Utah Water Assessment & Conditions Monitoring
(Drought Webinar)

The meeting will begin shortly

UTAH CLIMATE CENTER

NOAA

USGS science for a changing world

BUREAU OF RECLAMATION

NRCS Natural Resources Conservation Service

UDAF

UTAH DNR WATER RESOURCES

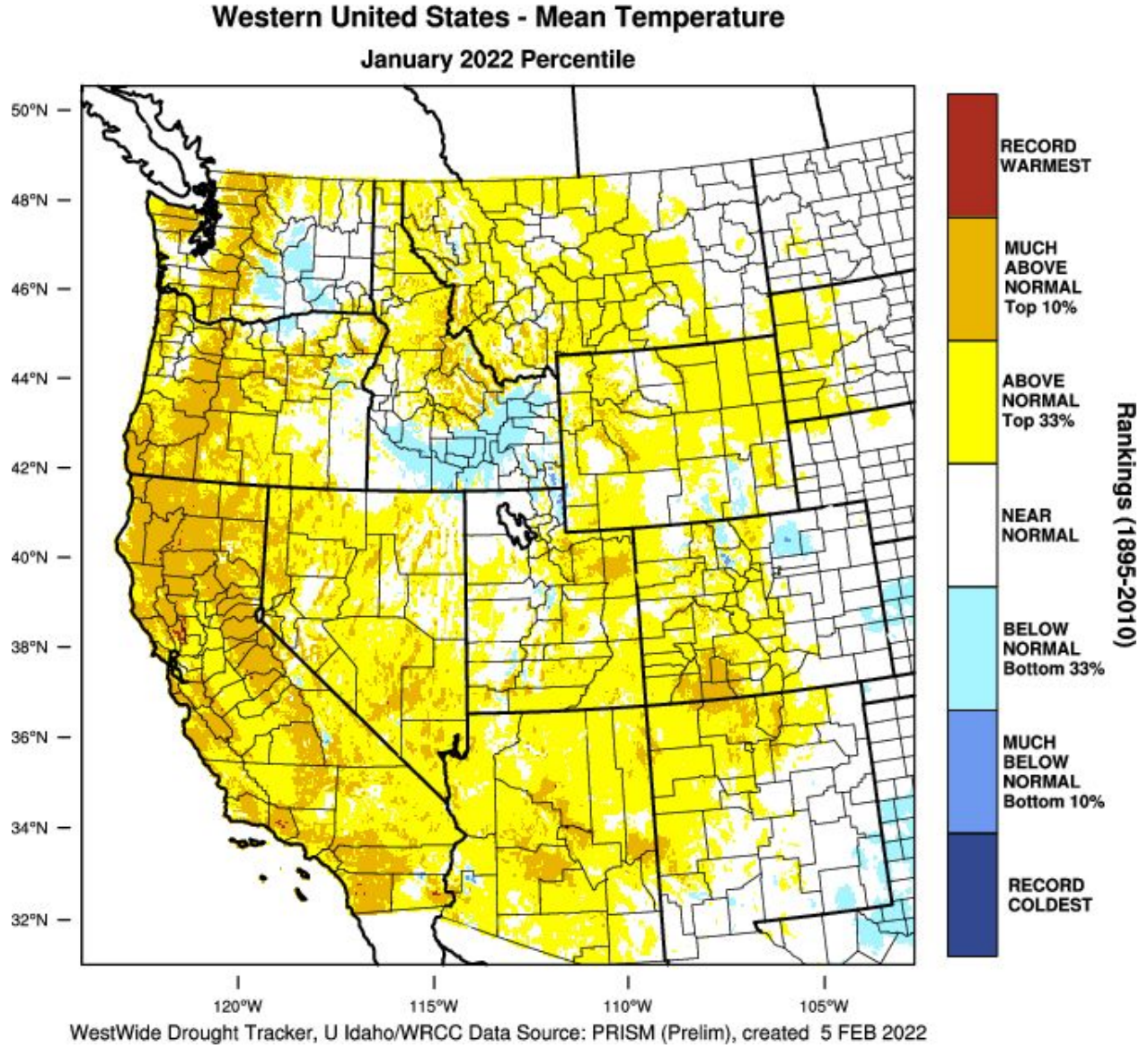
Thank you to our contributors

Utah Water Assessment & Conditions Monitoring Webinar

February 8, 2022

30-day Temperature departure from average

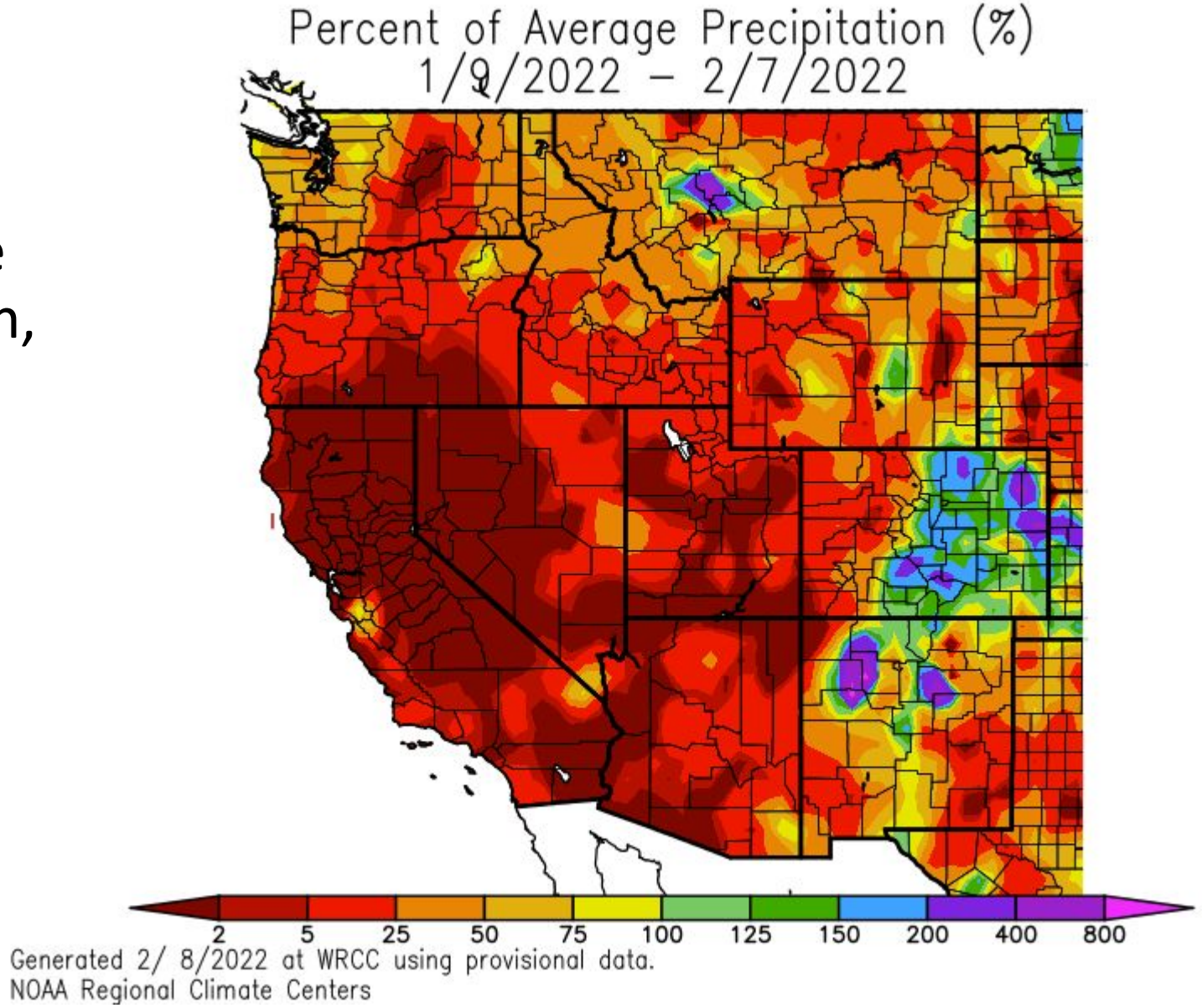
January temperatures were only slightly above normal with many parts near normal.



Agency - Utah Climate Center
Presenter - Jon Meyer

30-day precipitation percent of normal

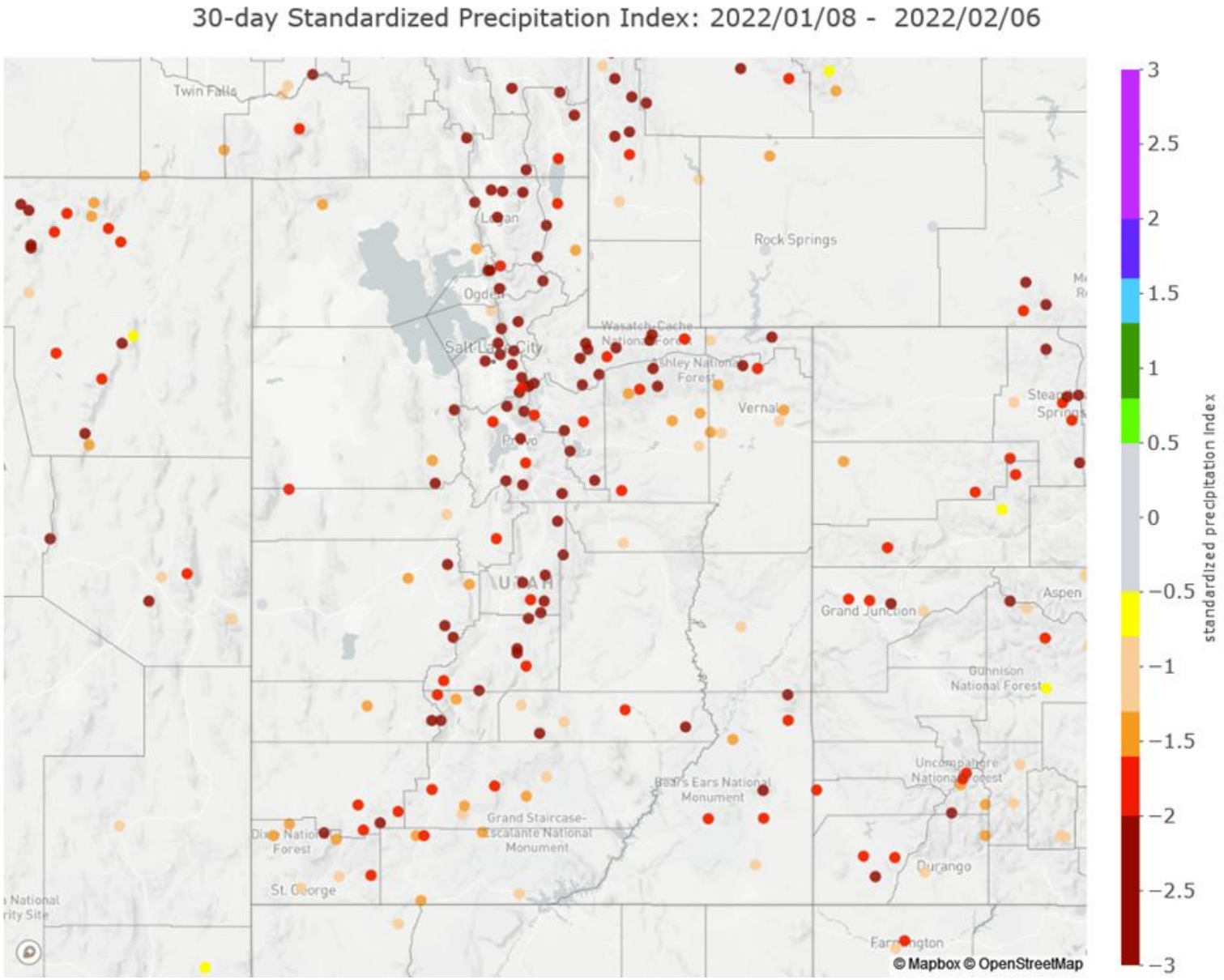
If you saw measurable snow in the last month, you were lucky!



Agency - Utah Climate Center
Presenter - Jon Meyer

30-day Standardized Precipitation Index (SPI)

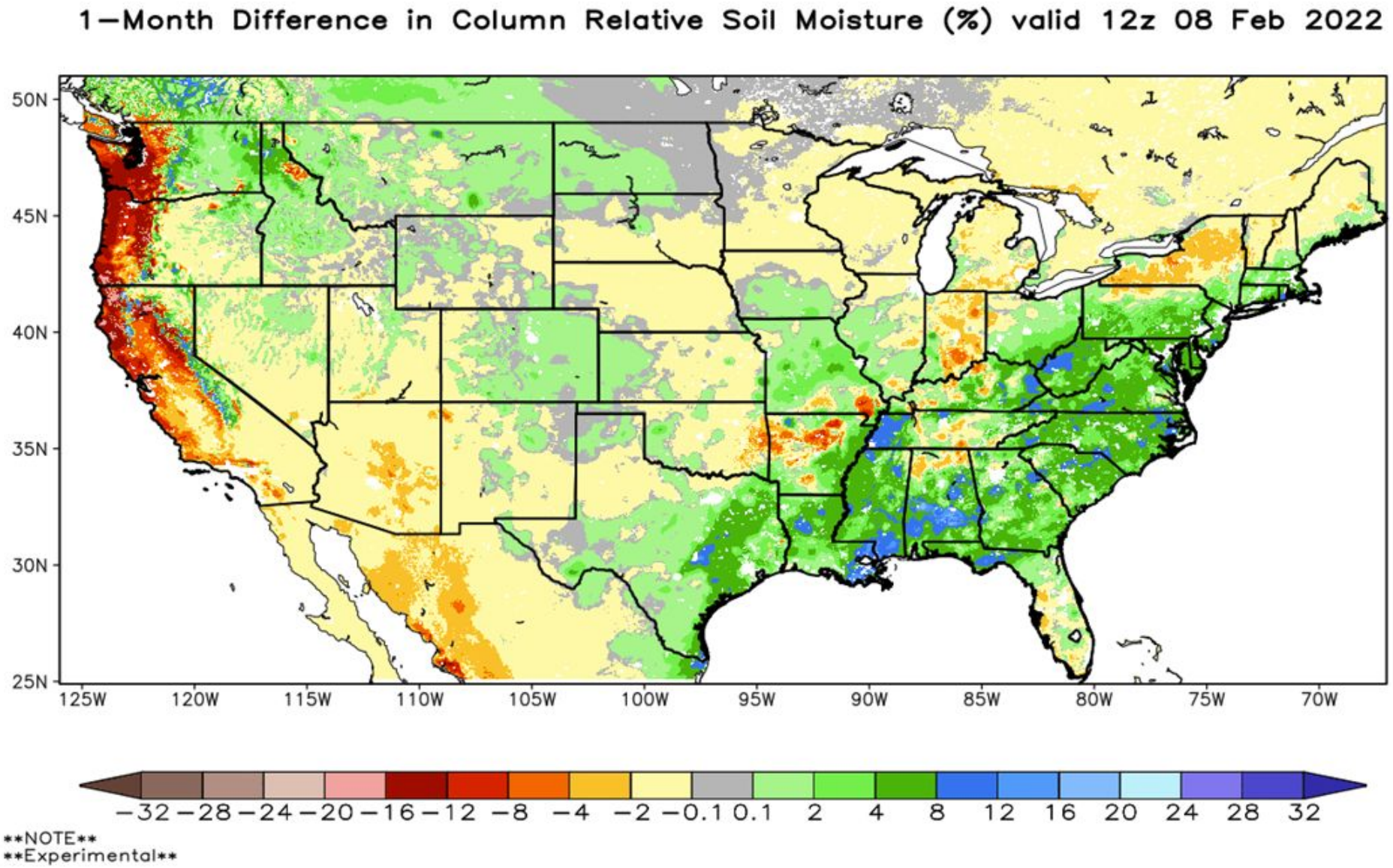
Reiterates the degree of statewide dryness experienced in the last 30-days



