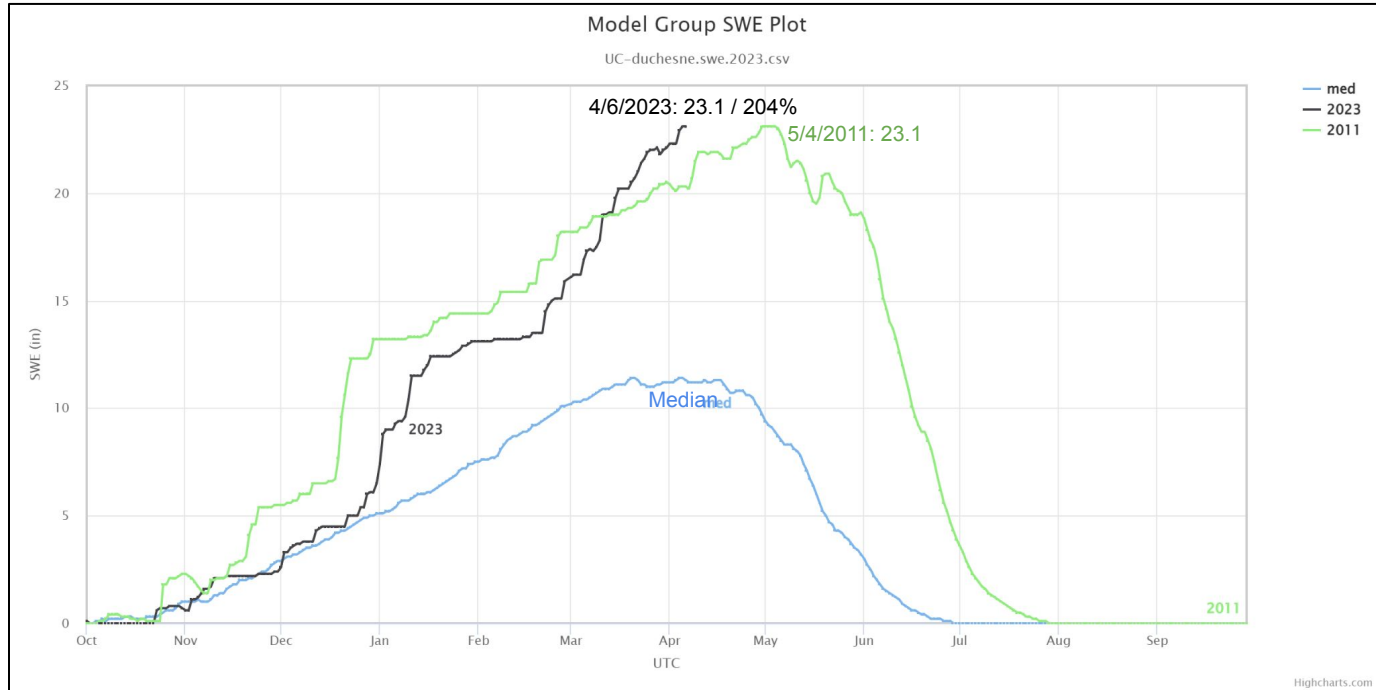
Utah Water Supply Forecasts - Duchesne, Price, and San Rafael



April 1 Forecast

- >30% increases across the basins
- Duchesne:
 - median forecast 165% of avg.
 - forecast range 140-260%
- Price and San Rafael:
 - median forecast 215% of avg.
 - forecast range 150-305%
- No 50% forecasts over record
- Some 10% exceedance forecasts over record

Utah Water Supply Forecasts - Duchesne, Price, and San Rafael

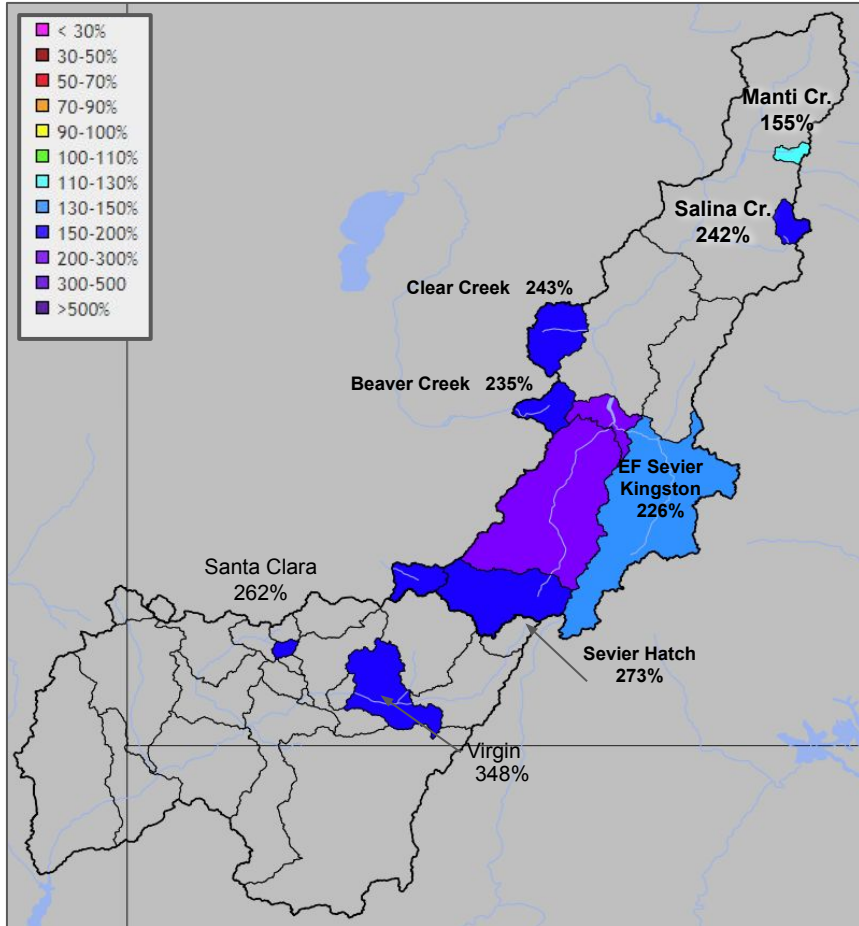


The current model snow in the Duchesne River Basin as a whole is at the same level as the 2011 maximum.

