

# Great Basin Seasonal Outlook April – July 2024

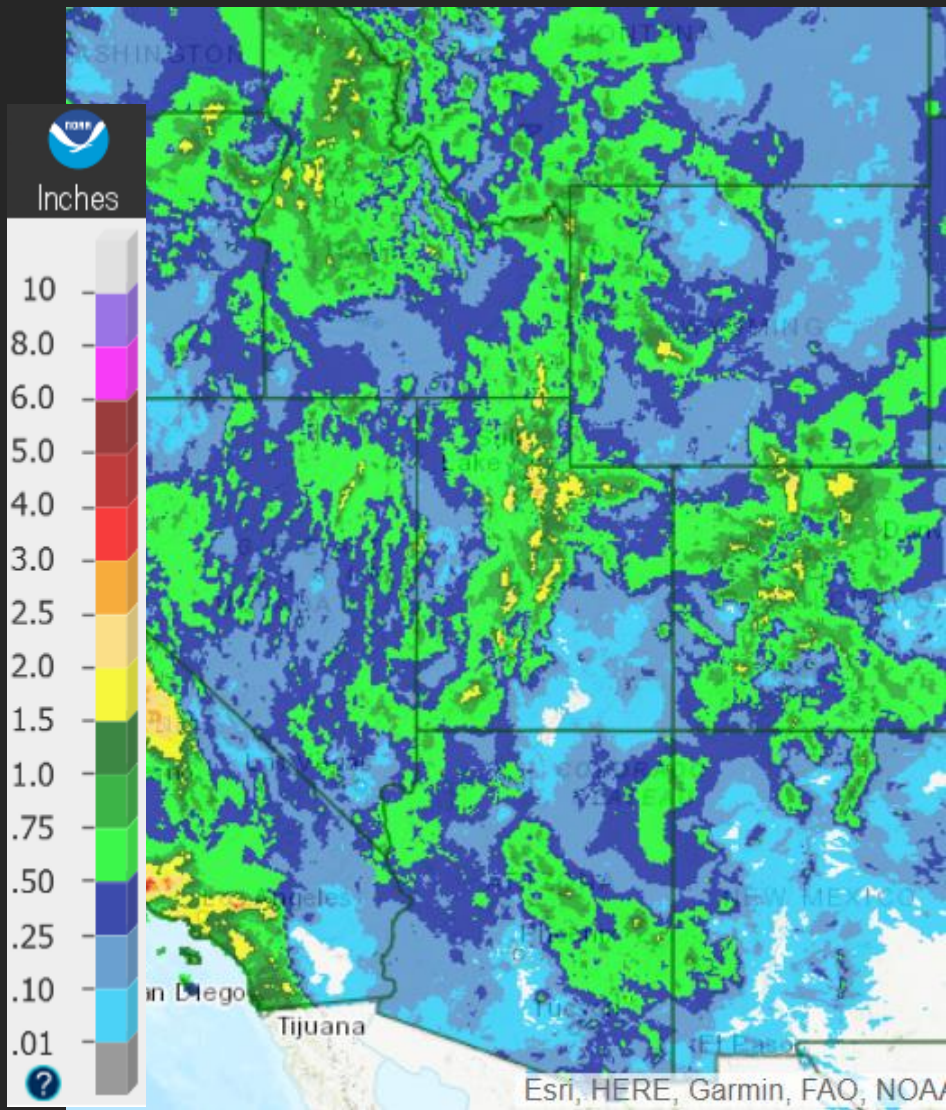


Basil Newmerzhycky   Shelby Law  
Gina Palma

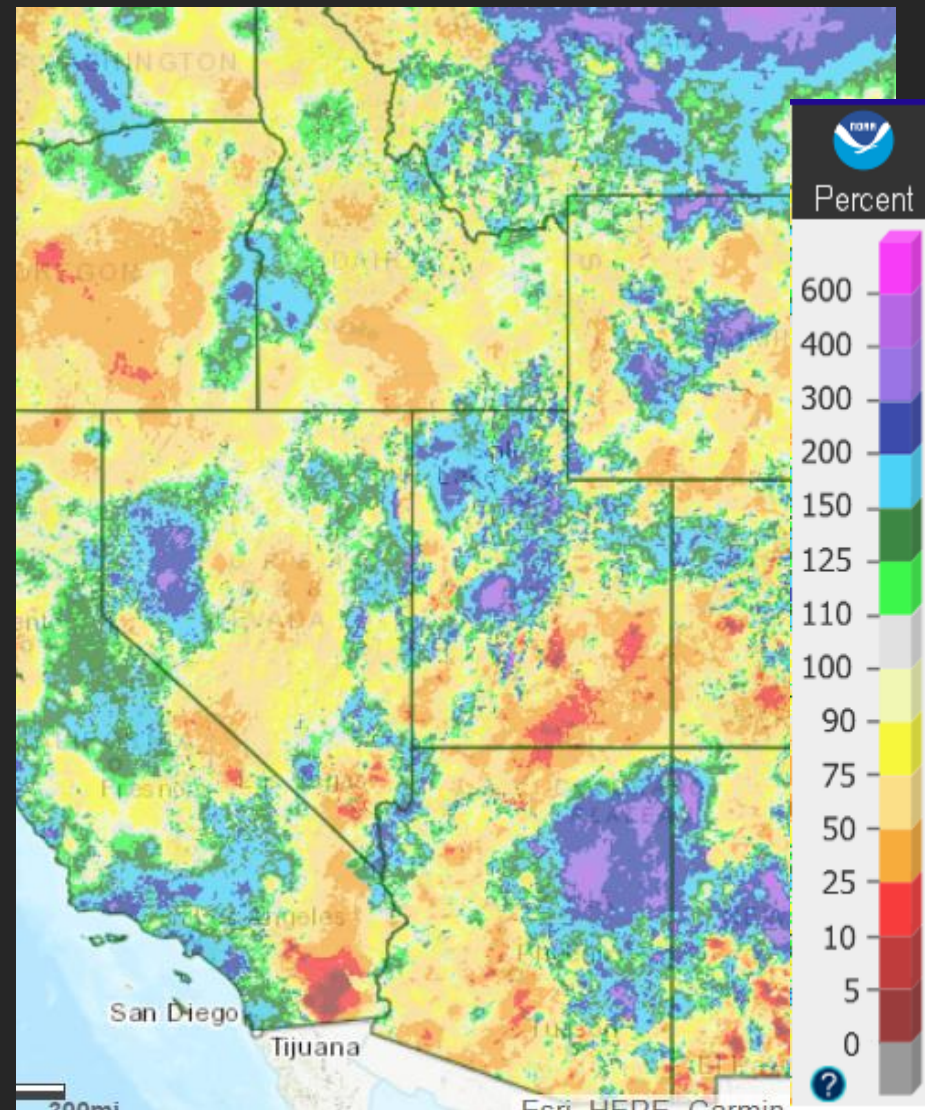


# Precipitation: Past 7-14 days

Observed – Last Week of March



Percent of Normal – Last 2 Weeks of March

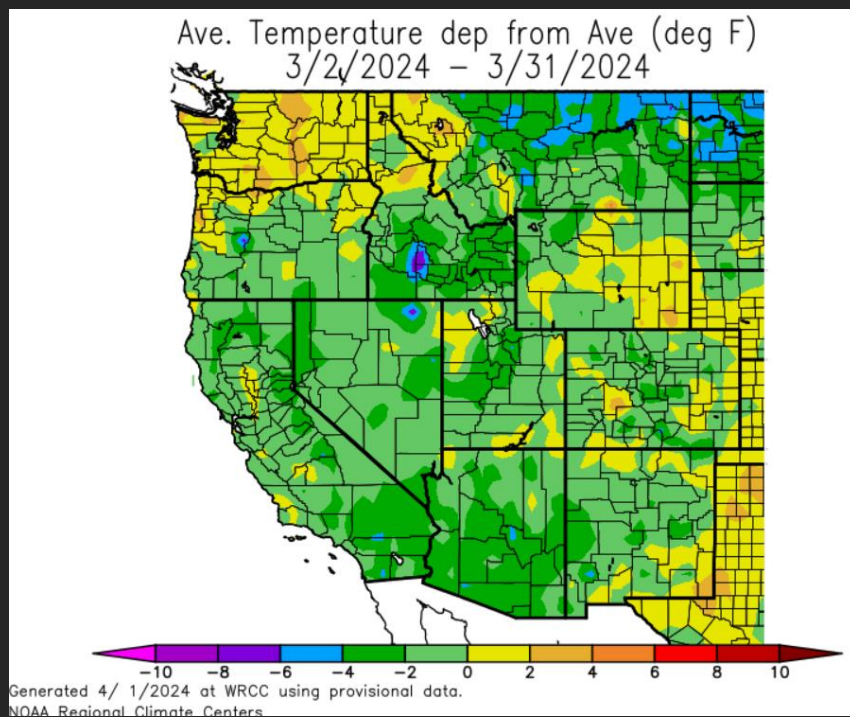




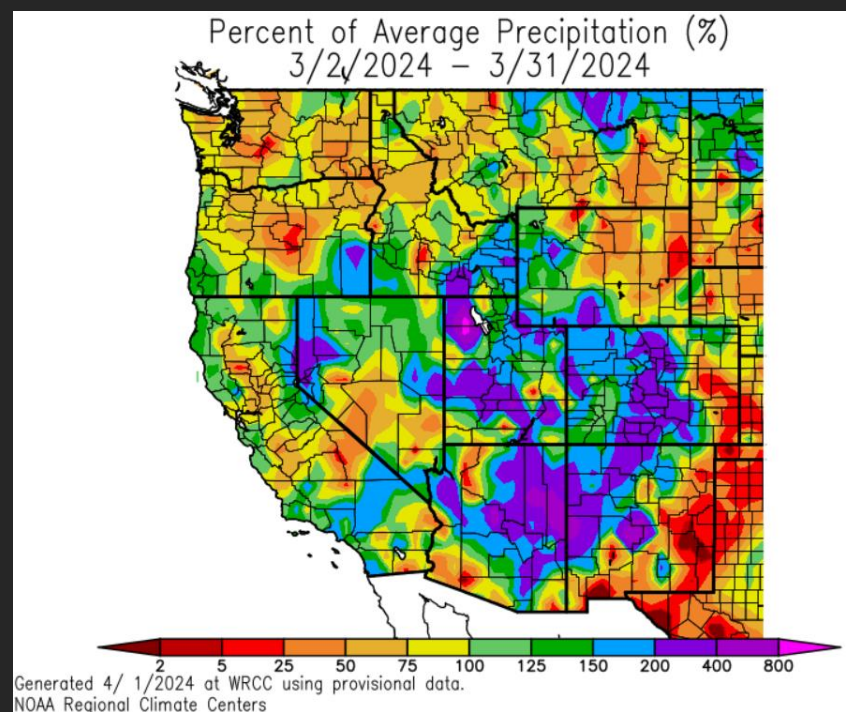
# Temperature & Precipitation

## Last 30 Days

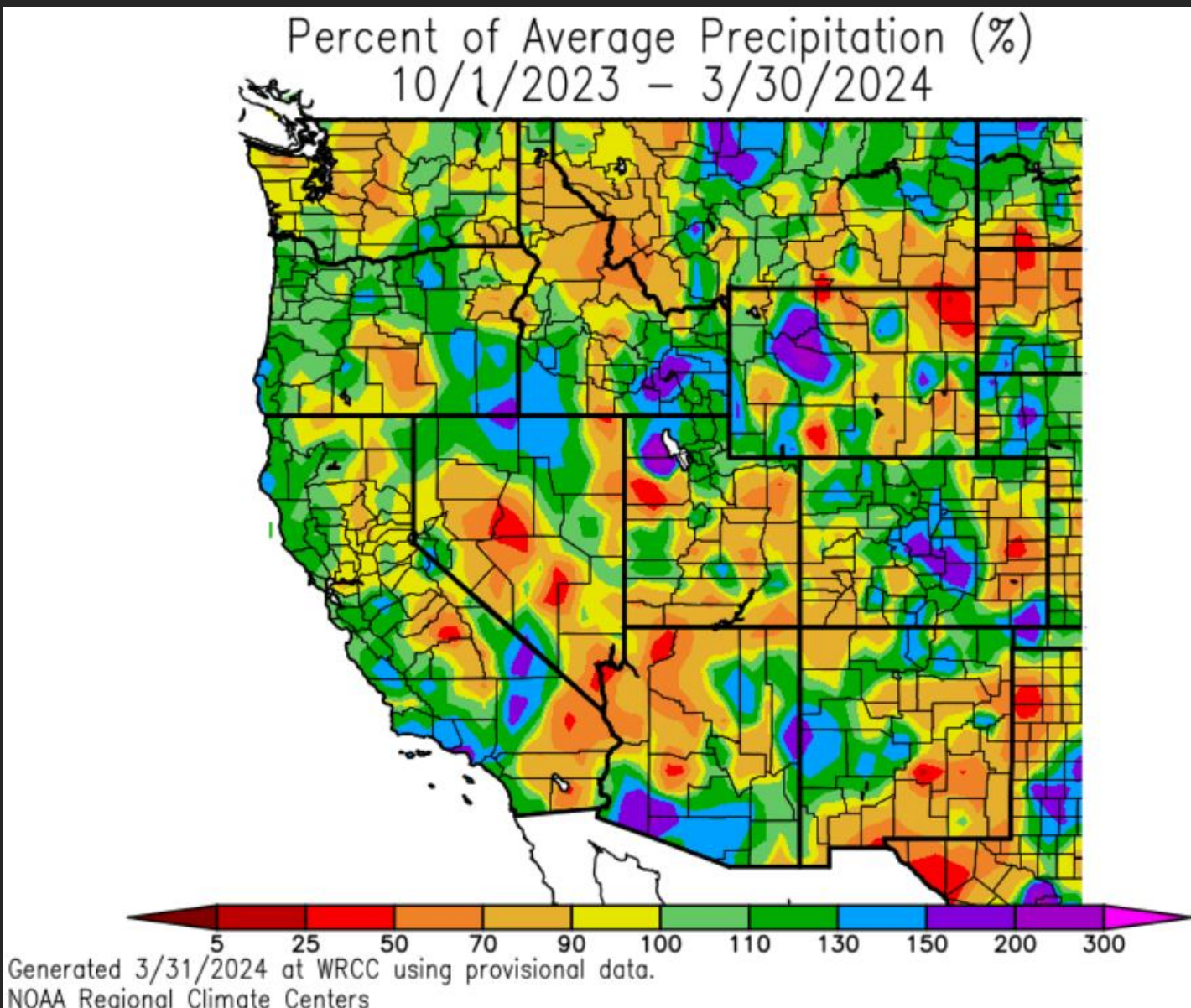
