

# February 2025 Weather Digest



# February 2025 Weather Summary

After a cool January, February ended up being very warm, with most sites reporting temperatures 4 to 6 degrees above normal. For much of the month, the storm track remained well north of the area, allowing dry, warm air across the Borderland. A weak La Niña pattern continued through the month, which usually spells warmer, drier weather. Even notorious cold sites such as Gila Hot Springs, Mule Creek, and the mountains avoided typical low temperatures in the single digits. On February 26-27 a strong back door (moving west) cold front swept across southern New Mexico, and uncharacteristically created dense blowing dust across areas close to the International Border.

As is often the case, when unseasonably warm temperatures arrive, precipitation disappears. Most of the area ended up at about 5-10 percent of normal. A few spots in the Gila were fortunate enough to receive about 50 percent of normal. Most sites received most or all of their monthly precipitation on the 14<sup>th</sup> and 15<sup>th</sup> as a Pacific storm was able to sweep far enough south across the area. Obviously with the dry pattern, mountain snowfall was also well below normal.

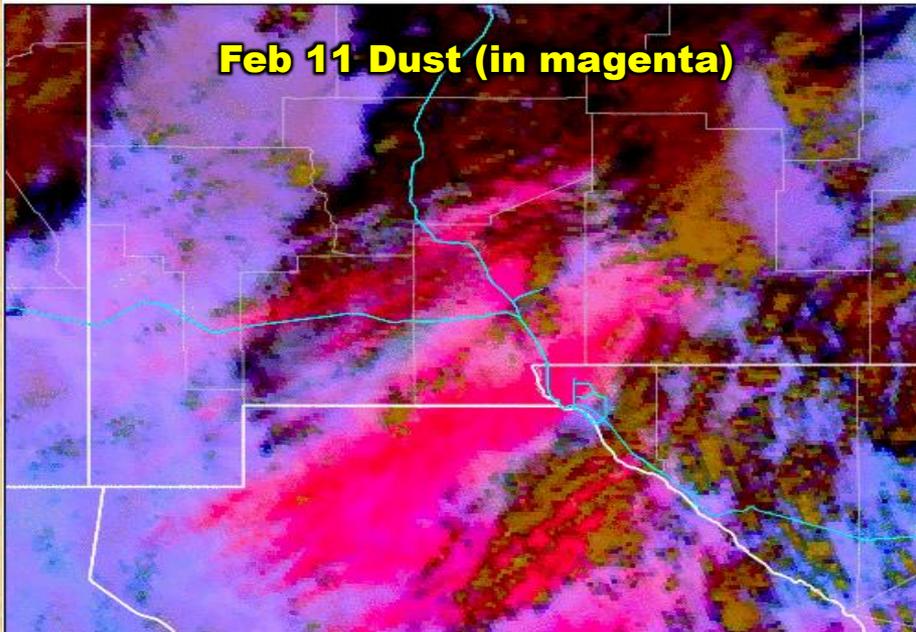
# February 2025 Weather Summary

Looking ahead to March, we continue to gain daylight and warmth. At El Paso, daylight on March 1 is 11 hours and 31 minutes, while on March 31 the daylight has increased to 12 hours and 30 minutes; a total gain of 59 minutes. Also don't forget, we switch back to Daylight Savings Time (move ahead one hour) on March 9. At El Paso, the average high temperature on March 1 is 67°, warming to 76° on March 31. The record high temperature at El Paso for March is 93°. Also, Spring Equinox falls on March 20th. This date signifies the Sun being directly over the Equator, with nearly equal (12 hours) of day and night. Because of refraction and non-perfect sphere of Earth, our equal day/night locally occurs on March 16.

For our sky watchers, the March full moon occurs on the 14<sup>th</sup>, and is commonly known as the Worm Moon. Of more note, a total lunar eclipse will take place early morning of the 14<sup>th</sup>. This will be viewable across all of North America, assuming favorable cloud conditions. The new moon occurs on the 29<sup>th</sup>.

# Dust

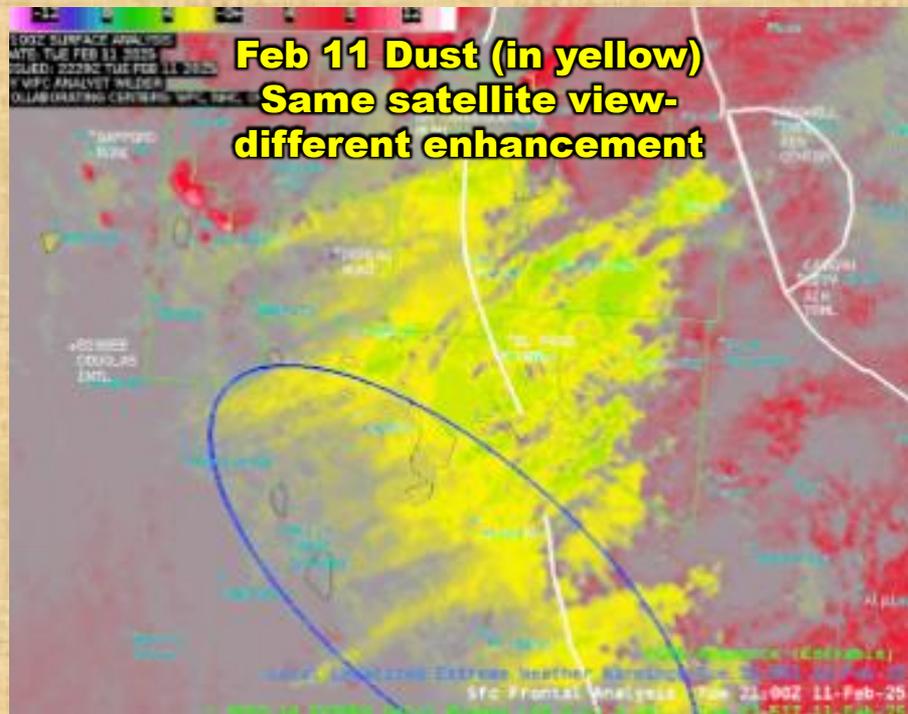
## Feb 11 Dust (in magenta)



## Feb 11 Dust over the Franklin Mtns



## Feb 11 Dust (in yellow) Same satellite view- different enhancement



## Feb 11 Dust in Santa Teresa



**Feb 11 Dust at El Paso**



**Feb 14 Dusting of snow near Silver City**



**Feb 27 Blowing Dust west of Lordsburg**

I-10 LORDSBURG @ MM 12



**E**



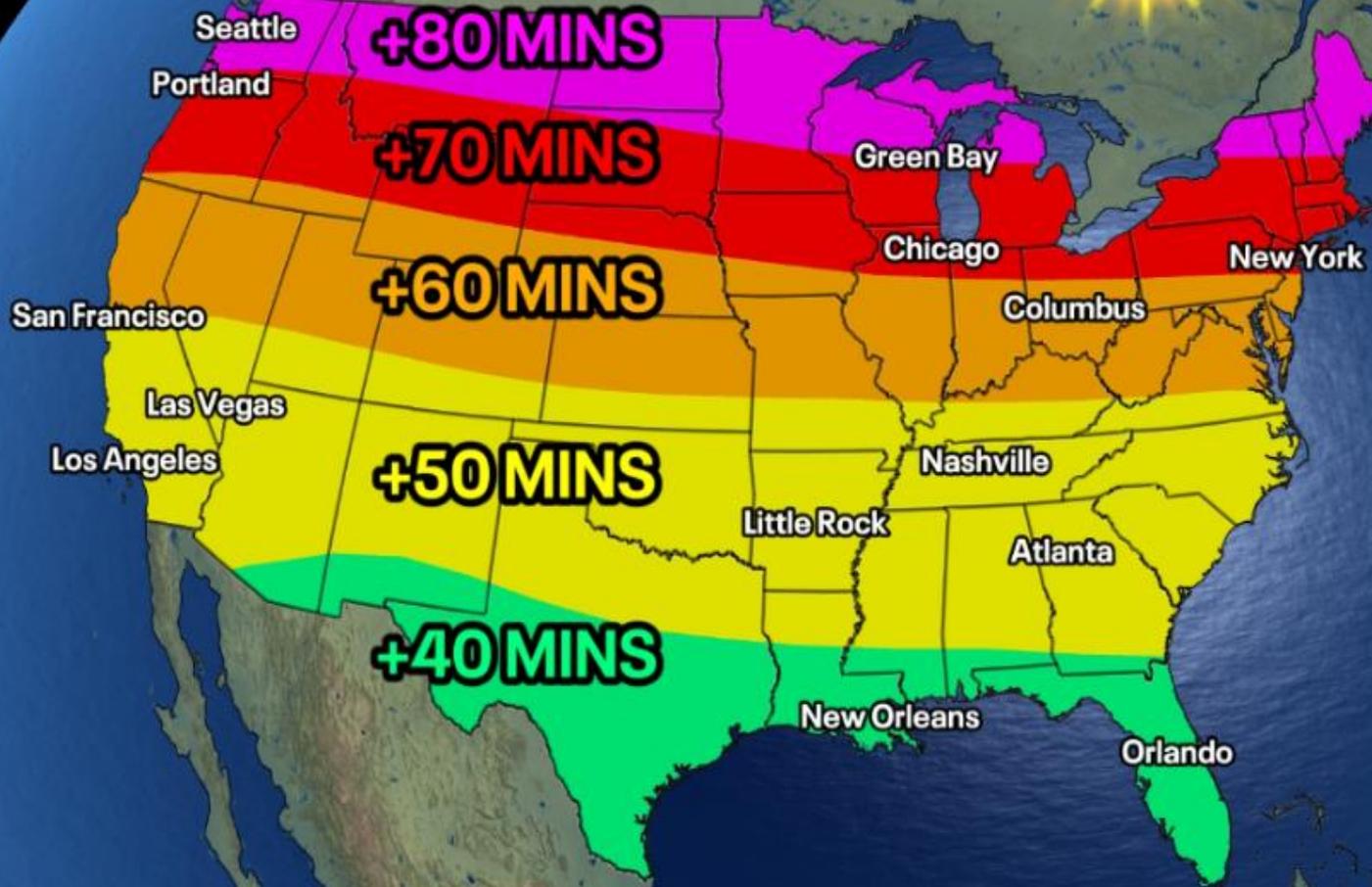
# Amount of daylight gained during February