However, the 2011 maximum snow occurred about a month later than the current time with some additional storms in May that caused some forecast points in the basin to experience record runoff volumes that year.

Model guidance is indicating chances for exceeding record volumes at some places if the spring is wetter than normal.

Utah Water Supply Forecasts - Sevier and Virgin



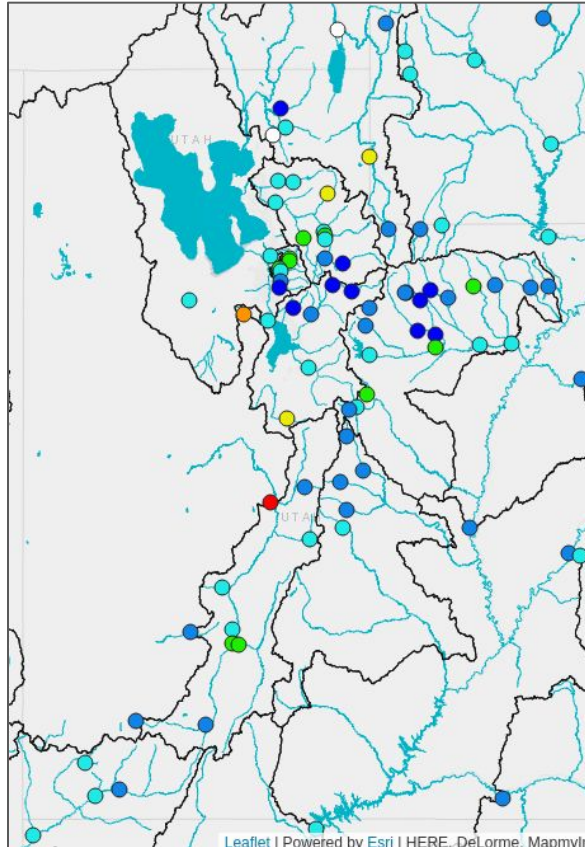
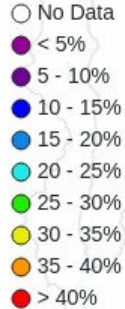
April 1 Forecast

- >10% increases across the Virgin and Sevier River Basins
- Sevier median forecast 245% of avg.
- Virgin median forecast 305% of avg.
- No 50% forecasts over record
- Some 10% exceedance forecasts over record

Historical Forecast Verification

April 1 Forecast Error: April-July Volume

Percent Error



Location

BEAR - UTAH-WYOMING STATE
BEAR - WOODRUFF NARROWS
LOGAN - LOGAN- NR
WEBER - OAKLEY- NR
WEBER - ROCKPORT RES
BIG COTTONWOOD CK
PROVO - WOODLAND- NR
PROVO - DEER CK RES
VIRGIN - VIRGIN

Apr 1 Forecast Error

15%
31%
14%
14%
19%
16%
13%
19%
17%

Error tends to decrease each month into the spring

Where Forecasts are Better:

- Headwaters
- Primarily snow melt basins
- Known diversions / demands

Where Forecasts are Worse:

- Lower elevations (rain or early melt)
- Downstream of diversions / irrigation
- Little is known about diversions / demands

Future weather is still a large portion of the April 1 water supply forecast error/uncertainty.

CBRFC Peak Flow Forecast Background Information

- Mean daily peak flow forecast points are a subset of our daily river forecast points.
 - Peak flow forecasts represent a long range outlook of peak flows due to **snowmelt**
- Many of these sites have established flood stages and therefore provide some flood threat information.
- Peak flow forecasts have a high level of uncertainty and are highly dependent on Spring weather.
- Do not forecast a specific date of peak
 - *Typically only have a 5-10 day forecast lead time for timing the peak*
 - Normal peak flow timing (window) information is provided
- Instantaneous Peak Flow Forecasts
 - Relationship between observed mean daily peak and instantaneous peak in each year
 - Only available for locations with strong correlations and long historical record
 - Sites with frequent heavy rain have poor relationships
- **Peak flow forecast points alone are not a comprehensive summary of any flood threat.**

Peak Flow Forecast Information - Map View


- Forecast Map**
- Forecast List
- Special Forecast Map
- Special Forecast List

Map view of peak flow forecast points that are issued daily.

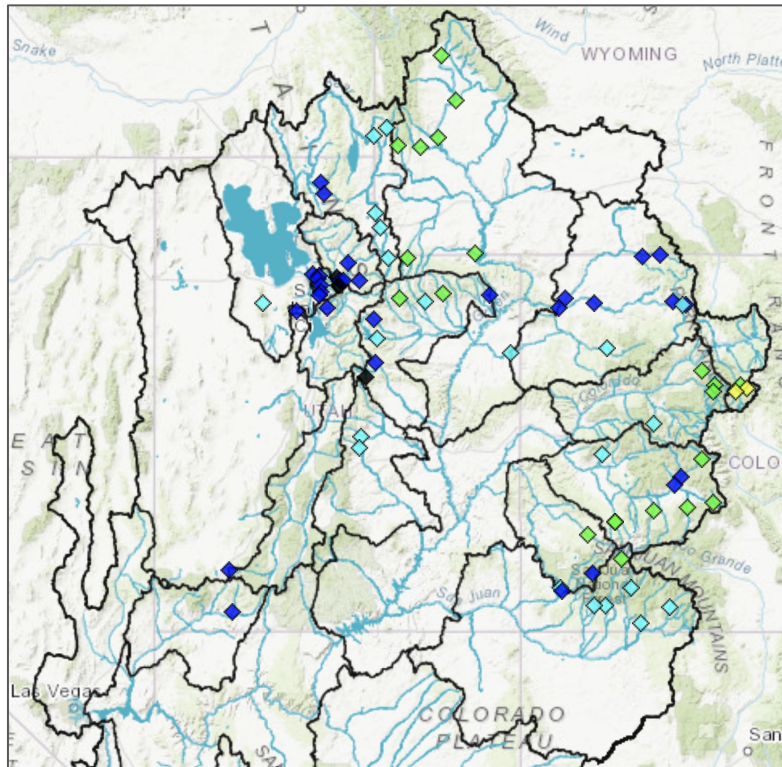
Locations with minimal upstream regulation.