### Temperature



### Precipitation

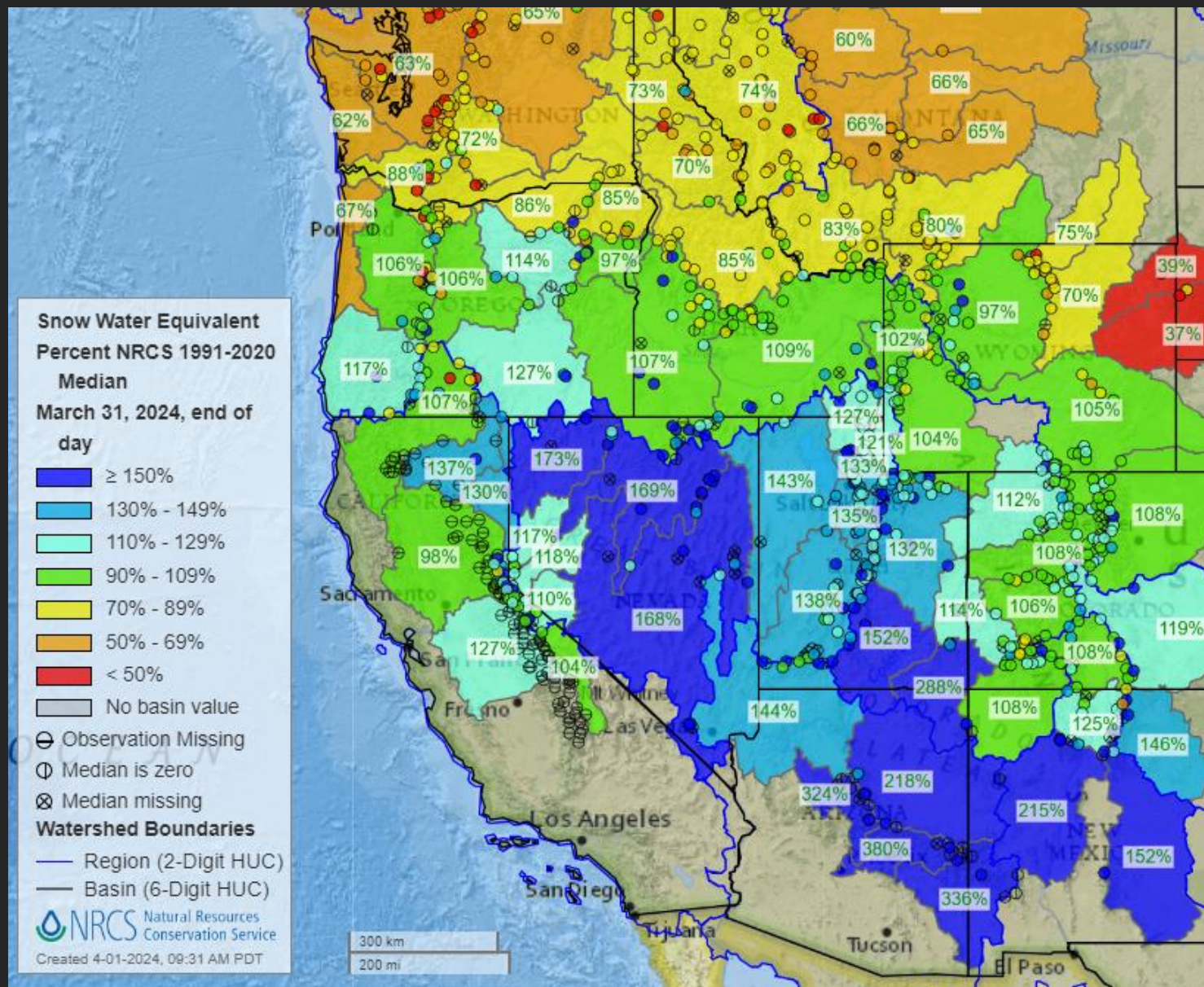


# Precipitation: Since Oct 1, 2023





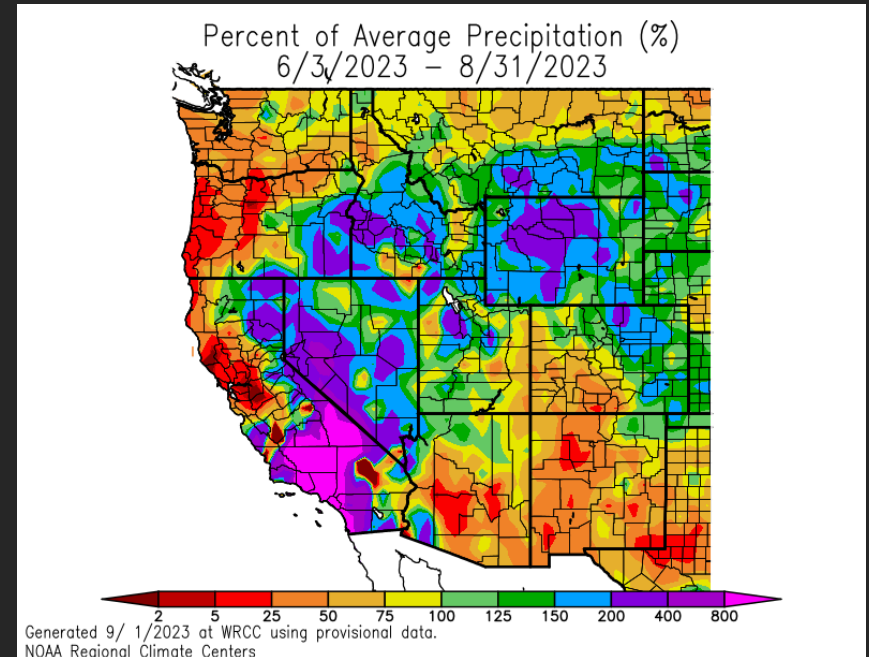
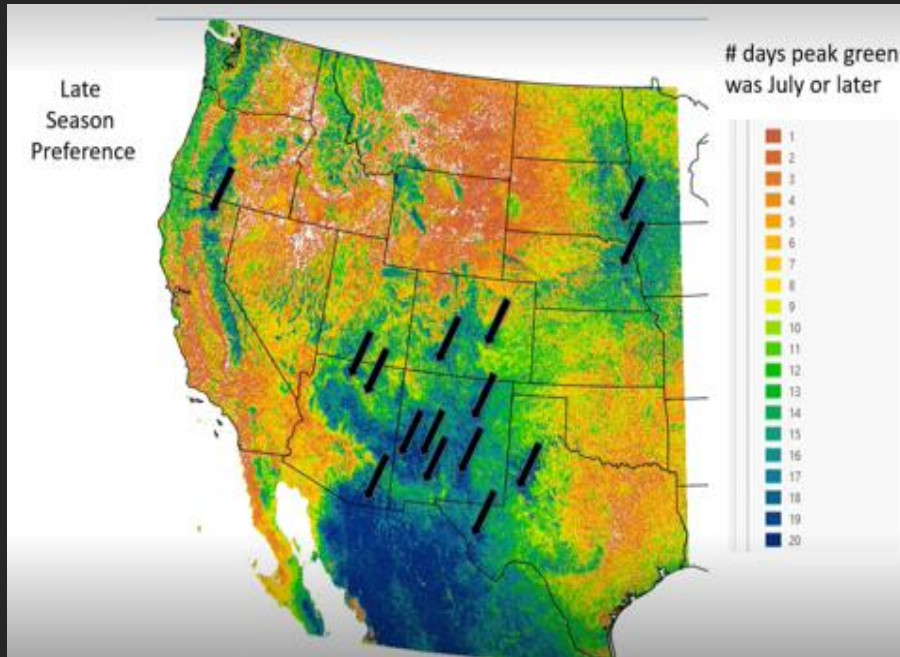
# Current Snowpack



# Precipitation for Fine Fuel Growth in Southern Areas of the Great Basin

Where Monsoon Rains Matter

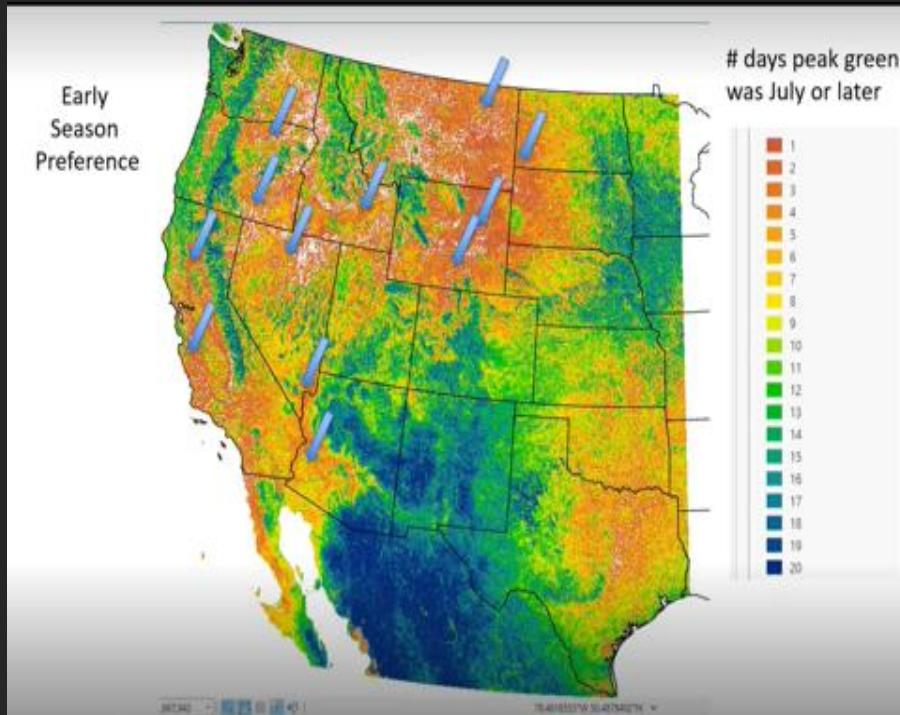
Where Precipitation Occurred in 2023 Monsoon



