

# November 2023 Weather Digest



# November 2023 Weather Summary

November continued the recent trend of well below normal monthly rainfall. The main fall storm track remained north of the area for most of the month. Most of the area east of the Continental Divide was about 25 to 60 percent of normal, while to the west, most of the area was only about 10 to 50 percent of normal.

As is usually the case, with drier than normal conditions temperatures run above normal. This was the case again for November as average temperatures at most places were around 2 to 4 degrees above normal. The last week of the month brought cooler temperatures, otherwise the month would have been well above normal. Both sets of mountains (Gila/Black Range and Sacramentos) received their first significant snowfalls of the season, but were still around 5 to 10 inches below normal

# November 2023 Weather Summary

Looking ahead to December, we continue the drive toward the middle of winter. Daylight hours dwindle from 10 hours, 13 minutes on December 1, to 10 hours, 6 minutes on December 31. The winter solstice will be on December 21, which actually has the shortest daylight of the year at 10 hours, 4 minutes. The normal high temperature at El Paso on the 1st is 61, falling to 57 on the 31st. The December full moon occurs the 26th, also known as the Cold Moon. The new moon occurs on the 12th.

**Nov 10 Lake Mescalero snow**



**Nov 20 Lake Mescalero snow**



**Nov 20 Cloudcroft snow**



**Nov 25 Snow Pinos Altos**



**Nov 25 Snow near Pinos Altos**



**Nov 20 Snow over Lincoln Forest**

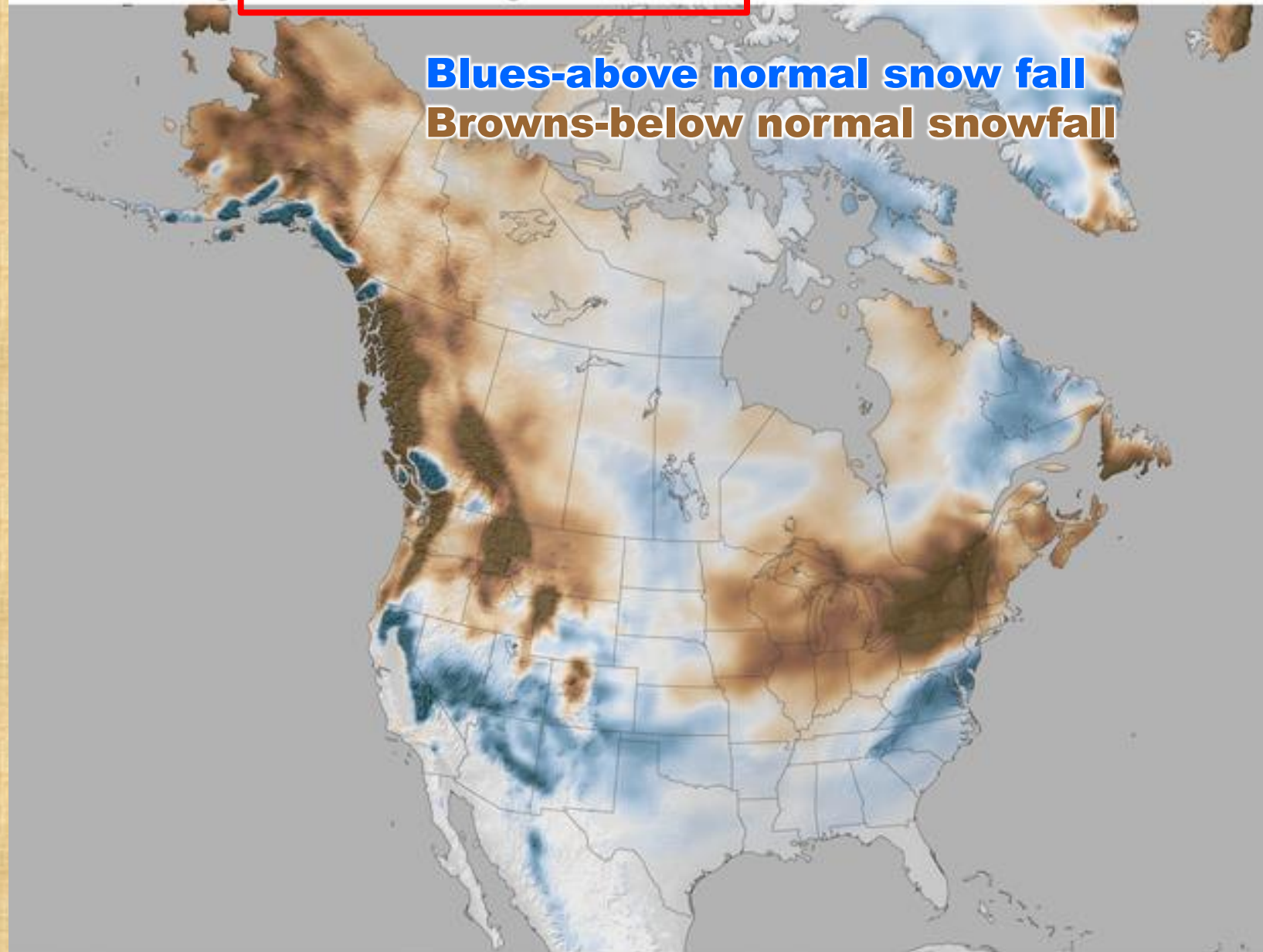


**Nov 20 Snow over Black Range**



Snowfall during moderate-to-strong El Niño winters (Jan-Mar)

**Blues-above normal snow fall**  
**Browns-below normal snowfall**



1959-2023 (detrended)  
vs. 1991-2020 average

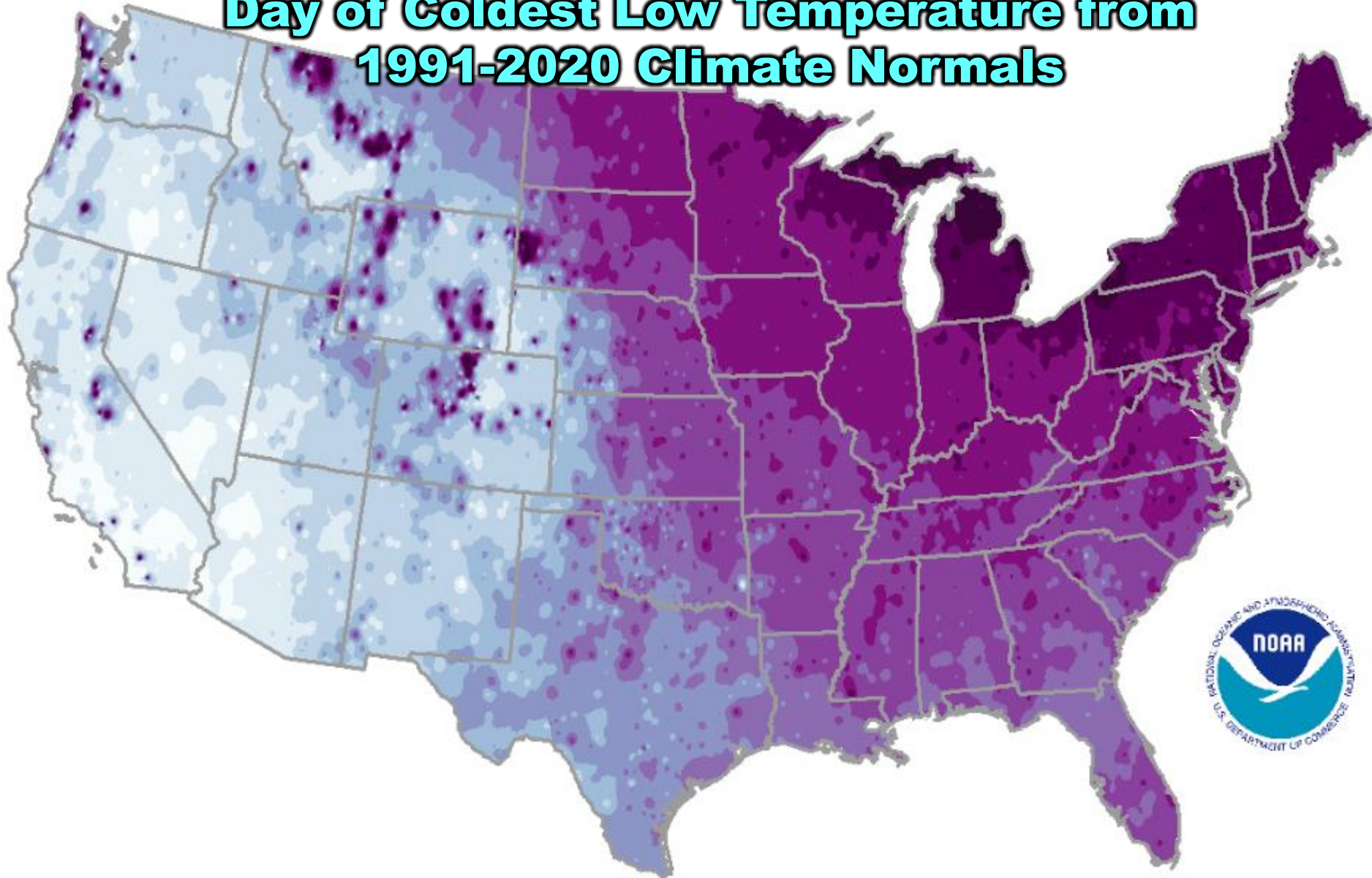
difference from average snowfall (inches)



NOAA Climate.gov  
Data: ERA5

# Coldest Day of the Year

## Day of Coldest Low Temperature from 1991-2020 Climate Normals



Before Dec 15   Dec 16-20   Dec 21-25   Dec 26-31   Jan 1-5   Jan 6-10   Jan 11-15   Jan 16-20   Jan 21-25   Jan 26-31   After Feb 1

# **ENSO Alert System Status: El Niño Advisory is in Effect**

## **ENSO Alert System**

- **El Niño or La Niña Watch:** Issued when conditions are favorable for the development of El Niño or La Niña conditions in the next six months.
- **El Niño or La Niña Advisory:** Issued when El Niño or La Niña conditions are observed and expected to continue.