Agency - Utah Climate Center
Presenter - Jon Meyer

One-Month Soil Moisture Changes

Gradual low-elevation drying experienced in the last month



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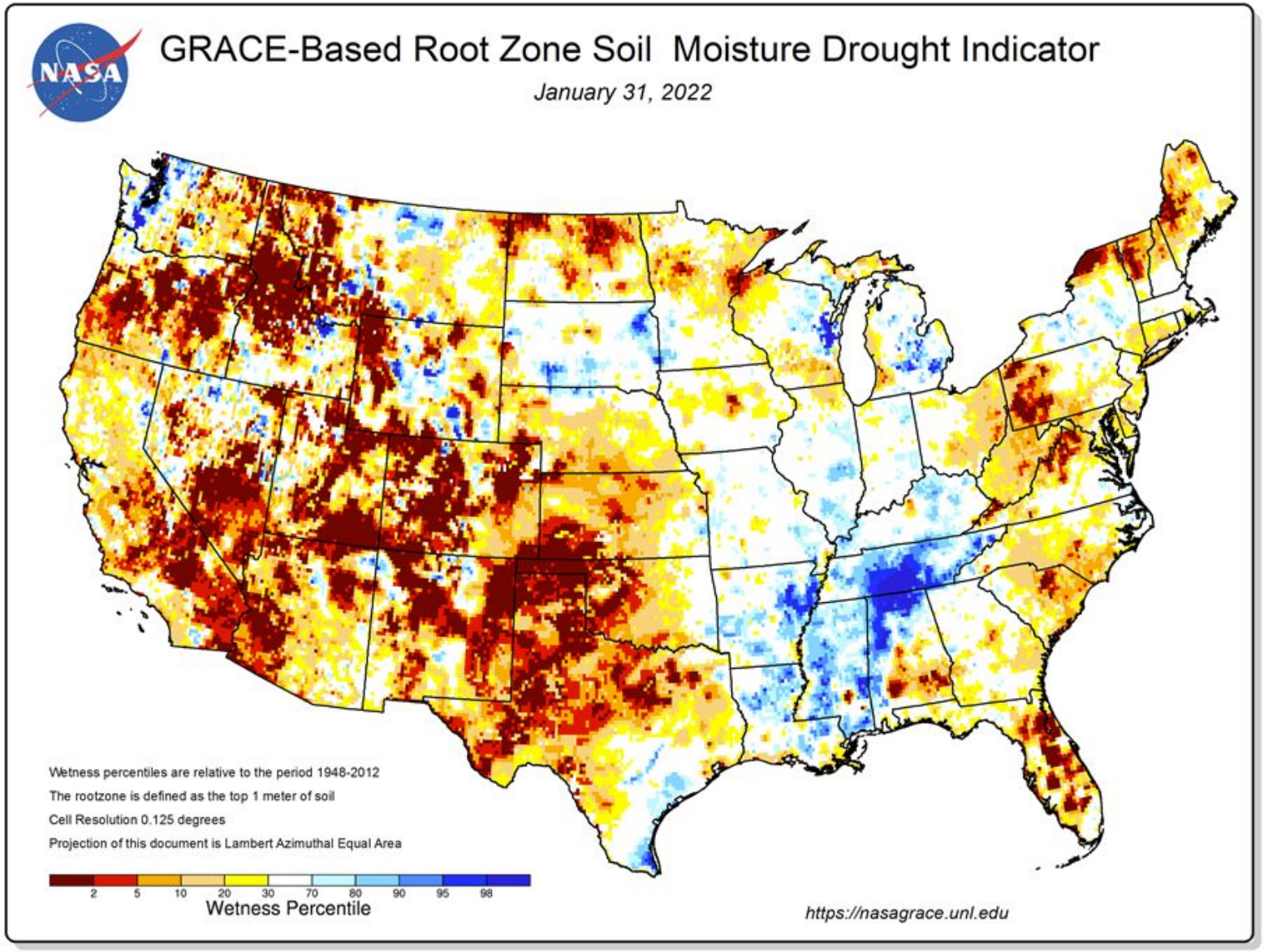
Presenter - Jon Meyer

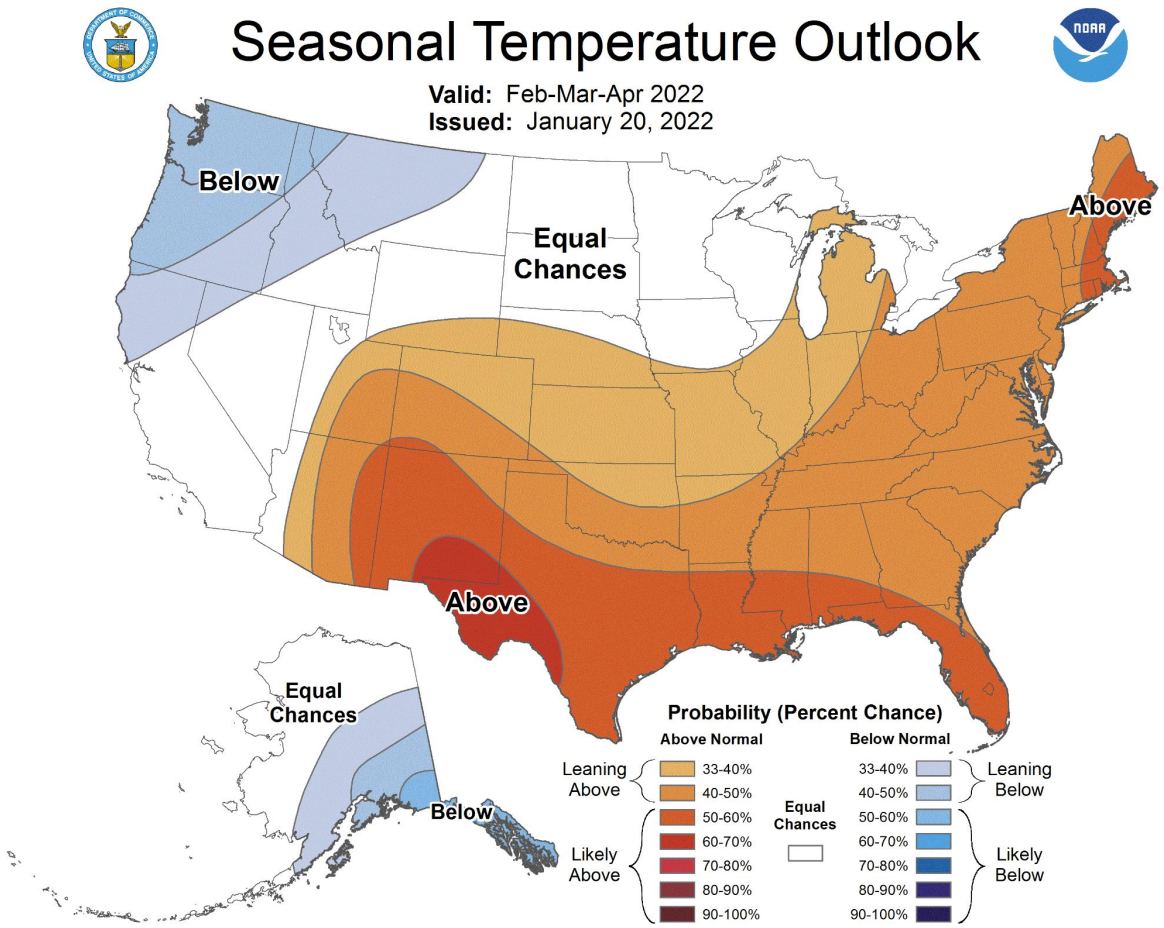
GRACE Satellite Root-Zone Soil Moisture Observations

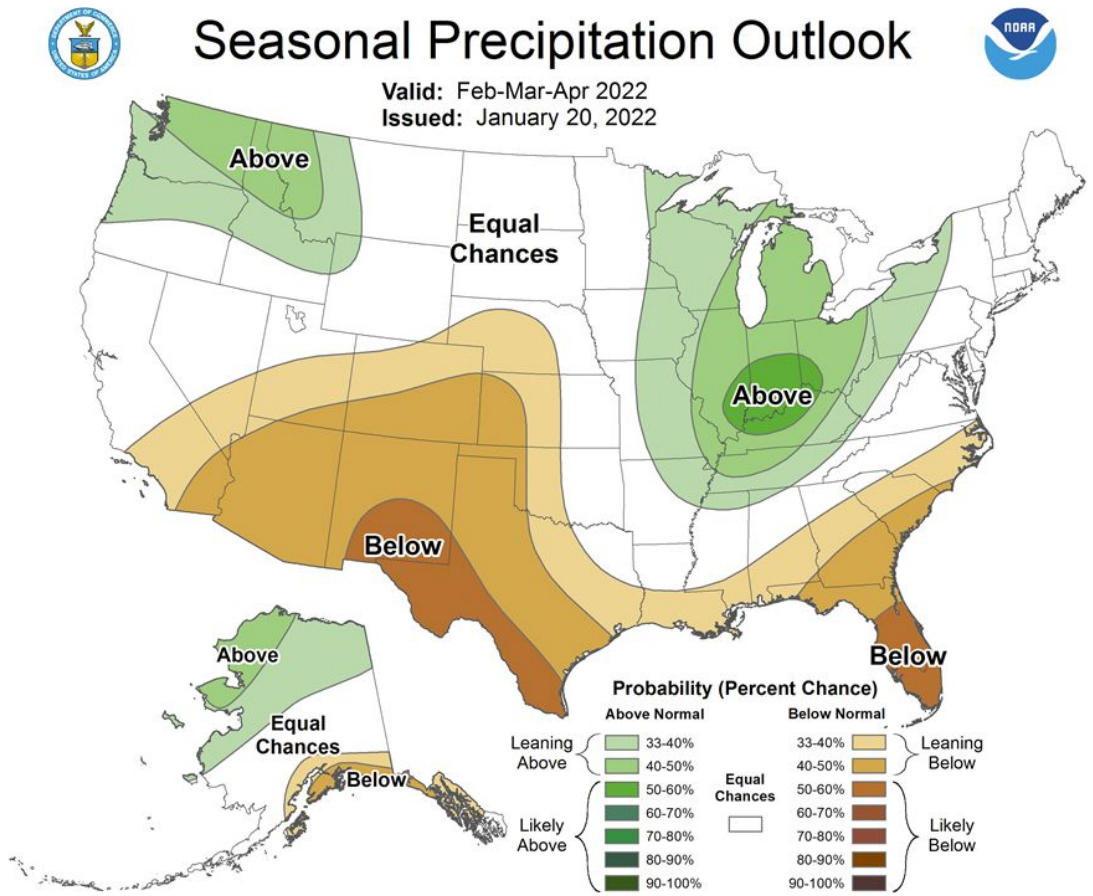
Evidence the long-term drought remains present and will be an issue heading into the growing season.



Agency - Utah Climate Center
Presenter - Jon Meyer

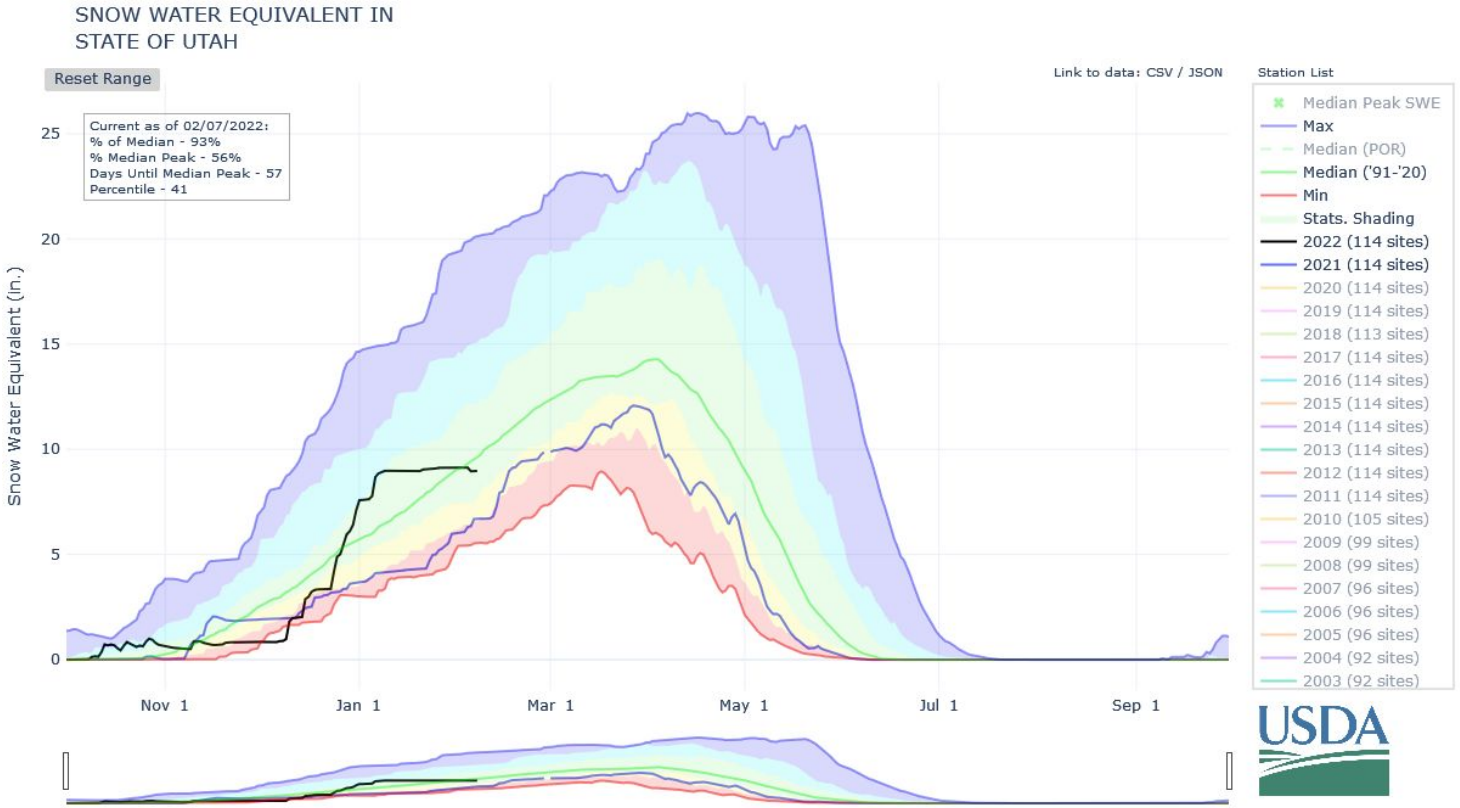
CPC 3-month outlook (Feb-Apr)