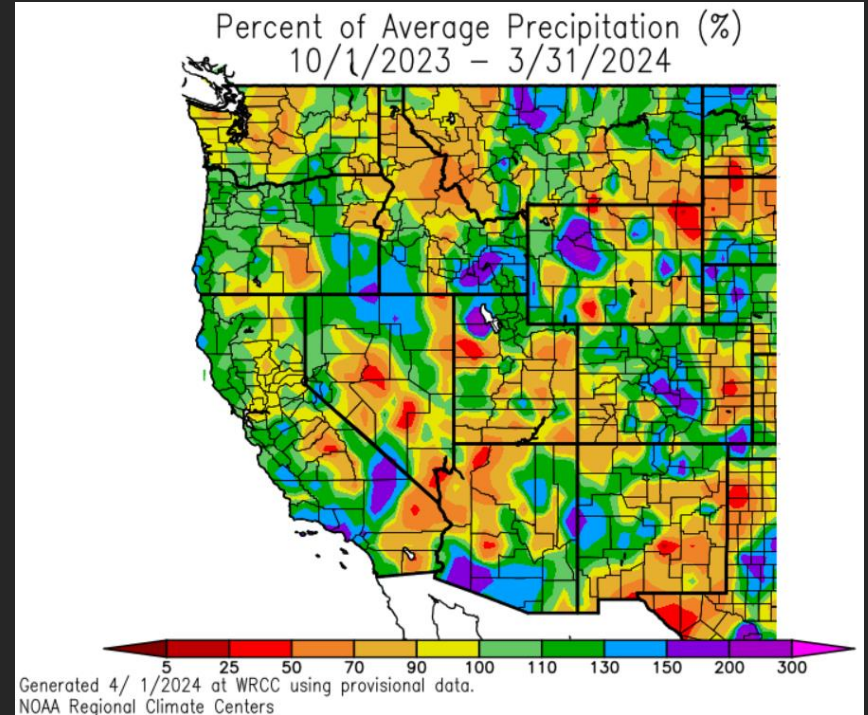


# Precipitation for Fine Fuel Growth Western and Northern Great Basin

**Where Winter/Spring Rains  
Matter**



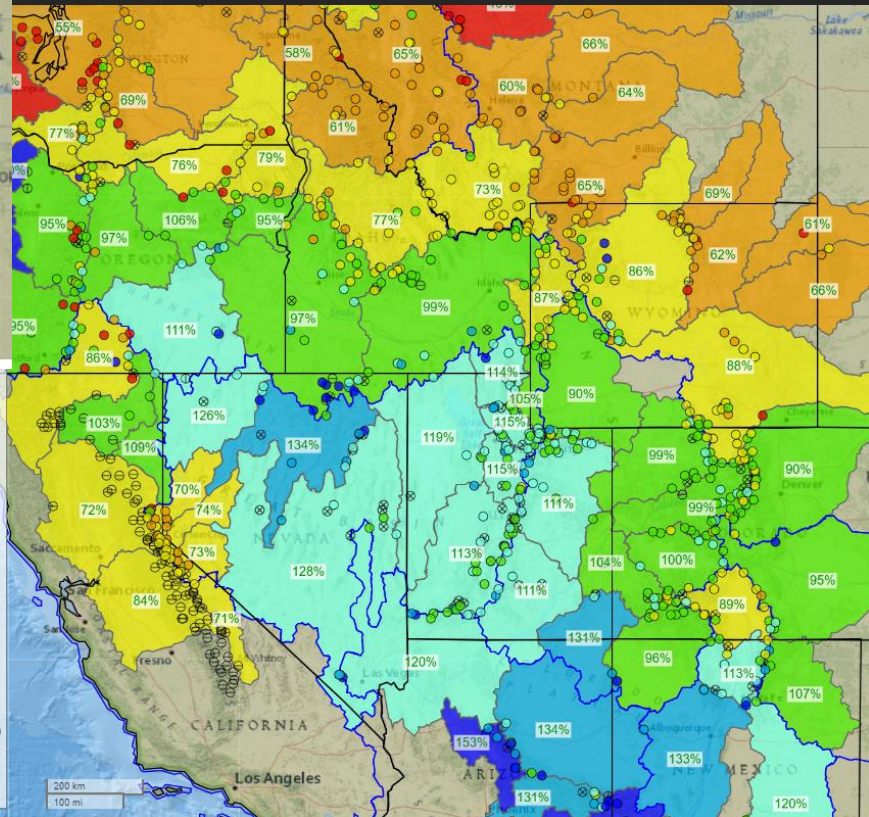
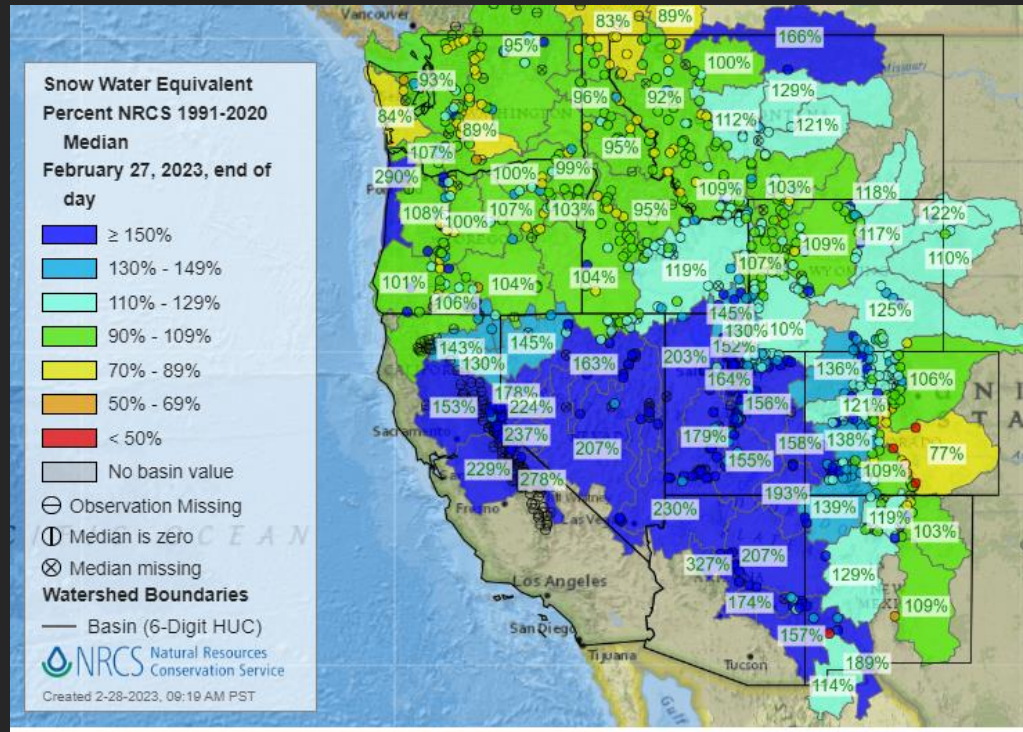
**Where Precipitation Occurred in  
2023-24 Winter/Spring**



**What about 2 winters ago?**

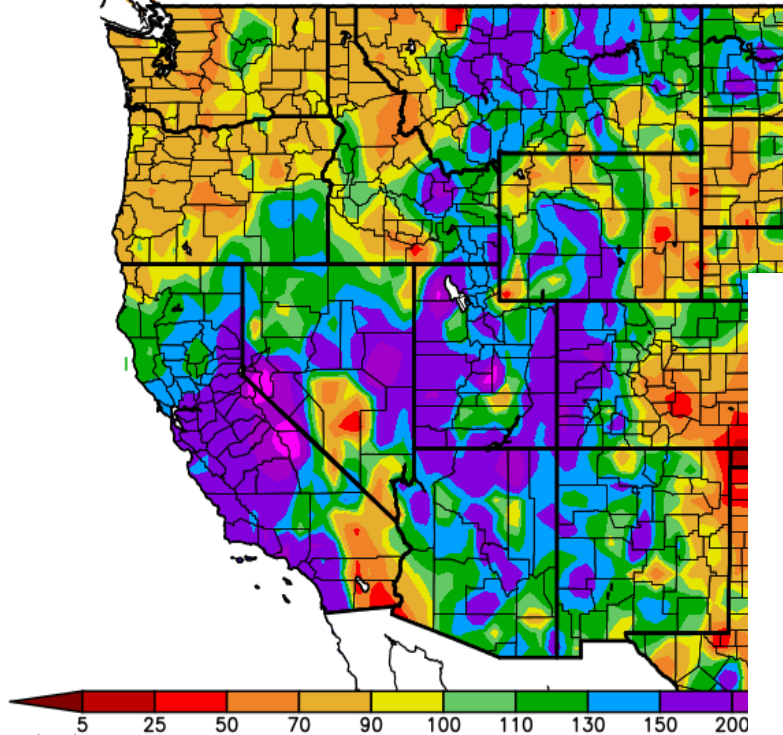


# High Snowpack 2022/23 Followed by “Normal-ish” Snowpack 2023/24



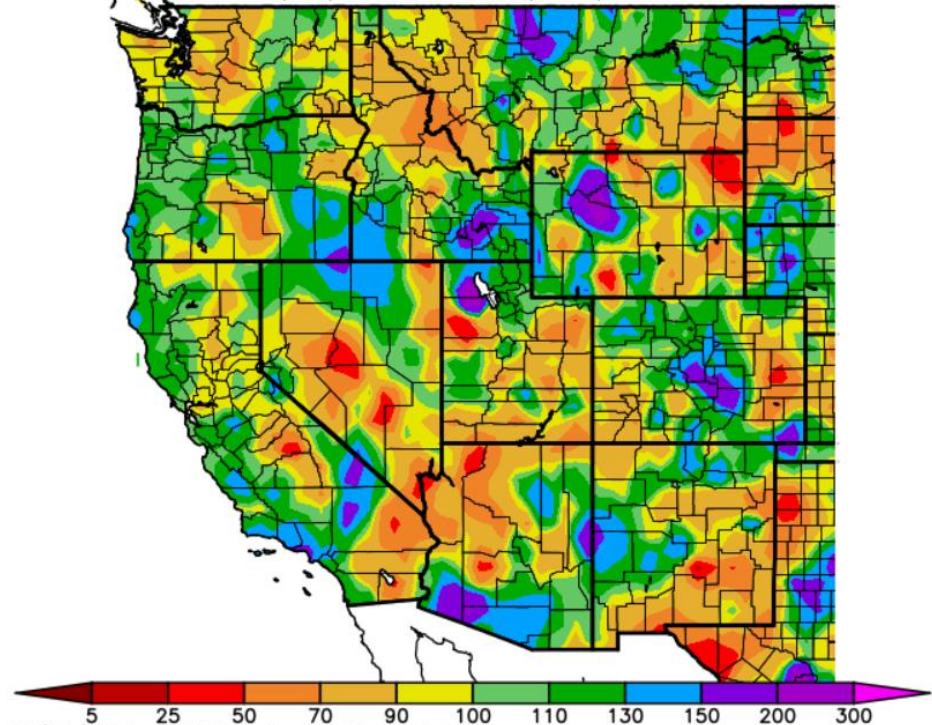
# Wet Winter 2022/23 Followed by “Below Normal-Wet” Winter 2023/24

Percent of Average Precipitation (%)  
10/1/2022 – 3/29/2023



Generated 3/30/2023 at WRCC using provisional data.  
NOAA Regional Climate Centers

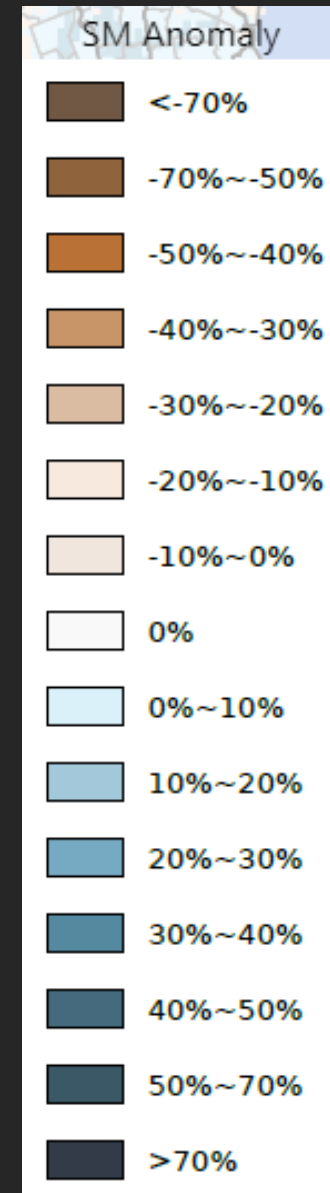
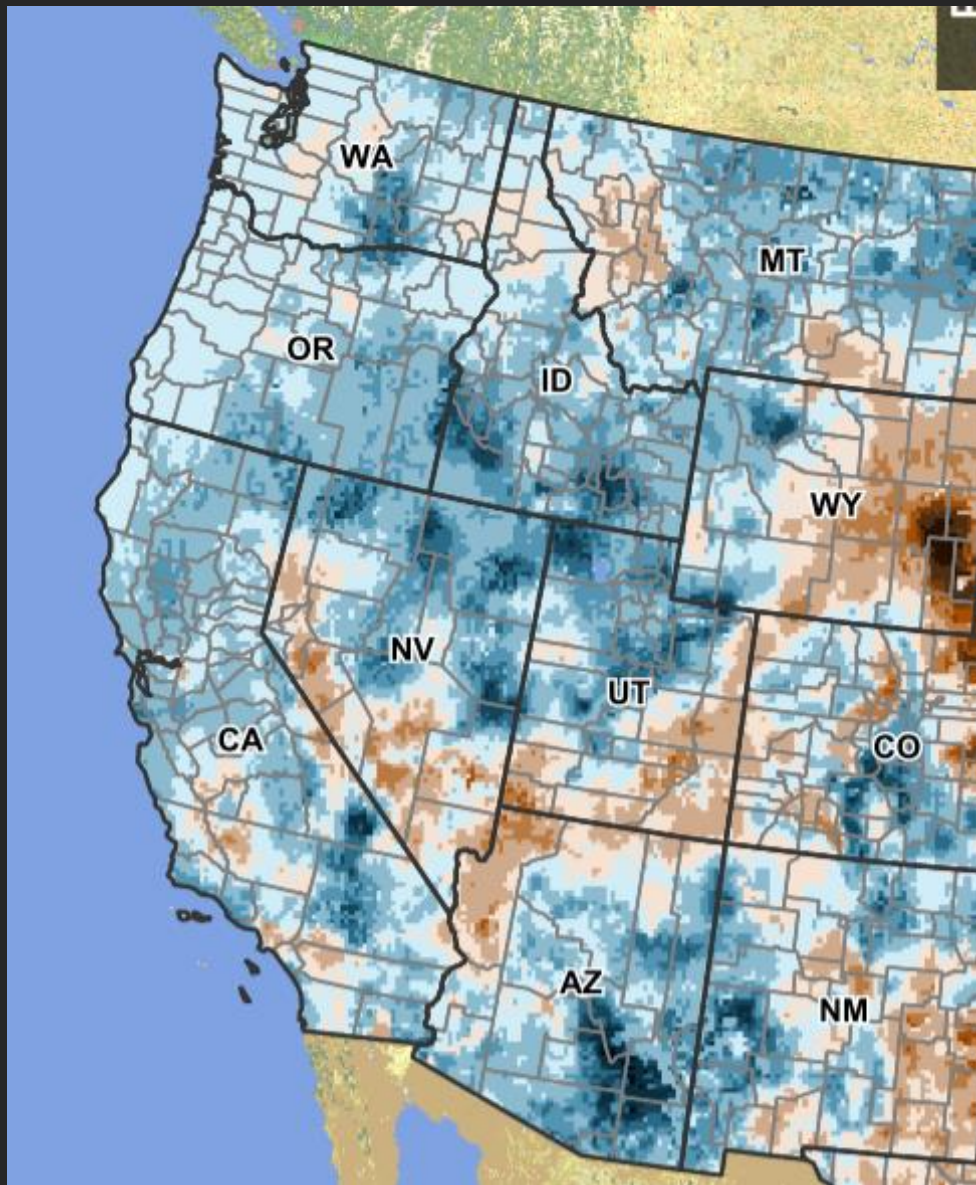
Percent of Average Precipitation (%)  
10/1/2023 – 3/30/2024