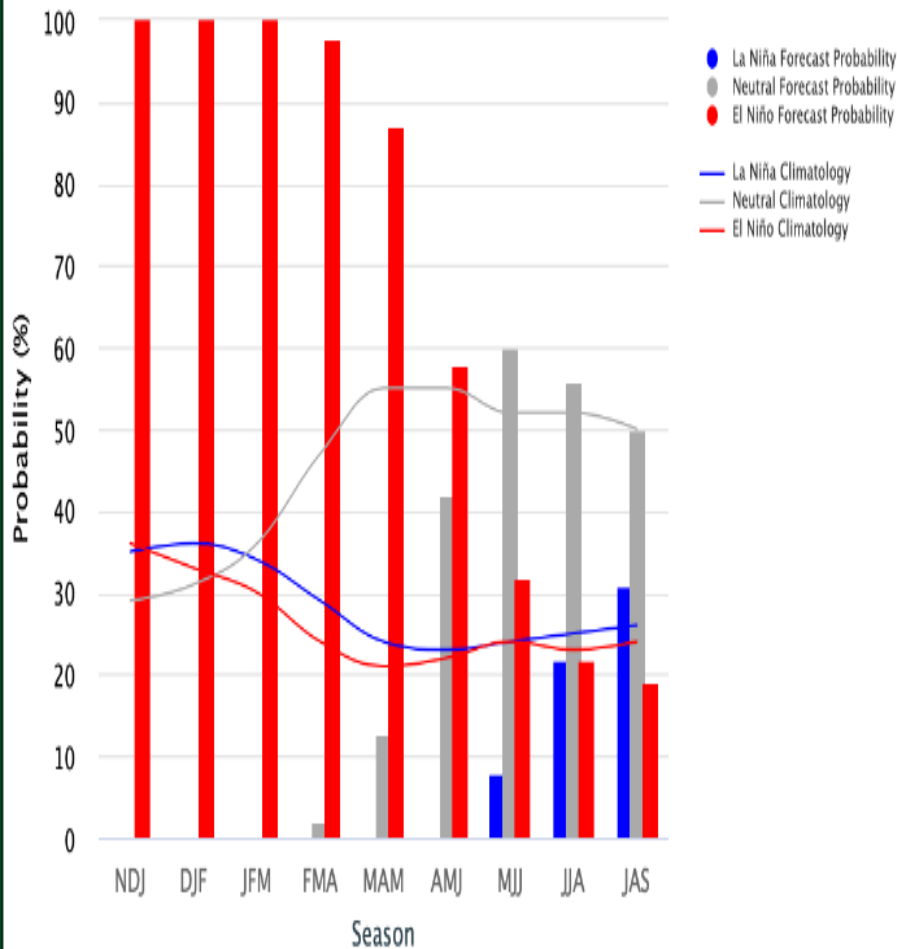


# ENSO Forecast

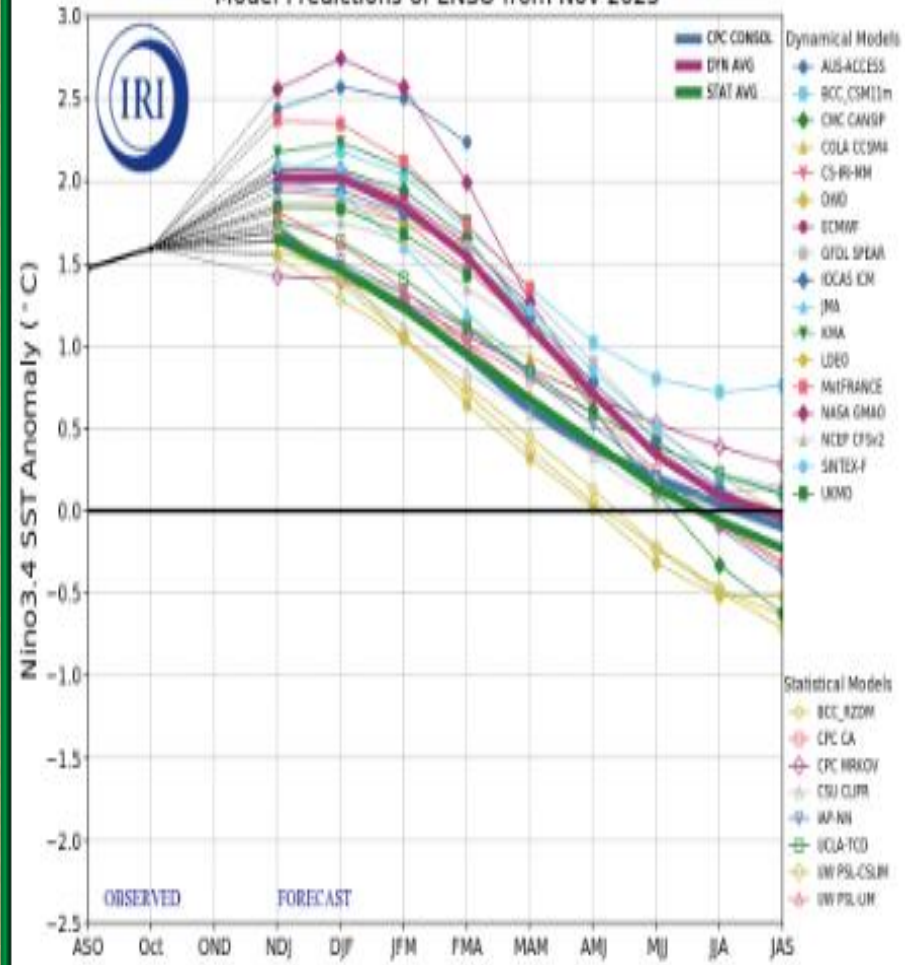
ENSO is in strong El Niño status and is expected to last into early spring before transitioning to neutral for the summer of 2024.

Mid-November 2023 IRI Model-Based Probabilistic ENSO Forecasts

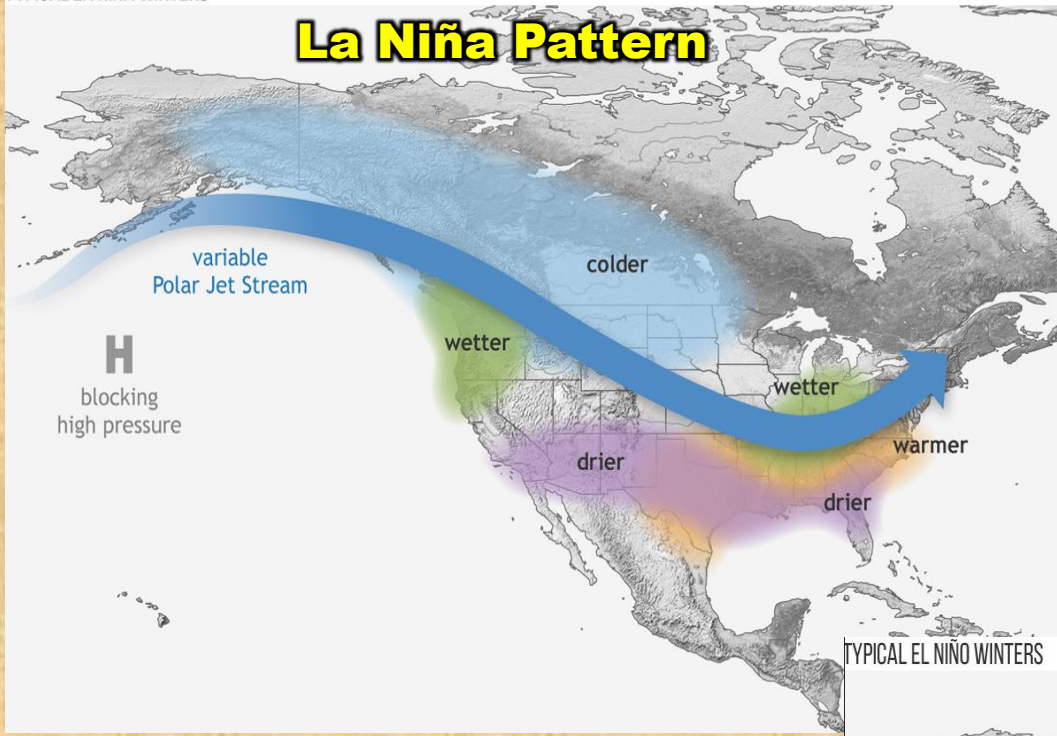
ENSO state based on NINO3.4 SST Anomaly Neutral ENSO:  $-0.5^{\circ}\text{C}$  to  $0.5^{\circ}\text{C}$



Model Predictions of ENSO from Nov 2023

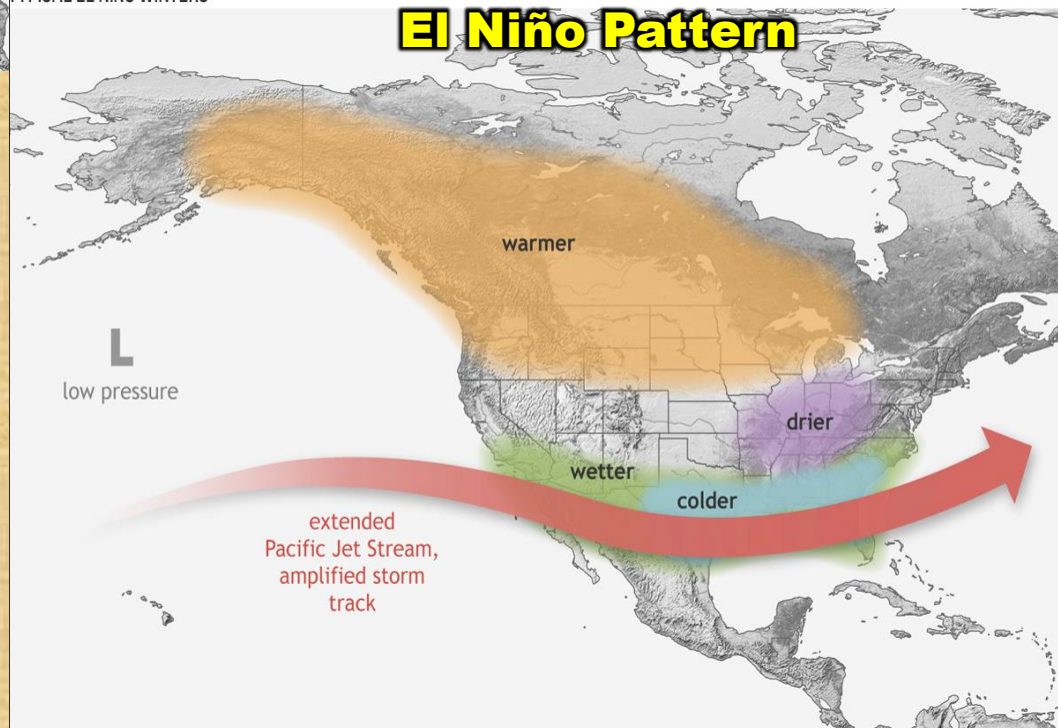


# La Niña Pattern



With a La Niña pattern, a ridge of high pressure tends to build off the west coast of the U.S., blocking most of our Pacific winter storm systems. These storms tend to end up moving across the northern Plains and down to the southeastern part of the country. Of course it is important to remember that these patterns are only what typically happens and are not guaranteed to occur.