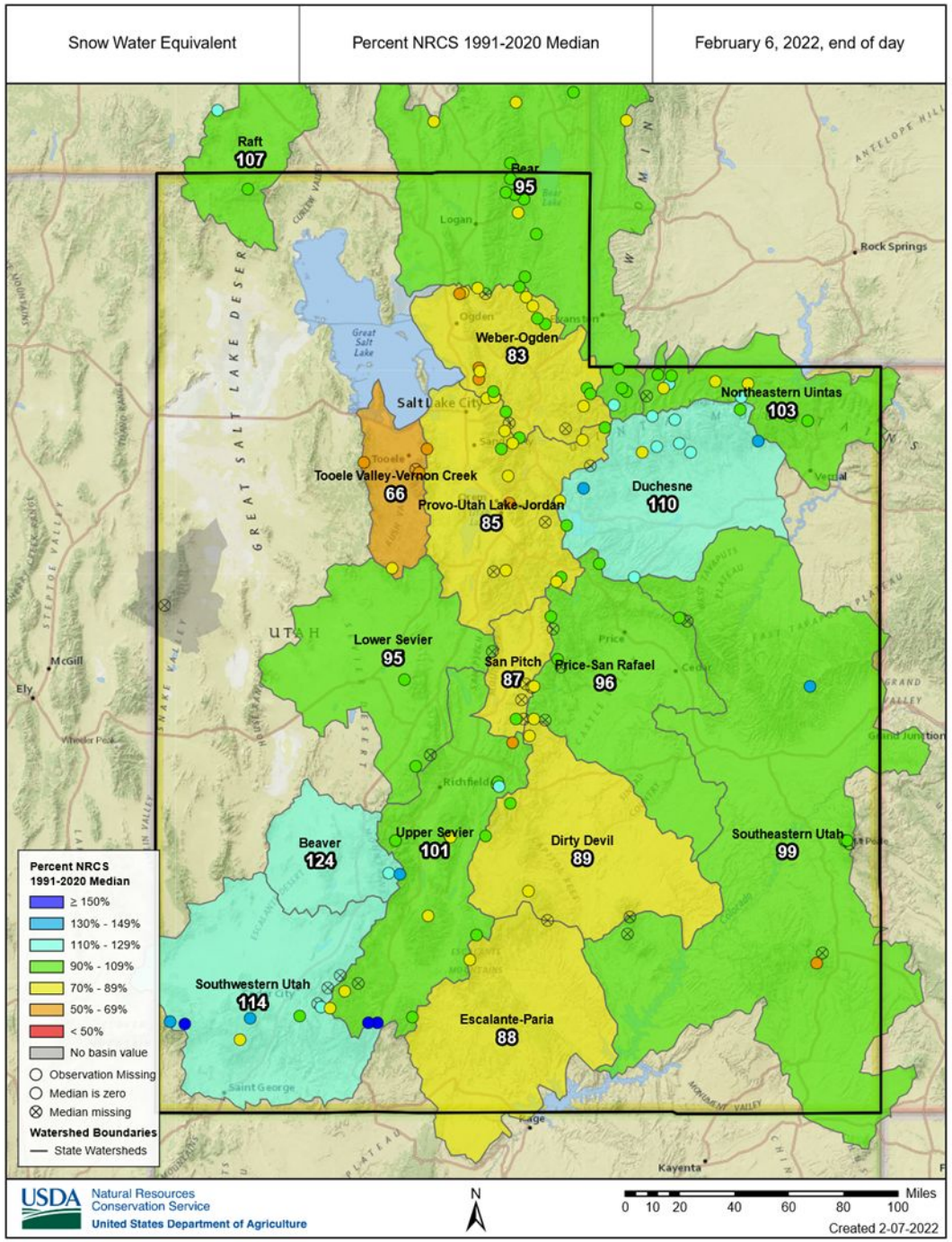




Agency - Utah Climate Center
Presenter - Jon Meyer

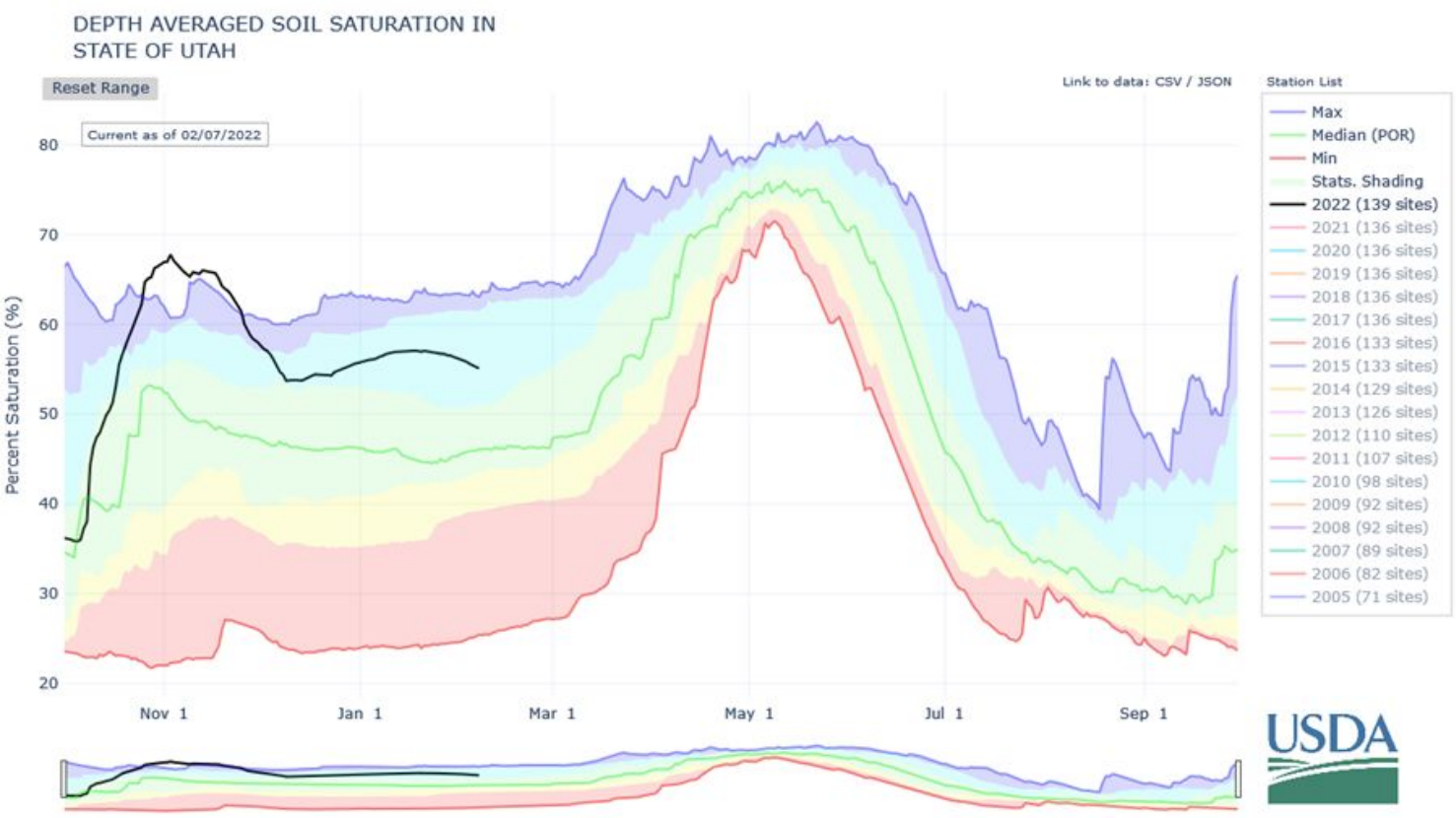
Snowpack

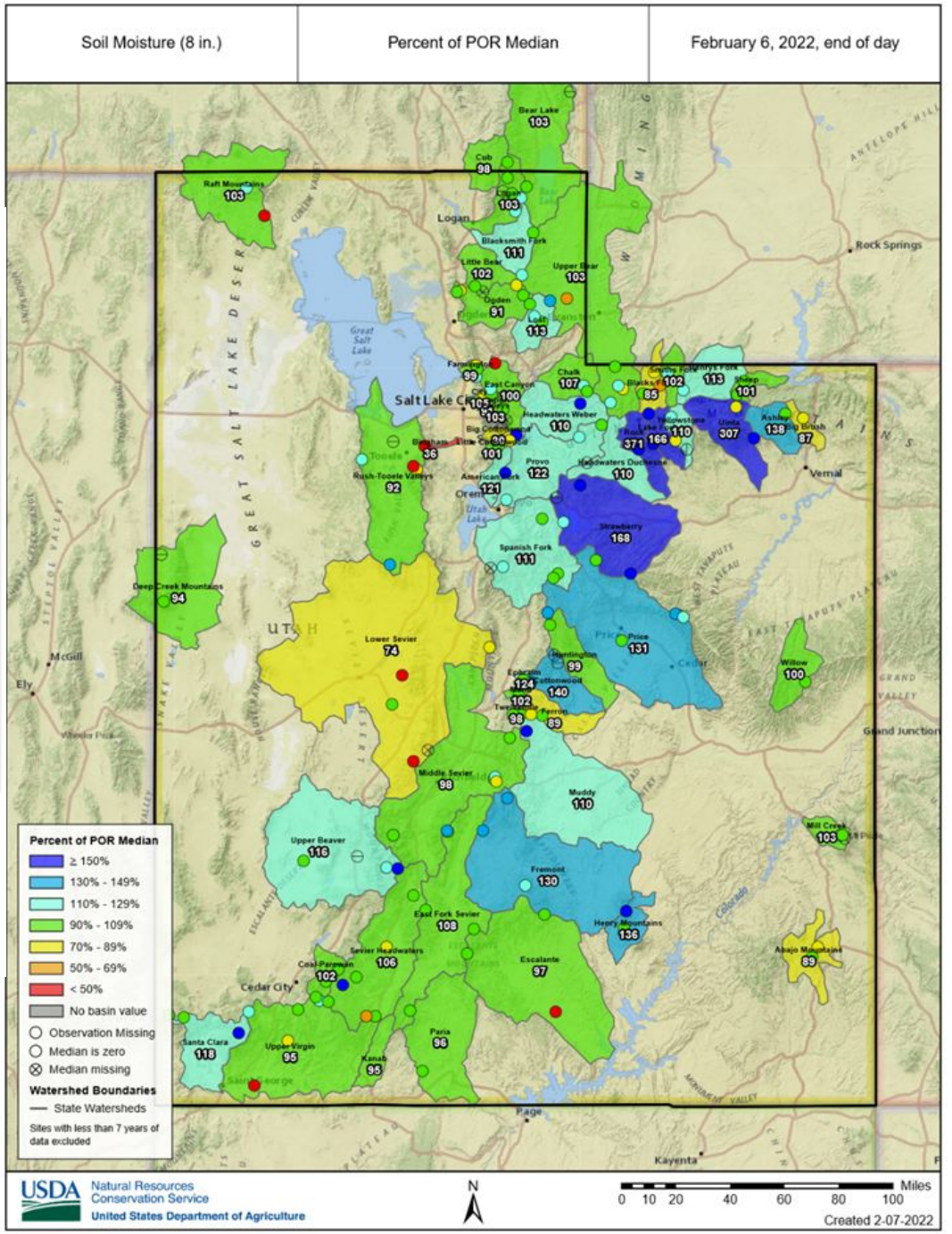




Agency - NRCS Utah Snow Survey
Presenter - Jordan Clayton

Soil Moisture





Agency - NRCS Utah Snow Survey
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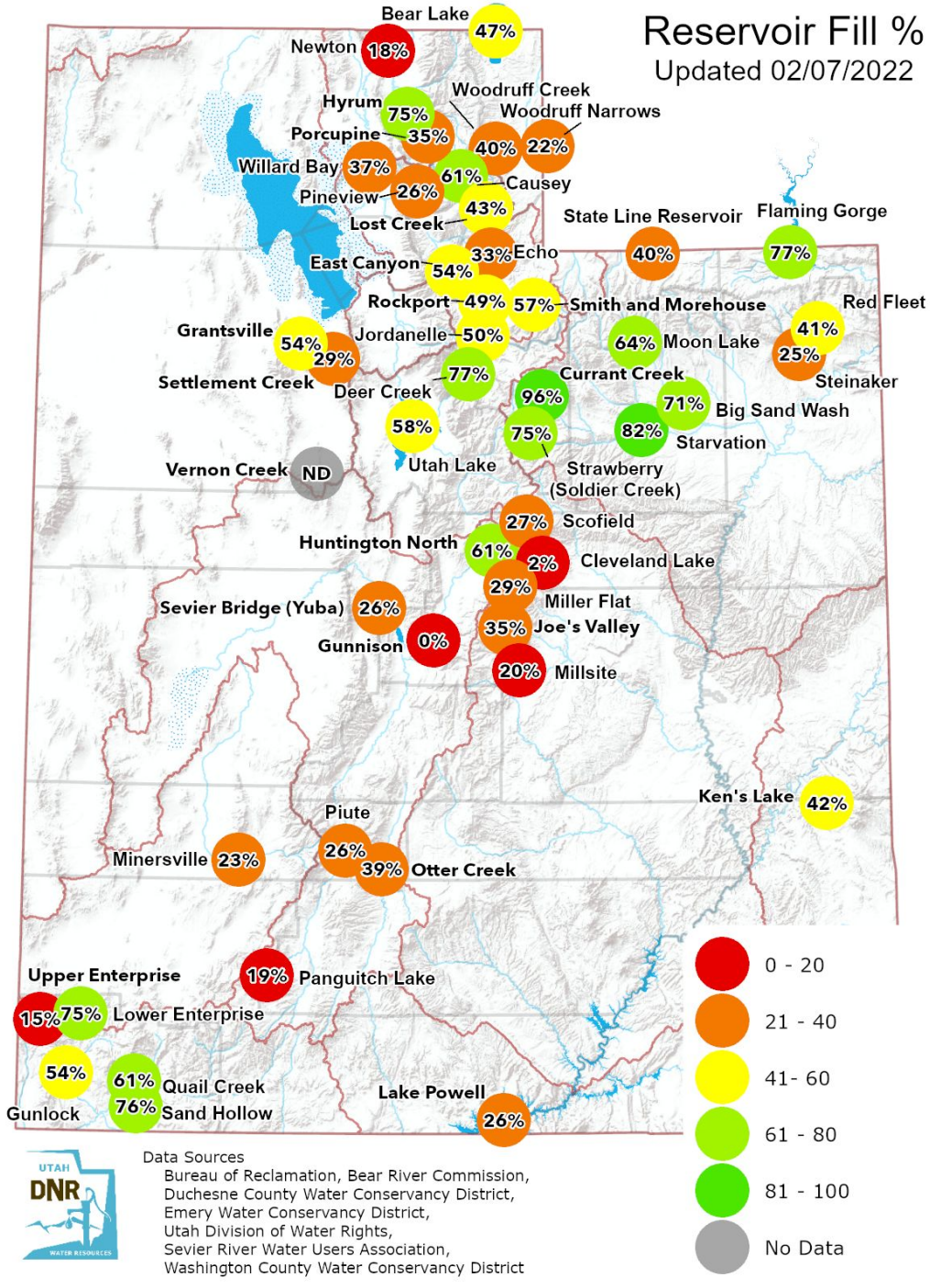
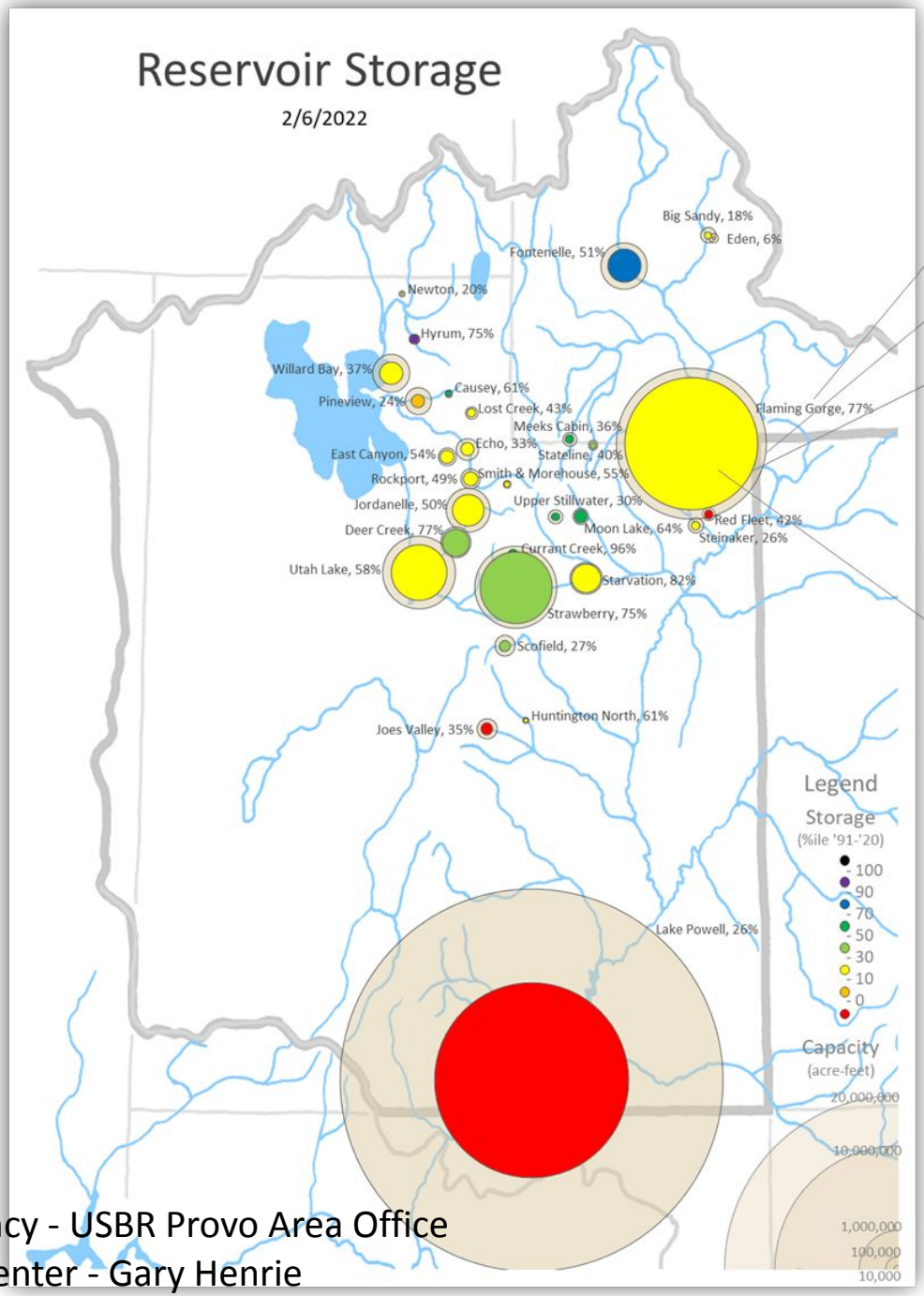