**FOX 35**

**DAYLIGHT GAINED**

**STORM TEAM**

**DURING FEBRUARY**



# **ENSO Alert System Status:** **La Niña Advisory is in effect**

## **ENSO Alert System**

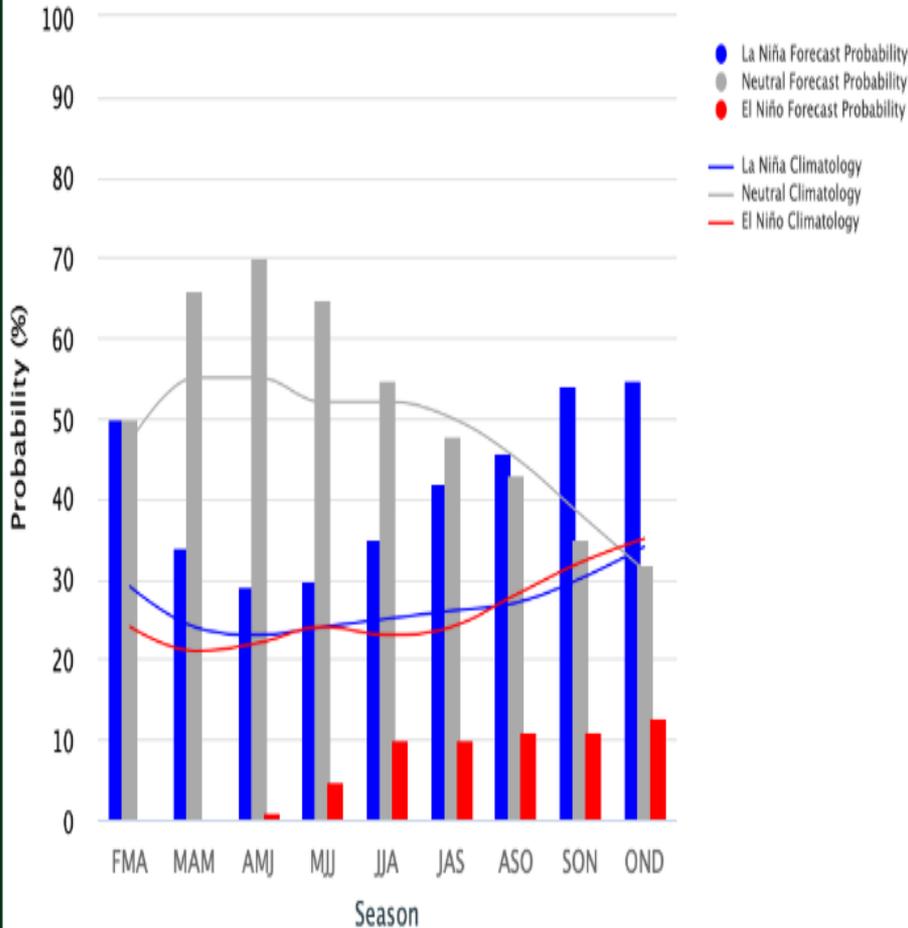
- **El Niño or La Niña Watch:** Issued when conditions are favorable for the development of El Niño or La Niña conditions in the next six months.
- **El Niño or La Niña Advisory:** Issued when El Niño or La Niña conditions are observed and expected to continue.

# ENSO Forecast

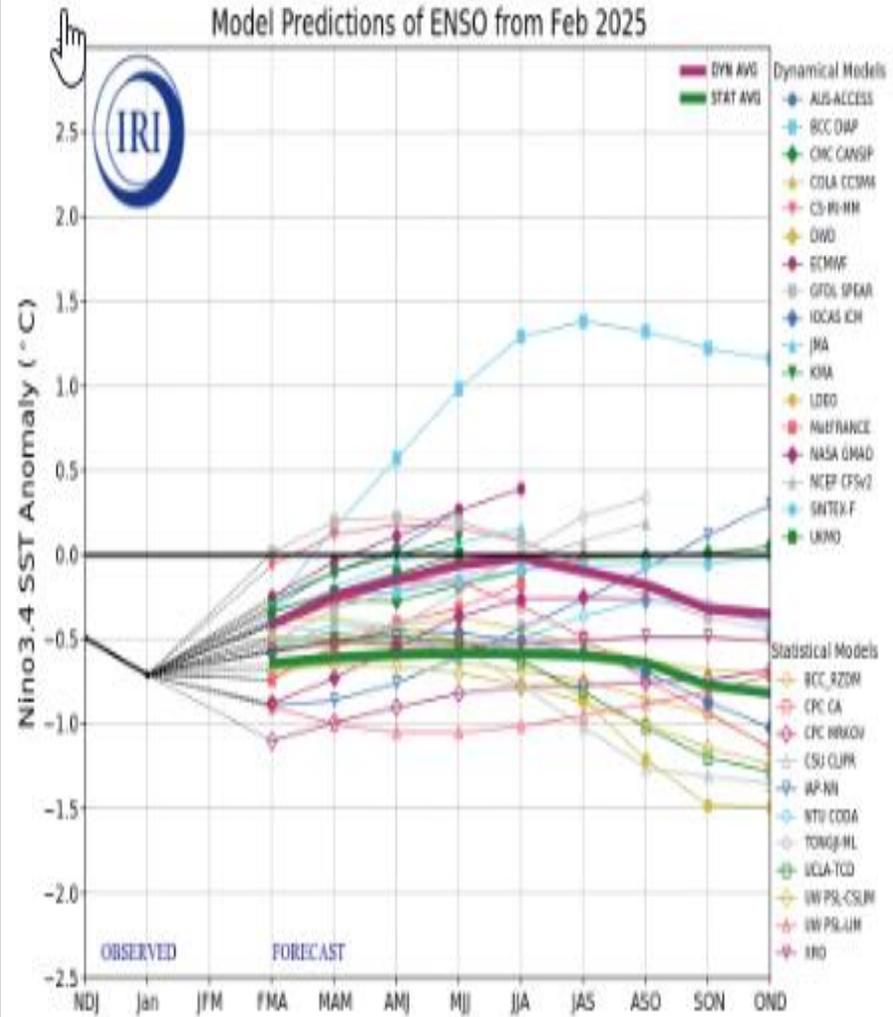
**ENSO is in La Niña phase, with a shift back to neutral by the end of Spring**