# El Niño Pattern



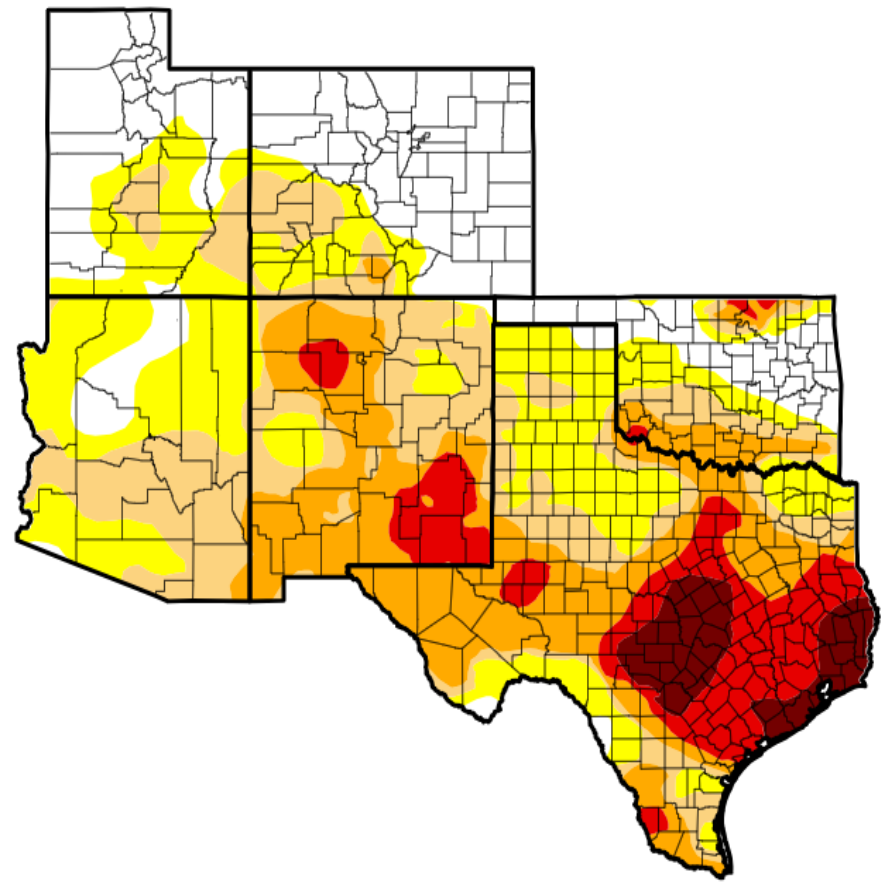
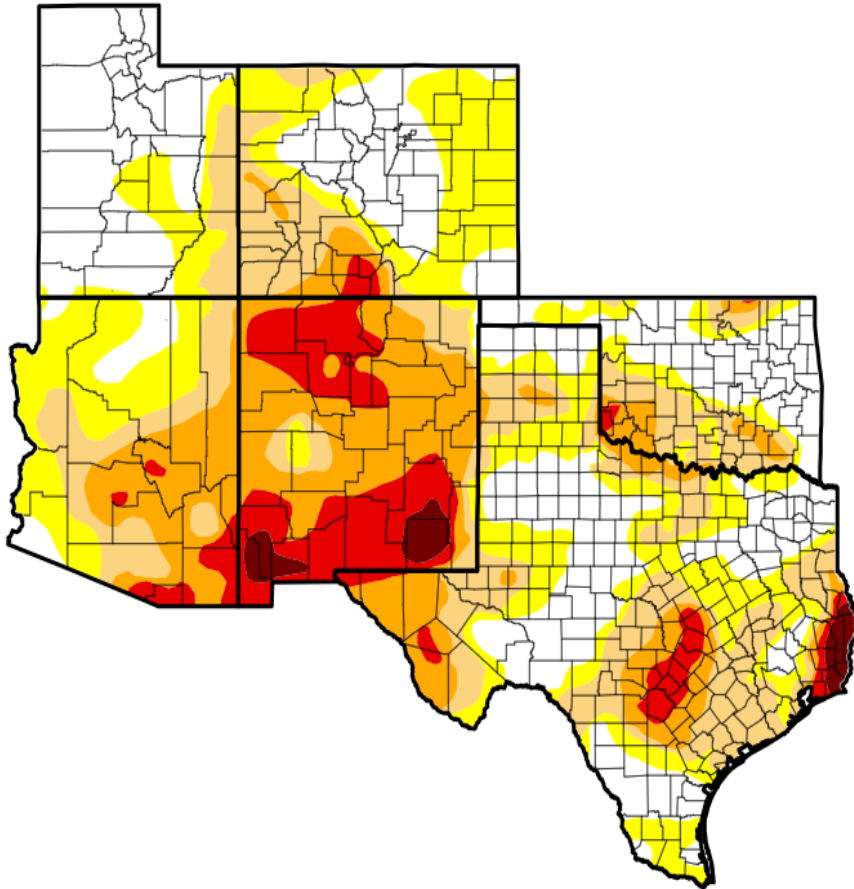
With El Niño, we often see the opposite pattern where the eastern Pacific ridge of high pressure is often weak or non-existent, allowing winter storms to sweep across the southern U.S. This typically will give the southwestern U.S. above normal precipitation.

# Current drought conditions and 3 month change

- Abnormally Dry – D0
- Moderate Drought – D1
- Severe Drought – D2
- Extreme Drought – D3
- Exceptional – D4