Agency - Division of Water Resources
Presenter - Laura Haskell



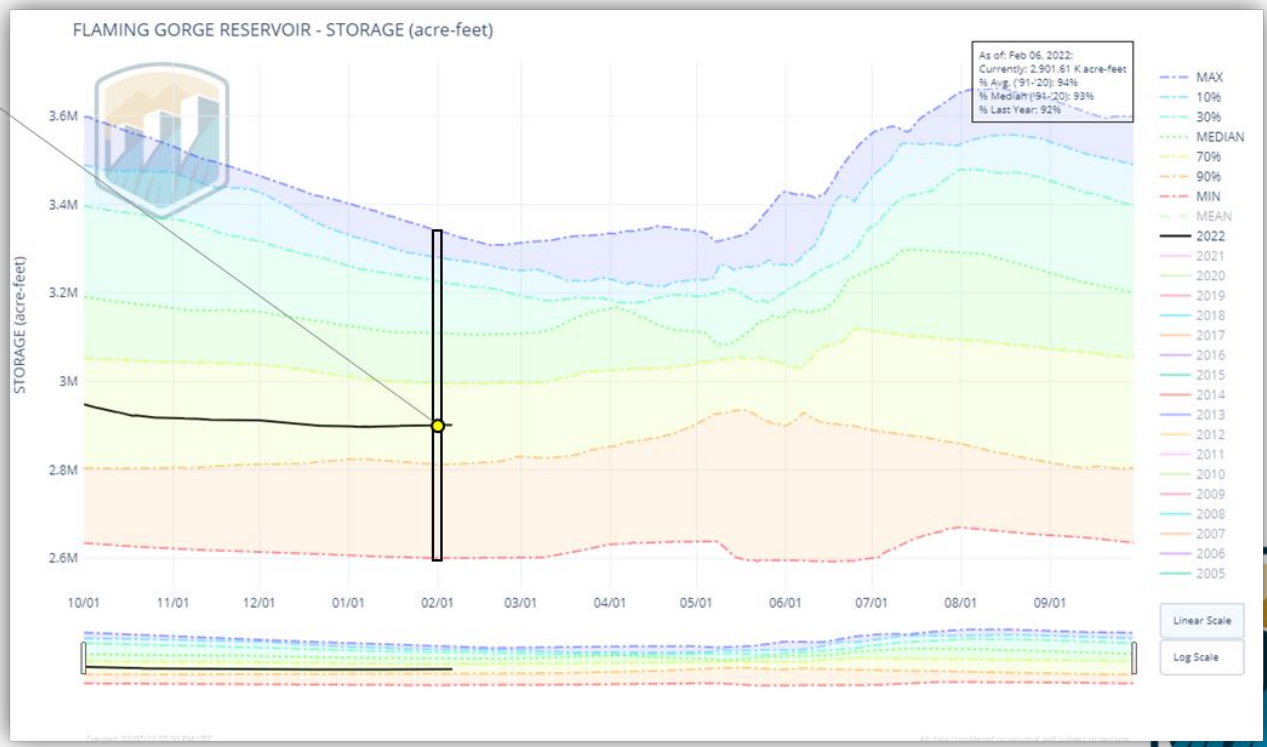
Reservoir name, current percent full (text)

Reservoir Live Capacity (outer dot)

Reservoir current Live Storage (inner dot)

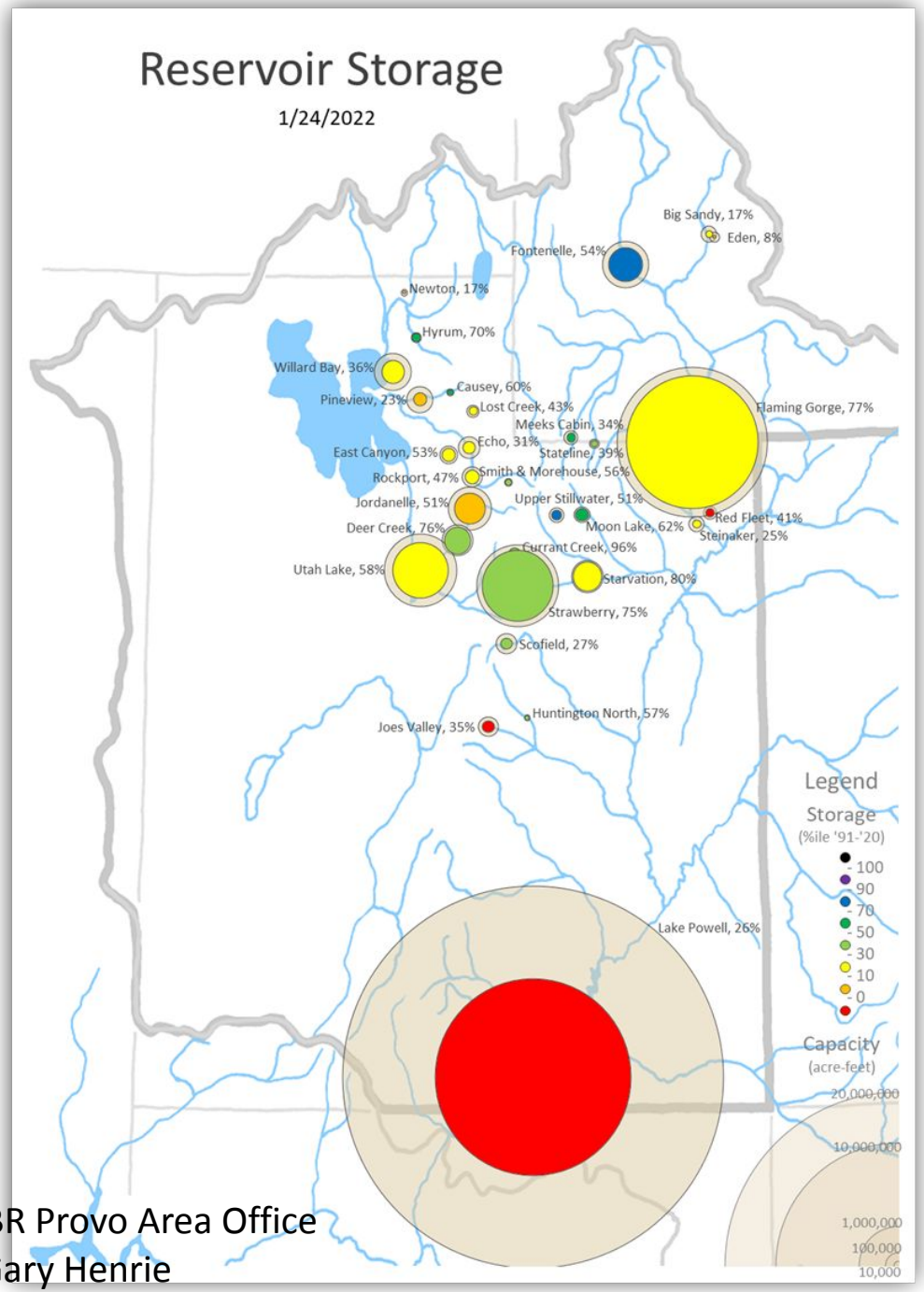
Colored by percentile of 1991-2020 storage for this date

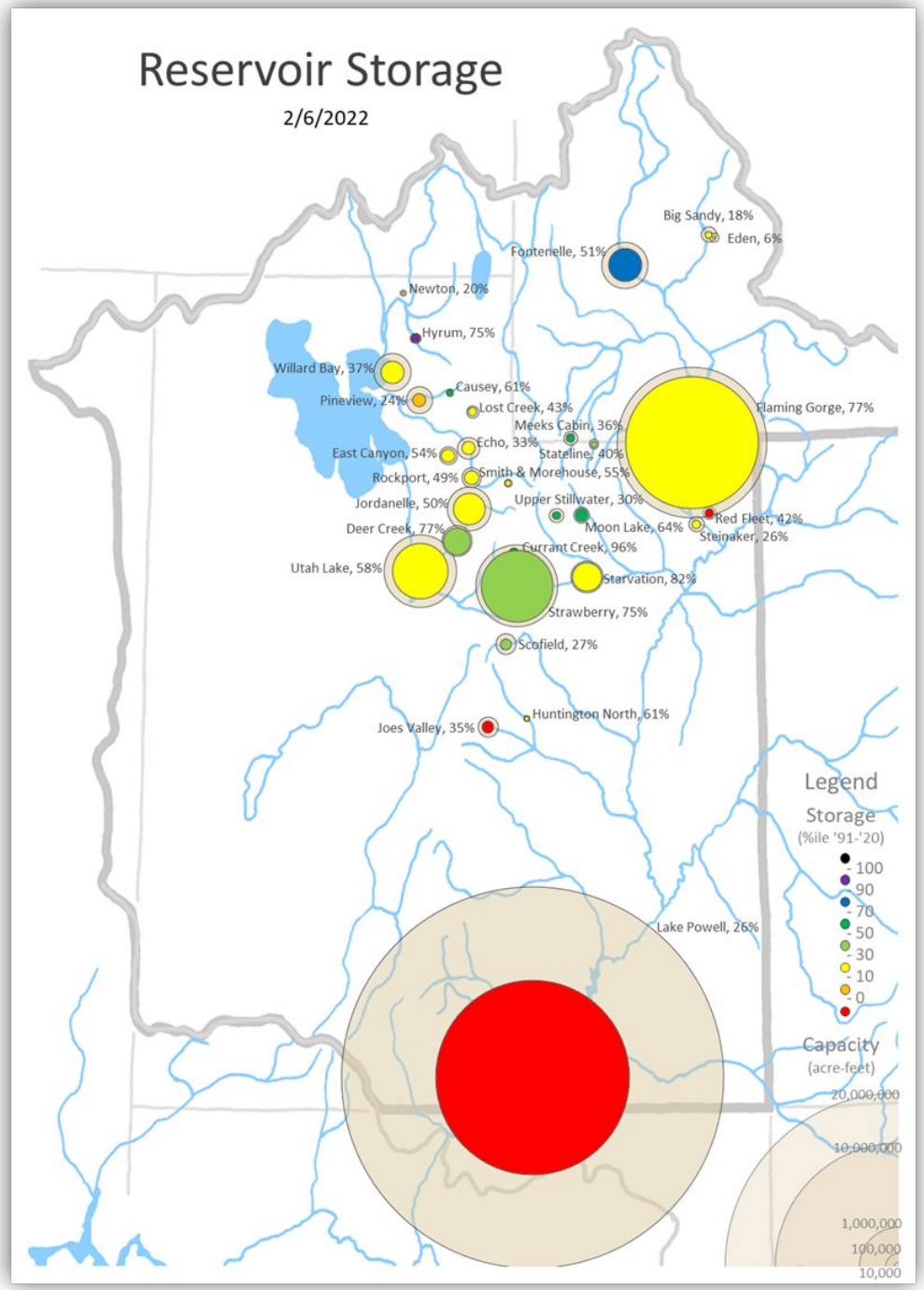
www.usbr.gov/uc/water "Reservoir Data"