3 Map Layers/Variables:


- Percentile
- Percent Average
- NWS Flood Stage Exceedance Probability

Help and documentation available through  buttons.

Clicking on a point takes you to the site's peak flow dashboard page.



Peak Flow Forecasts

Forecast Date: 2023-04-06 

Show

Daily Forecasts

- Percentile 
- Percent Average 
- NWS Flood Stage Exceedance Probability 

-  No Forecast
-  No Data
-  Low
-  <10
-  10-25
-  25-75
-  75-90
-  >90
-  High

Peak Flow Forecast - Percentile

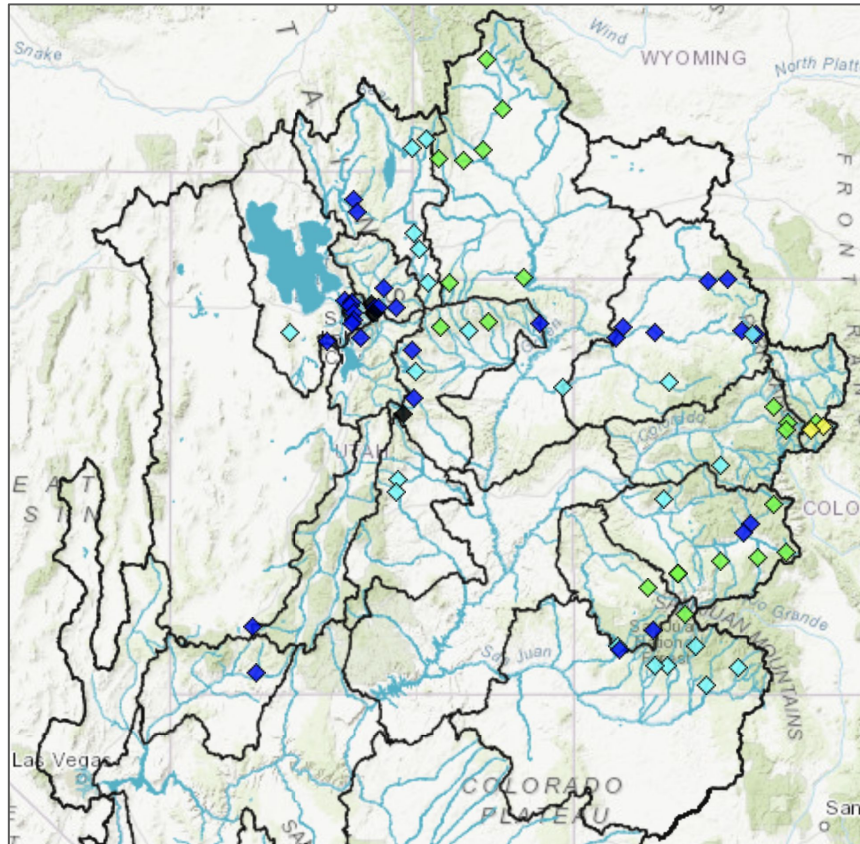
Percentile: the percent of historical annual mean daily peak flow values that are below the current peak flow forecast.

Legend: Percentile Categories

Peak flow forecasts with a higher percentile correspond to locations with better snowpack conditions.

Peak flow forecasts highest on record:

East Canyon near Jeremy Ranch
McLeod Creek near Park City
Mud Creek at Scofield



Peak Flow Forecasts

Forecast Date: 2023-04-06

Show Hide Other Types

Daily Forecasts

- Percentile
- Percent Average
- NWS Flood Stage Exceedance Probability
- No Forecast
- No Data
- Low
- <10
- 10-25
- 25-75
- 75-90
- >90
- High

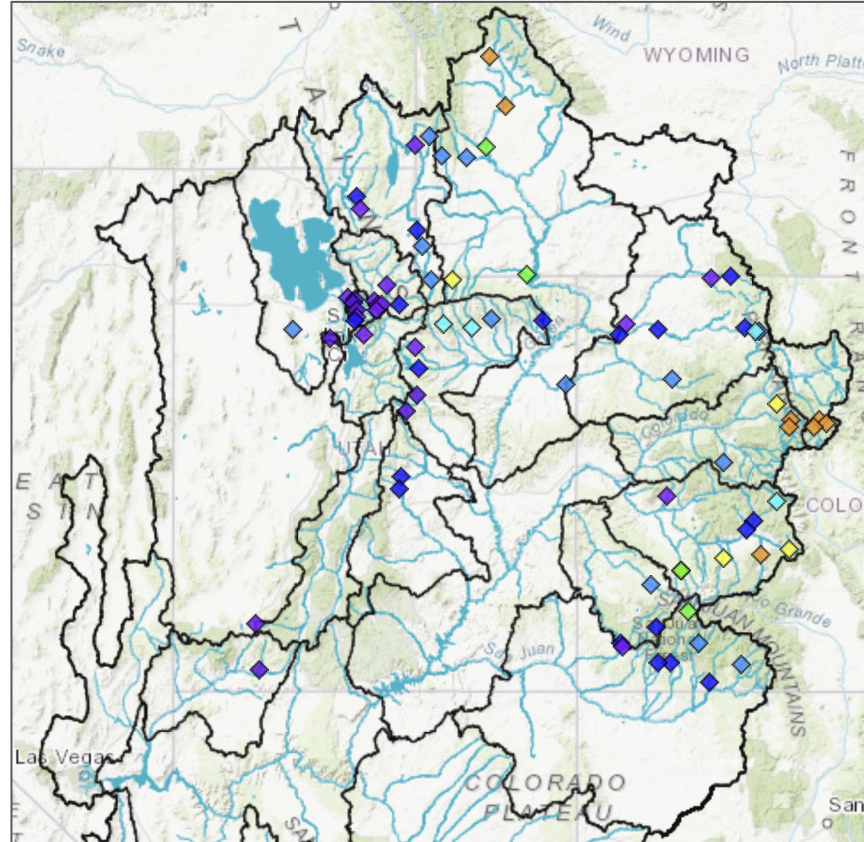
Peak Flow Forecast - Percent of Average

Percent of Average: the peak flow forecast percent of the 1991-2020 average mean daily peak flow.

