Utah Drought Monitor Webinar

The meeting will begin shortly

Thank you to our contributors
Utah Drought Monitor Webinar

February 9, 2021
Snowpack (% of average)

Marginal improvements in snowpack since start of 2021 to some basins with marginal degradation in others.

Jan 1, 2021

Feb 8, 2021

Overall, little change to statewide “snow drought”

Agency - Utah Climate Center
Presenter - Jon Meyer
Temperature 30 day (Related to Average)
Precipitation 30 day history (Percent of Average)

The region is experiencing more frequent storms than early in the wintertime...

...but they are not delivering much precipitation

Agency - Presenter -
Standardized Precipitation Index

60 Day SPI
12/11/2020 - 2/8/2021

30 Day SPI
1/10/2021 - 2/8/2021

Agency - Utah Climate Center
Presenter - Jon Meyer
Water Year-To-Date Summary

[Map showing precipitation in the Western United States for October-January 2021, with color coding for percent of 1981-2010 normal and percentile.]

Agency -
Presenter -
Drought Indices (PDSI & Water Year SPI)

Western United States - PDSI
January 2021

Western United States - 4 month SPI
January 2021

WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 FEB 2021
Soil Moisture Drought Indicator

GRACE-Based Shallow Groundwater Drought Indicator
February 08, 2021

Agency -
Presenter -
Snowpack current % normal

- Projected SWE. Only ~10% chance of receiving normal peak SWE by early April.
Soil Moisture (Current)

Agency - NRCS Snow Survey
Presenter - Jordan Clayton
Utah Lake Basin Reservoir Storage (Feb 1)

- **Deer Creek**
  - Current (Feb 1): 71% (5%)*
  - Last Year (Feb 1): 91%
  - 149,700 ac-ft

- **Jordanelle**
  - Current (Feb 1): 68% (-1%)*
  - Last Year (Feb 1): 83%
  - 320,000 ac-ft

- **Utah Lake**
  - Current (Feb 1): 70% (7%)*
  - Last Year (Feb 1): 90%
  - 870,900 ac-ft

- **Basin Total**
  - Current (Feb 1): 70% (5%)*
  - Last Year (Feb 1): 88%
  - 1,340,600 ac-ft

* Values in () represent the change from Jan 1.

Agency - Division of Water Resources w/NRCS data
Presenter - Laura Haskell
Cedar/Beaver Basin Reservoir Storage (Feb 1)

<table>
<thead>
<tr>
<th>Location</th>
<th>Current (Feb 1)</th>
<th>Last Year (Feb 1)</th>
<th>Average (Feb 1)</th>
<th>Total Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Enterprise</td>
<td>2% (0%)*</td>
<td>19%</td>
<td>20%</td>
<td>2,600 ac-ft</td>
</tr>
<tr>
<td>Upper Enterprise</td>
<td>30% (0%)*</td>
<td>45%</td>
<td>28%</td>
<td>10,000 ac-ft</td>
</tr>
<tr>
<td>Minersville</td>
<td>23% (6%)*</td>
<td>77%</td>
<td>51%</td>
<td>23,300 ac-ft</td>
</tr>
<tr>
<td>Basin Total</td>
<td>24% (4%)*</td>
<td>64%</td>
<td>42%</td>
<td>35,900 ac-ft</td>
</tr>
</tbody>
</table>

* Values in () represent the change from Jan 1.
Virgin River Basin Reservoir Storage (Feb 1)

- **Gunlock**: 43% (0%)\(^\ast\), 66%, 57%, 10,900 ac-ft
- **Quail Creek**: 60% (2%)\(^\ast\), 63%, 72%, 40,000 ac-ft
- **Sand Hollow**: 88% (7%)\(^\ast\), 79%**, 96%, 51,000 ac-ft
- **Basin Total**: 72% (5%)\(^\ast\), 71%, 83%, 101,900 ac-ft

* Values in () represent the change from Jan 1.
** Based on limited data.
Statewide Reservoir Storage (Feb 1)

- 38 Major Reservoirs (Excl. Lake Powell, Flaming Gorge, Bear Lake, Utah Lake, Strawberry & Jordanelle):
  - Current (Feb 1): 1,779,620 ac-ft
  - Last Year (Feb 1): 1,779,620 ac-ft
  - Average (Feb 1): 72%
  - Total Capacity: 72%

- Including Bear Lake & Utah Lake:
  - Current (Feb 1): 3,952,520 ac-ft
  - Last Year (Feb 1): 3,952,520 ac-ft
  - Average (Feb 1): 60%
  - Total Capacity: 60%

- Including Strawberry & Jordanelle:
  - Current (Feb 1): 5,378,420 ac-ft
  - Last Year (Feb 1): 3,952,520 ac-ft
  - Average (Feb 1): 64%
  - Total Capacity: 64%

- Including Lake Powell & Flaming Gorge:
  - Current (Feb 1): 33,449,420 ac-ft
  - Last Year (Feb 1): 33,449,420 ac-ft
  - Average (Feb 1): 50%
  - Total Capacity: 50%

* Values in () represent the change from Jan 1.
Climate Prediction Center 8 to 14 Day Outlooks - Temperature

Feb 16 - Feb 22, 2021

Below-Normal Favored

Above-Normal Favored

Climate Prediction Center
Issued: 02/08/2021
Climate Prediction Center U.S. Week-2 Hazards Outlook

Day 8-14 U.S. Hazards Outlook
Valid: 02/16/2021-02/22/2021

Much Below Normal Temperatures
2/16 - 2/19

NO HAZARDS POSTED

Follow us: www.cpc.ncep.noaa.gov
CBRFC, Utah Water Supply Forecasts - Overview

- February 1 Forecast for April-July Volume
- 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>Forecast Group</th>
<th>Median Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bear</td>
<td>50</td>
</tr>
<tr>
<td>Weber</td>
<td>45</td>
</tr>
<tr>
<td>Six Creeks</td>
<td>40</td>
</tr>
<tr>
<td>Provo / Utah Lake</td>
<td>50</td>
</tr>
<tr>
<td>Sevier</td>
<td>40</td>
</tr>
<tr>
<td>Duchesne</td>
<td>50</td>
</tr>
<tr>
<td>Virgin</td>
<td>40</td>
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