Agency - USBR Provo Area Office

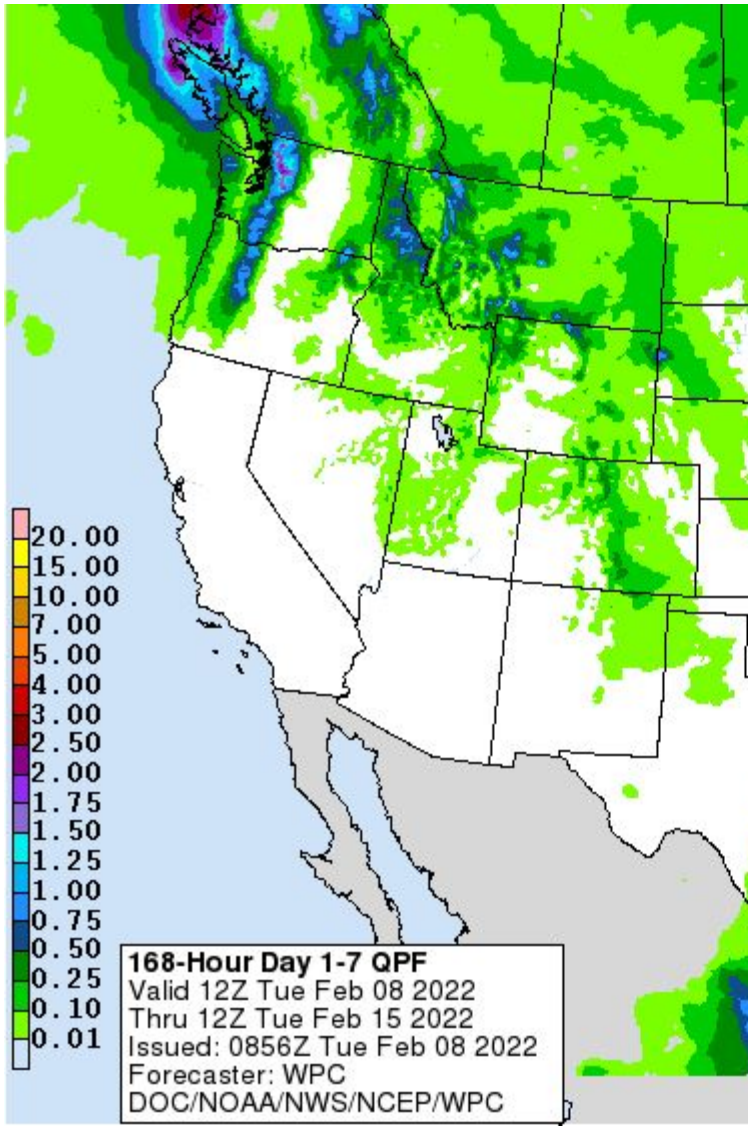
Presenter - Gary Henrie

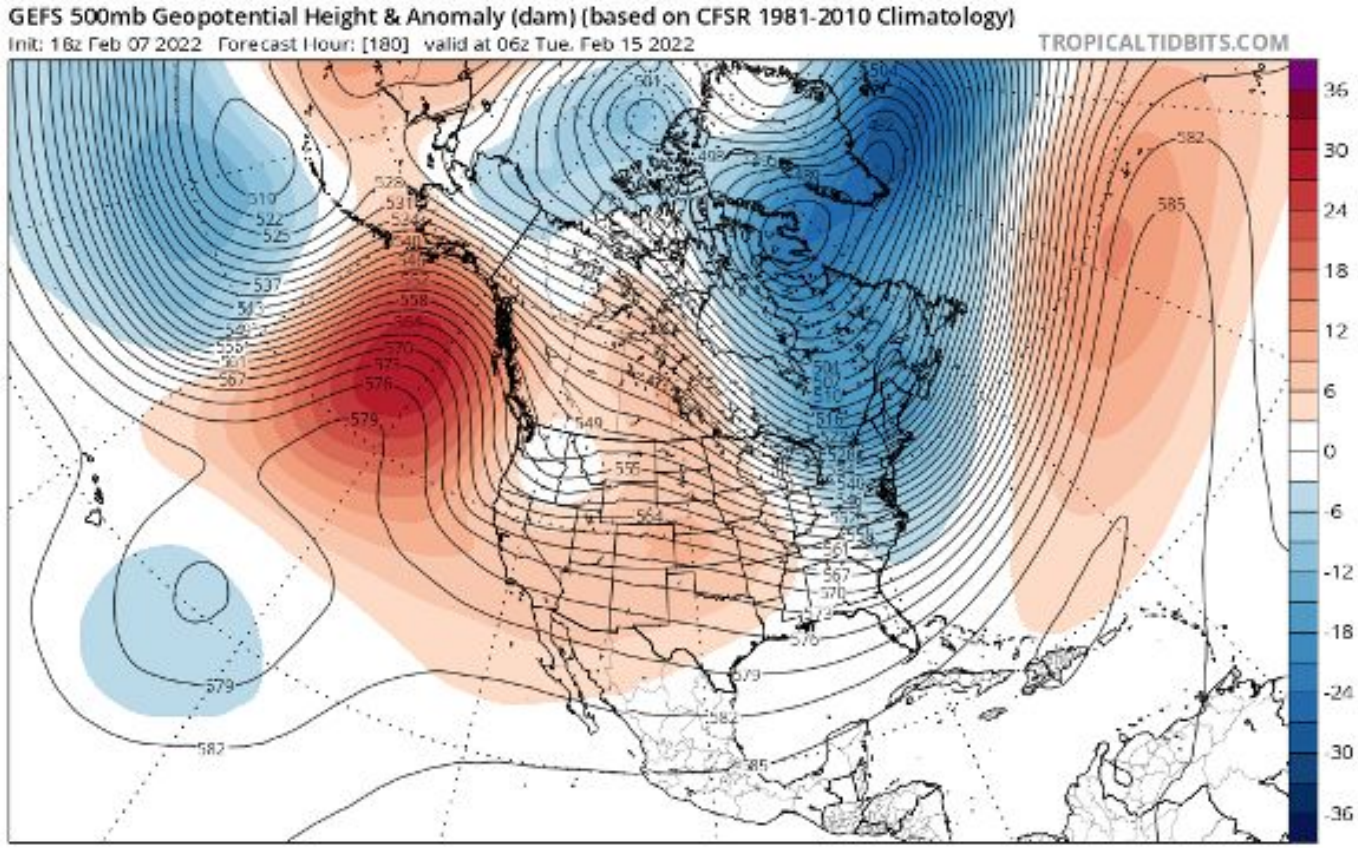




Agency - USBR Provo Area Office
Presenter - Gary Henrie

Weather Forecast Office Utah Day 1-7 Outlook

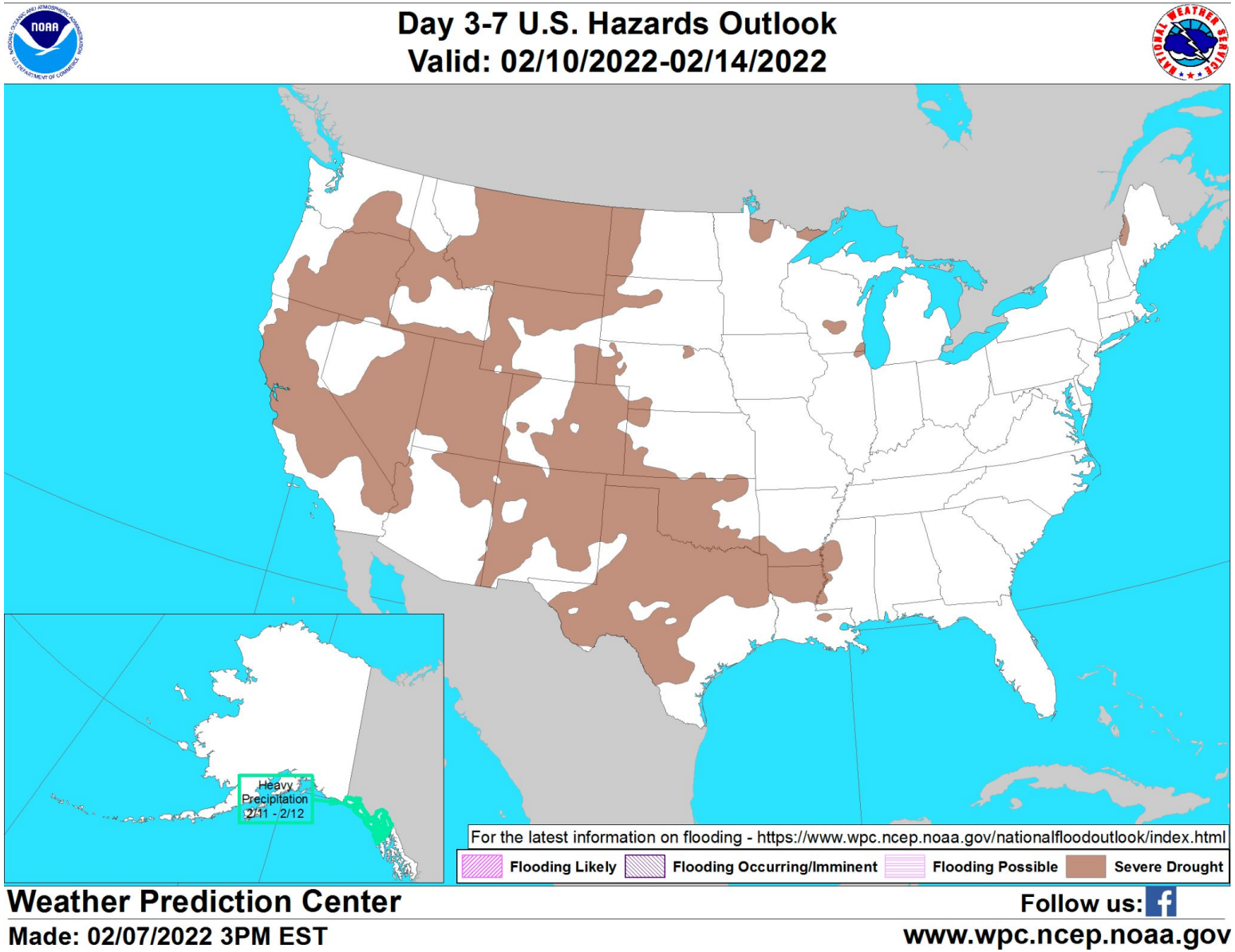




- High pressure will dominate the majority of the week ahead
  - Above normal temperatures expected next several days
  - Dry through the weekend
  - Potential for a weak storm next Monday-Tuesday

Agency - National Weather Service Weather Forecast Office
Presenter - Glen Merrill

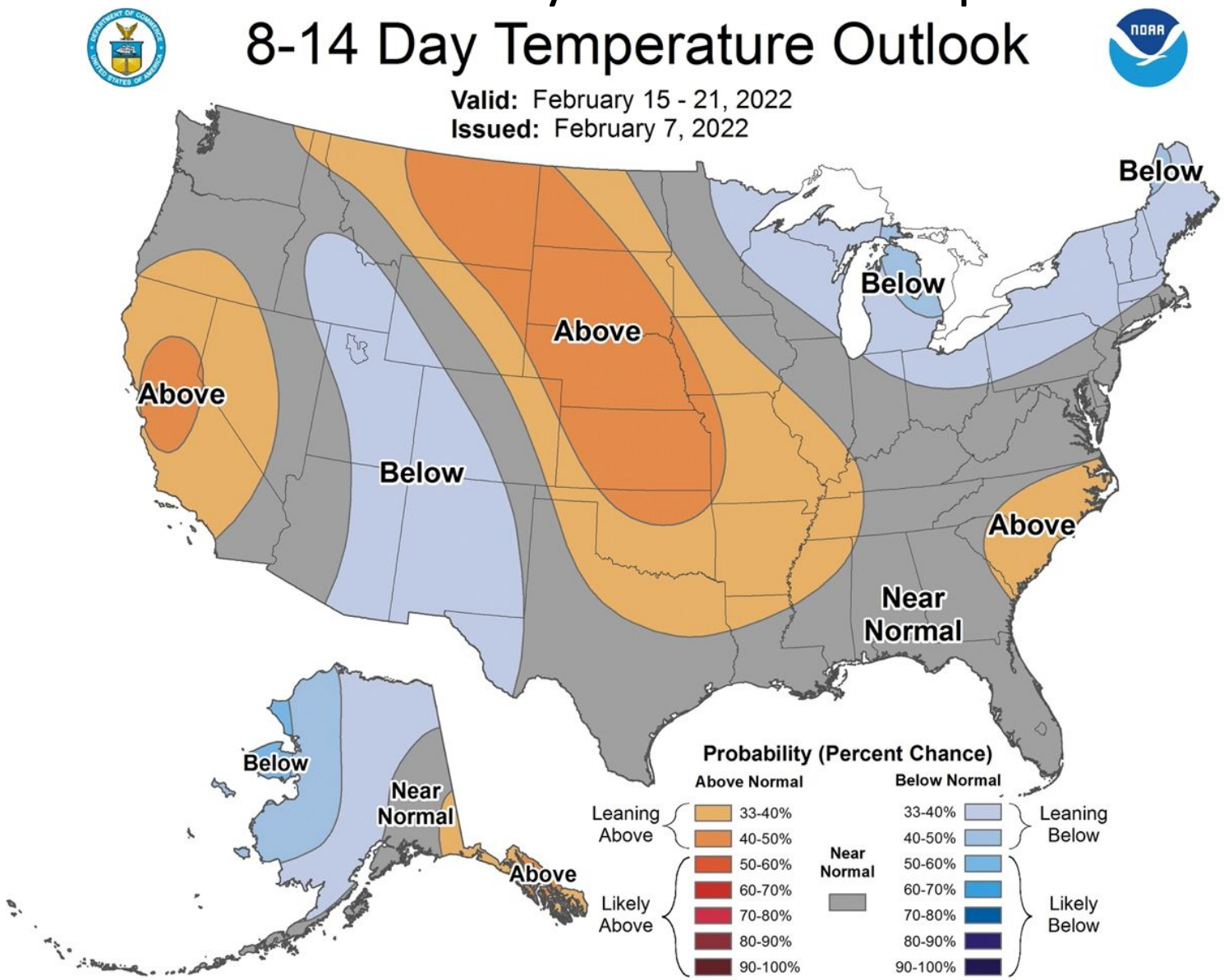
Weather Prediction Center U.S. Day 3-7 Hazards Outlook