Legend: Percent of Average

Peak flow forecasts with a higher percent of average correspond to locations with better snowpack conditions.

Most peak flow forecasts in the Great Basin are >200% of the average mean daily peak.



Peak Flow Forecasts

Forecast Date: 2023-04-06

Show Hide Other Types

Daily Forecasts

- Percentile
- Percent Average
- NWS Flood Stage Exceedance Probability

◇ No Forecast

◆ No Data

◆ < 30%

◆ 30-50%

◆ 50-70%

◆ 70-90%

◆ 90-100%

◆ 100-110%

◆ 110-130%

◆ 130-150%

◆ 150-200%

◆ 200-300%

◆ 300-500%

◆ >500%

Peak Flow Forecast - Flood Stage Exceedance Probability

NWS Flood Stage Exceedance Probability: the probability of the mean daily peak flow forecast exceeding flood stage.

Legend: Exceedance Probability

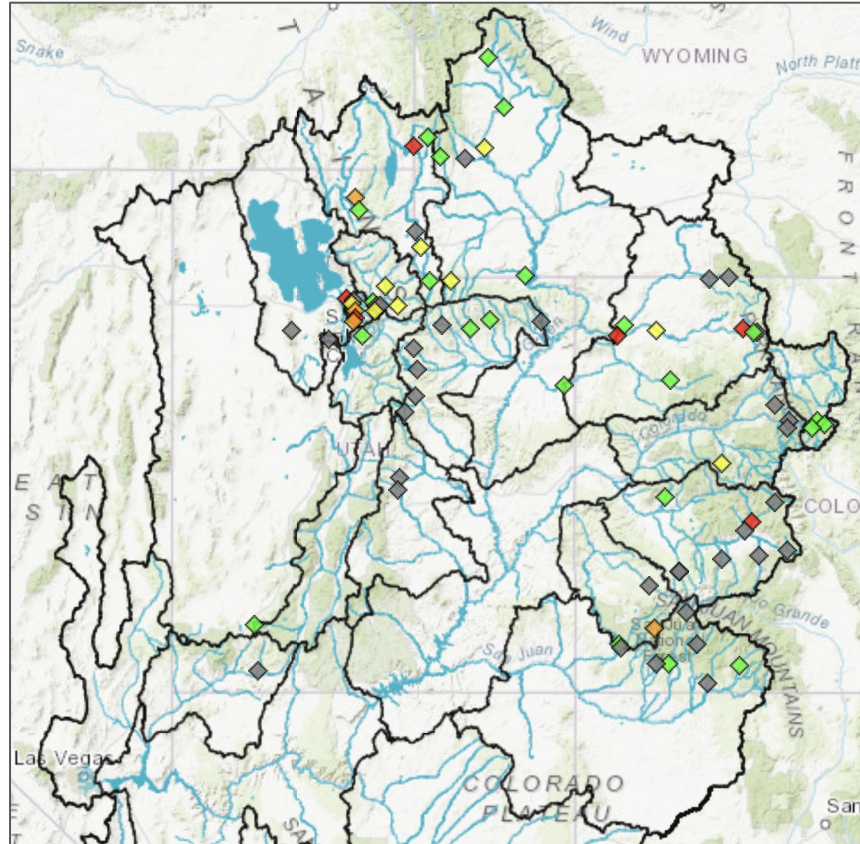
Peak flow forecasts with a higher exceedance probability correspond to locations with increased flood potential.

Peak flow forecasts >50% chance of exceeding defined flood stage:

Bear at Border
City Creek
Big Cottonwood Creek

**Note: flood stage not established at all peak flow forecast locations.*

Clicking on a point takes you to the site's peak flow dashboard page.



Peak Flow Forecasts

Forecast Date: 2023-04-06

Show Hide Other Types

Daily Forecasts

- Percentile
- Percent Average
- NWS Flood Stage Exceedance Probability

- No Forecast
- No Flood Stage
- Already Peak(ed/ing)
- <10%
- >10-25%
- >25-50%
- >50%

Peak Flow Forecast Information - Peak Flow Dashboard Pages

Daily Peak Flow Forecast - LGNU1 - Logan - Logan Nr State Dam Abv

Model Run Date	2023-04-06 (Incl 7 Day Precip Forecast)
Flood Flow	1552 cfs
50% Forecast	1497 cfs
Rank of 50% Forecast	7th Highest Flow / 69 Total Years
Percentile	91% of Years Below Forecast
Peak to Date	
Average Peak	879 cfs
Percent Average	170%
Normal Time of Peak	05-13 - 06-08
Last Year's Peak	471 cfs, on 2022-05-30



- As the time of peak nears, transition from using probabilistic peak flow guidance to using the daily 10-day deterministic streamflow forecasts.