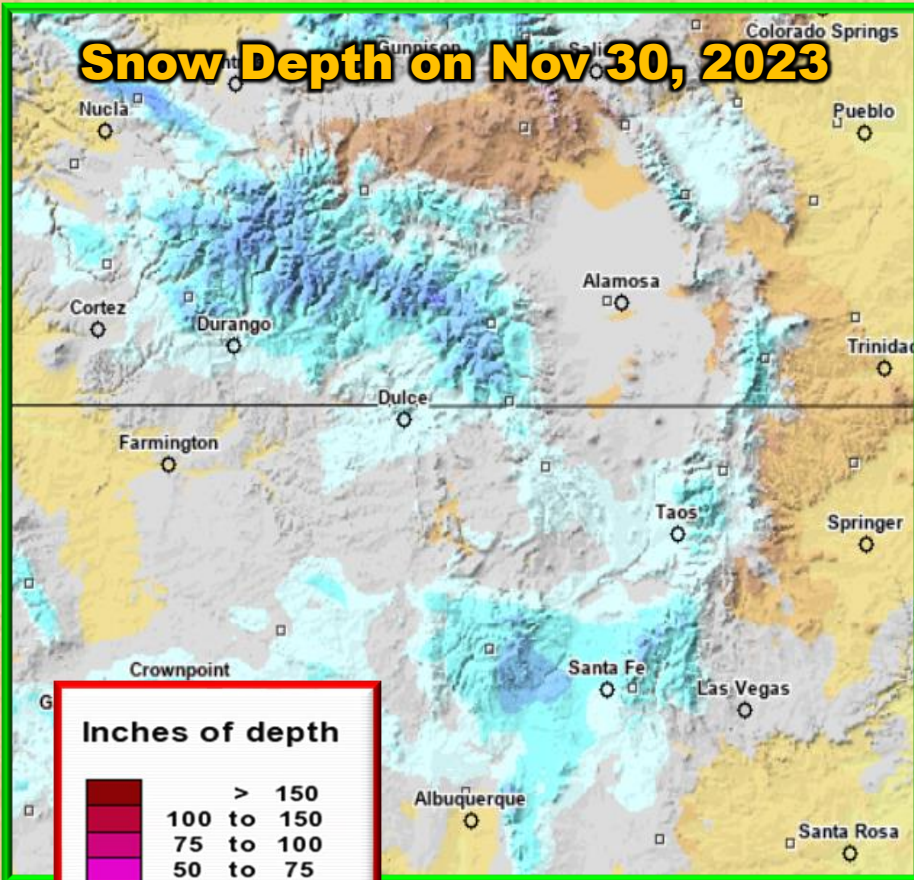
**Nov 28, 2023**

**Aug 29, 2023**

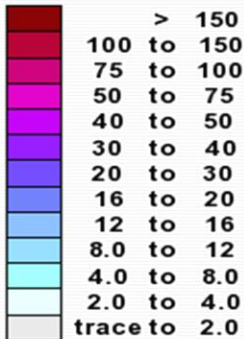


# Snow Data Upper Rio Grand Basin as of Nov 30, 2023

## Snow Depth on Nov 30, 2023

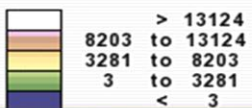


### Inches of depth

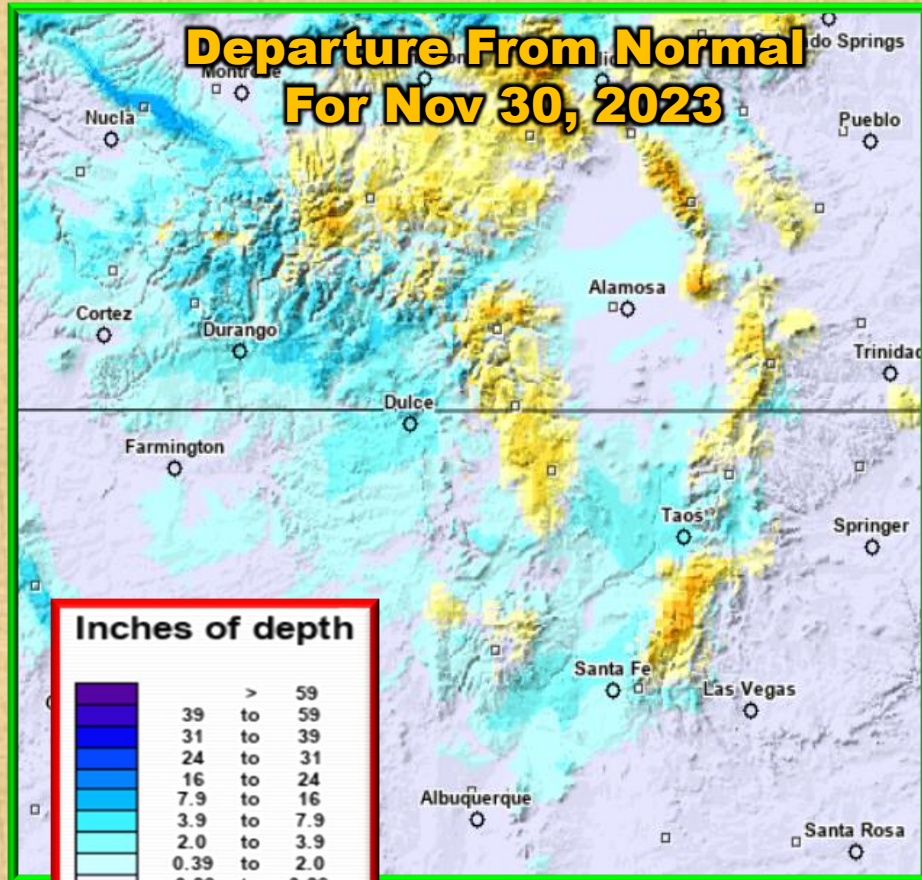


Not Estimated

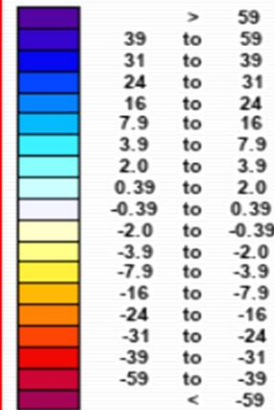
### Elevation in feet



## Departure From Normal For Nov 30, 2023



### Inches of depth



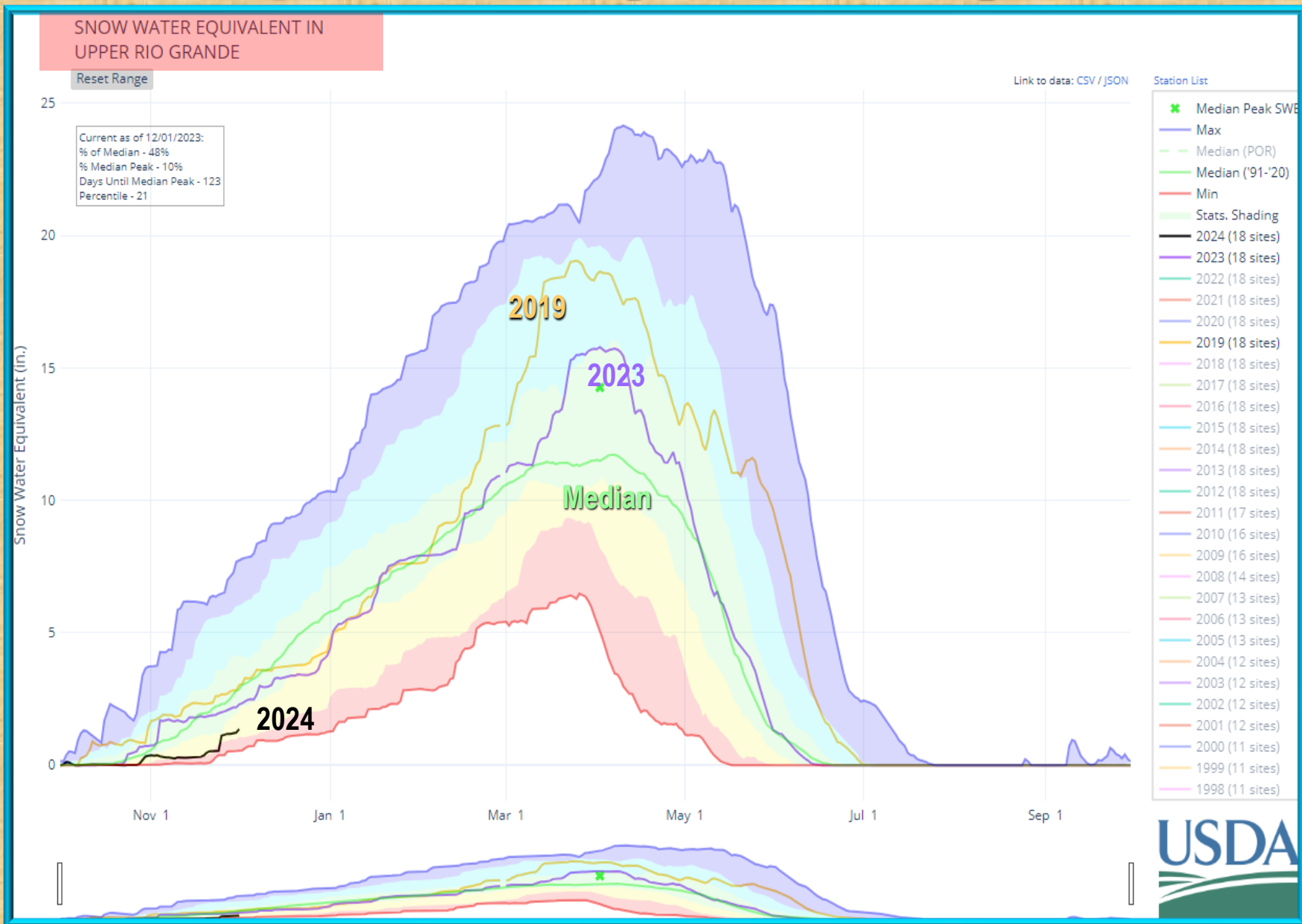
Not Estimated

### Elevation in feet



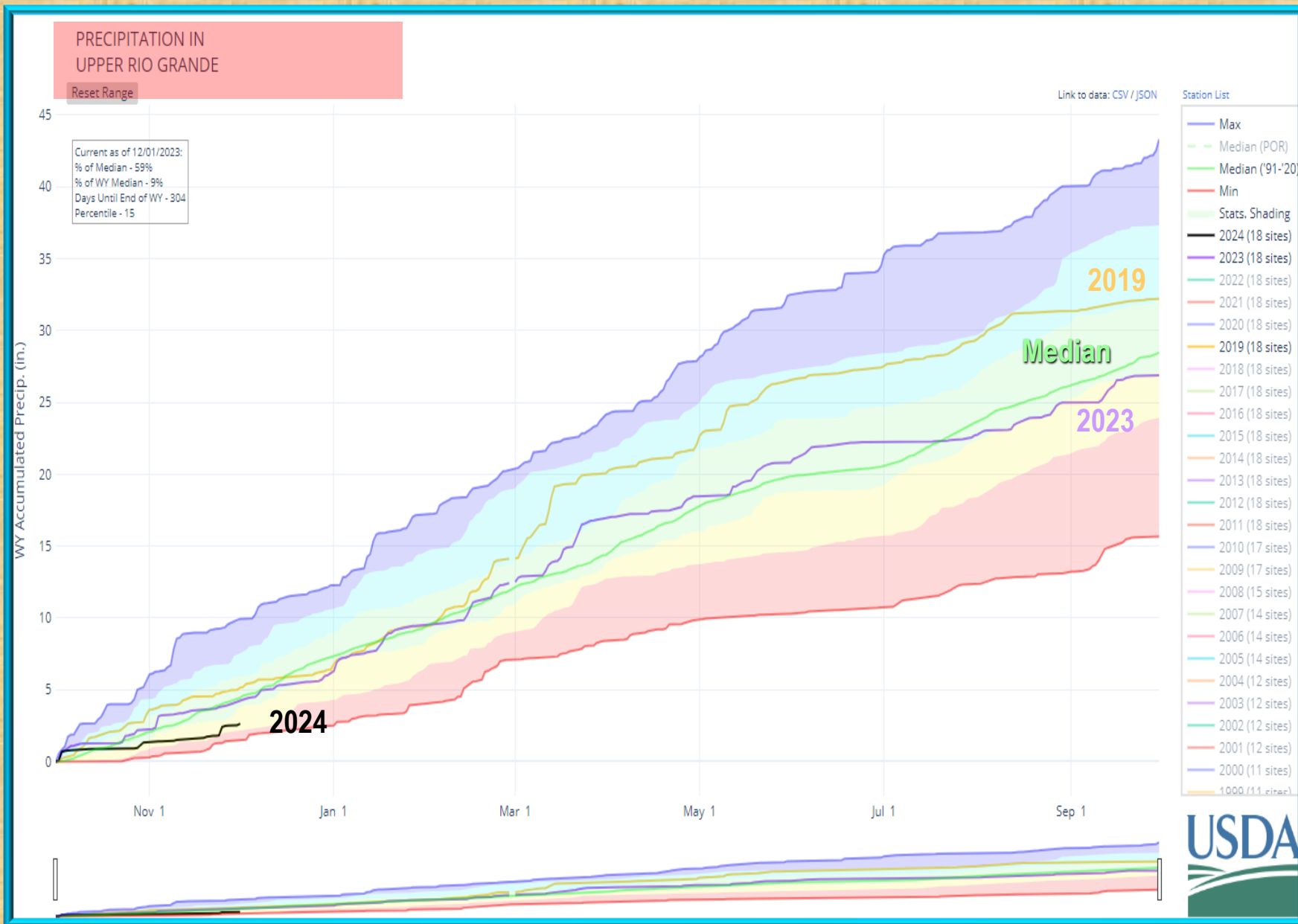
# Snow Water Equivalent as of November 30, 2023

## Compare to last few years and average values



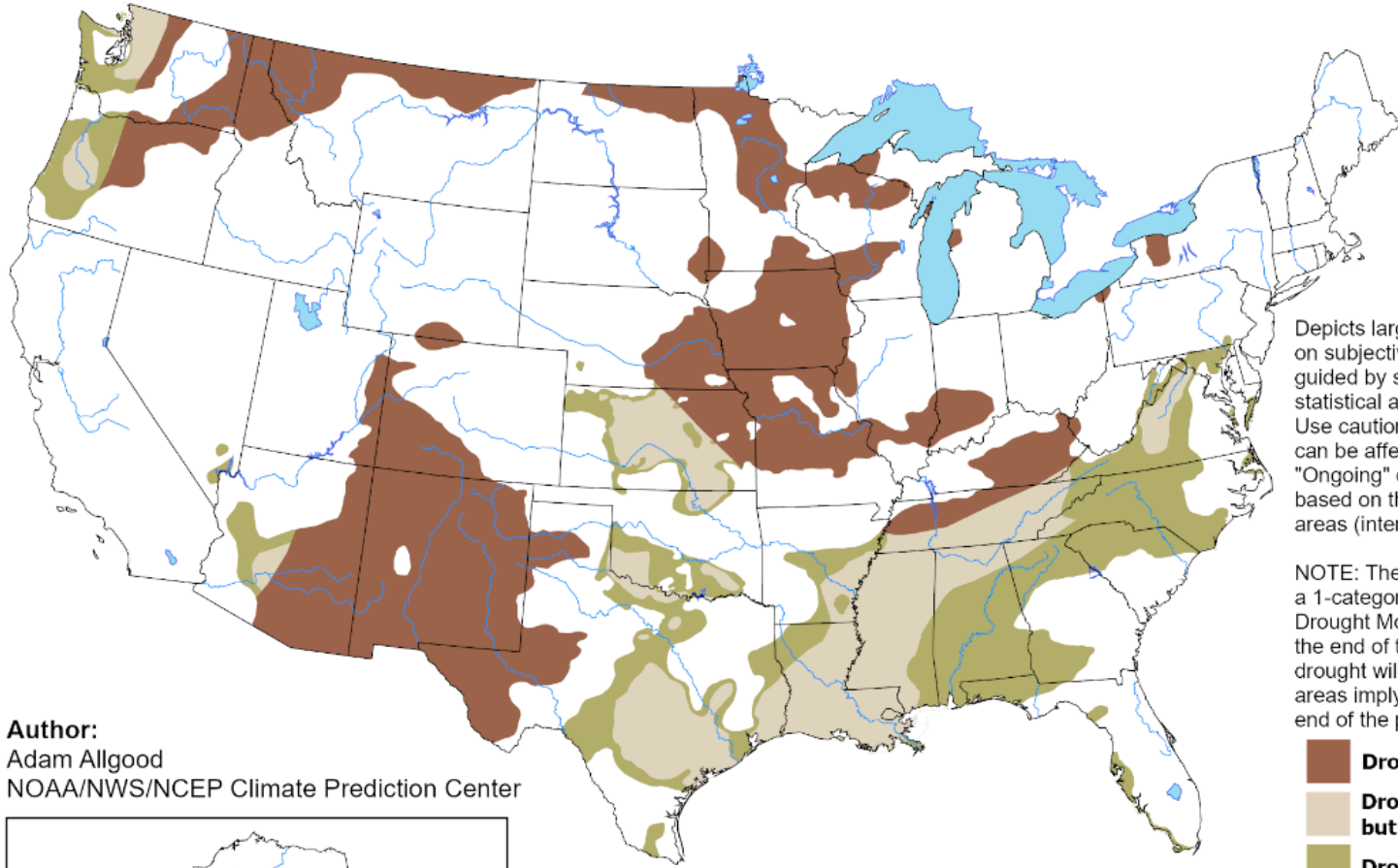
# Precipitation for the Water Year Oct 1 – Nov 30, 2023

## Compare to last few years and average values



# U.S. Seasonal Drought Outlook

Valid for November 16, 2023 - February 29, 2024  
 Drought Tendency During the Valid Period  
 Released November 16, 2023

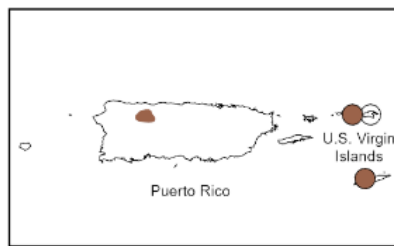
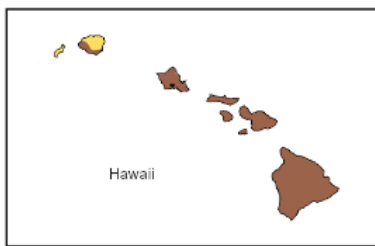