Mid-February 2025 IRI Model-Based Probabilistic ENSO Forecasts

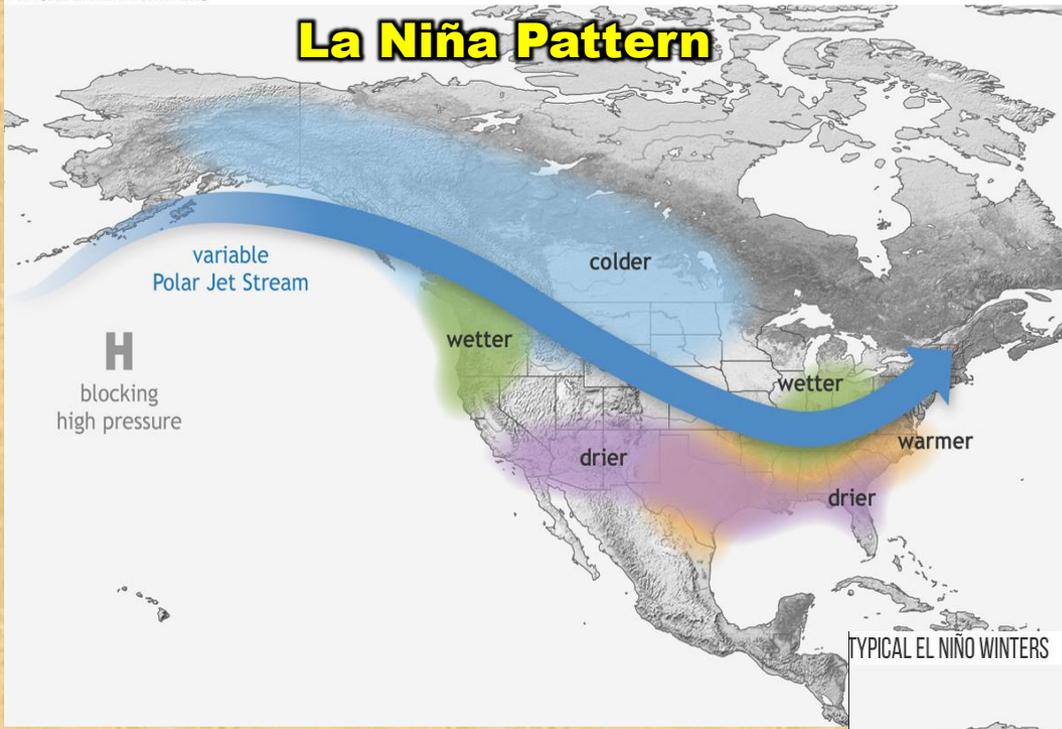
ENSO state based on NINO3.4 SST Anomaly Neutral ENSO:  $-0.5^{\circ}\text{C}$  to  $0.5^{\circ}\text{C}$



Model Predictions of ENSO from Feb 2025

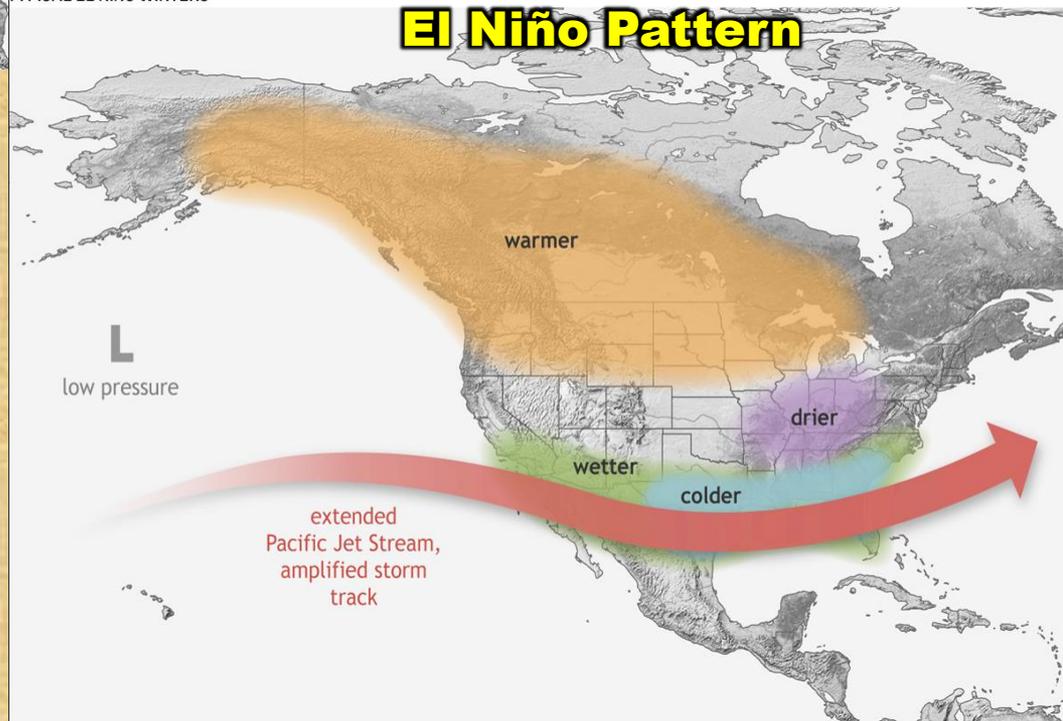


# La Niña Pattern



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



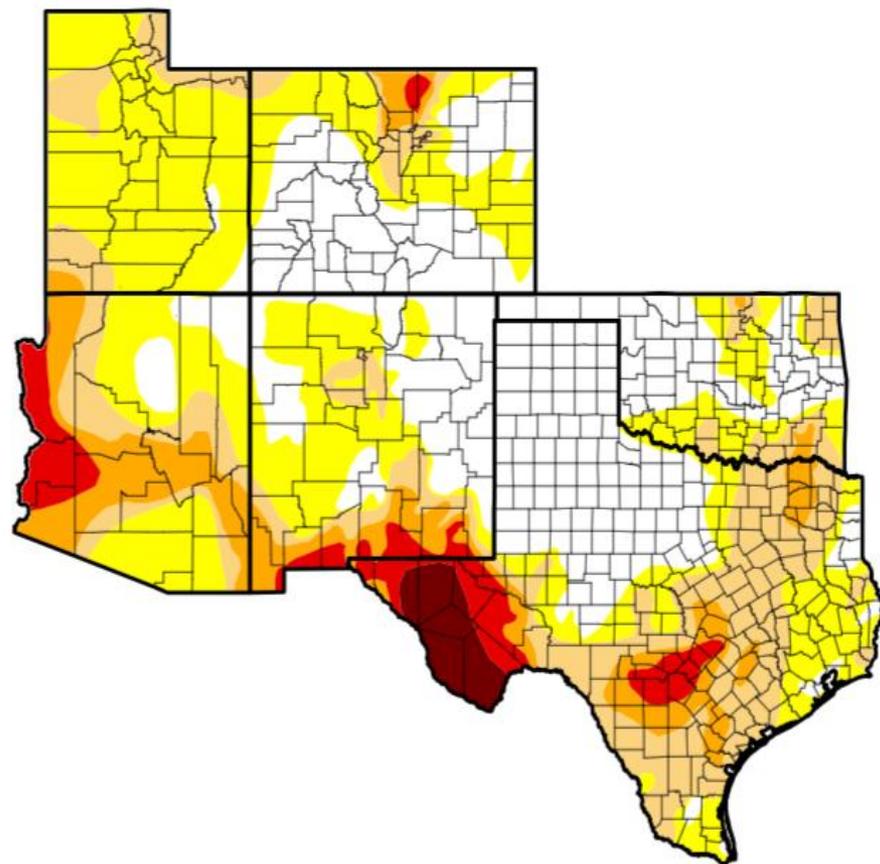
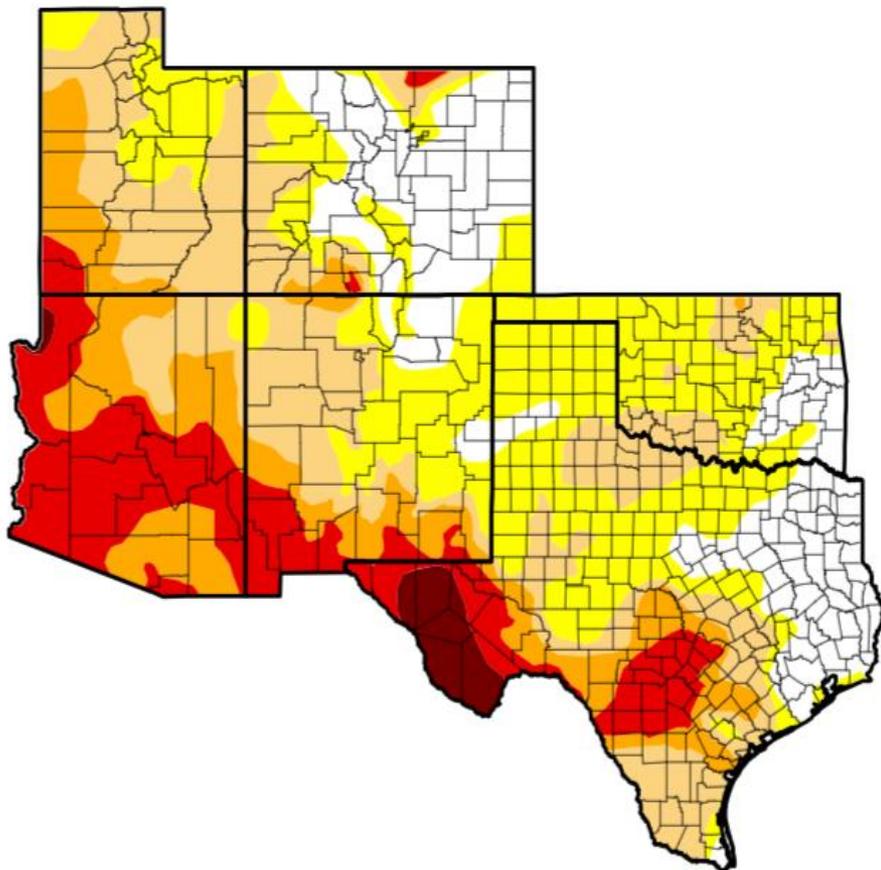
With El Niño, we often see the opposite pattern where the eastern Pacific ridge of high pressure is often weak or non-existent, allowing winter storms to sweep across the southern U.S. This typically will give the southwestern U.S. above normal precipitation.