- 10-day streamflow forecasts use:
 - 7-day precipitation forecast
 - 10-day temperature forecast

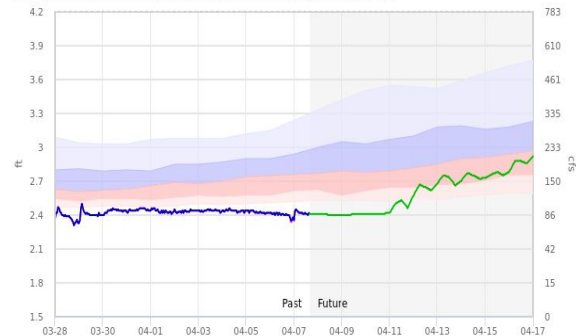
Latest 10 day Streamflow Forecast Table

Date	Time	Flow
4/8/2023	12Z	87
4/9/2023	12Z	87
4/10/2023	12Z	87
4/11/2023	12Z	96
4/12/2023	12Z	121
4/13/2023	12Z	147
4/14/2023	12Z	155
4/15/2023	12Z	161
4/16/2023	12Z	179
4/17/2023	12Z	217

Daily Average Forecast Flow, CFSD (ending at date/time)

Latest 10 Day Streamflow Forecast Plot

LGNU1: Logan - Logan, Nr, State Dam, Abv - Created: 2023-04-07 15:50Z NOAA/CBRFC
Current: 2.42 ft, 90 cfs (04/07/15Z) Flood: 5.2 ft, 1552 cfs - Action: 5.0 ft, 1374 cfs



Peak Flow Forecast Information - Peak Flow Dashboard Pages

Daily Peak Flow Forecast Tables

- Probability of peak magnitude
- Probability of peak date
 - Likelihood for date of peak whatever the magnitude
 - Long lead forecasts will generally indicate the 'Normal Time of Peak'
 - Given the current conditions (much above average snow and minimal melt to date), the model is indicating the possibility of a later peak date this year

Normal Time of Peak 05-13 - 06-08

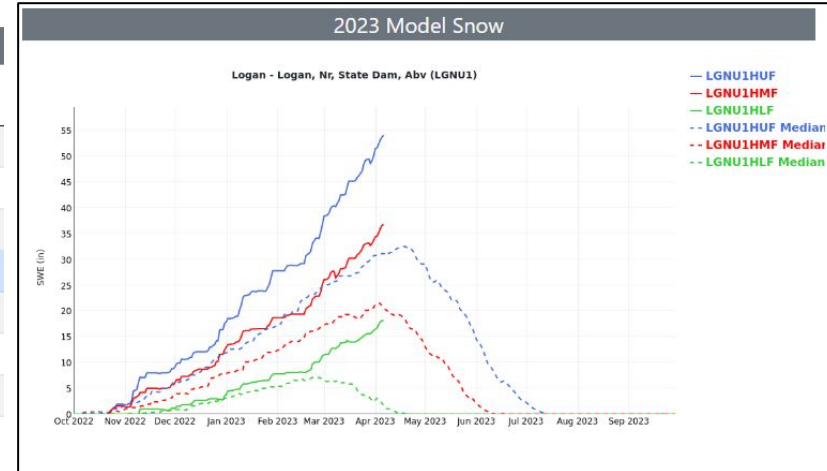
Apr-Jul Historical Peaks			
Rank	Year	Peak	Date
1	1986	1870	6/7
2	1984	1830	6/2
3	2011	1630	6/26
4	1971	1590	6/12
5	1997	1560	5/23
6	2006	1530	5/22
7	1999	1430	5/31
8	1983	1400	5/31
9	2017	1390	6/8
10	1996	1330	5/19
11	1972	1280	6/5

[CSV file](#)

Snow conditions driving peak flow forecasts

Daily Peak Flow Forecast Magnitude		Daily Peak Flow Forecast Timing	
Exceedance Probability	Mean Daily Flow (cfs)	Exceedance Probability	Date of Peak
Maximum	2410	Latest	2023-06-30
10%	1868	10%	2023-06-22
25%	1712	25%	2023-06-13
50%	1497	50%	2023-06-08
75%	1376	75%	2023-06-01
90%	1334	90%	2023-05-22
Minimum	1209	Earliest	2023-05-17

Magnitude and Timing are independent forecasts.



Peak Flow Forecast Information - List View



- Forecast Map
- Forecast List**
- Special Forecast Map
- Special Forecast List

Data filter/sorting options available.
Clicking on a point → site's peak flow dashboard page.

Daily Peak Flow Forecasts - Colorado - Latest - Sorted by Area

Choose Area ▾ Sort By ▾ Show/Hide ▾ Forecast Month ▾ Forecast Year ▾ Legend CSV Data

- CBRFC
- Green
- Colorado
- San Juan
- Great ←
- Sevier
- Virgin
- Lower Colorado

Sub Area	NWS ID	River	Location	ESP Date	ESP 50	ESP 25	ESP 10	Percentile Cond	Percentile	Rank	Total Years	Percent				Flood Cond	Flood Flow	Observed Peak to Date	Observed Date	Historic Peak	Hist Peak Date	Normal Earliest Date	Normal Latest Date	Last Year Peak	Last Year Date
												Average Cond	Percent Average	Average Peak	Percent Average										
Bear	BERU1	Bear	Utah	2023-04-06	2065	2345	2769	◆	86	12	81	◆	133	1551	◆	4394			3030	2011-07-01	05-16	06-12	1180	2022-05-20	
Bear	EVAW4	Bear	Evanston	2023-04-06	2516	2864	3616	◆	89	5	39	◆	143	1752	◆	3485			3360	2010-06-09	05-13	06-10	1430	2022-05-20	
Bear	BORW4	Smiths Fork	Border; Nr	2023-04-06	1179	1241	1415	◆	80	17	81	◆	141	832	◆	3632			2000	1986-06-05	05-18	06-09	663	2022-06-13	
Bear	BBRW4	Bear	Border	2023-04-06	3039	3405	4053	◆	81	12	61	◆	208	1455	◆	2239			4840	1983-06-09	05-01	06-24	652	2022-06-14	
Bear	LGNU1	Logan	Logan; Nr; State Dam; Abv	2023-04-06	1497	1712	1868	◆	91	7	69	◆	170	879	◆	1552			1870	1986-06-07	05-13	06-08	471	2022-05-30	
Bear	HRMU1	Blacksmith Fork	Hyrum; Nr; Upnl Dam; Abv	2023-04-06	936	979	1095	◆	91	10	105	◆	273	342	◆	1198			1530	1984-05-16	04-10	05-13	128	2022-04-23	
Weber	QAWU1	Weber	Oakley; Nr	2023-04-06	2445	2750	3151	◆	90	12	118	◆	157	1553	◆	2822			4170	1921-06-14	05-20	06-14	1250	2022-05-29	
Weber	CIVU1	Chalk Ck	Coalville	2023-04-06	1079	1263	1955	◆	93	7	96	◆	236	456	◆	1349			1420	1993-05-23	05-08	06-02	315	2022-05-18	
Weber	MCLU1	Mcleod Ck	Park City; Nr	2023-04-06	120	142	176	◆	100	1	26	◆	214	56.0	◆	155			117	1995-06-16	05-09	06-02	28.0	2022-05-21	
Weber	ECAU1	East Canyon Ck	Jeremy Ranch; Nr	2023-04-06	424	470	526	◆	100	1	21	◆	277	153	◆	716			371	2011-04-19	04-03	05-20	79.0	2022-05-31	
Six Creeks	LCTU1	Little Cottonwood Ck	Salt Lake City; Nr	2023-04-06	775	872	955	◆	96	5	119	◆	182	425	◆	799			762	1984-05-31	05-21	06-16	357	2022-06-14	
Six Creeks	BCTU1	Big Cottonwood Ck	Salt Lake City; Nr	2023-04-06	867	962	1011	◆	99	2	122	◆	221	392	◆	798			925	1984-06-01	05-15	06-07	232	2022-05-20	