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

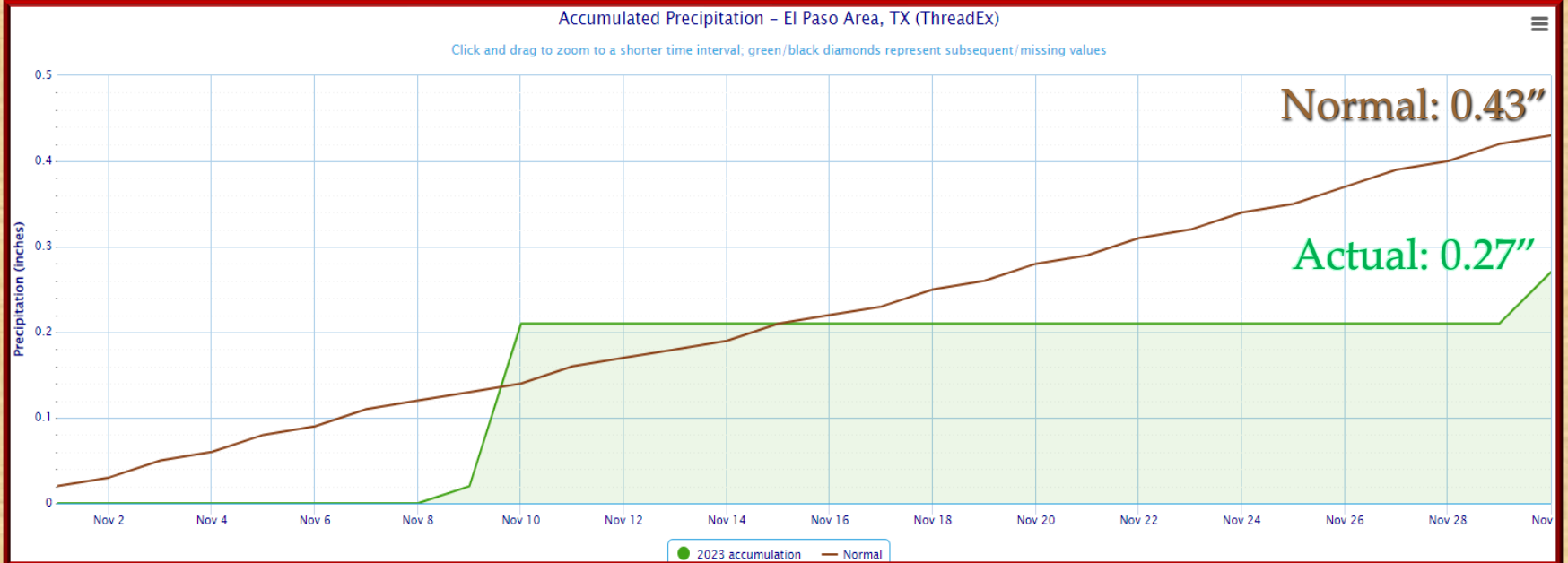
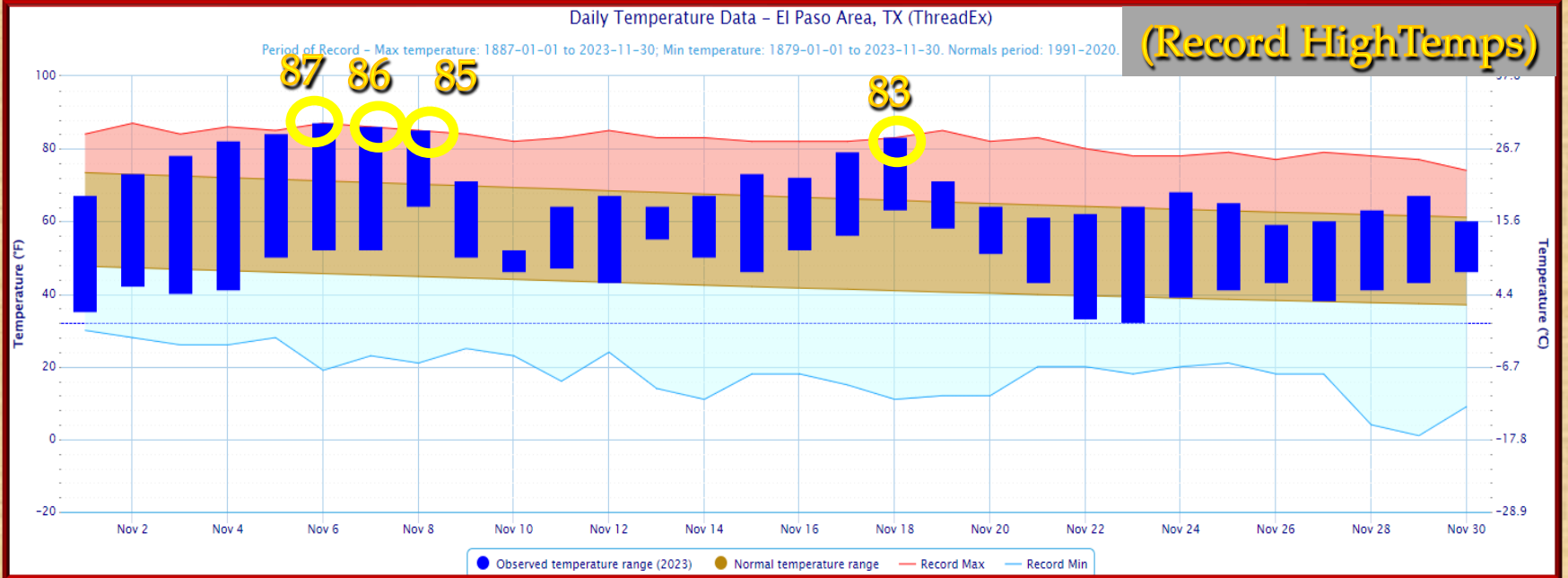
- Drought persists
- Drought remains, but improves
- Drought removal likely
- Drought development likely
- No drought

**Author:**  
 Adam Allgood  
 NOAA/NWS/NCEP Climate Prediction Center



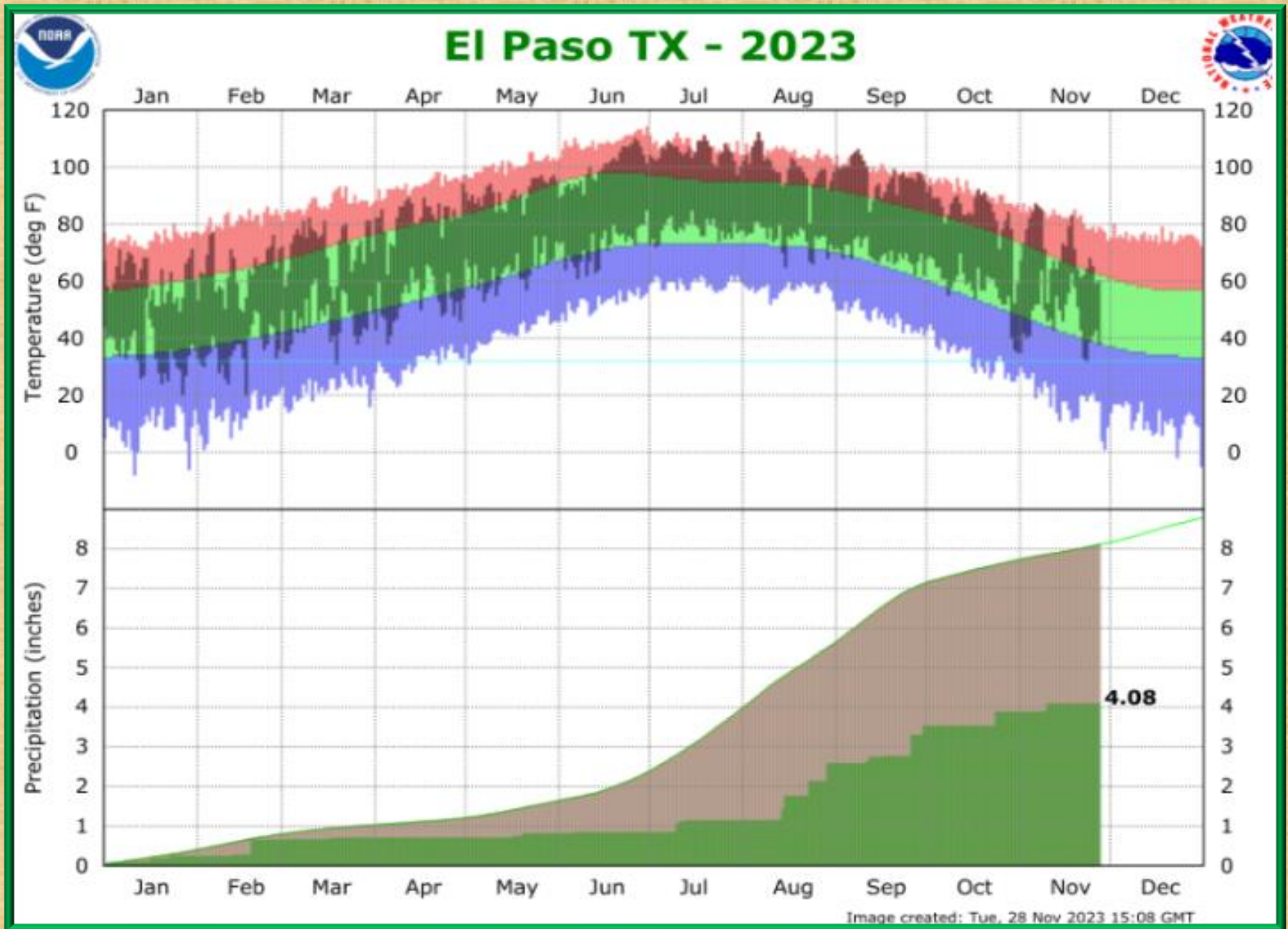
# Temperature and precipitation data for November 2023 in El Paso