# Current drought conditions and 3 month change

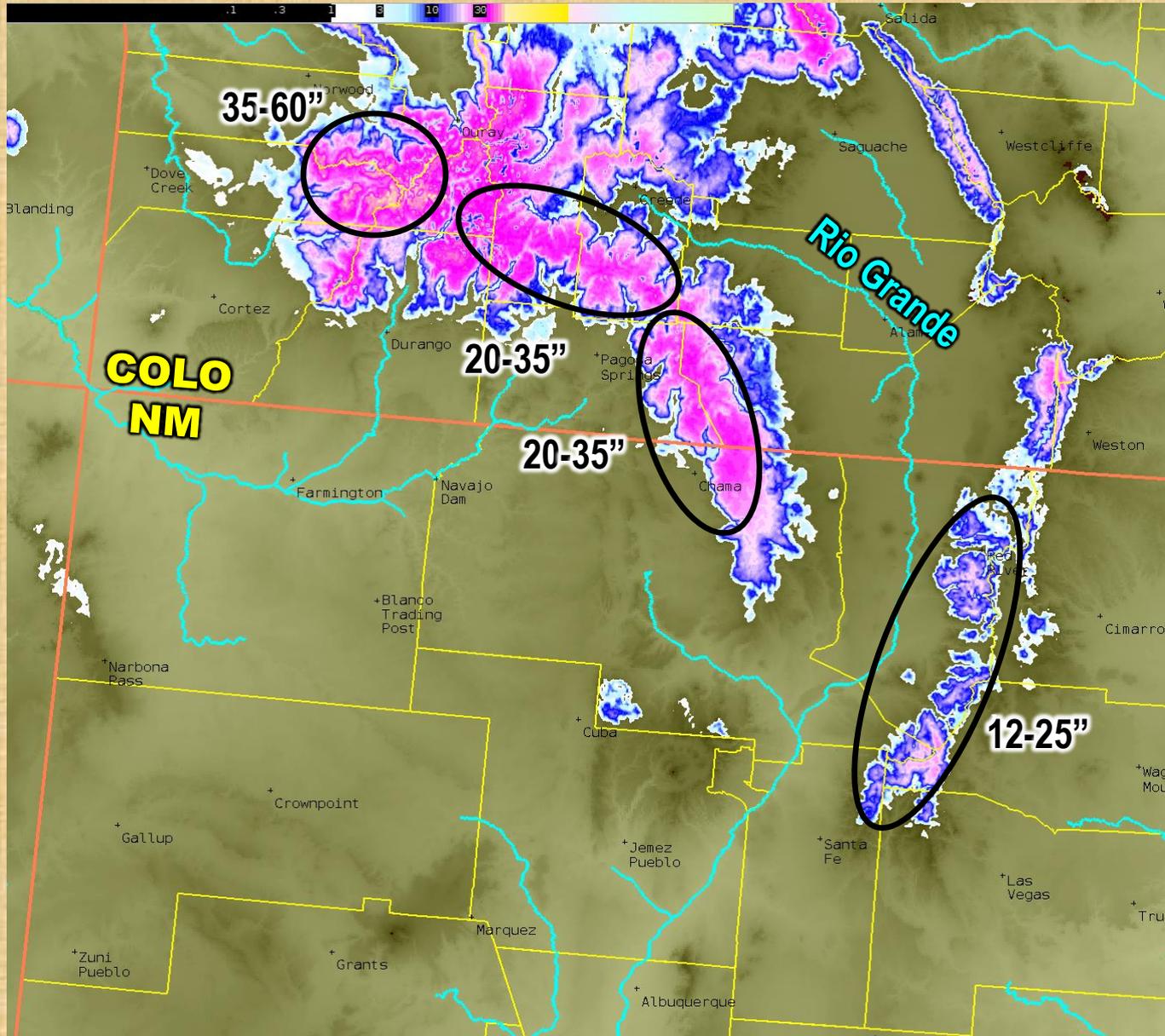
- Abnormally Dry – D0
- Moderate Drought – D1
- Severe Drought – D2
- Extreme Drought – D3
- Exceptional – D4

**Feb 25, 2025**

**Nov 26, 2024**

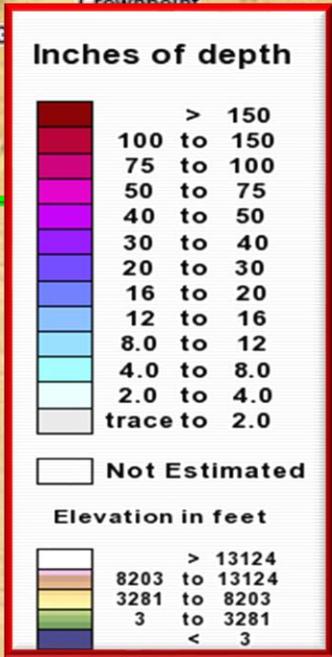
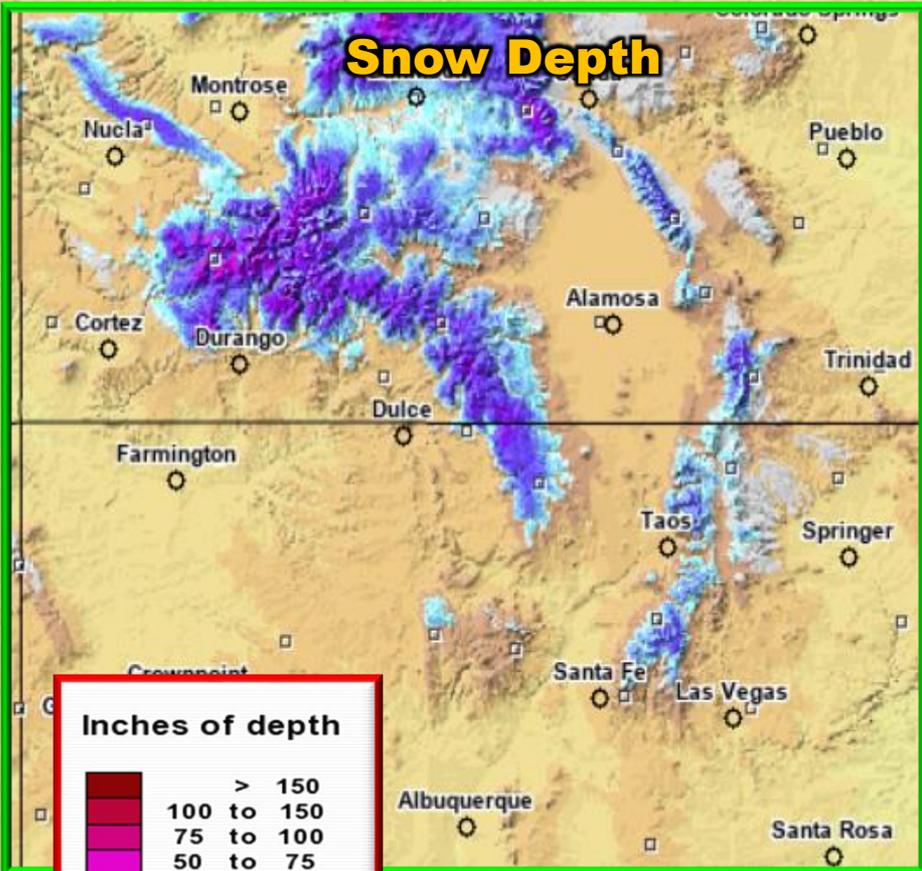