CBRFC Peak Flow Forecast Information - Special Forecasts



Home Rivers ▾ Snow ▾ Water Supply ▾ Peak Flow ▾ Reservoirs ▾ Weather ▾ Climate ▾ Help ▾ About ▾ News ▾

- Forecast Map
- Forecast List
- Special Forecast Map**
- Special Forecast List

Legend: Flood Stage Exceedance Probability

Includes mainstem river locations

Upstream water management impacts downstream flows:

- reservoirs
- diversions

Requires more forecaster involvement

-updated ~2x/month

Examples

Green River - Jensen

-driven by Yampa peak plus planned releases from Flaming Gorge

Gunnison River Basin

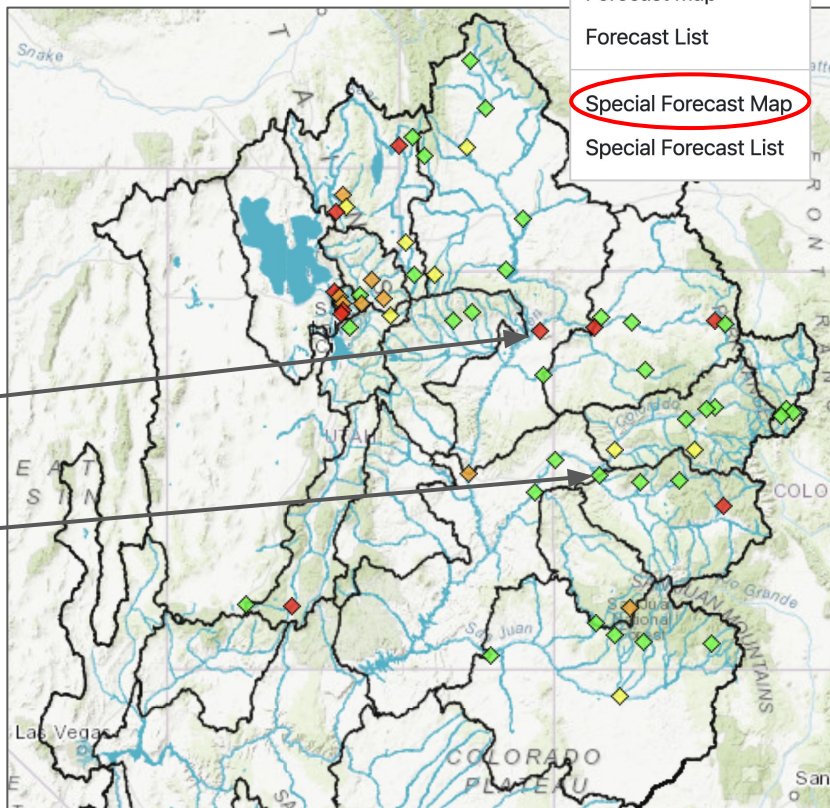
-downstream peak flow targets

-magnitude/duration

-based on type of hydrologic year

-dry/avg/wet

~Real-time multi-agency coordination



▾ Peak Flow Forecasts

Forecast Date: 2023-04-06 [?](#)

Show Hide Other Types

Daily Forecasts

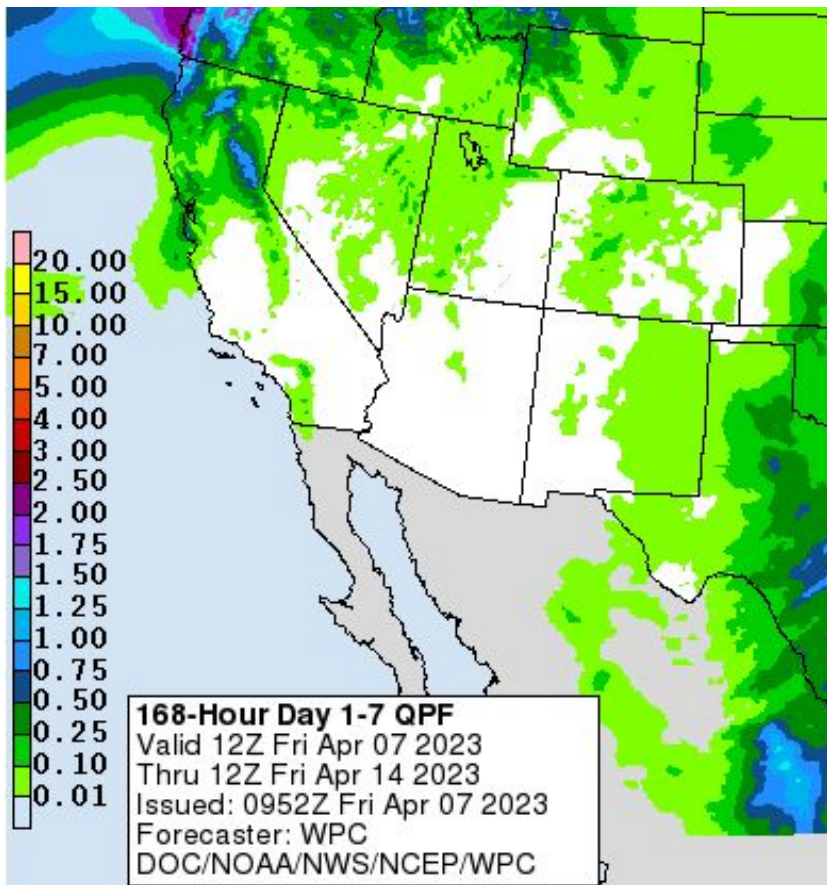
- Percentile [?](#)
- Percent Average [?](#)
- NWS Flood Stage Exceedance Probability [?](#)