○ = record



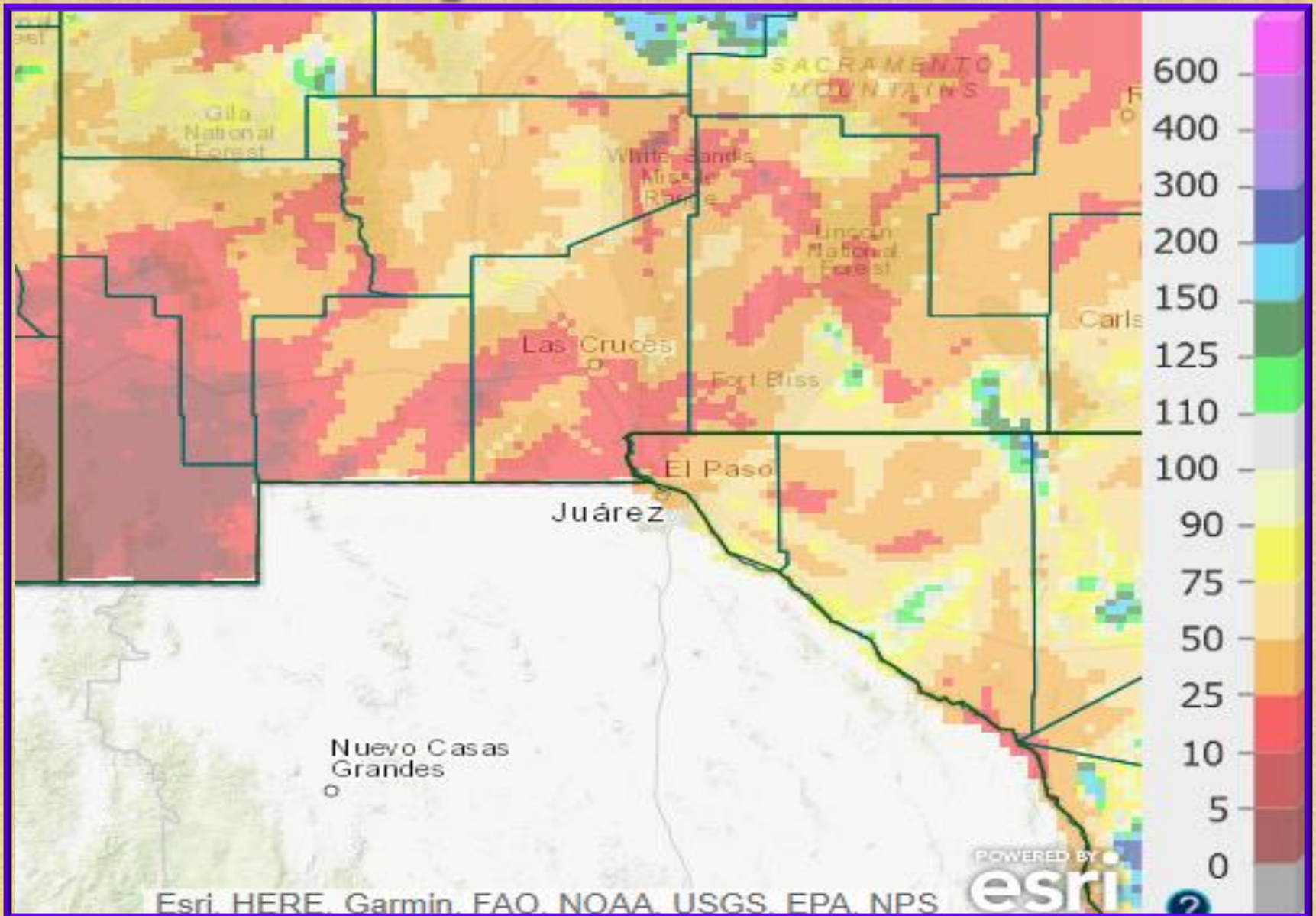


# Temperature and Precipitation for 2023 YTD for El Paso

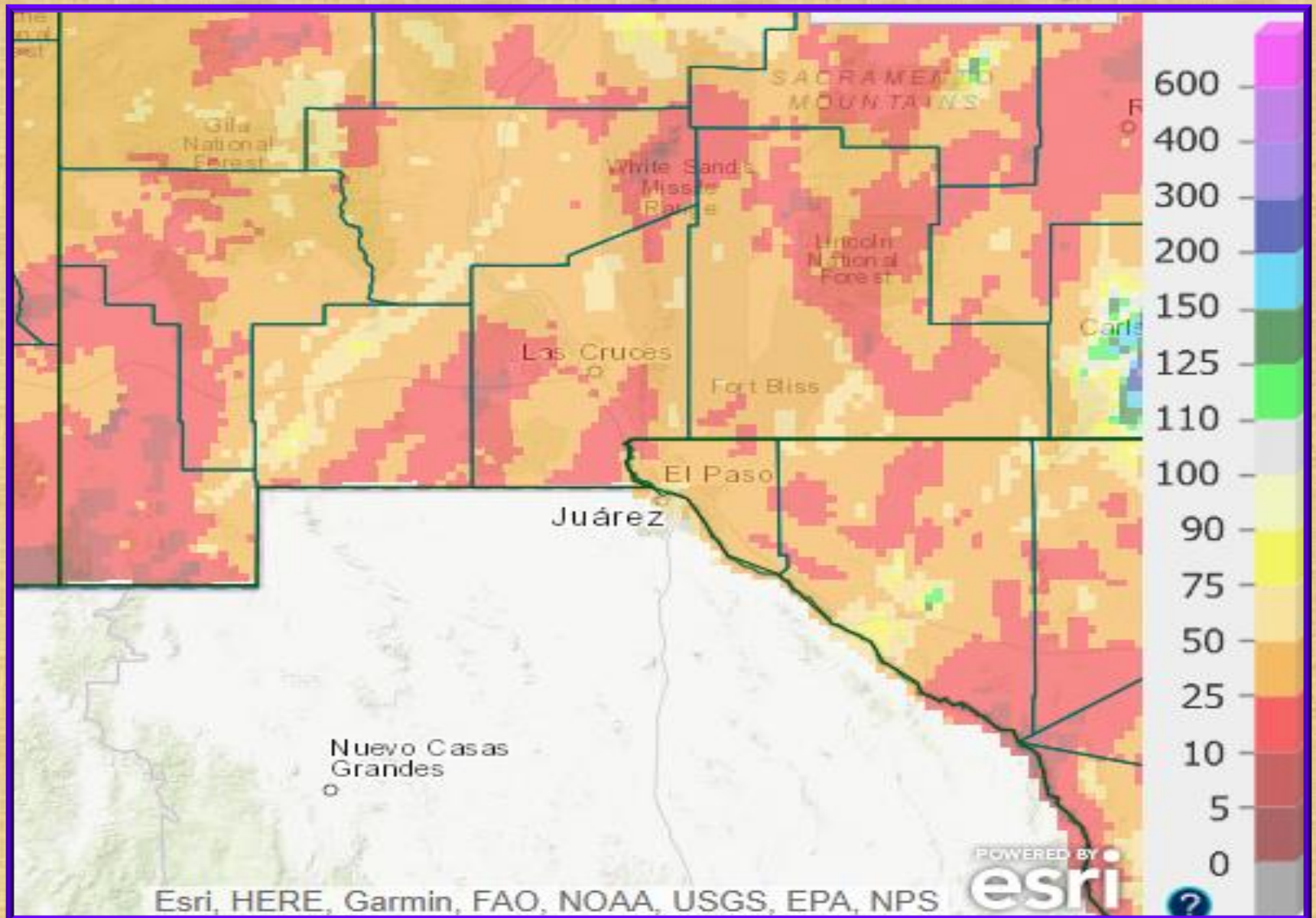




# November 2023 rainfall estimate percent of normal



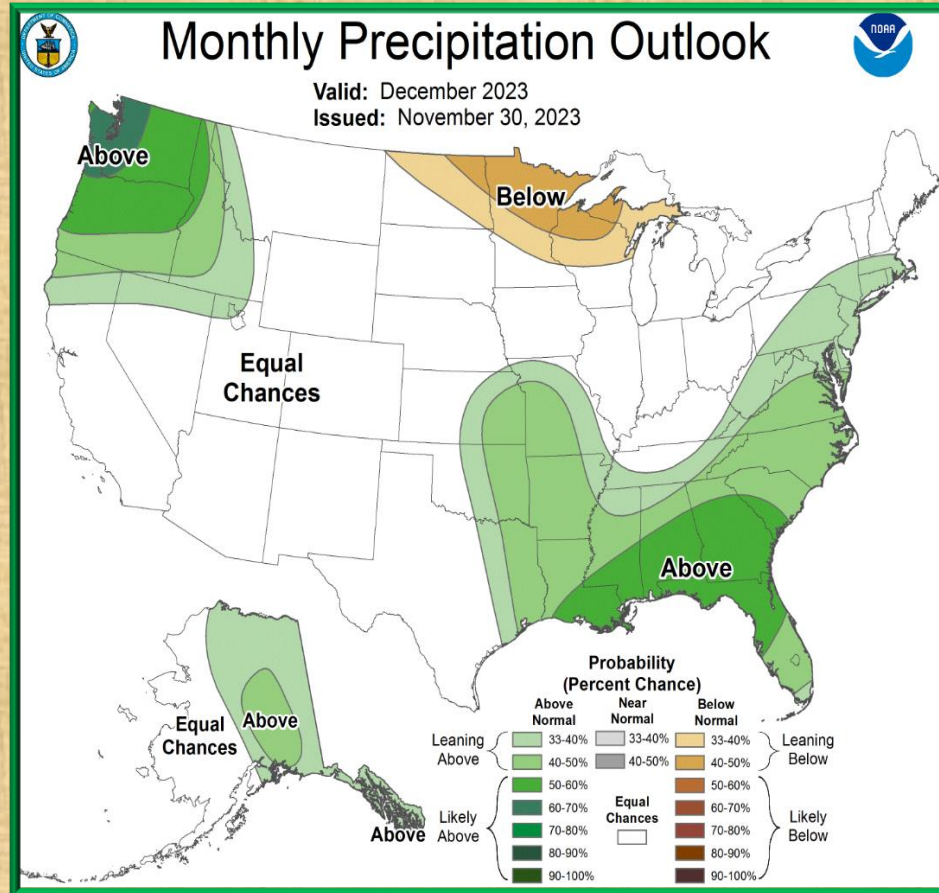
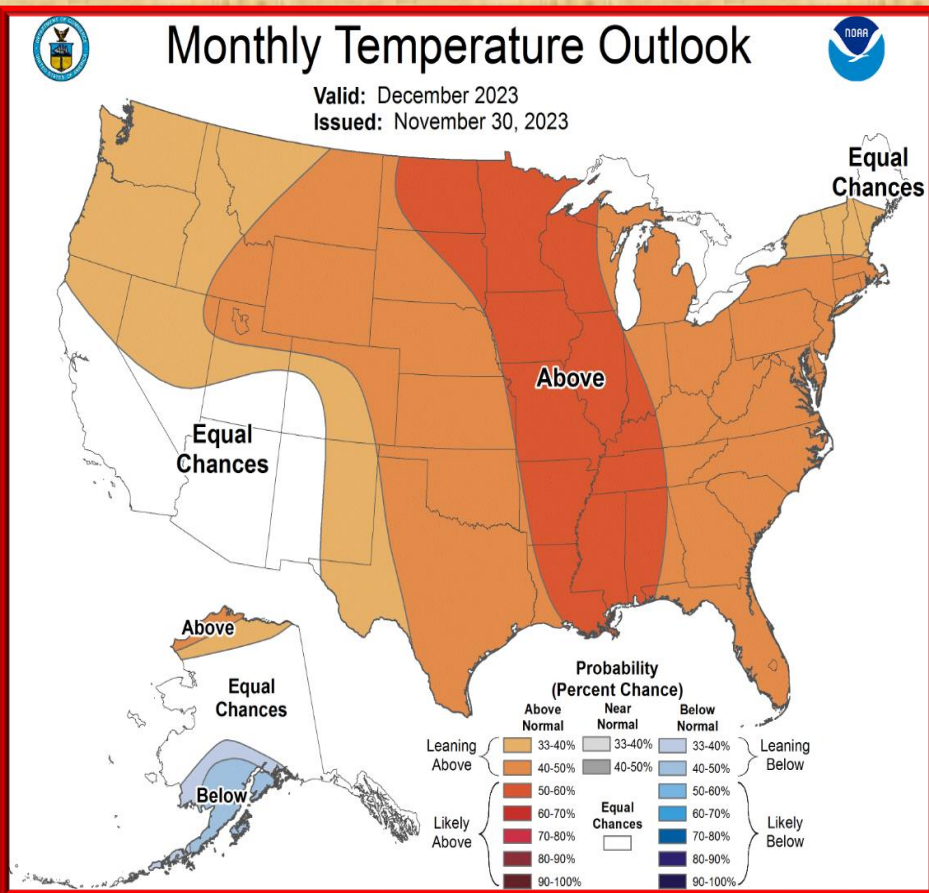
# Radar rainfall estimate percent of normal for the Water Year (Oct 1 – Nov 30)



# Temperature and precipitation outlook For December 2023

## Temperature

## Precipitation



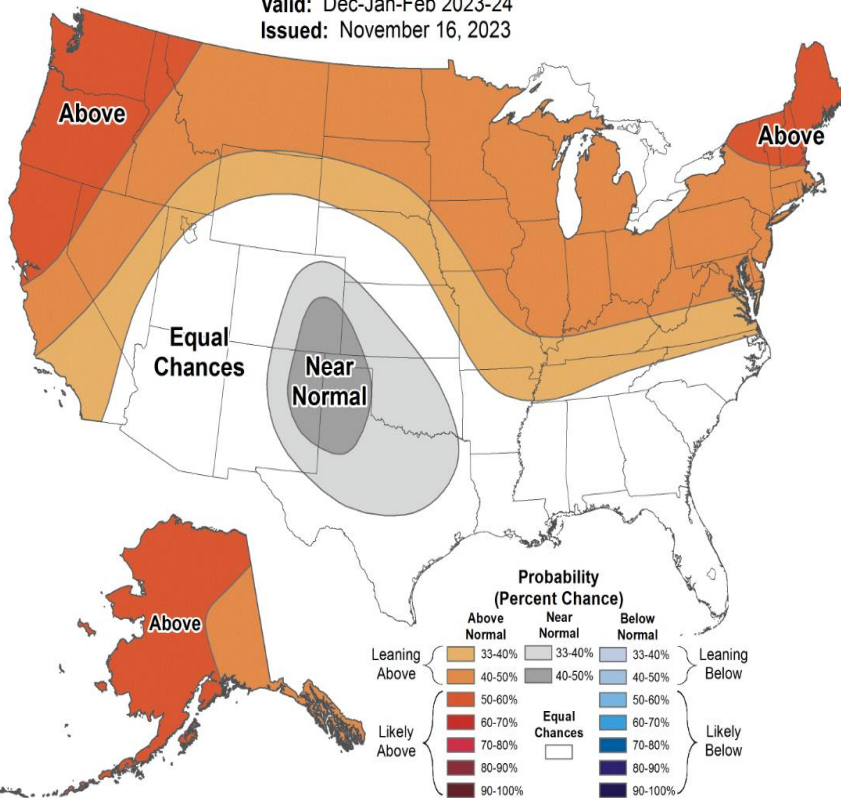
# Temperature and precipitation outlook for Dec-Feb 2024