Generated 3/31/2024 at WRCC using provisional data.  
NOAA Regional Climate Centers



# Soil Moisture – March 29<sup>th</sup>, 2024



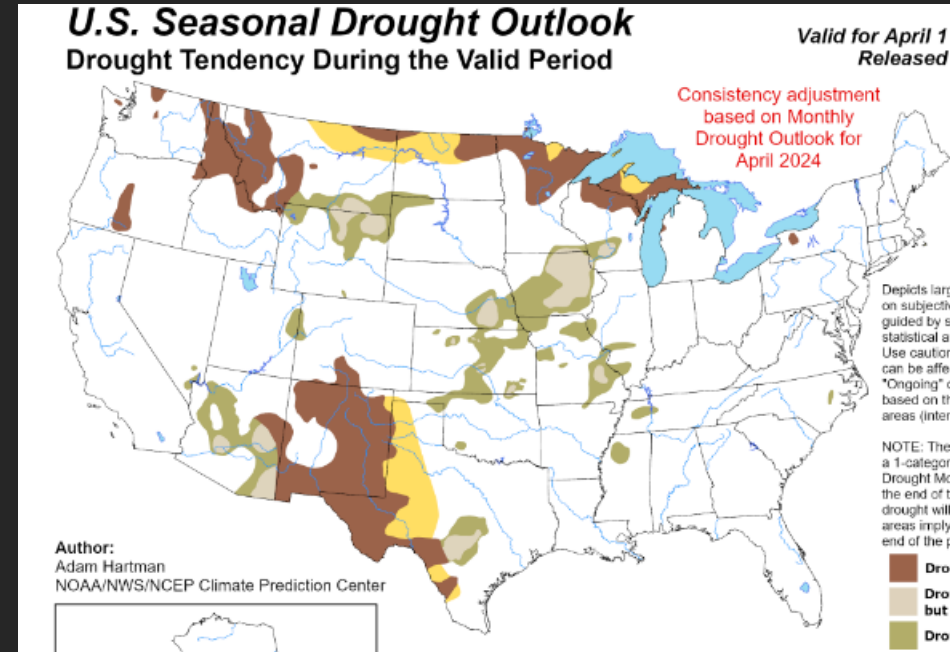
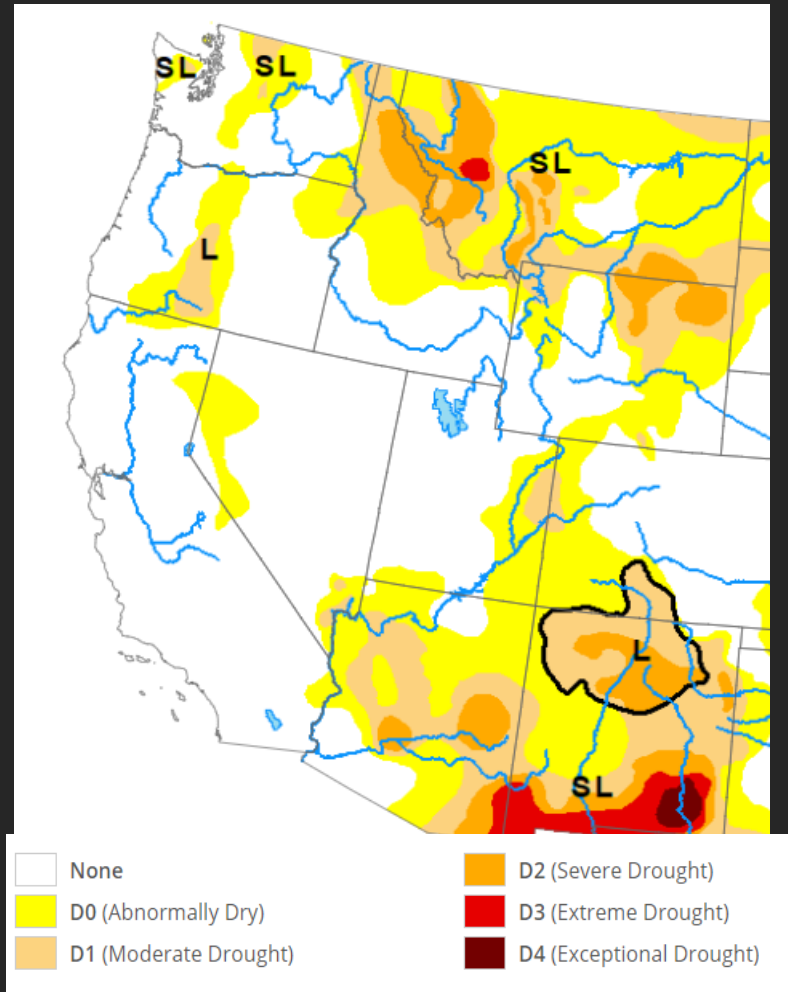
# Drought Monitor and Outlook

## Drought Monitor

March 26<sup>th</sup>, 2024

## Drought Outlook

April 1<sup>st</sup> – June 30<sup>th</sup>, 2024



### KEY:

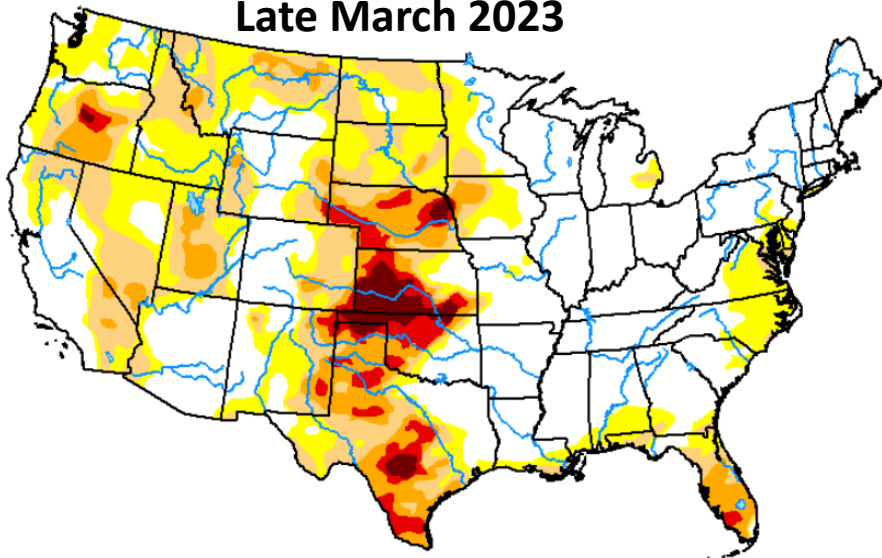
- Drought persists or intensifies
- Drought remains but improves
- Drought removal likely
- Drought development likely



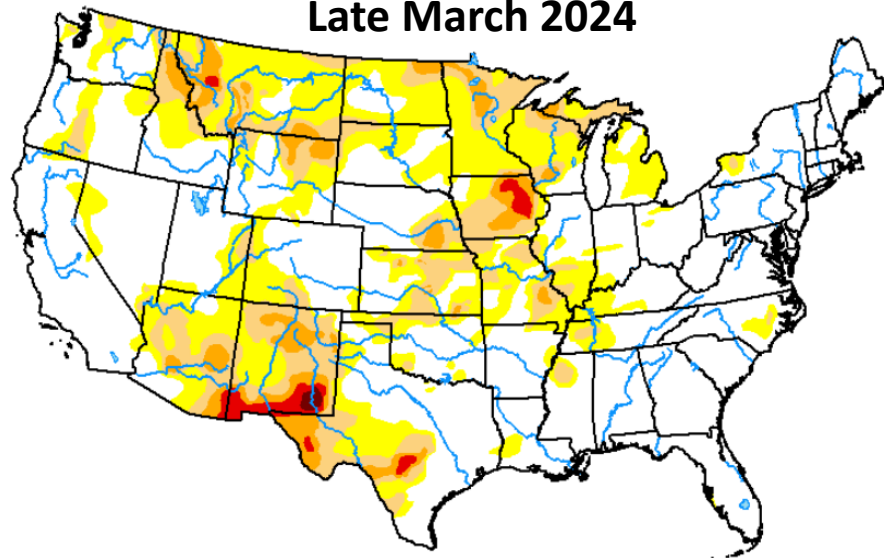
# Drought Comparison 2024 vs 1 Year Ago

**Drought Category improved by 2 to 3 “Levels” past 12 months**

**Late March 2023**



**Late March 2024**



## Drought Classification

None

D0 (Abnormally Dry)

D1 (Moderate Drought)

D2 (Severe Drought)

D3 (Extreme Drought)

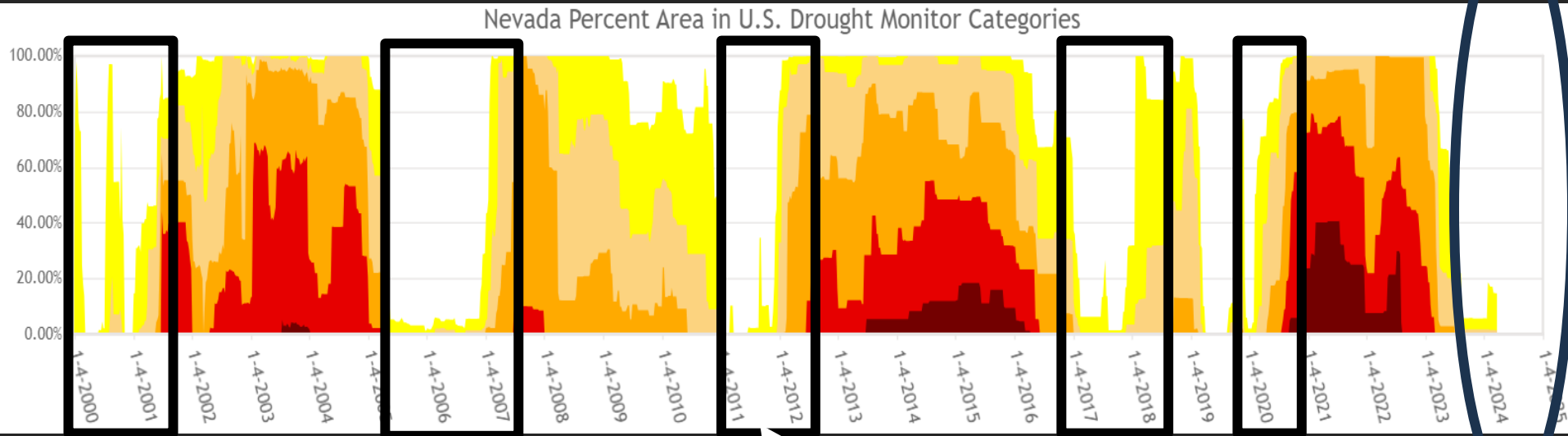
D4 (Exceptional Drought)