Special Forecasts: 2023-04-01

- Mean Daily [?](#)
- Instantaneous [?](#)

- ◇ No Forecast
- ◆ No Flood Stage
- ◆ Already Peak(ed)ing
- ◆ <10%
- ◆ >10-25%
- ◆ >25-50%
- ◆ >50%

Upcoming Weather: April 7-14 Precipitation Outlook



WPC 7 day QPF

- A ridge of high pressure over the Western US will bring a period of dry and warming conditions to the region.
 - Temperatures will approach seasonal normals by this weekend, and should be 5-10 degrees above normal for the start of next week.
 - Little to no precipitation is expected through the middle of next week.
- During the second half of next week, the ridge will begin to break down as a trough moves into the Western US.
 - High forecast uncertainty in the depth and timing of the trough
 - Current weather model ensemble guidance favors precipitation moving into Utah on the last day of this period.
- Ensemble models favor another ridge building in after the passage of the trough

Upcoming Weather: 8-14 Day Outlook (April 14-20)

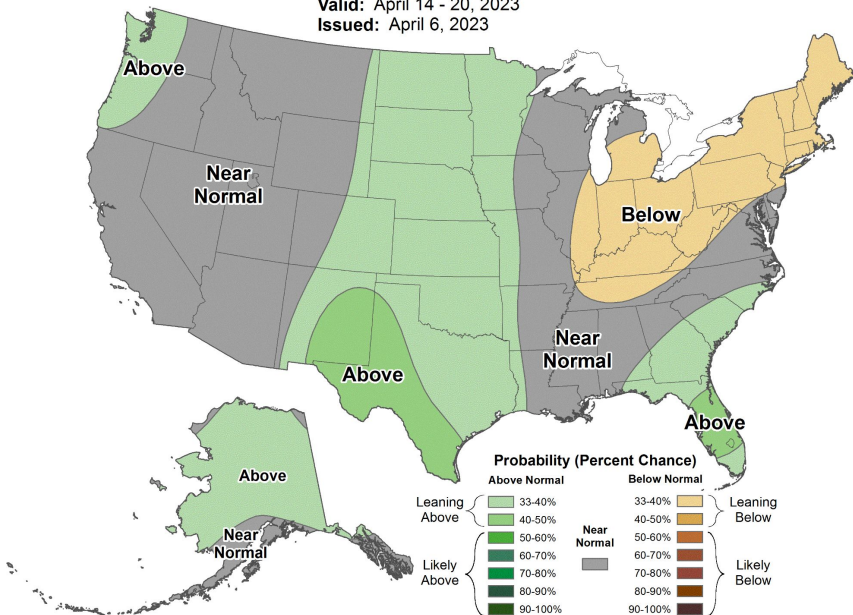
Near normal precipitation and temperatures are expected overall for Utah for the week 2 outlook. This likely means there will be some days of above normal and some below.



8-14 Day Precipitation Outlook



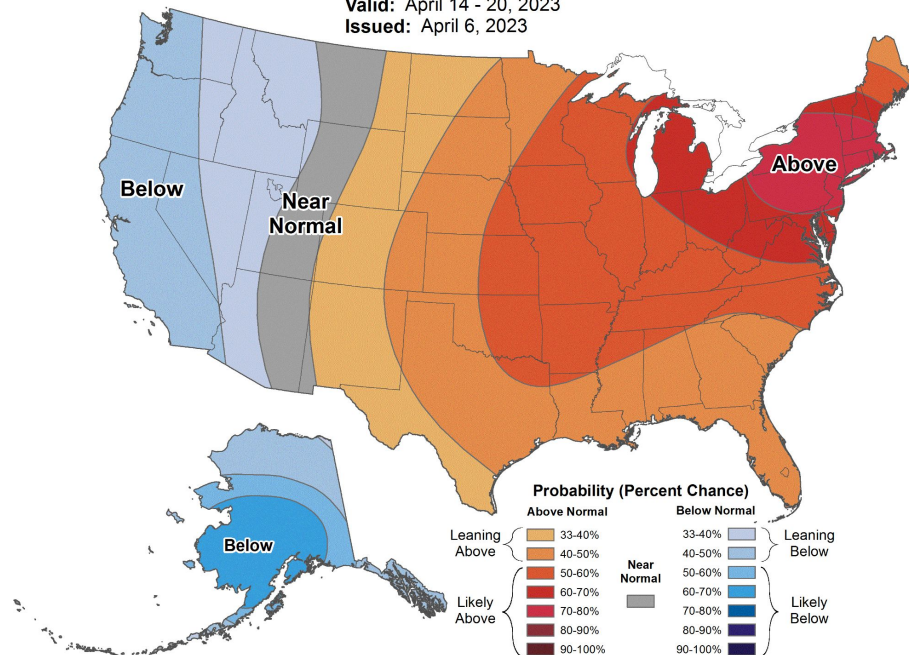
Valid: April 14 - 20, 2023
Issued: April 6, 2023