## Temperature

## Precipitation

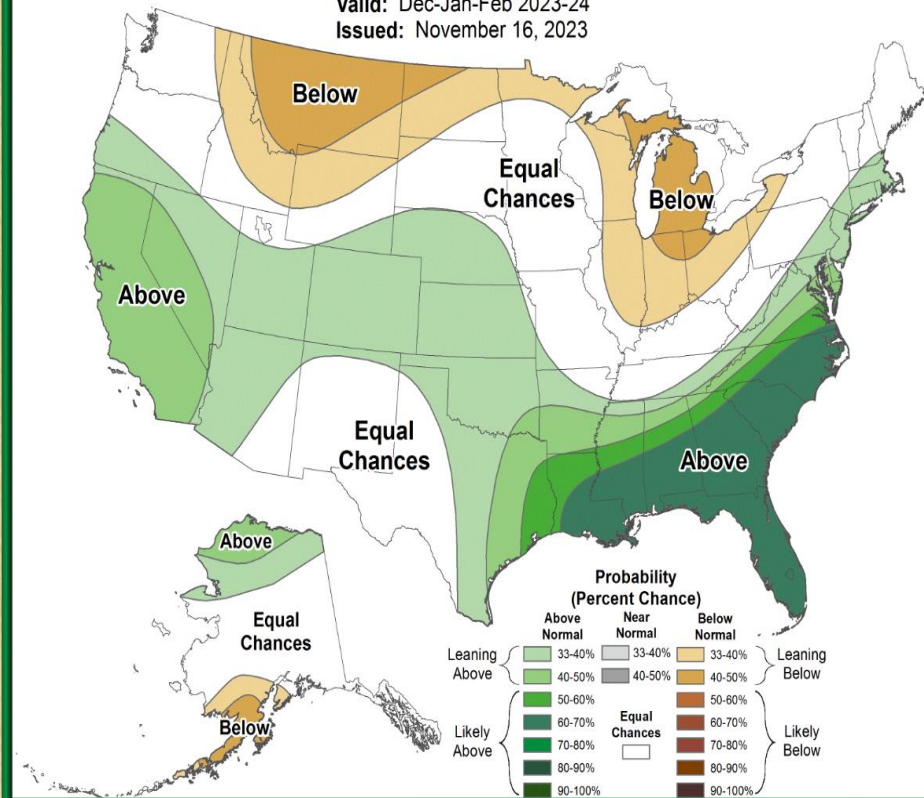
### Seasonal Temperature Outlook

Valid: Dec-Jan-Feb 2023-24  
Issued: November 16, 2023



### Seasonal Precipitation Outlook

Valid: Dec-Jan-Feb 2023-24  
Issued: November 16, 2023



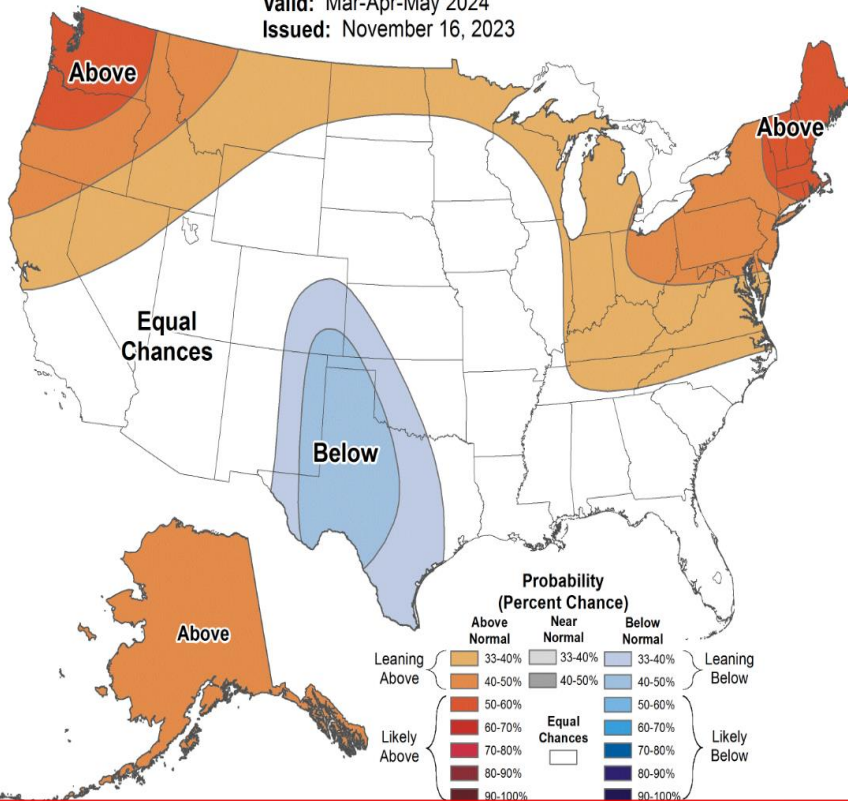
# Temperature and precipitation outlook for Mar-May 2024

## Temperature

## Precipitation

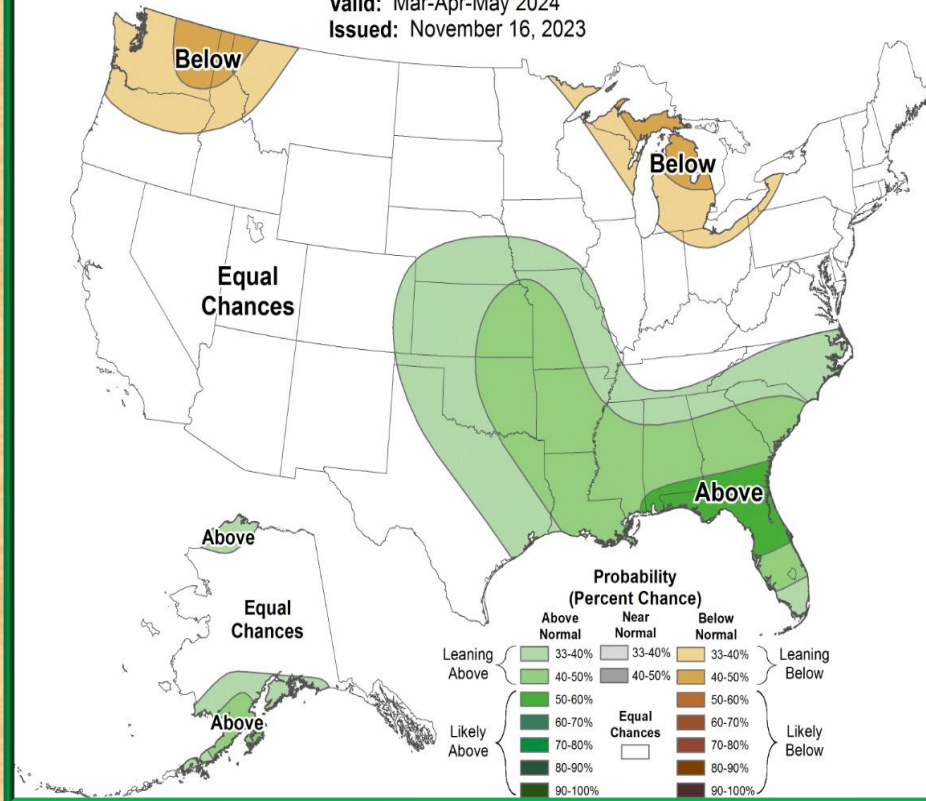
### Seasonal Temperature Outlook

Valid: Mar-Apr-May 2024  
Issued: November 16, 2023



### Seasonal Precipitation Outlook

Valid: Mar-Apr-May 2024  
Issued: November 16, 2023

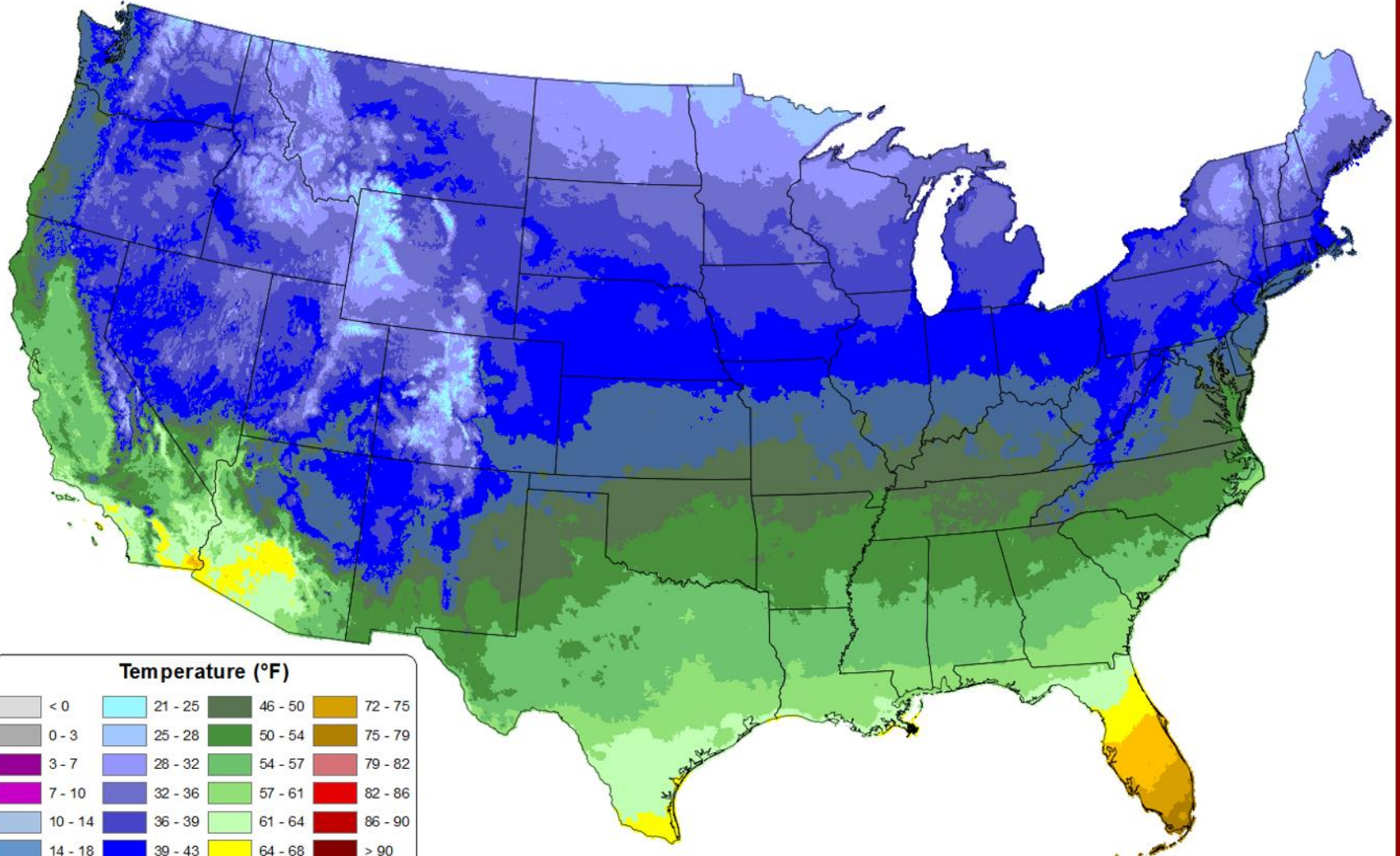


# Average Daily Mean Temperature for November 2023

Average Daily Mean Temperature: 01 Nov 2023 - 30 Nov 2023

Period ending 7 AM EST 30 Nov 2023

(Map created 01 Dec 2023)