No Data

# Nevada

2024

2020 was an ok year  
Above median



2005 was only well above  
normal for Srn NV and Srn Ely

Season didn't start until  
lightning bust in late September  
2011

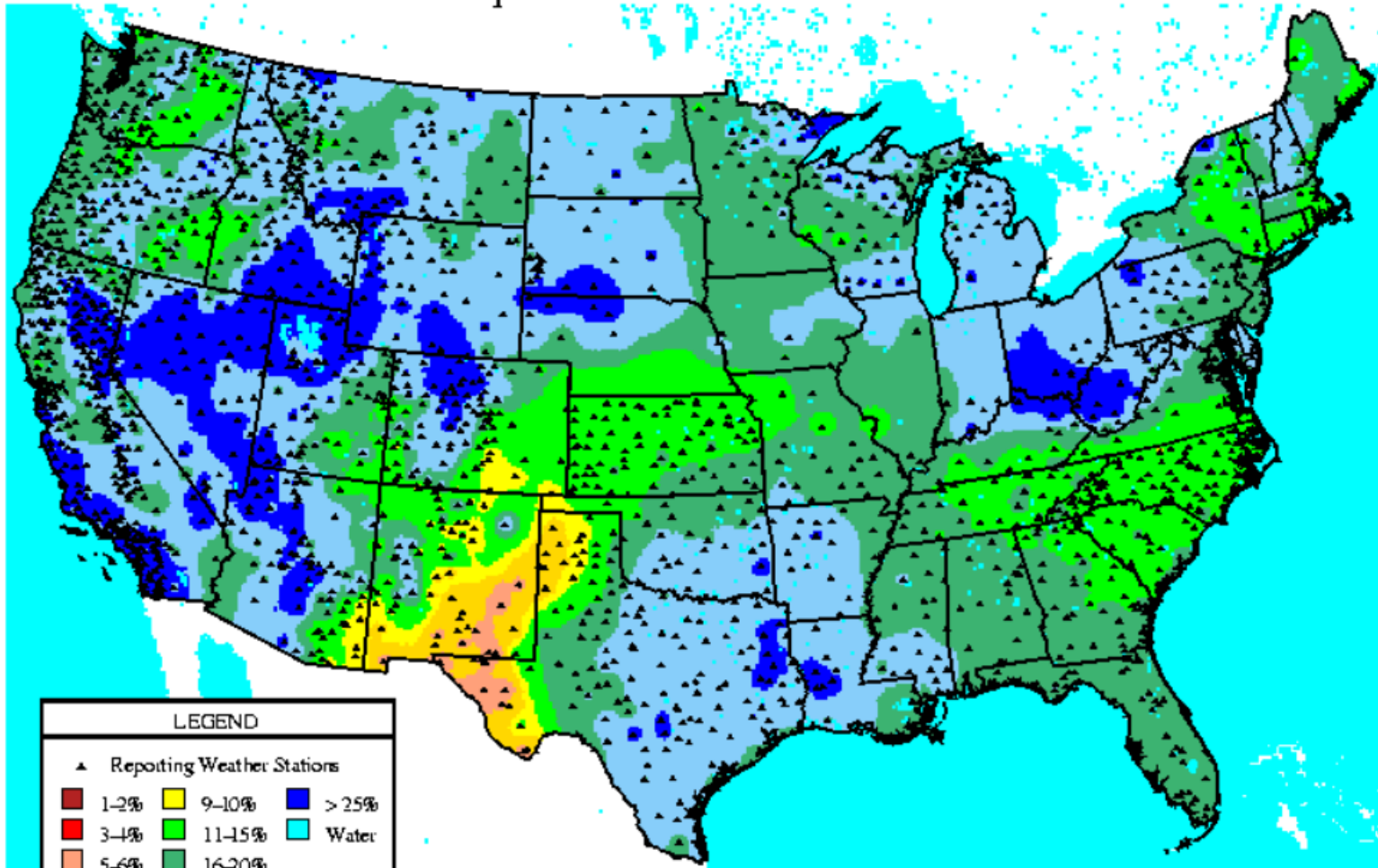


# Fuels



# 10 Hour Fuel Moisture

Obs. or Computed 10-Hour FM: 31-Mar-24



LEGEND		
▲ Reporting Weather Stations		
1-2%	9-10%	>25%
3-4%	11-15%	Water
5-6%	16-20%	
7-8%	21-25%	

(Inv. Dist.<sup>2</sup> Interp.)

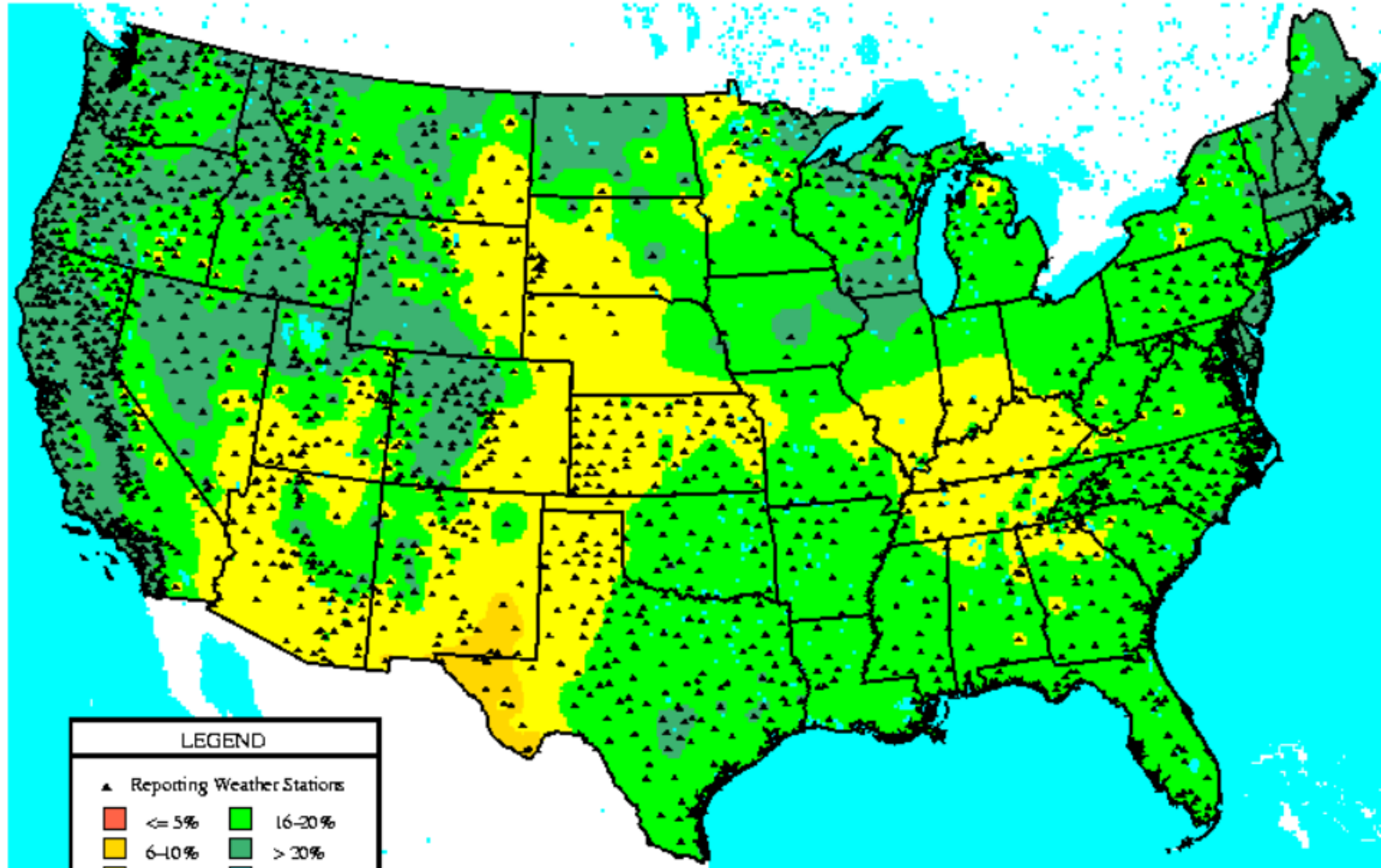
WFAS-MAPS Graphics FIRE BEHAVIOR RESEARCH MISSOULA, MT





# 100 Hour Fuel Moisture

Obs. 100-Hour FM: 31-Mar-24



(Inv. Dist.<sup>2</sup> Interp.)

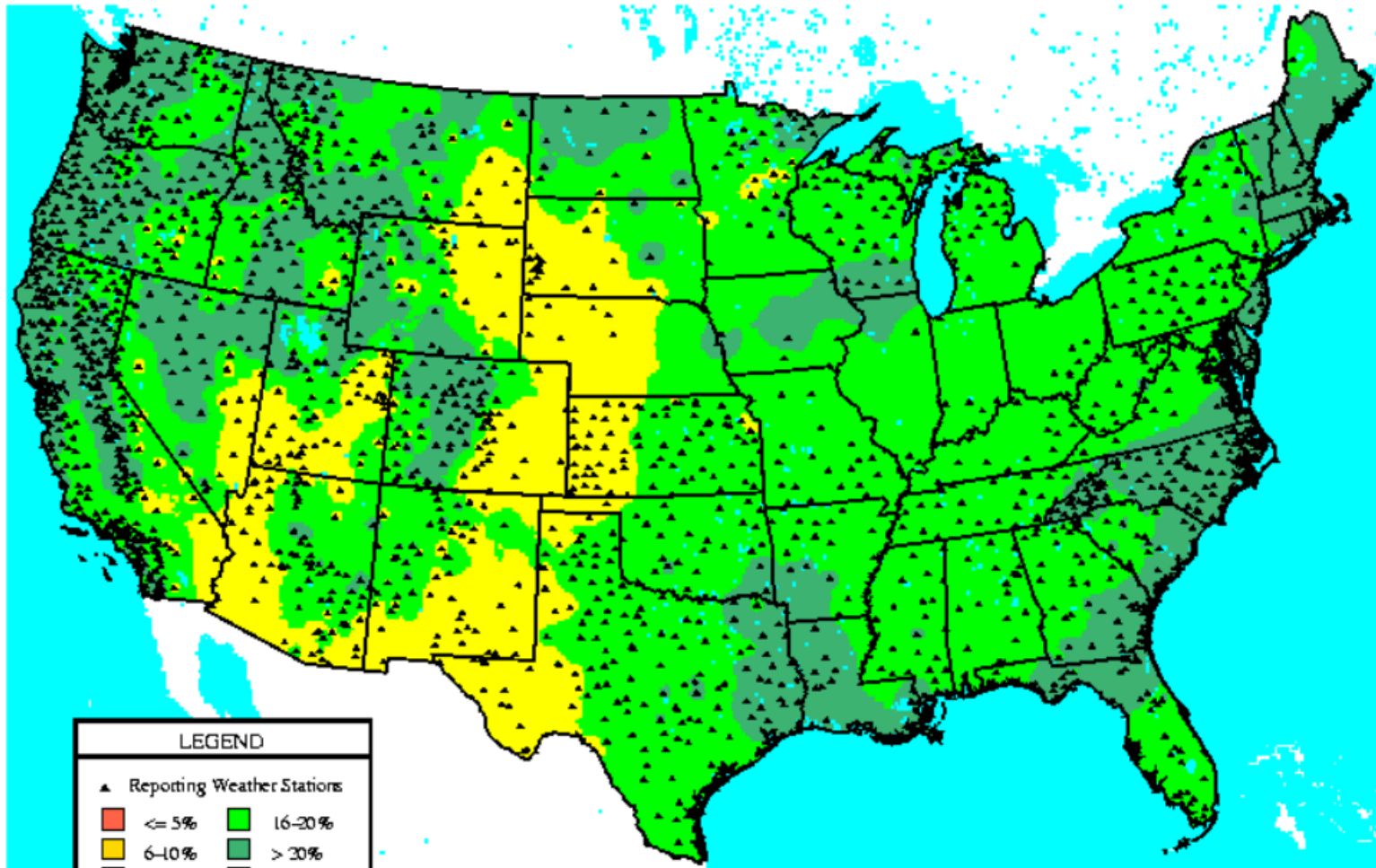
WFAS-MAPS Graphics FIRE BEHAVIOR RESEARCH MISSOULA, MT





# 1000 Hour Fuel Moisture

Obs. 1000-Hour FM: 31-Mar-24



(Inv. Dist.<sup>2</sup> Interp.)

