Utah Water Supply Briefing
(The water supply briefing formerly known as the Great Basin Water Supply Briefing.)

January 8th, 2020

Colorado Basin River Forecast Center
Patrick Kormos - Hydrologist

For audio, please dial
Phone: 1-877-929-0660
Passcode: 1706374

Please mute your phone until ready to ask questions
Utah Water Supply Briefing

1. Weather Review
2. Current Snowpack
3. Soil Moisture Conditions
4. 2020 Water Supply Forecasts
5. Early Season Forecast Error
6. Upcoming Weather
7. Contacts & Questions

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Utah Weather Review - Precipitation up to Jan. 1, 2020

- Bear, Weber, Six Creeks and Utah Lake:
  - Below normal precip.
  - WY precip. over 80% of normal
- Sevier, Duchesne, and Virgin:
  - Low October
  - Very High November
  - High December
- Bear: 83% of WY normal
- Weber: 85% of WY normal
- Six Cr: 82% of WY normal
- Provo: 83% of WY normal
- Sevier: 118% of WY normal
- Duchesne: 101% of WY normal
- Virgin: 152% of WY normal

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As of January 1, 2020
CBRFC Snow Groups (SNOTEL Stations)

- Bear: 115% of WY normal
- Weber: 105% of WY normal
- Six Cr: 120% of WY normal
- Provo: 115% of WY normal
- Duchesne: 140% of WY normal
- Sevier: 130% of WY normal
- Virgin: 205% of WY normal
Utah - Soil Moisture Conditions

Most Basins are starting out the year between 70-110% of normal.

- Bear: Above normal
- Weber: Below normal
- Six Creeks: Mixed
- Provo: Mixed
- Sevier: Mixed
- Duchesne: Mixed
- Virgin: Mixed
Utah Water Supply Forecasts - Overview

- January 1 Forecast for April-July Volume in 1000’s acre feet (KAF)
- April-July Forecast Streamflow Volumes are in percent of 1981-2010 average

Median value of the... individual forecasts (in % of average) ...by Forecast Group.

<table>
<thead>
<tr>
<th>Area</th>
<th>Median Forecast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bear</td>
<td>90</td>
</tr>
<tr>
<td>Weber</td>
<td>85</td>
</tr>
<tr>
<td>Six Creeks</td>
<td>90</td>
</tr>
<tr>
<td>Provo / Utah Lake</td>
<td>90</td>
</tr>
<tr>
<td>Sevier</td>
<td>115</td>
</tr>
<tr>
<td>Duchesne</td>
<td>95</td>
</tr>
<tr>
<td>Virgin</td>
<td>100</td>
</tr>
</tbody>
</table>
Utah Water Supply Forecasts - Bear

Bear River Basin Forecasts

January: 90% of Normal
Utah Water Supply Forecasts - Weber

Weber River Basin Forecasts

January: 85% of Normal
Utah Water Supply Forecasts - Six Creeks

Six Creeks Basin Forecasts

January: 90% of Normal
Utah Water Supply Forecasts - Provo - Utah Lake

Provo River Basin Forecasts

January: 90% of Normal
Utah Water Supply Forecasts - Duchesne

Duchesne River Basin Forecasts

January: 95% of Normal
Utah Water Supply Forecasts - Sevier and Virgin

Sevier River Basin Forecasts

January: 115% of Normal

Virgin River Basin Forecasts

January: 100% of Normal
Evolution Plots allow one to:

- Follow daily changes to WS Forecast Guidance
- Follow daily changes to exceedance values
- Review previous years
- Compare current values to Min., Max., Avg. Median values
- Follow observed and Avg. volume (accumulation)
Evolution Plots allow one to:

- Follow daily changes to WS Forecast Guidance
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- Review previous years
- Compare current values to Min., Max., Avg. Median values
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Historical (1981-2010) Forecast Verification

January Forecast Error: April-July Volume

<table>
<thead>
<tr>
<th>Location</th>
<th>January Forecast Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEAR - UTAH-WYOMING STATE</td>
<td>21%</td>
</tr>
<tr>
<td>BEAR - WOODRUFF NARROWS</td>
<td>40%</td>
</tr>
<tr>
<td>LOGAN - LOGAN- NR</td>
<td>27%</td>
</tr>
<tr>
<td>WEBER - OAKLEY- NR</td>
<td>23%</td>
</tr>
<tr>
<td>WEBER - ROCKPORT RES</td>
<td>30%</td>
</tr>
<tr>
<td>BIG COTTONWOOD CK</td>
<td>21%</td>
</tr>
<tr>
<td>PARLEYS CK</td>
<td>39%</td>
</tr>
<tr>
<td>PROVO - WOODLAND- NR</td>
<td>25%</td>
</tr>
<tr>
<td>PROVO - DEER CK RES</td>
<td>33%</td>
</tr>
<tr>
<td>VIRGIN - VIRGIN</td>
<td>44%</td>
</tr>
</tbody>
</table>

Forecasts are better than just going with average
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
Upcoming Weather: next 7-10 days

- Trough over the Western U.S. may persist through January
- Northwest flow continues
Upcoming Weather: WPC January 8 - 14 Precipitation Outlook

- Models indicate a more active weather pattern for the Great Basin over the next two weeks.
- Week 1: Multiple storms bring significant precipitation to the mountains of northern Utah, with the possibility of some precipitation spreading south into Arizona as well.
- Week 2: Continuing wet pattern and chances for above normal precipitation across the entire Colorado Basin River Forecast Center area.
Upcoming Weather: 8-14 Day Outlook

Increased probability of above average precipitation & below average temperature

Precipitation Outlook

Temperature Outlook
Current soil moisture is improved compared to last year.