## Temperature (°F)

< 0	21 - 25	46 - 50	72 - 75
0 - 3	25 - 28	50 - 54	75 - 79
3 - 7	28 - 32	54 - 57	79 - 82
7 - 10	32 - 36	57 - 61	82 - 86
10 - 14	36 - 39	61 - 64	86 - 90
14 - 18	39 - 43	64 - 68	> 90
18 - 21	43 - 46	68 - 72	

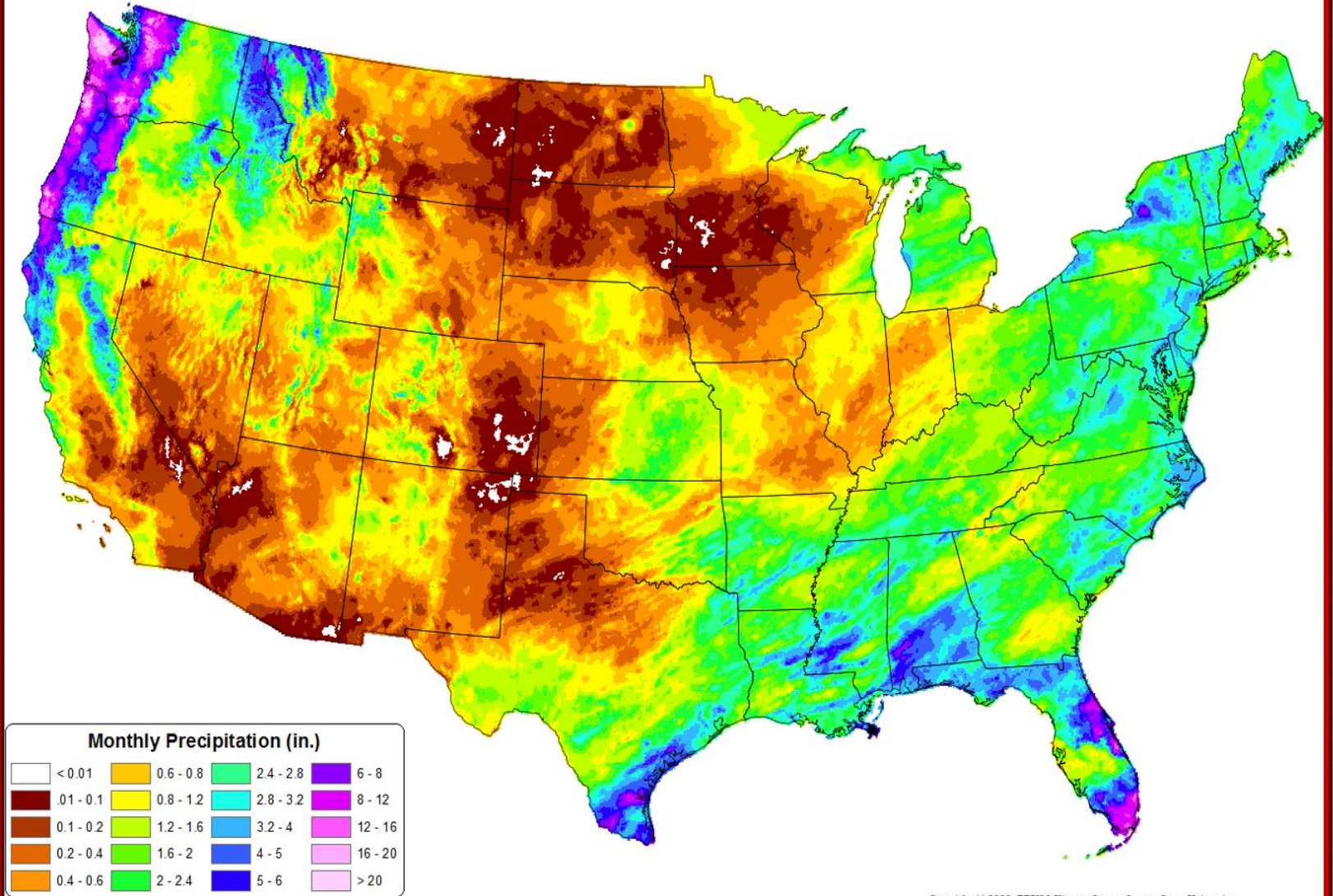


# Total Precipitation for November 2023

Total Precipitation: 01 Nov 2023 - 30 Nov 2023

Period ending 7 AM EST 30 Nov 2023

(Map created 01 Dec 2023)



# Selected Weather Reports November 2023

<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
NOV 30 249 PM	SOUTH FRANKLIN PEAK-EL PASO	59 MPH PEAK WIND GUST
NOV 30 1150 AM	SAN AUGUSTIN PASS-DONA ANA	58 MPH PEAK WIND GUST
NOV 30 200 PM	WSMR MAIN POST-DONA ANA	53 MPH PEAK WIND GUST
NOV 30 1235 PM	EL PASO INTL AIRPORT-EL PASO	46 MPH PEAK WIND GUST
NOV 30 1200 PM	DEMING AIRPORT-LUNA	45 MPH PEAK WIND GUST
NOV 30 1154 AM	SIERRA BLANCA-HUDSPETH	44 MPH PEAK WIND GUST
NOV 30 135 PM	LAS CRUCES AIRPORT-DONA ANA	41 MPH PEAK WIND GUST
NOV 30 102 PM	DELL CITY-HUDSPETH	40 MPH PEAK WIND GUST

# Special Features

[www.weather.gov/epz/elpwindrosedata](http://www.weather.gov/epz/elpwindrosedata)

Month: NOVEMBER

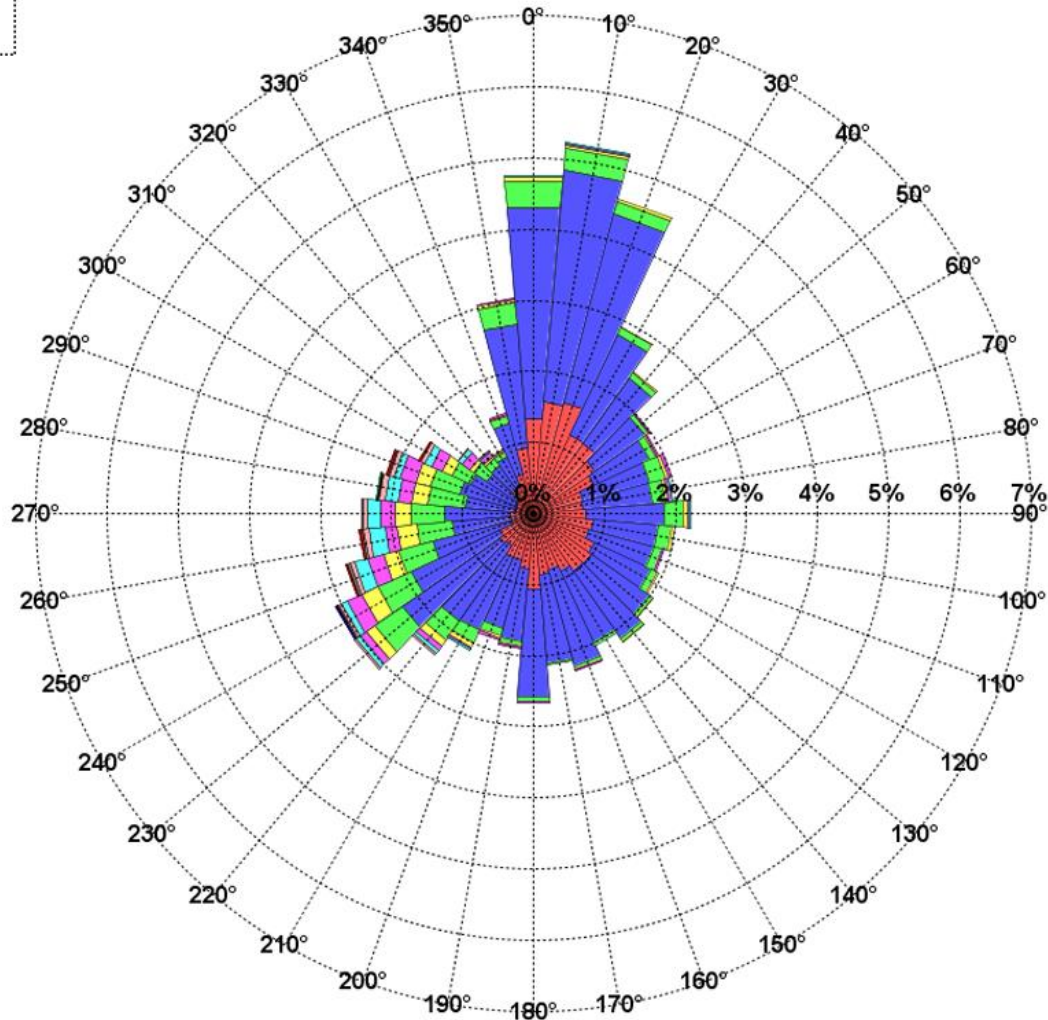
Calm: 12.23%

Variable: 2.30%

WindRose - KELP - EL PASO INTL

% Frequency of Wind Speed from a Direction

POR:19730101-20140602



Local forecast by "City, St" or ZIP code  
 Enter location ...   
[Location Help](#)

**Heavy Rain and Flash Flooding Possible Over Parts of the Eastern United States**  
 Heavy rainfall is expected over portions of the eastern United States through Thursday. Flooding and flash flooding will be possible in some areas. Click the "Read More" link for excessive rainfall forecasts from the Weather Prediction Center. [Read More >](#)

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**NWS El Paso**  
[Weather.gov > El Paso, TX](#)

El Paso, TX  
 Weather Forecast Office

Current Hazards   Current Conditions   Radar   Forecasts   Rivers and Lakes   Climate and Past Weather   **Local Programs**

**Today**

**Wednesday**  
 Warmer with a Few Afternoon Storms  
 Weather Forecast Office  
 El Paso, TX  
 September 27, 2016 4:43 PM

Local forecast by "City, St" or ZIP code  
 Enter location ...   
[Location Help](#)

**Heavy rain expected across the Mid-Atlantic region and central Appalachians.**  
 Heavy rainfall is possible over portions of the eastern United States today, with the highest risk across the Mid-Atlantic and central Appalachians. Click the "Read More" link for excessive rainfall forecasts from the Weather Prediction Center. Afternoon showers and thunderstorms are possible over portions of the Southwest and southern Rockies through Friday. [Read More >](#)

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[Weather.gov > El Paso, TX > Monthly Weather Digest](#)

El Paso, TX  
 Weather Forecast Office

Current Hazards   Current Conditions   Radar   Forecasts   Rivers and Lakes   Climate and Past Weather   **Local Programs**

Southern New Mexico and Far West Texas has a variety of weather from month to month. Conditions can range from extreme drought, to heavy flooding rains, from record breaking heat to bone chilling cold. Below you will find past weather highlights from the area that the NWS office in Santa Teresa NM covers. This area includes the following counties in New Mexico: Hudspeth, Grant, Luna, Sierra, Doña Ana and Otero and the following counties in Texas: El Paso and Hudspeth.

weather.gov/epz

**Don't Forget-Current and past issues of our Weather Digest are available on our website at [www.weather.gov/epz/](http://www.weather.gov/epz/)**

**Just click on "Local Programs>Weather Digest", then choose which month's Digest to view. Also, though discontinued, don't forget to check out our back issues of Southwest Weather Bulletin.**

WEATHER DIGESTS AND BULLETINS	
Weather Digest	Southwest Weather Bulletins
<a href="#">January</a>	2005 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">February</a>	2006 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">March</a>	2007 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">April</a>	2008 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">May</a>	2009 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">June</a>	2010 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">July</a>	2011 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">August</a>	2012 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">September</a>	2013 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">October</a>	2014 <a href="#">Spring</a> <a href="#">Fall</a>
<a href="#">November</a>	
<a href="#">December</a>	