WFAS-MAPS Graphics FIRE BEHAVIOR RESEARCH MISSOULA, MT



**Drought, Weather  
Fuels, Snowpack:**

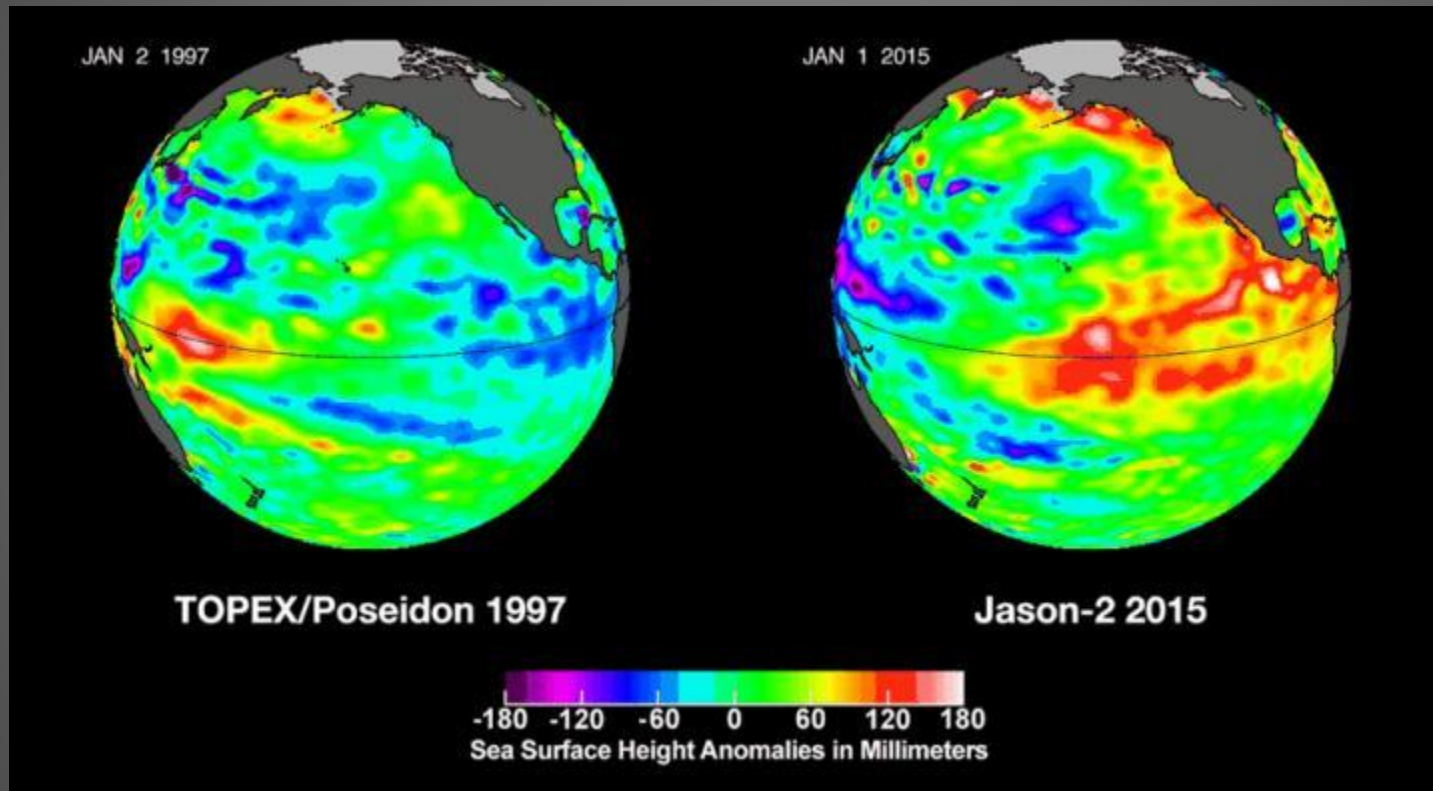
**What Happens  
From Here?**



# La Nina? El Nino? La Nada?

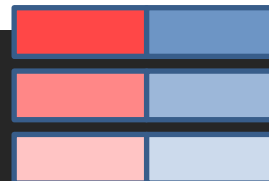
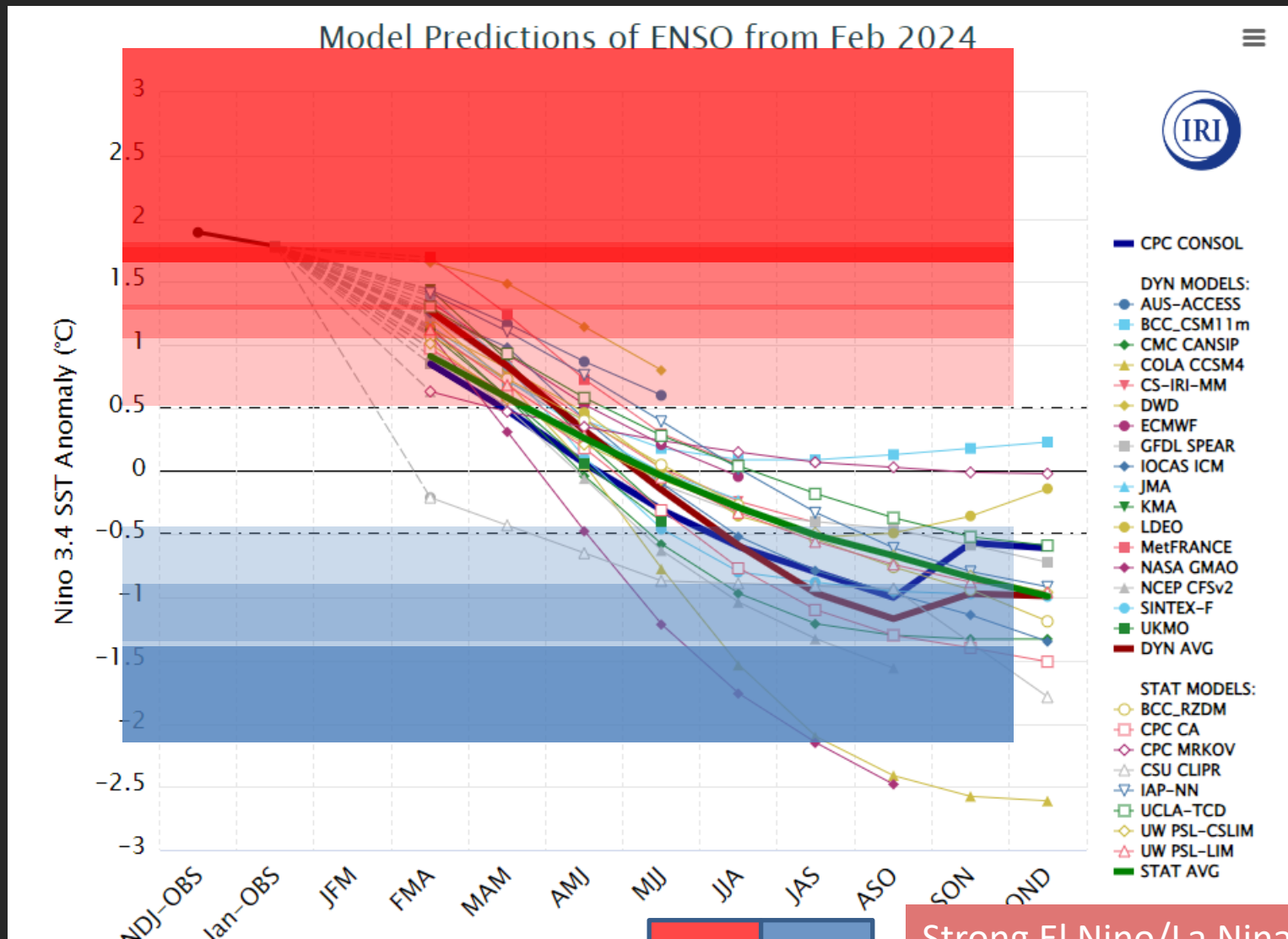
## La Nina