Snow conditions are above normal.

It is still relatively early in the snow accumulation season.

Water Supply Forecasts
  - Great Basin is slightly below average
  - Duchesne and Virgin Basins are about average
  - Sevier is above average

An active weather period is forecast to bring additional precipitation for the coming weeks.
## 2020 Water Supply Briefing Schedule

*All Times Mountain Time (MT)*

<table>
<thead>
<tr>
<th>Colorado River Basin</th>
<th>Utah (formerly Great Basin)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday</td>
<td>Wednesday</td>
</tr>
<tr>
<td>Jan 8&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Jan 8&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>10 am</td>
<td>11:30 am</td>
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<tr>
<td>Friday</td>
<td>Friday</td>
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<tr>
<td>Feb 7&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Feb 7&lt;sup&gt;th&lt;/sup&gt;</td>
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<tr>
<td>10 am</td>
<td>11:30 am</td>
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<tr>
<td>Friday</td>
<td>Friday</td>
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<tr>
<td>Mar 6&lt;sup&gt;th&lt;/sup&gt;</td>
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<td>10 am</td>
<td>11:30 am</td>
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<tr>
<td>Apr 7&lt;sup&gt;th&lt;/sup&gt;</td>
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Peak flow forecast webinar Wednesday, March 18th, 10 am MT

Additional briefings scheduled as needed

All registration information has been posted to the CBRFC web page.
COLORADO BASIN RIVER FORECAST CENTER
NATIONAL WEATHER SERVICE / NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

News

Wednesday, January 8, 2020. CBRFC Water Supply Webinars. Registration: More info...

CBRFC Webinar Registration & Email List

https://www.cbrfc.noaa.gov/

CBRFC Water Supply Forecast Webinars - Water Year 2020
The Colorado Basin River Forecast Center (CBRFC) produces water supply forecasts for the Colorado River and eastern Great Basins. CBRFC conducts December through June webinars explaining the forecasts and current conditions.

The webinar is composed of two parts - (1) a telephone conference call and (2) a web-based presentation.

The conference call can be joined by dialing the number below prior to the start of the webinar and entering the provided access code when prompted.

Webinar Dial-In Information (same for all webinars):
Conference Call Phone Number: 1-877-929-0960
Access Code: 1169074

To view the web-based presentation, you will need to register prior to each webinar. Follow the links below to register for a webinar.

Early Season Water Supply Outlook Webinar (click to register):
Wednesday, December 18, 10 am MT

Colorado River Basin Water Supply Webinars:
Wednesday, January 8, 6:10 am MT
Friday, February 7, 6:10 am MT
Sunday, March 8, 6:10 am MT
Thursday, May 7, 6:10 am MT

Great Basin Water Supply Webinars:
Wednesday, January 8, 6:10 am MT
Friday, February 7, 6:10 am MT
Sunday, March 8, 6:10 am MT
Thursday, May 7, 6:10 am MT

Peak Flow Webinar:
Wednesday, March 18, 10 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 from the CBRFC presentations page soon after each webinar.

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NATIONAL WEATHER SERVICE / NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

News

Join the CBRFC Email List and Google Group

To subscribe to our Google Group email list, just click here.

Or you can request to join by sending an email to cbrfc.webmasters@noaa.gov

In the subject line please include: email notification list.

If you would like to add any information about your area of interest and association or agency you represent please do so in the body of the email.

This information would help us maintain a more comprehensive contact list.

This list is used to provide notification when webinars are scheduled, water supply forecasts are updated, and for other news of interest to our stakeholders regarding CBRFC operations.

For questions or comments, including suggestions on additional CBRFC products or services we might provide, please contact us at cbrfc.webmasters@noaa.gov.
## Basin Focal Points (Forecasters)

<table>
<thead>
<tr>
<th>Name</th>
<th>Region</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brenda Alcorn</td>
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<td>Six Creeks, Provo, Sevier</td>
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</tr>
</tbody>
</table>

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CBRFC Webpage

[https://www.cbrfc.noaa.gov/](https://www.cbrfc.noaa.gov/)

CBRFC Operations

[cbfc.operations@noaa.gov](mailto:cbfc.operations@noaa.gov)

801-524-4004

CBRFC Water Supply Presentations

[https://www.cbrfc.noaa.gov/present/present.php](https://www.cbrfc.noaa.gov/present/present.php)

Questions?