# February 28, 2025 Snow Depth Upper Rio Grande Basin

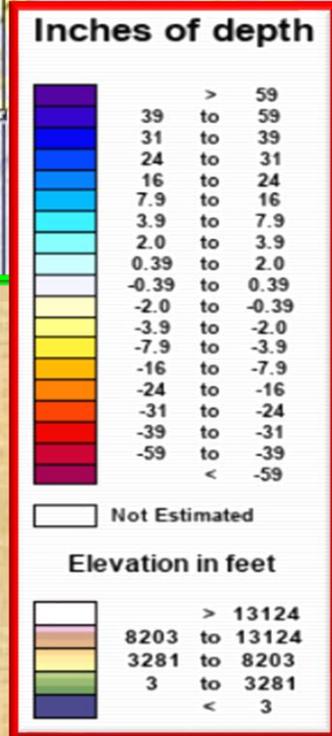
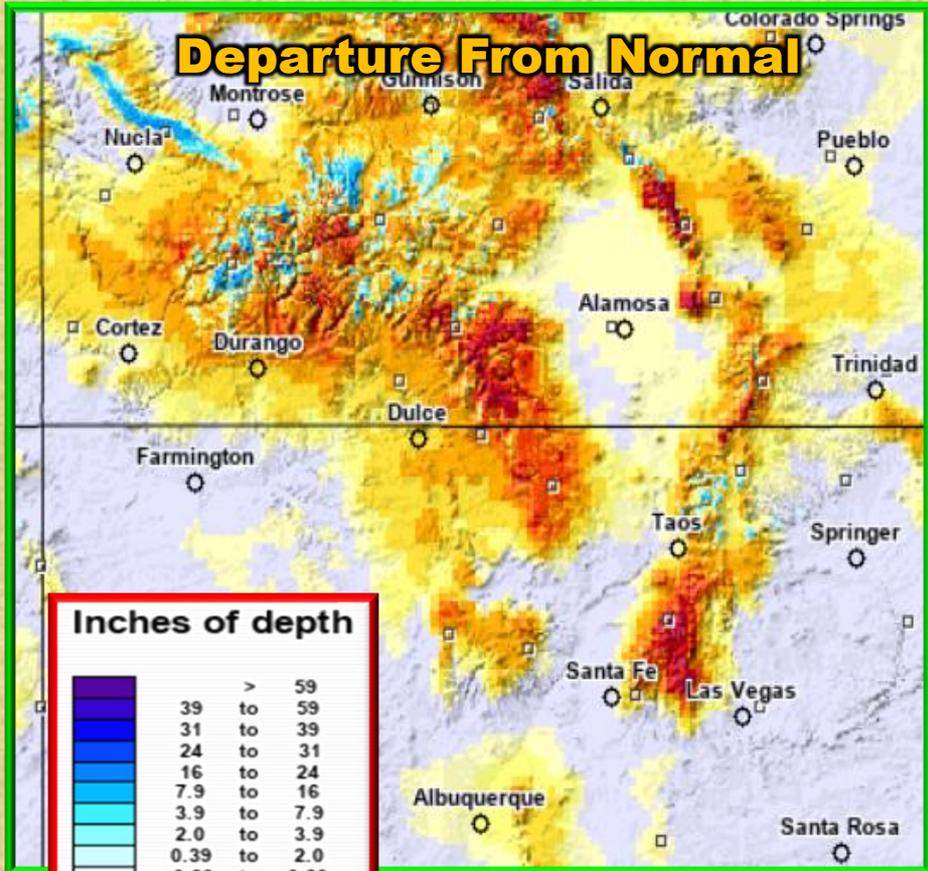


# Snow Data Upper Rio Grande Basin as of Feb 28, 2025

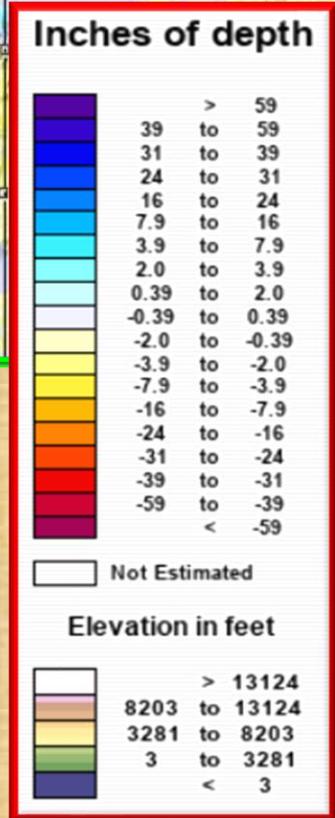
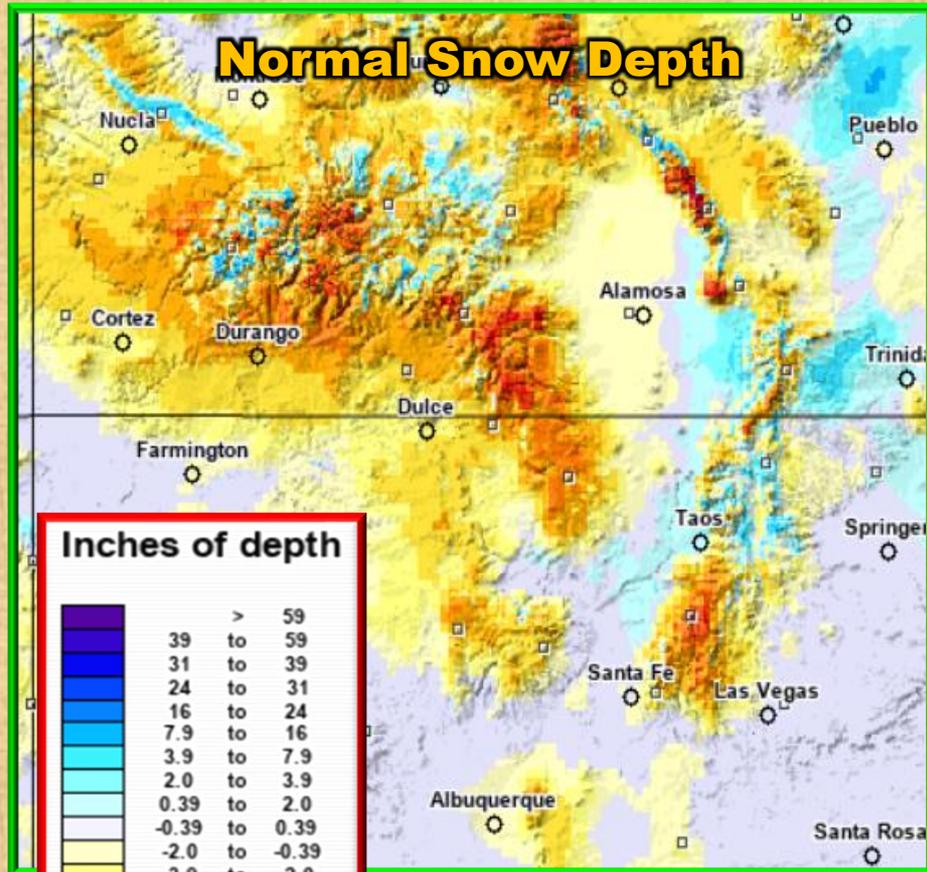
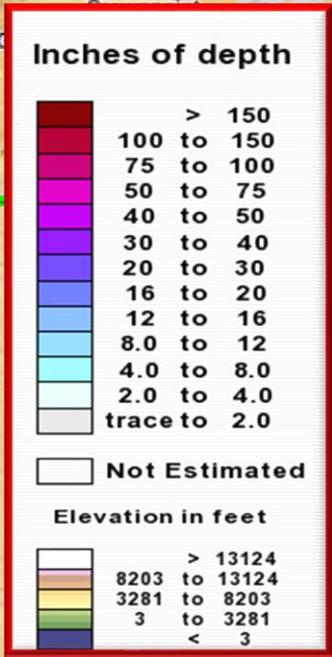
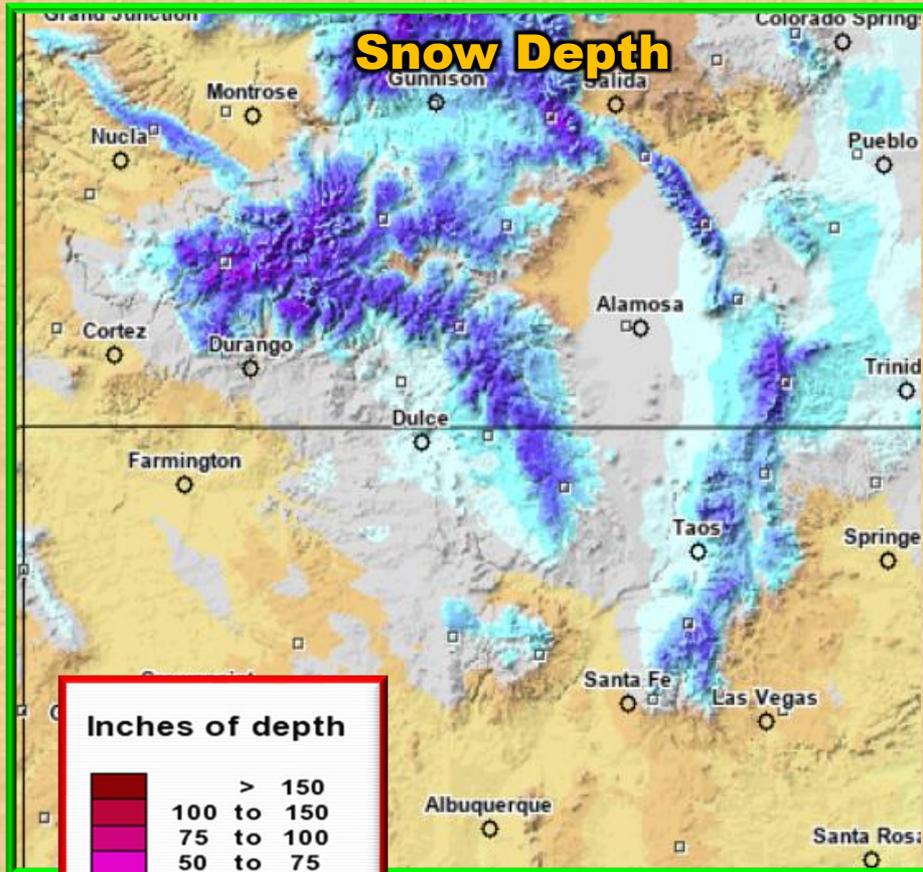
## Snow Depth