## El Nino





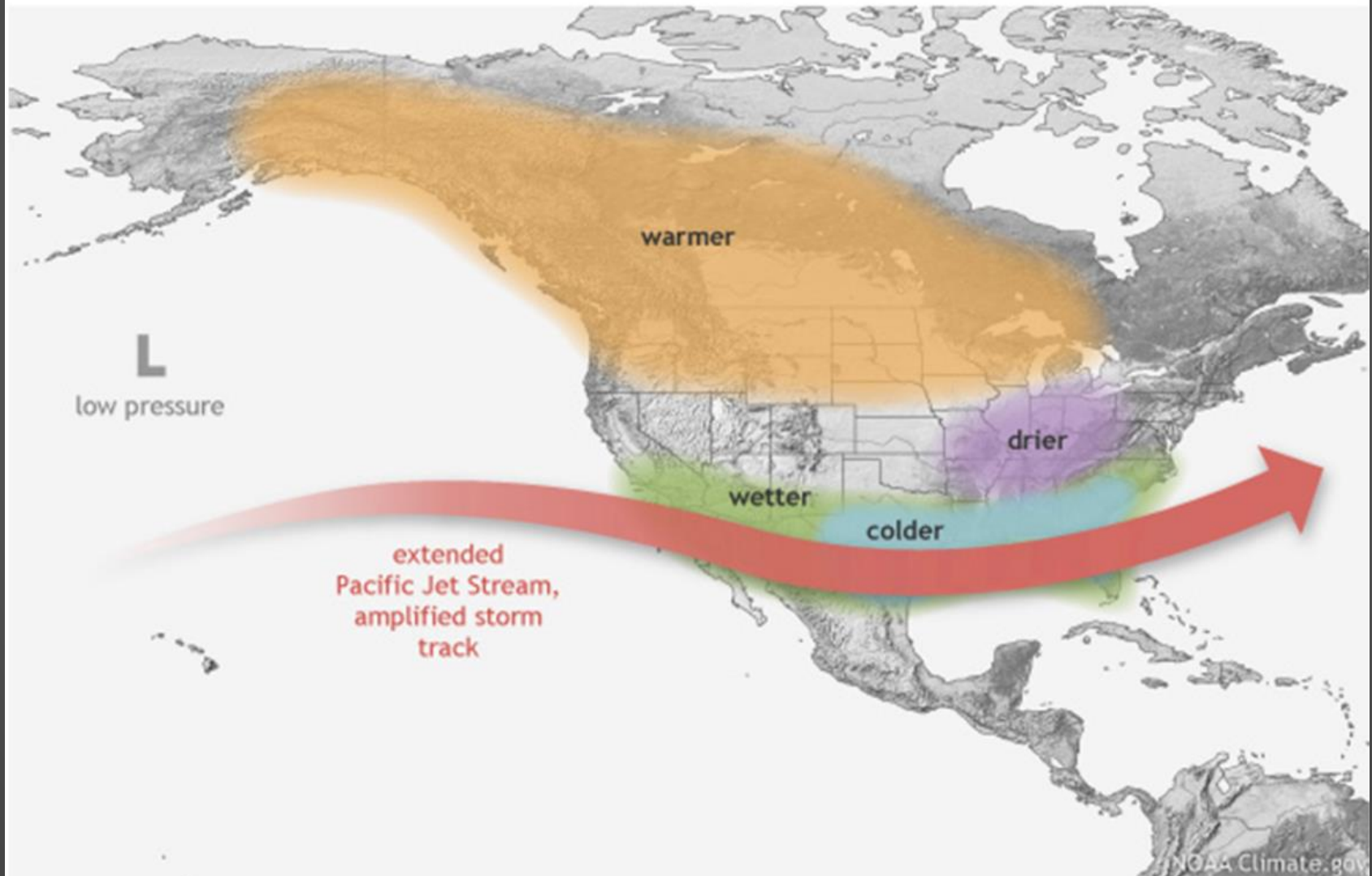
# El Nino/Neutral/La Nina



Strong El Nino/La Nina  
Moderate El Nino/La Nina  
Weak El Nino/La Nina

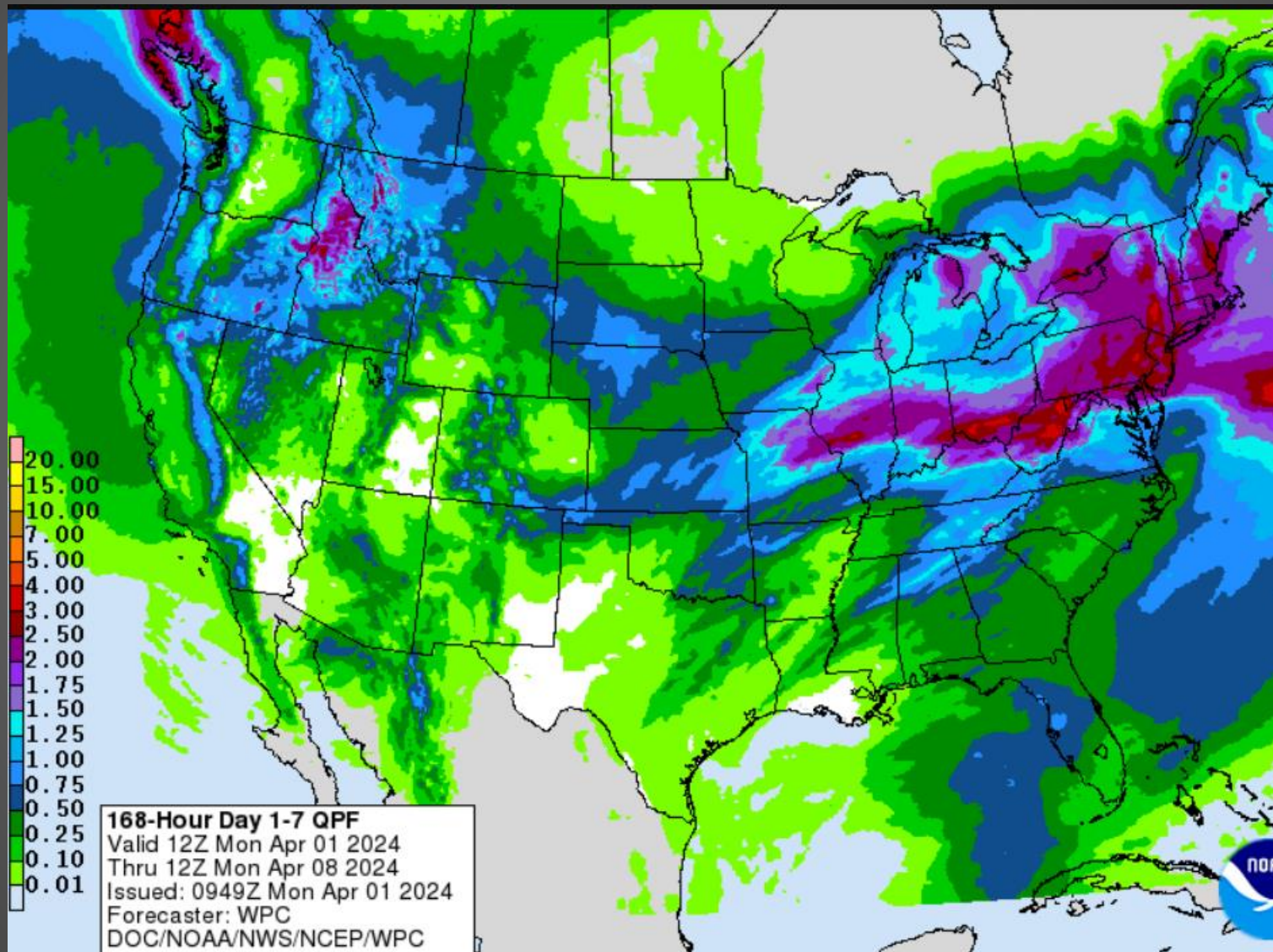
# Typical Winter Impacts from “El Nino”

## WINTER EL NIÑO PATTERN





# Upcoming Total Forecast Precipitation – April 1<sup>st</sup> – 8<sup>th</sup>, 2024



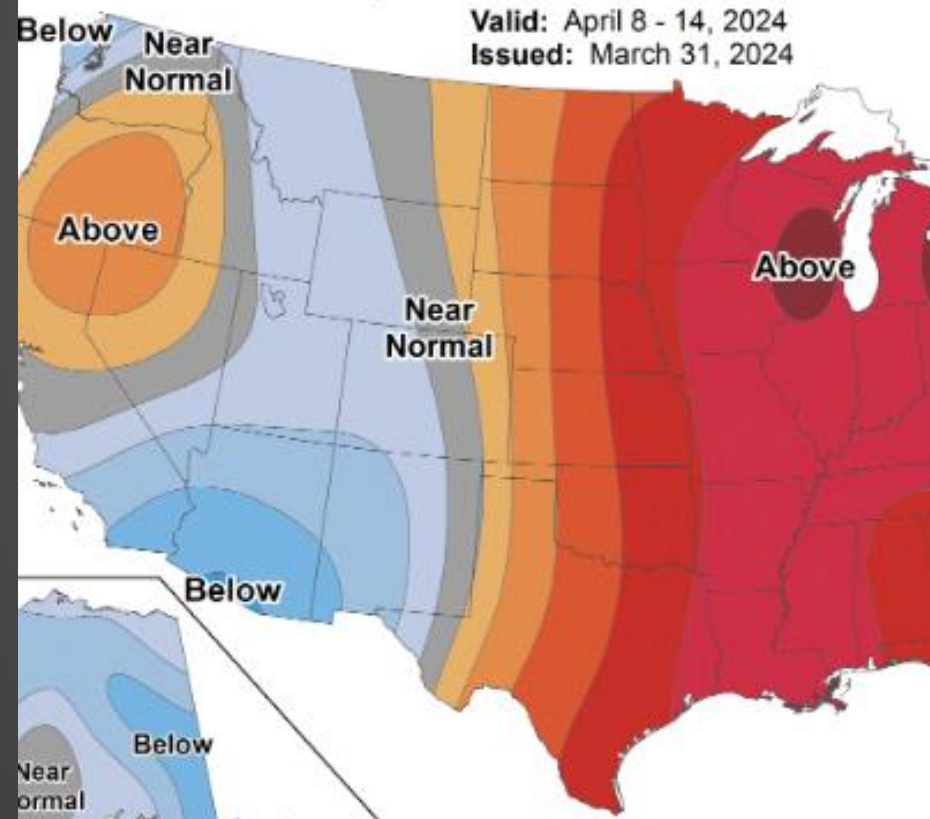
# NOAA CPC 8-14 Day Outlook – April 8<sup>th</sup> -14<sup>th</sup>, 2024

## Temperature

### Temperature Probability

#### 8-14 Day Temperature Outlook

Valid: April 8 - 14, 2024  
Issued: March 31, 2024

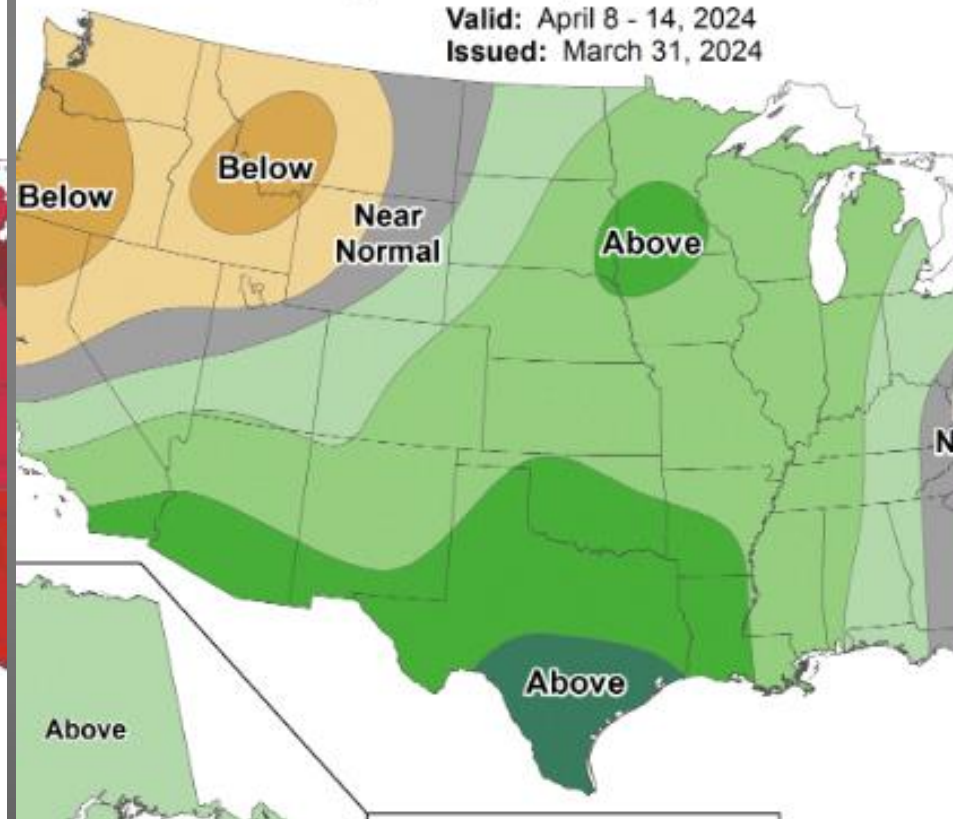


## Precipitation

### Precipitation Probability

#### 8-14 Day Precipitation Outlook

Valid: April 8 - 14, 2024  
Issued: March 31, 2024



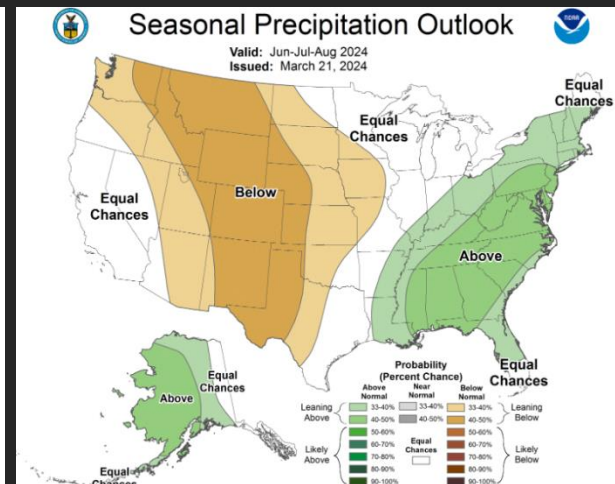
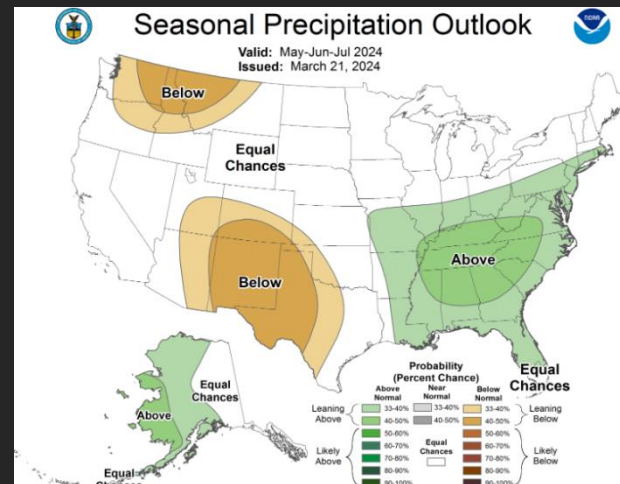
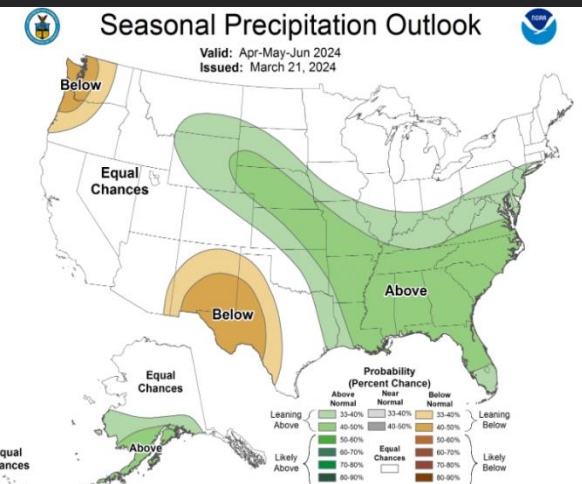
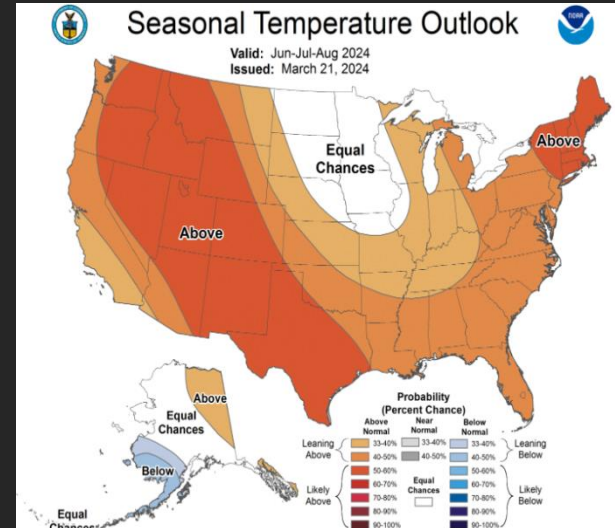
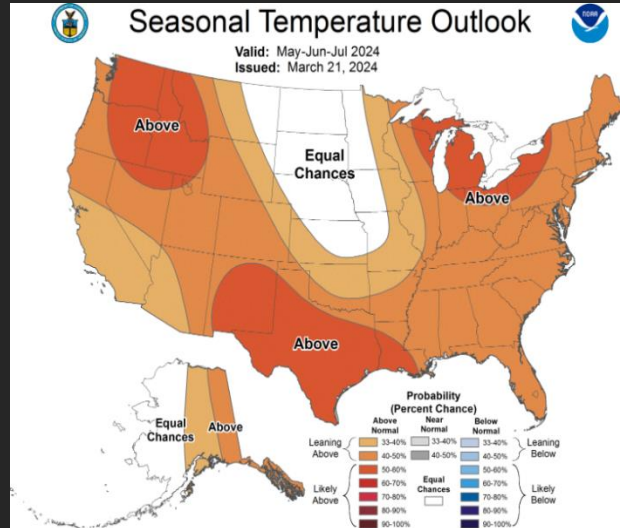
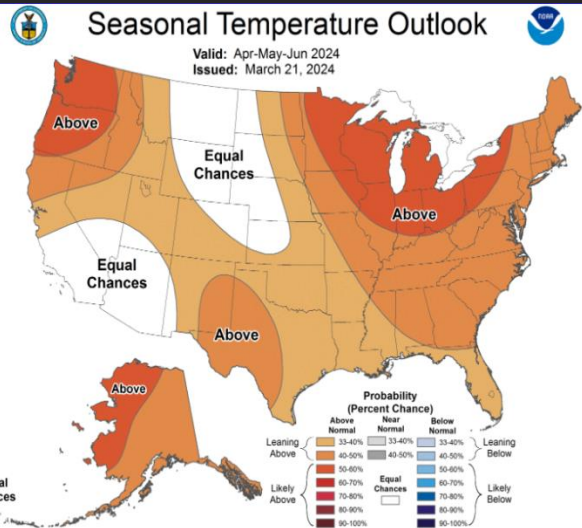