8-14 Day Temperature Outlook

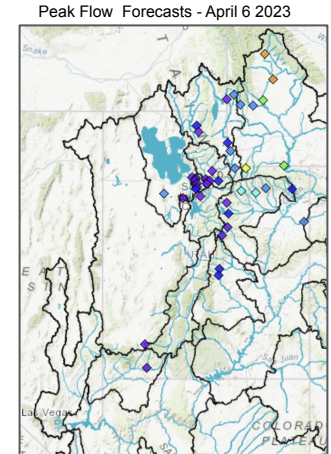
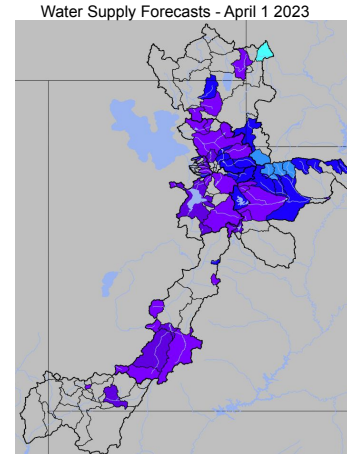
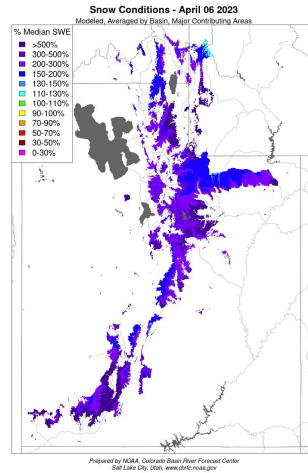
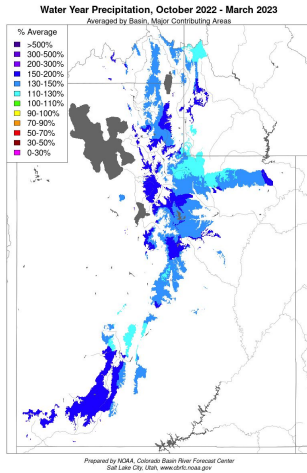


Valid: April 14 - 20, 2023
Issued: April 6, 2023



Summary

- Water year precipitation is much above average across Utah.
- Current snowpack is much above normal across Utah.
- Water supply forecasts are much above average across Utah.
 - Multiple points across the area have forecasts above the historical record volume at some exceedance level.
- Mean daily peak flows from snowmelt are expected to be much above average across the state.
 - Multiple points across the area have forecasts above the defined flood level at some exceedance level.



2023 Water Supply Webinar Schedule

**All Times Mountain Time (MT)*

Colorado River Basin

Monday	Jan 9 th	10 am
Tuesday	Feb 7 th	10 am
Tuesday	Mar 7 th	10 am
Friday	Apr 7 th	10 am
Friday	May 5 th	10 am

Utah/Great Basin

Monday	Jan 9 th	11:30 am
Tuesday	Feb 7 th	11:30 am
Tuesday	Mar 7 th	11:30 am
Friday	Apr 7 th	11:30 am
Friday	May 5 th	11:30 am

Additional briefings scheduled as needed

Webinar schedule & registration information has been posted to the CBRFC web page



- Home
- Rivers ▾
- Snow ▾
- Water Supply ▾
- Reservoirs ▾
- Weather ▾
- Climate ▾
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- Webinars
- Email Updates

Email Updates

Available Email Lists

- General Stakeholders
- USBR Water Year and MTOM Forecasts
- Lake Mead Local Forecasts
- Green River Basin Forecasts
- Upper Colorado Mainstem Forecast
- San Juan, Gunnison and Dolores River Basins Forecasts
- Weber Basin PAO
- Special forecasts for the Dolores River Basin
- Special forecasts for the San Juan River Basin
- Special forecasts for CUWCD
- Utah reservoir forecasts
- CRFS
- Eastern Great Basin Water Supply
- Upper Basin Reclamation Reservoirs

Addition Requests

- [Request](#) to be on one of our lists by emailing cbrfc.webmasters@noaa.gov

CBRFC Water Supply Forecast Webinar Schedule & Registration - Water Year 2023

The Colorado Basin River Forecast Center (CBRFC) produces water supply forecasts for the Colorado River Basin and the eastern Great Basin. CBRFC conducts December through May webinars explaining the forecasts and current conditions.

Follow the links below to register for a webinar.

Early Season Water Supply Outlook Webinar

[Wednesday, December 14 @ 10:00 am MT](#)

Colorado River Basin Water Supply Webinars

[Monday, January 9 @ 10:00 am MT](#)

[Tuesday, February 7 @ 10:00 am MT](#)

[Tuesday, March 7 @ 10:00 am MT](#)

[Friday, April 7 @ 10:00 am MT](#)

[Friday, May 5 @ 10:00 am MT](#)

Utah Water Supply Webinars

[Monday, January 9 @ 11:30 am MT](#)

[Tuesday, February 7 @ 11:30 am MT](#)

[Tuesday, March 7 @ 11:30 am MT](#)

[Friday, April 7 @ 11:30 am MT](#)

[Friday, May 5 @ 11:30 am MT](#)

Peak Flow Webinar

[Monday, March 20 @ 10:00 am MT](#)

A notification email will be sent if a date or time change occurs. Additional webinars are scheduled as needed.

The webinar slides will be available on the [CBRFC presentations page](#) soon after each briefing.

2023 Presentations

2023 Early Season Water Supply Outlook

- [Slides \(.pdf\)](#) | [Recording \(.mp4\)](#) | [YouTube](#)

January 2023

- Colorado River Basin [Slides \(.pdf\)](#) | [Recording \(.mp4\)](#) | [YouTube](#)
- Utah / Great Basin [Slides \(.pdf\)](#) | [Recording \(.mp4\)](#) | [YouTube](#)

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