## Departure From Normal

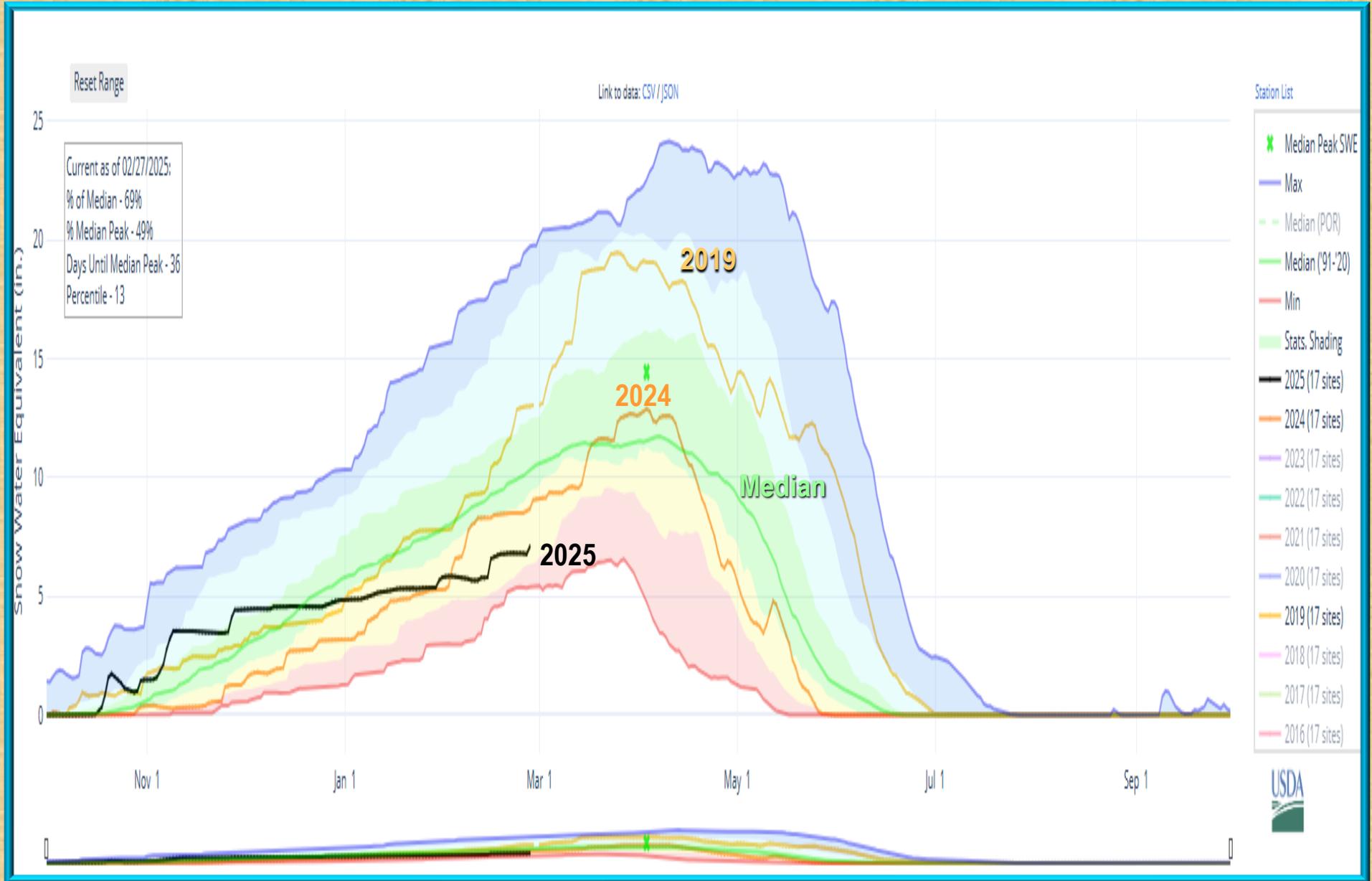


# Snow Data Upper Rio Grande Basin as of Jan 31, 2025



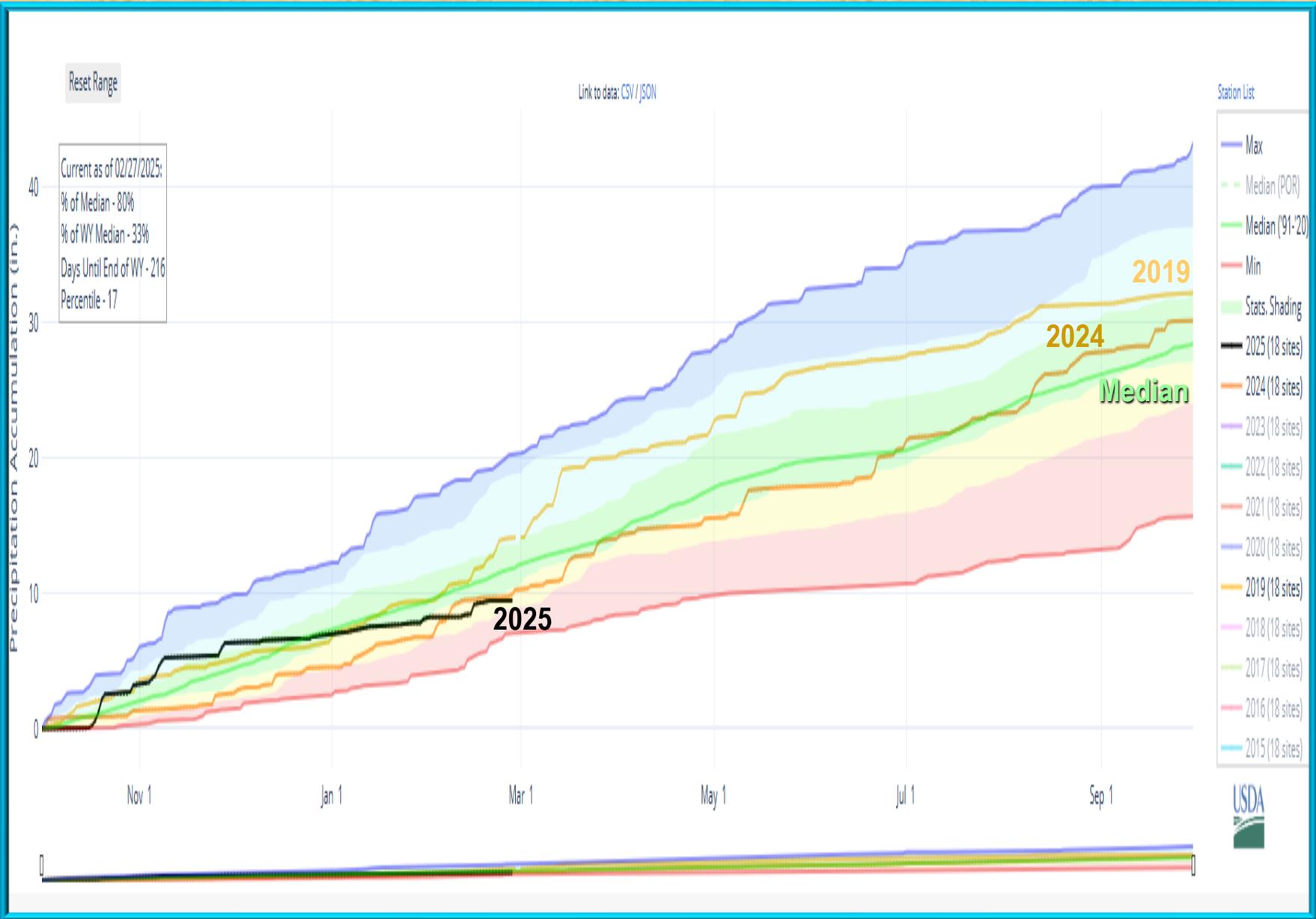
# Snow Water Equivalent as of Feb 28, 2025

## Compare to last few years and average values



# Precipitation for the Water YTD Oct 1 – Feb 28, 2025

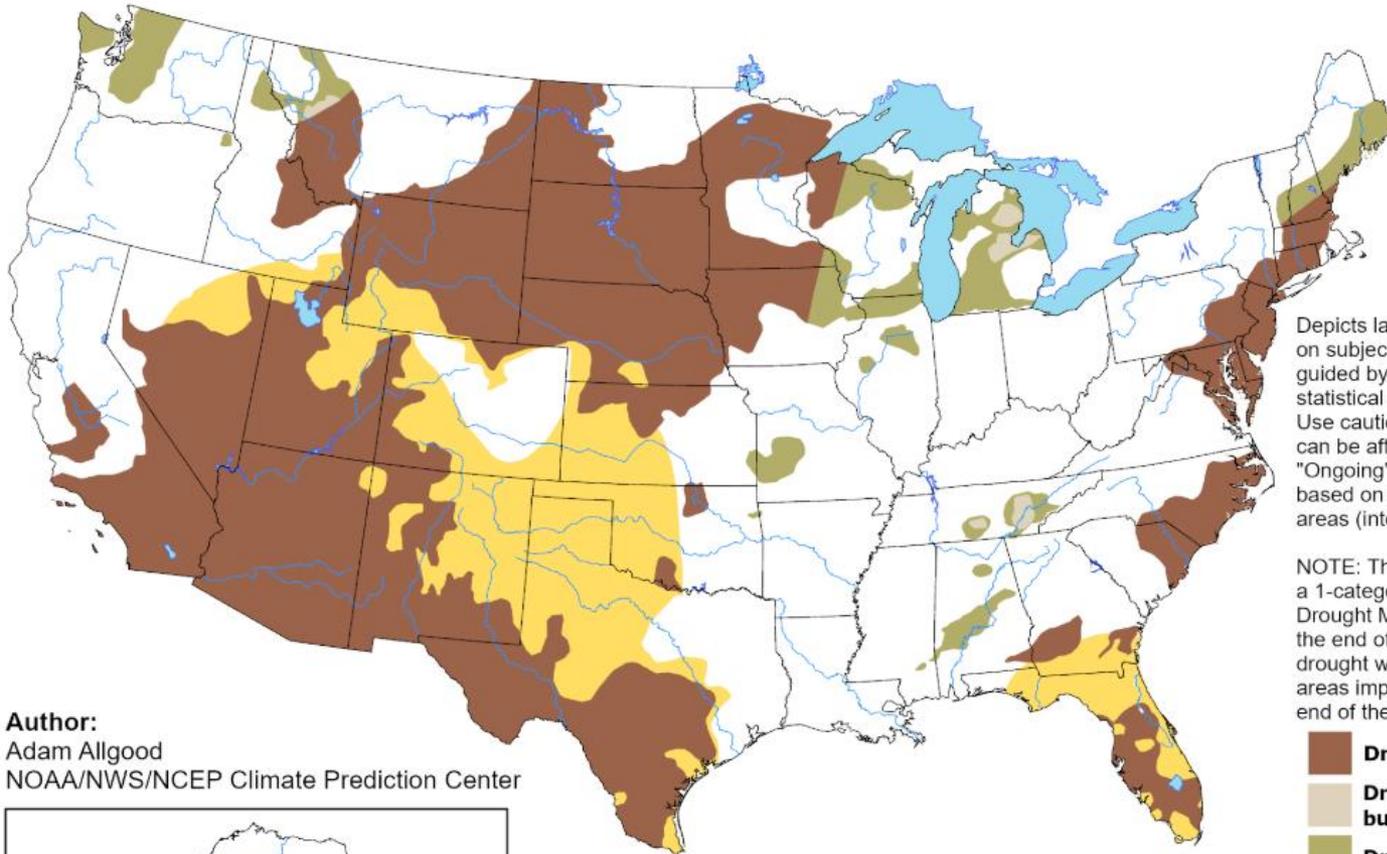
## Compare to last few years and average values



# U.S. Seasonal Drought Outlook

## Drought Tendency During the Valid Period

Valid for February 20 - May 31, 2025  
Released February 20, 2025

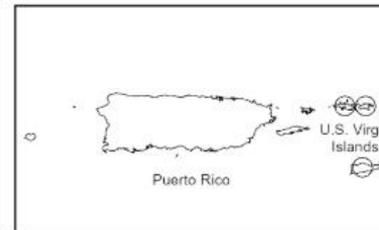
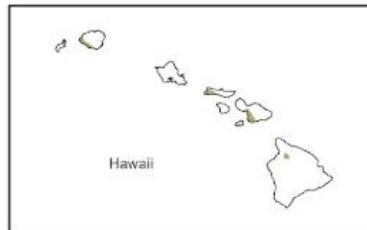