# CPC Outlook: May – July 2024

## May

## June

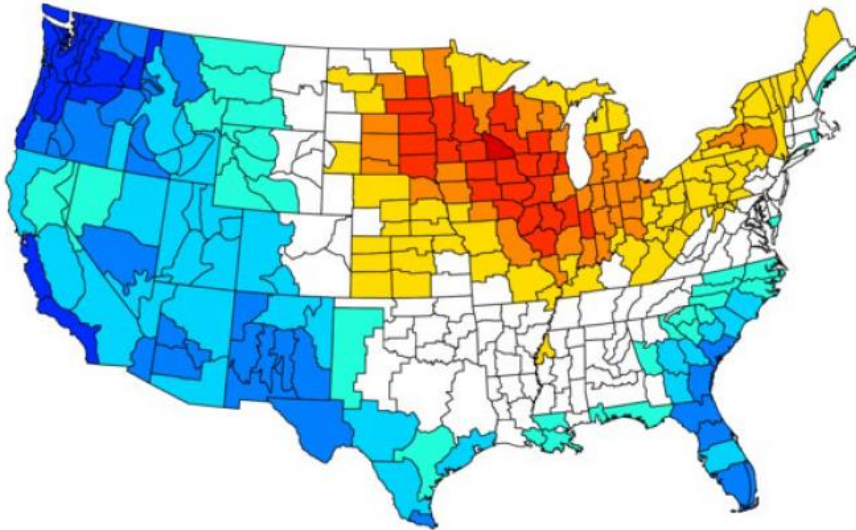
## July



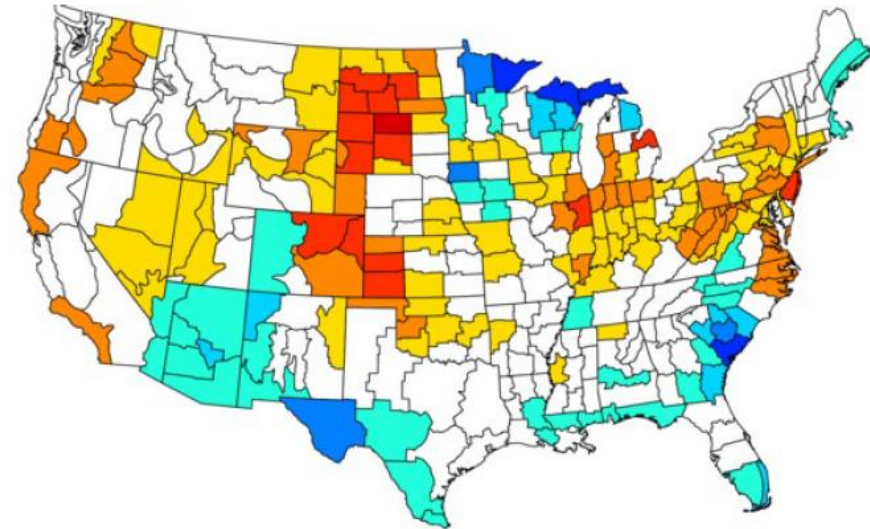
# Predictive Services Monsoon Outlook: July – August 2024

## Monsoon Look – JUL/AUG

TEMP



PRECIP

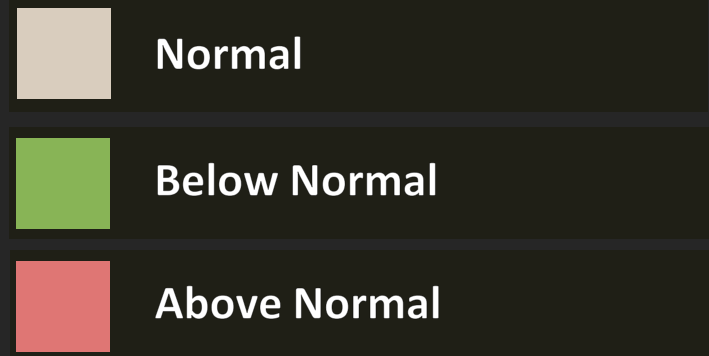
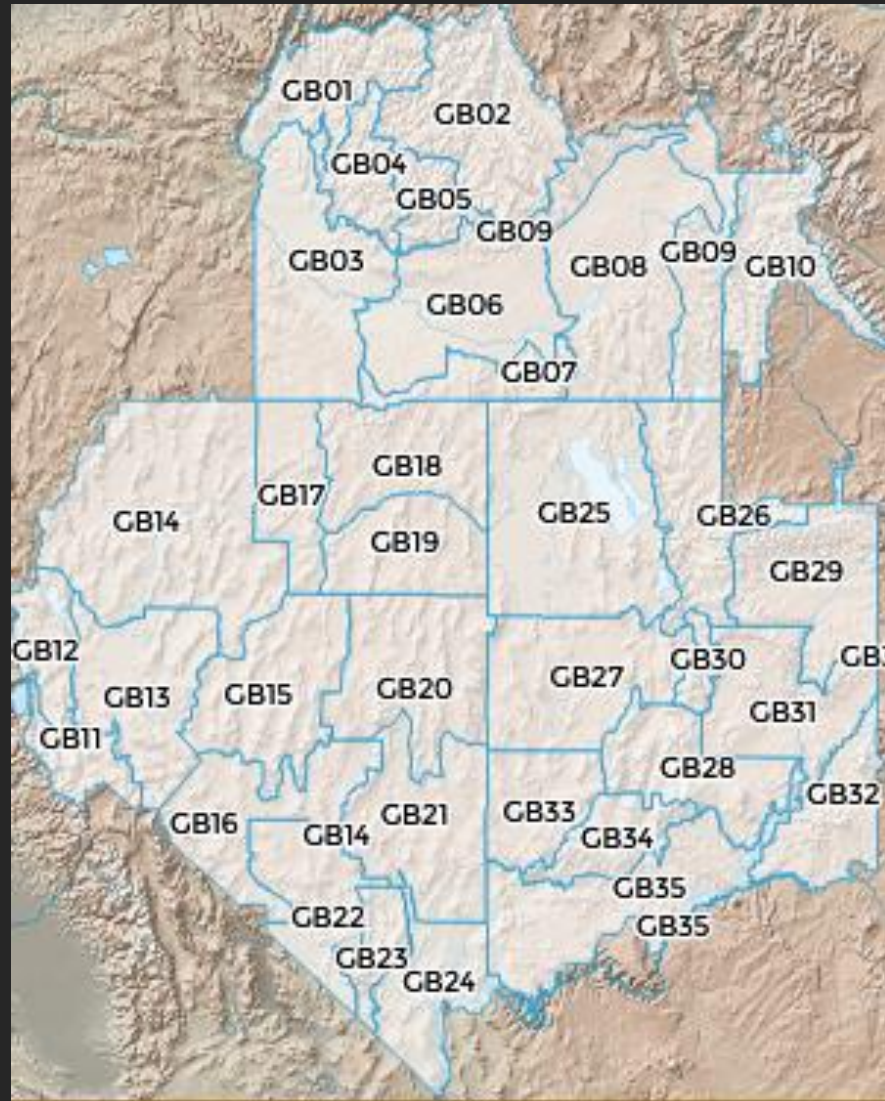


**Putting the  
Pieces Together**

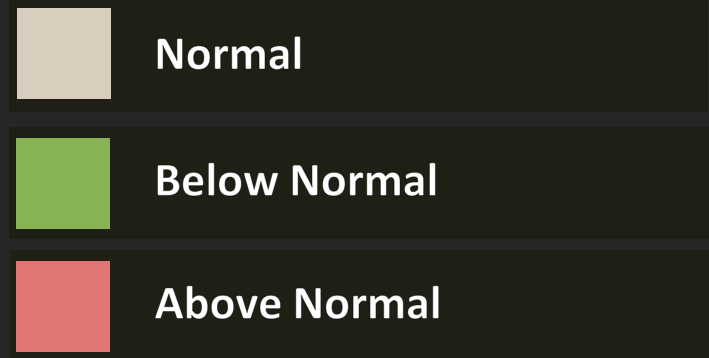
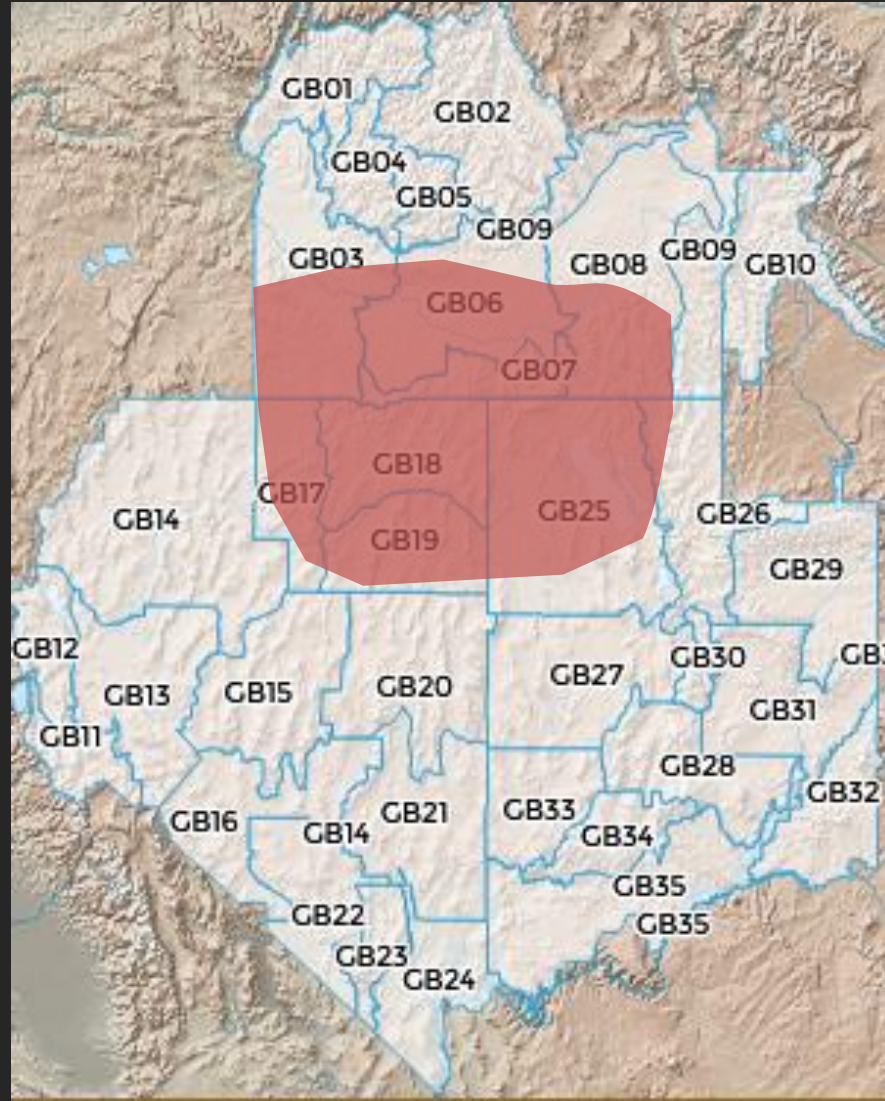




# April – June 2024



# July 2024






# Questions?

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**Gina:** [gmcguire@blm.gov](mailto:gmcguire@blm.gov)

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