Agency - National Weather Service Weather Forecast Office

Presenter - Glen Merrill

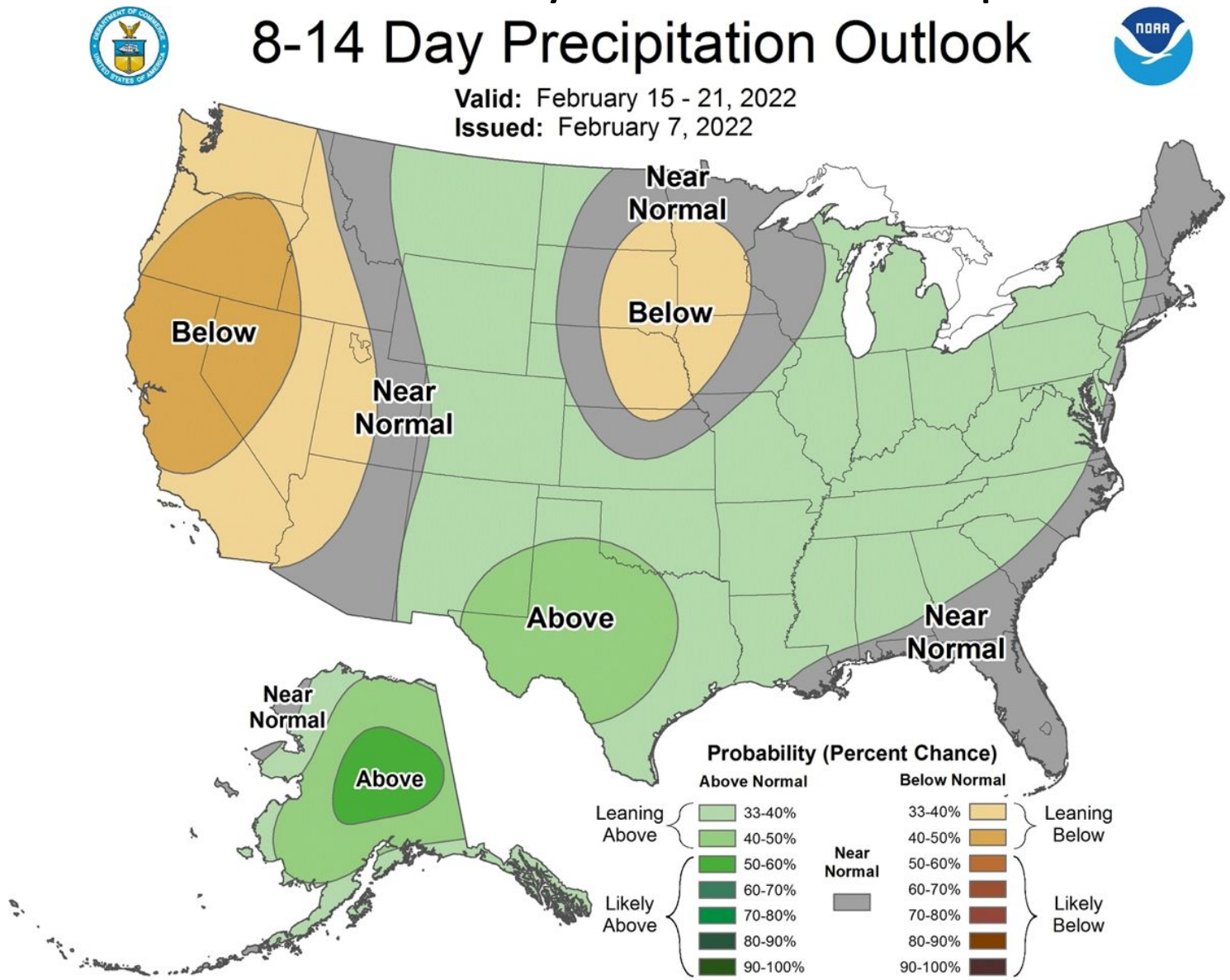
Climate Prediction Center 8 to 14 Day Outlooks - Temperature



Agency - National Weather Service Weather Forecast Office

Presenter - Glen Merrill

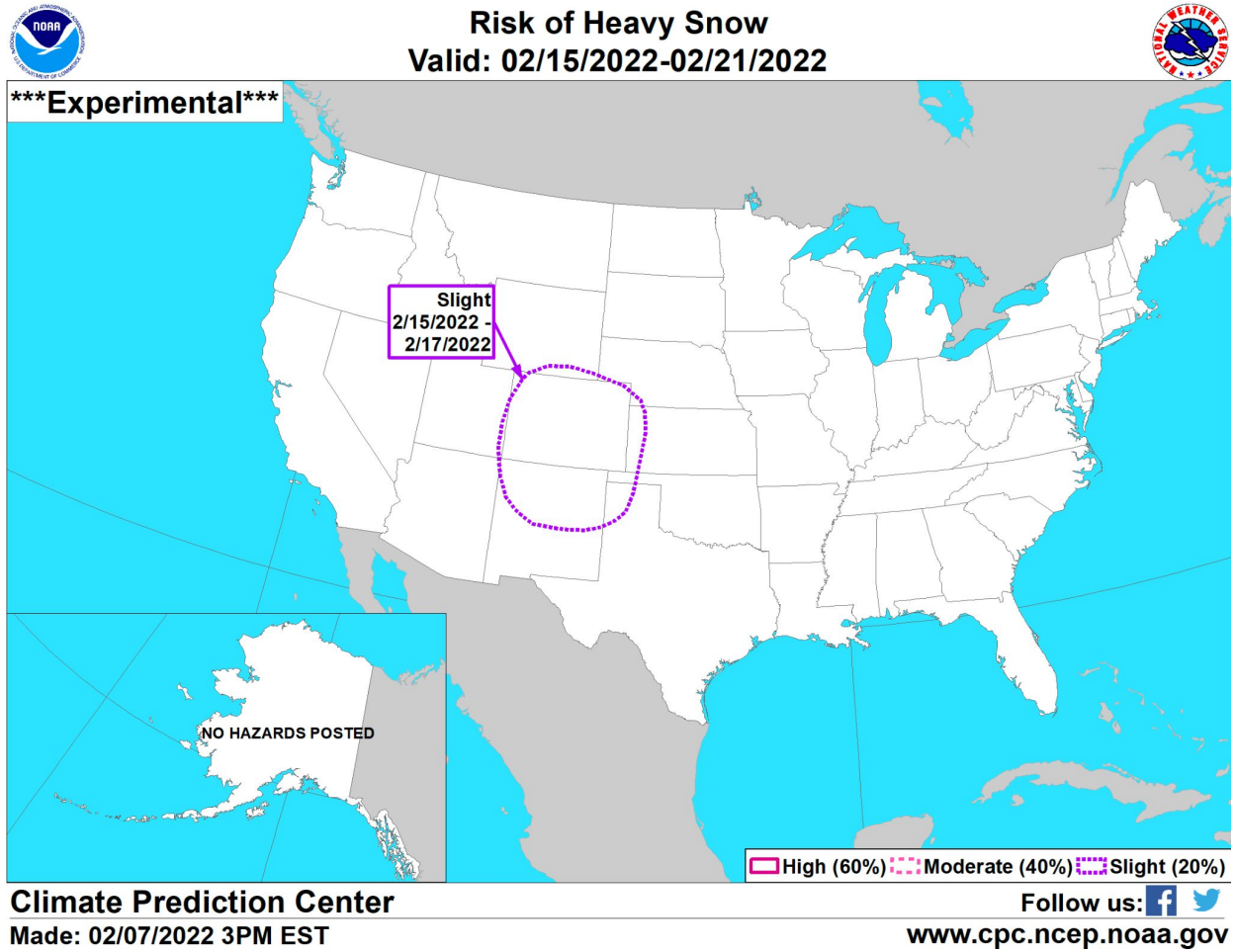
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation

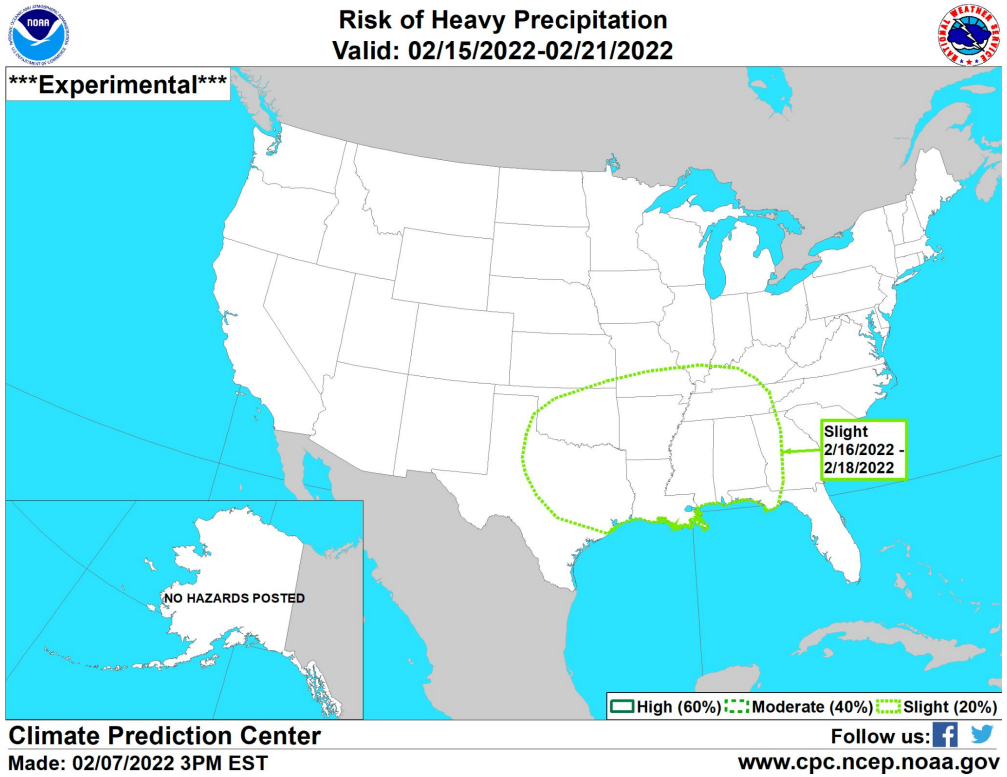


Agency - National Weather Service Weather Forecast Office

Presenter - Glen Merrill

Climate Prediction Center U.S. Week-2 Hazards Outlook





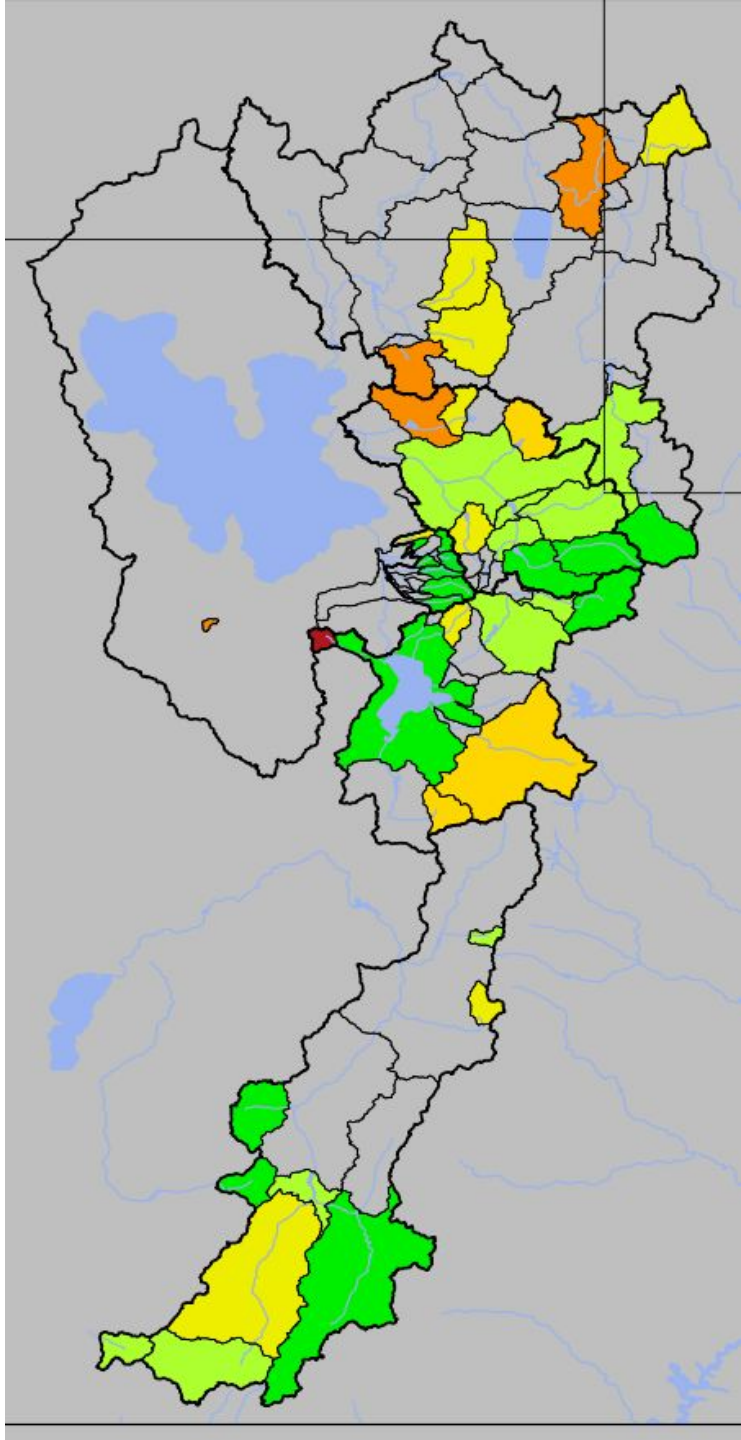
Agency - National Weather Service Weather Forecast Office
Presenter - Glen Merrill

Water Supply Forecasts / Runoff (Percent of Average)

Map of seasonal water supply forecasts
Summary of conditions at:

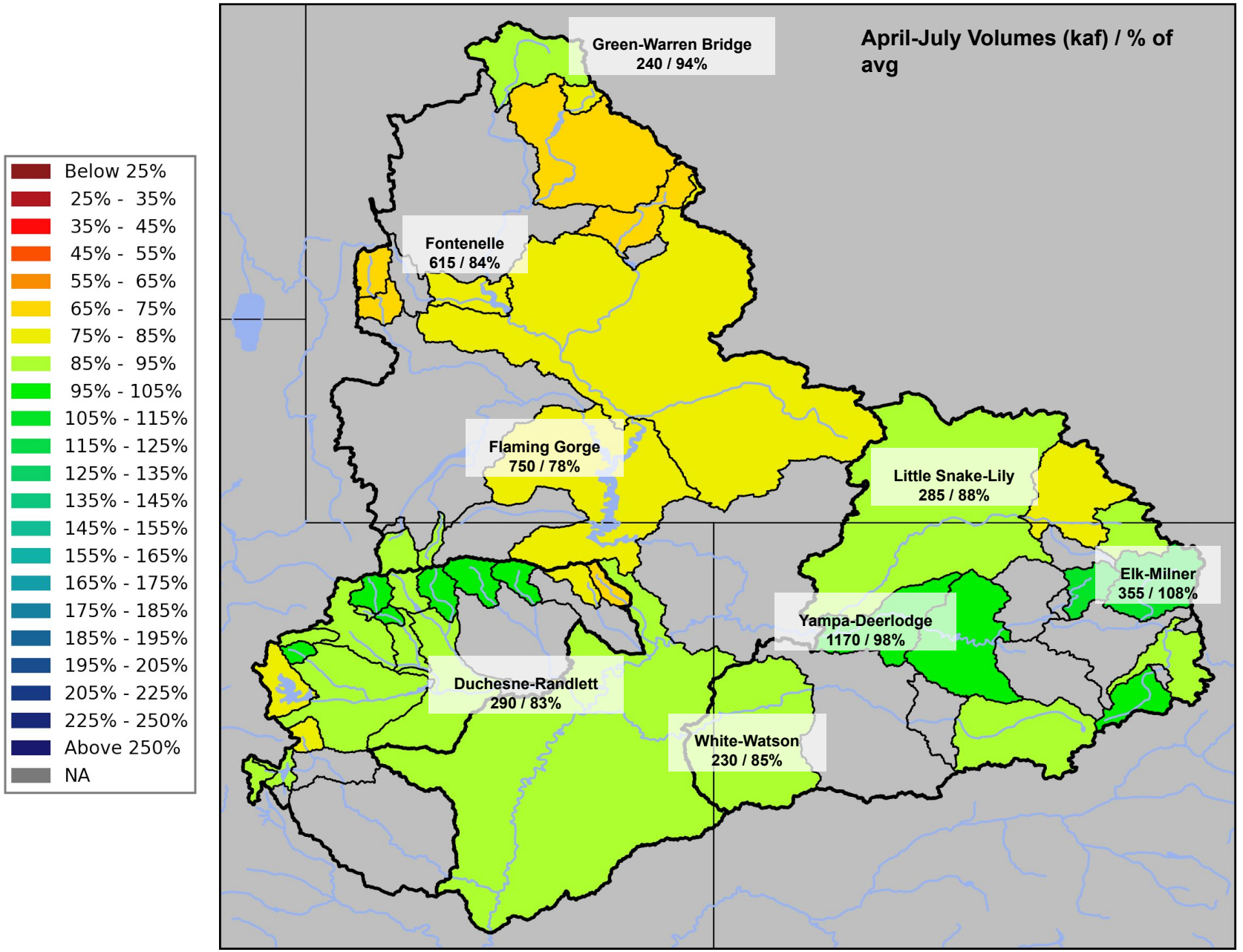
Weber
Bear
Six Creeks
Utah Lake
Sevier

Weber	85%
Bear	80%
Six Creeks	100%
Provo / Utah Lake	85%
Sevier	90%



Agency - CBRFC
Presenter - Pat Kormos

Feb 1st Water Supply Forecasts: Green, Yampa, White, Duchesne



February 1st 2022 Forecasts

Volume (kaf) / % of 1991-2020 avg

<u>Forecast Ranges & (1-month Trend)</u>

Upper Green: 65 - 95%
(0-15% decrease)

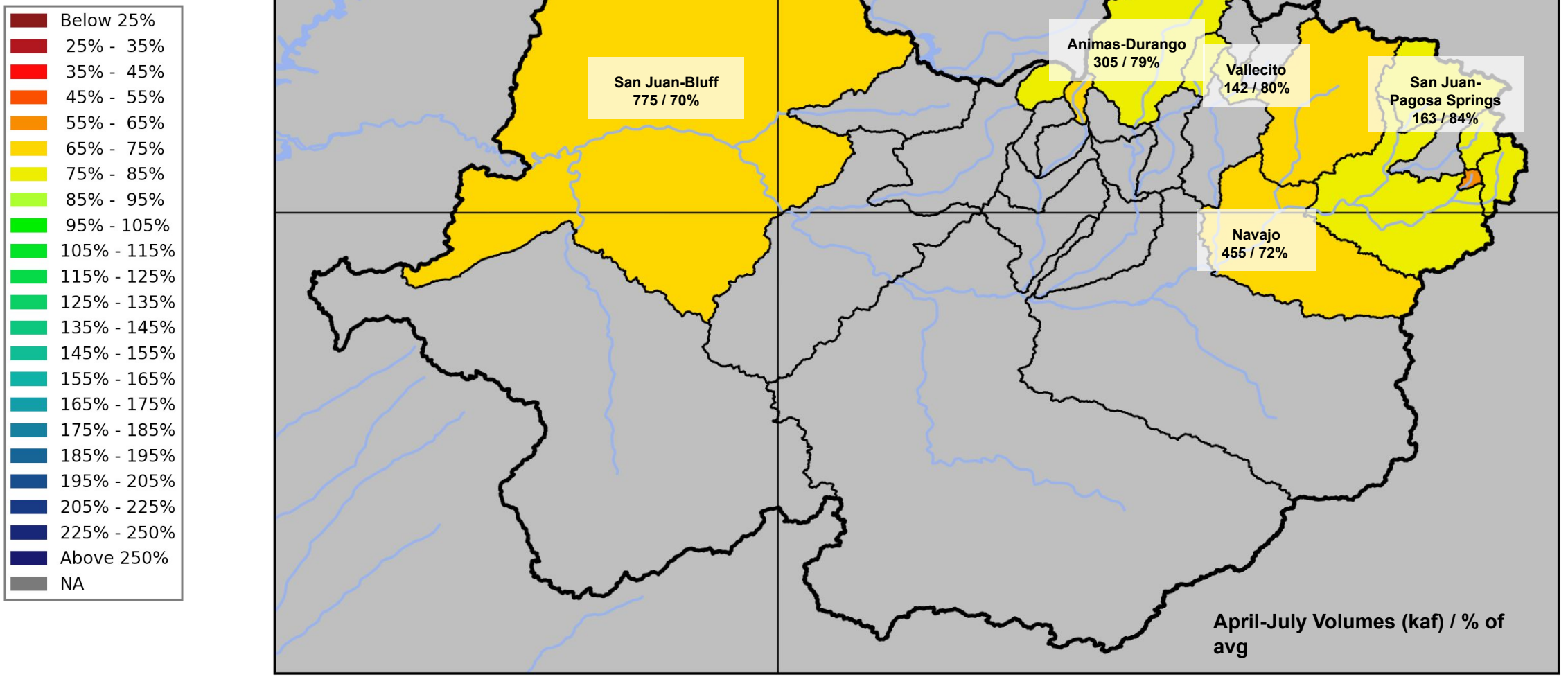
Yampa/White: 85 - 115%
(5-20% decrease)

Duchesne: 85 - 140%
(10-35% decrease)

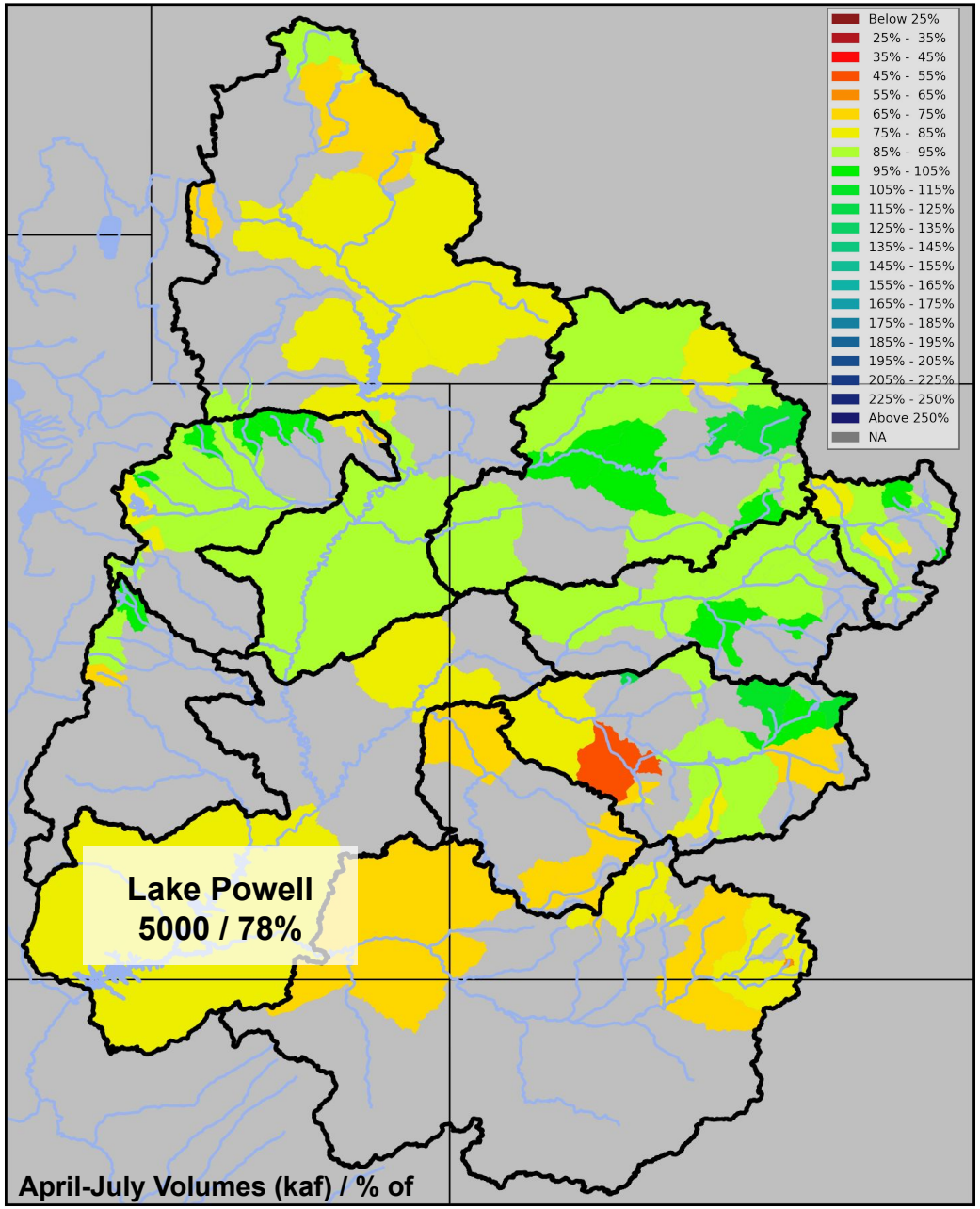
Feb 1st Water Supply Forecasts: San Juan

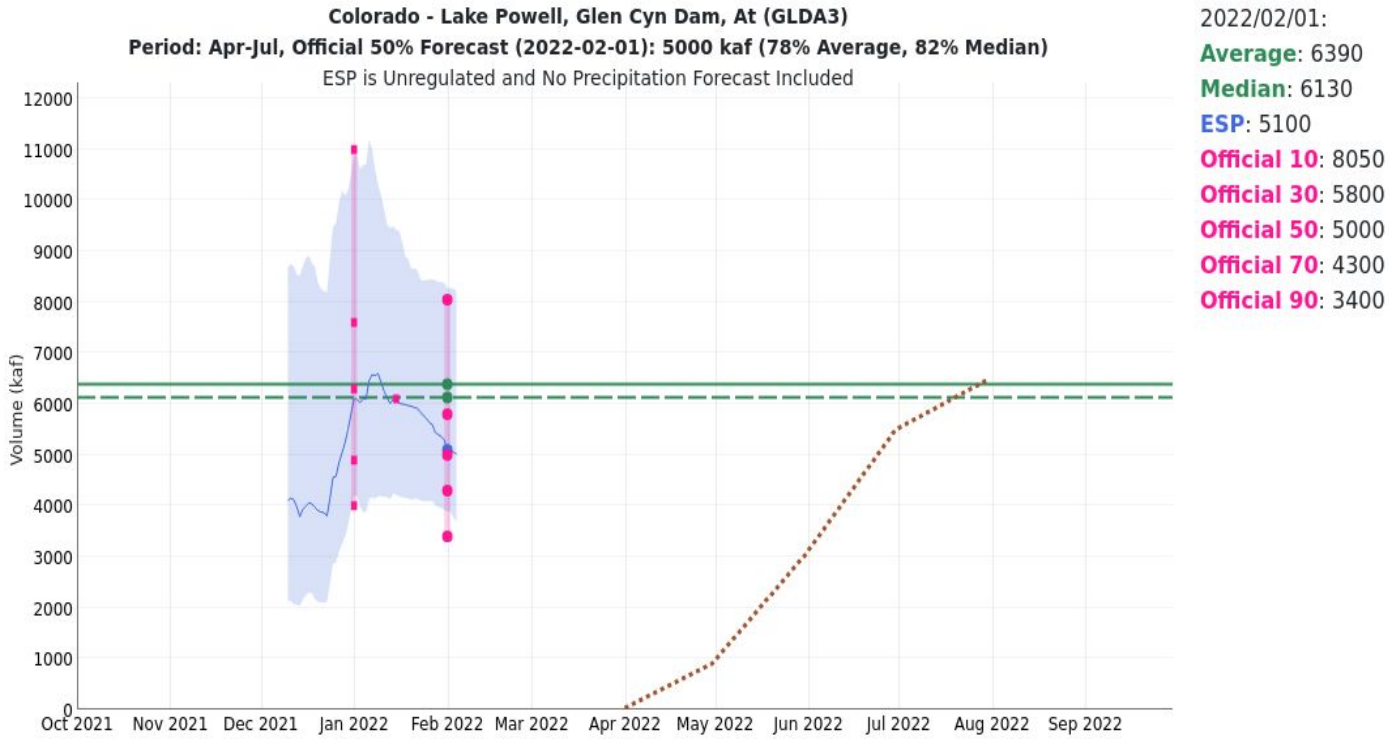
Forecast Range & (1-month Trend):

60 - 85% of average (10-20% decrease)



Feb 1st Water Supply Forecasts: Upper Colorado (Lake Powell)





Official 10: 8050 → 10% chance of exceeding 8050 KAF / 126% avg
90% chance of **NOT** exceeding 8050 KAF / 126% avg

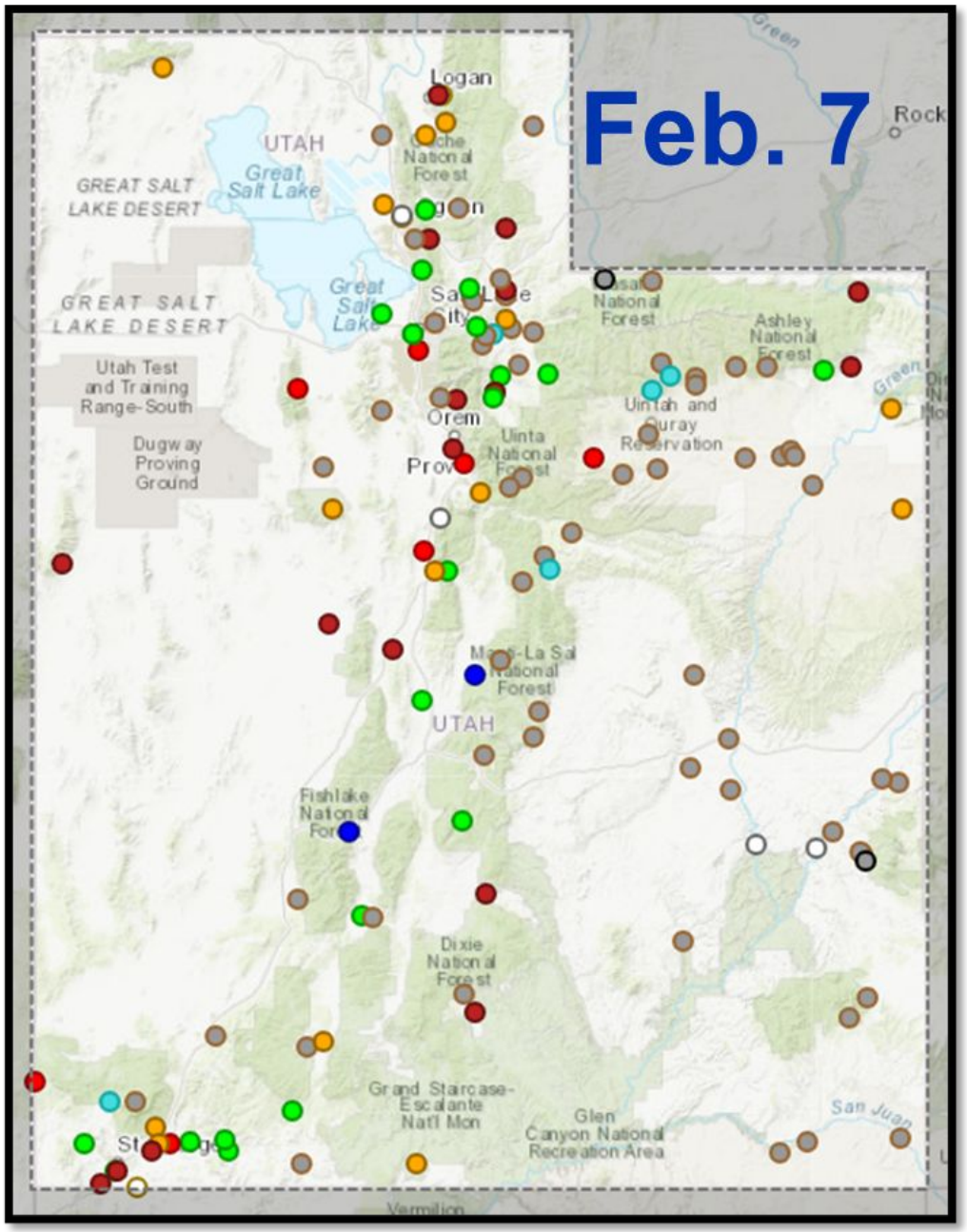
Official 30: 5800

Official 50: 5000 → 50% chance of exceeding 5000 KAF / 78% avg
50% chance of **NOT** exceeding 5000 KAF / 78% avg

Official 70: 4300

Official 90: 3400 → 90% chance of exceeding 3400 KAF / 53% avg
10% chance of NOT exceeding 3400 KAF / 53% avg

Current Streamflow Conditions

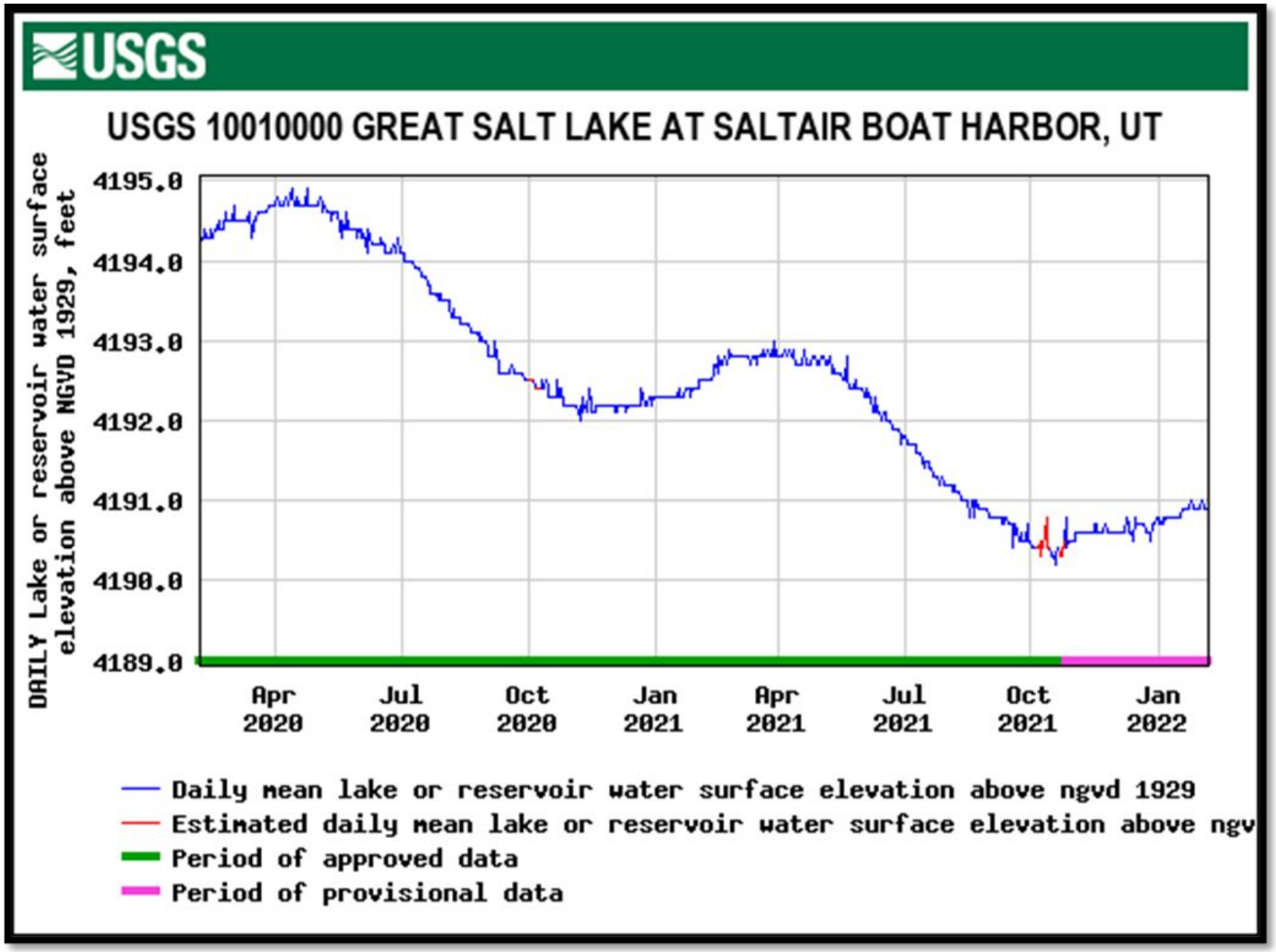


Day-of-Year Status	# Gages	% Gages
All-time high for this day-of-year	0	0.0%
Much above normal for this day-of-year	2	1.5%
Above normal for this day-of-year	5	3.6%
Normal for this day-of-year	22	16.1%
Below normal for this day-of-year	15	10.9%
Much below normal for this day-of-year	17	12.4%
All-time low for this day-of-year	7	5.1%
Not ranked - insufficient record	10	7.3%
Not ranked - no measurement	50	36.5%
Not ranked - no recent measurement	7	5.1%
Not ranked - stream not flowing	2	1.5%

Agency - USGS Utah WSC
Presenter - Ryan Rowland

USGS science for a changing world

Great Salt Lake Water Surface Elevation



- **Mean daily value 02/06/2022 = 4,190.9’**
- **4,190.2’ 10/18/2021 (new historic low)**

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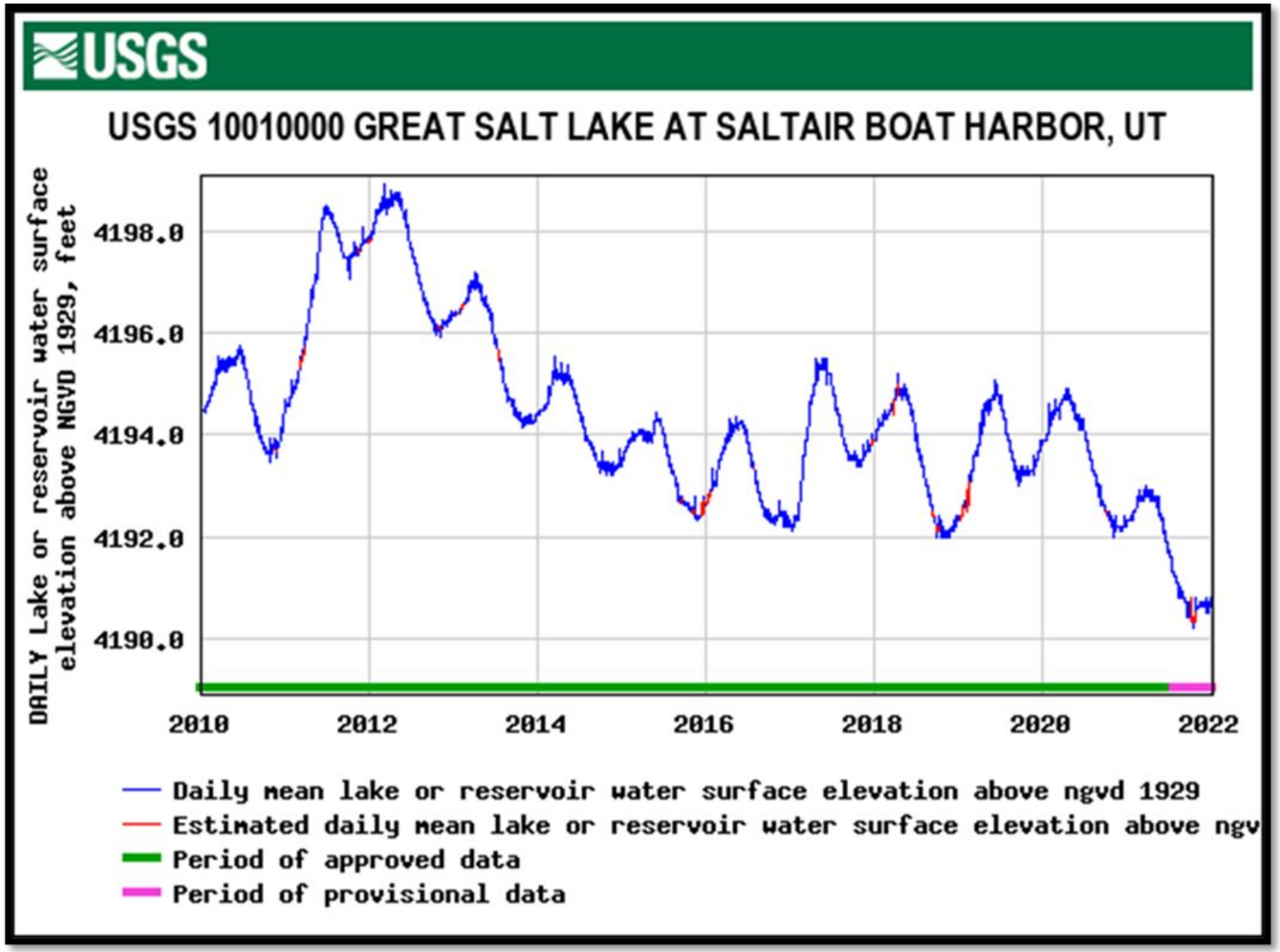
USGS science for a changing world

Great Salt Lake Water Surface Elevation



- Average seasonal increase 2.2’
- Average seasonal decrease 2.3’
- Last season’s increase 1.0’
- Last season’s decrease 2.8’

Agency - USGS Utah WSC
Presenter - Ryan Rowland

USGS science for a changing world

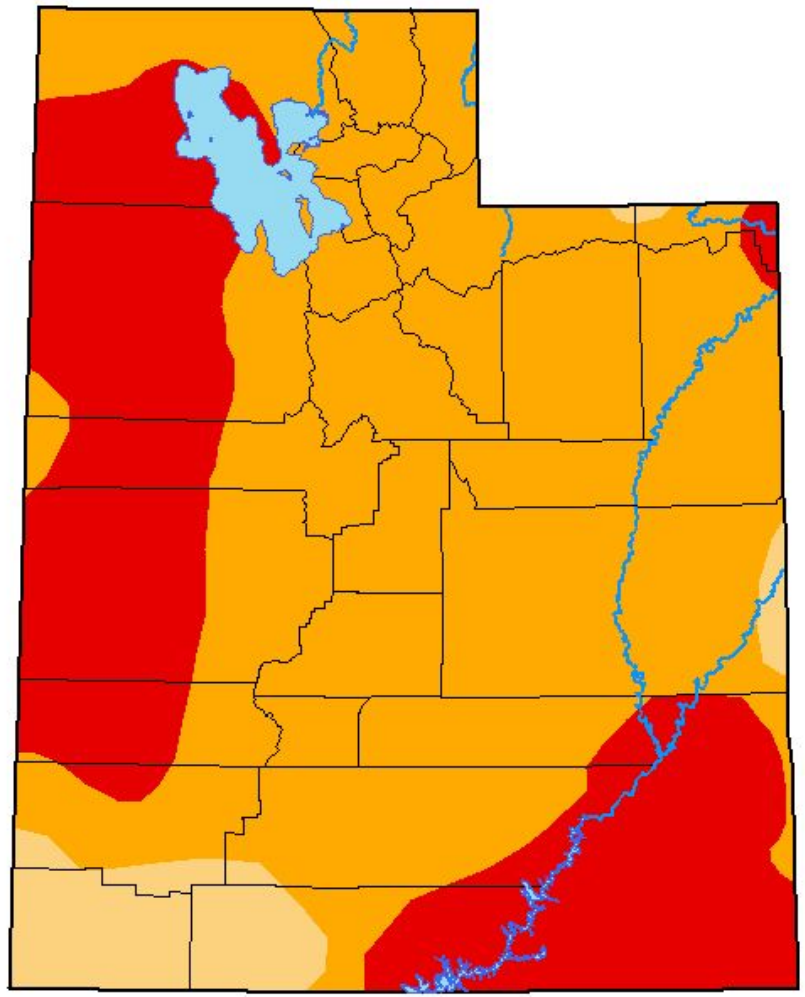
U.S. Drought Monitor

Utah

February 1, 2022

(Released Thursday, Feb. 3, 2022)

Valid 7 a.m. EST



Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme 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:

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droughtmonitor.unl.edu