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

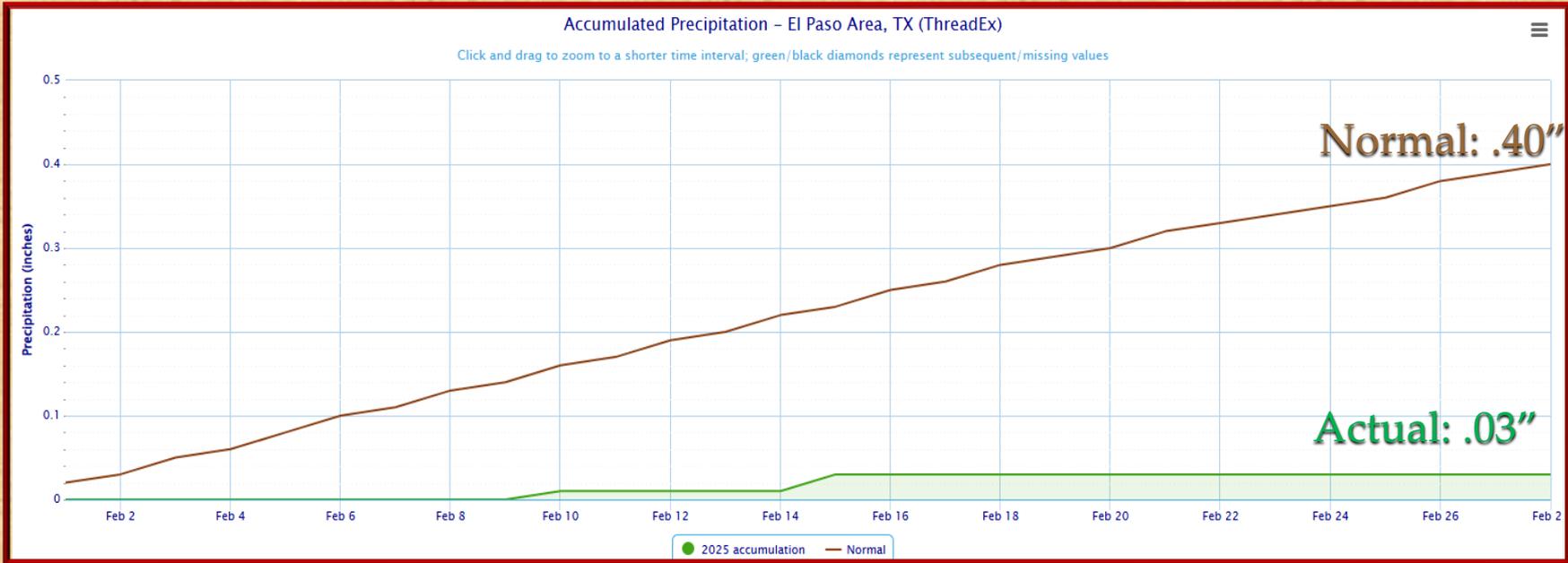
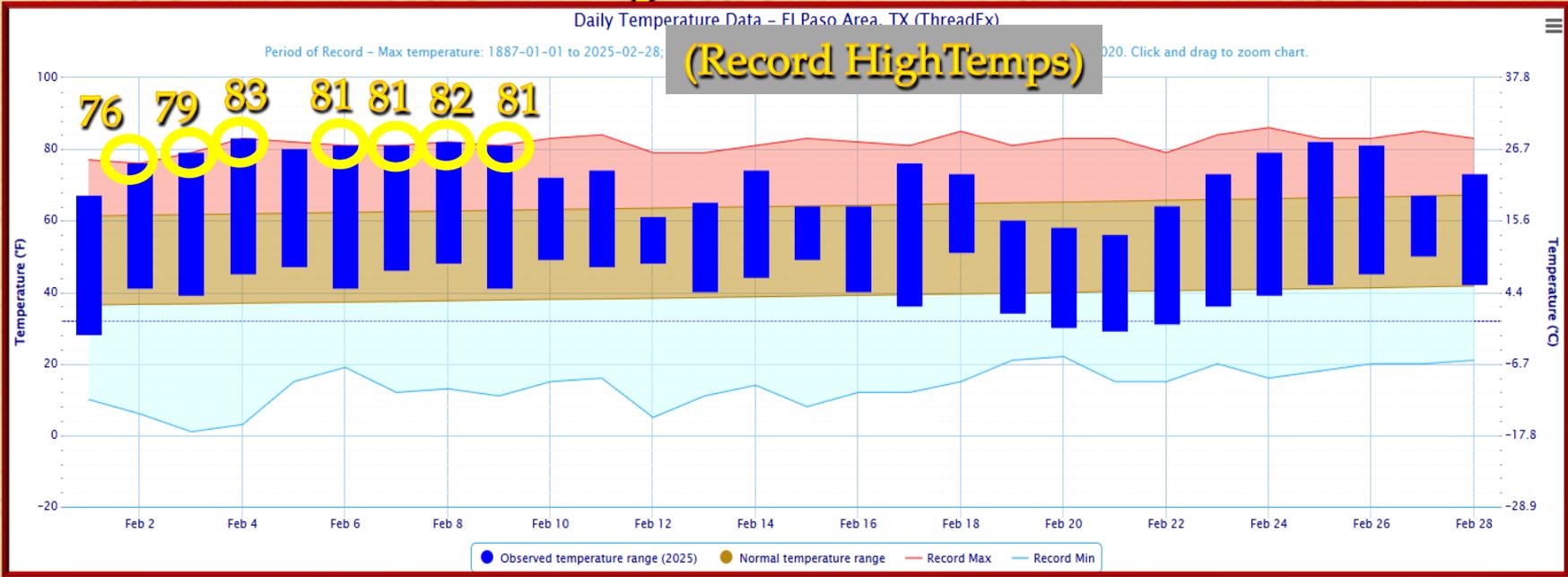
**Author:**  
Adam Allgood  
NOAA/NWS/NCEP Climate Prediction Center



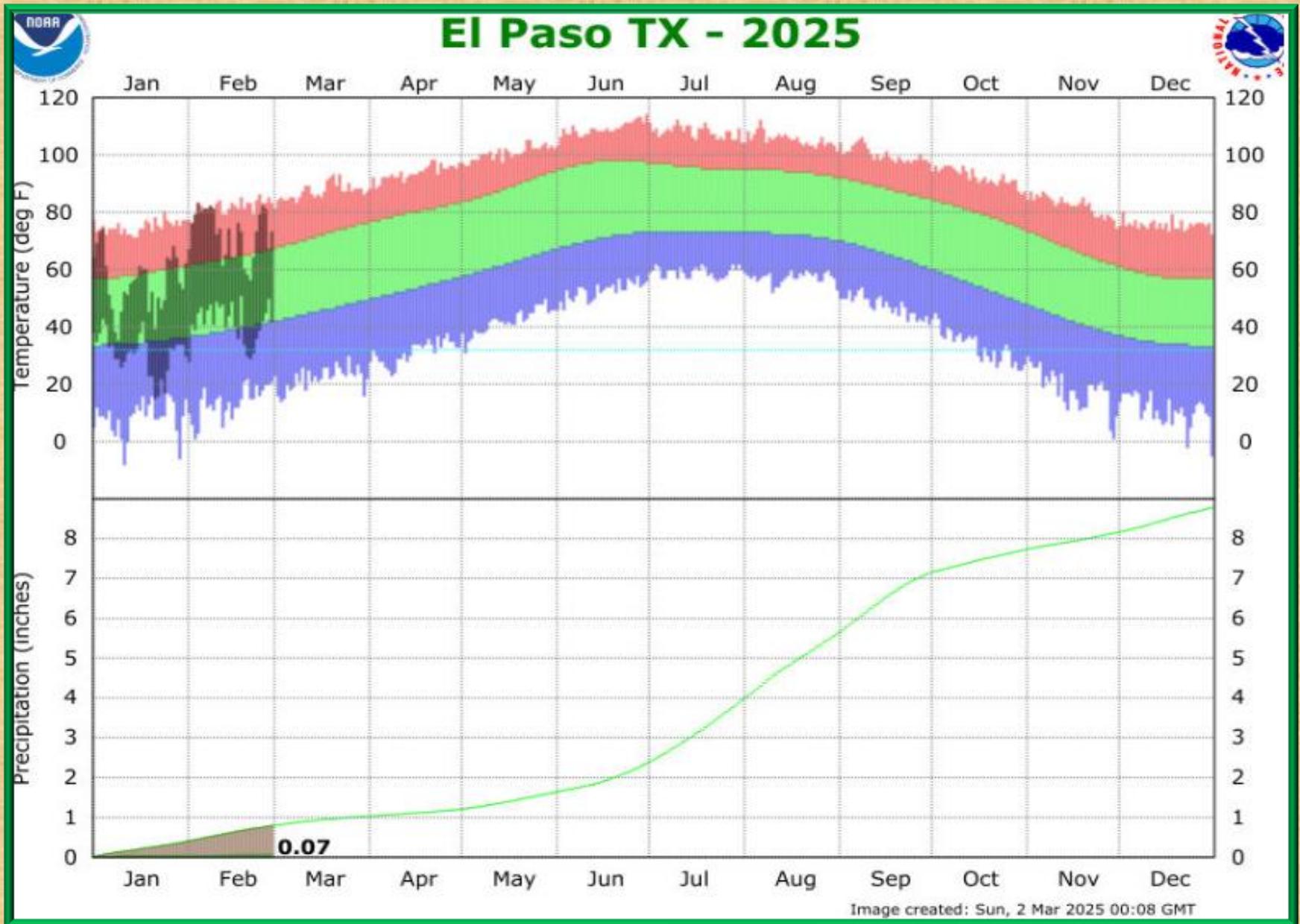
<https://go.usa.gov/3eZ73>

# Temperature and precipitation data for February 2025 in El Paso

○ = record

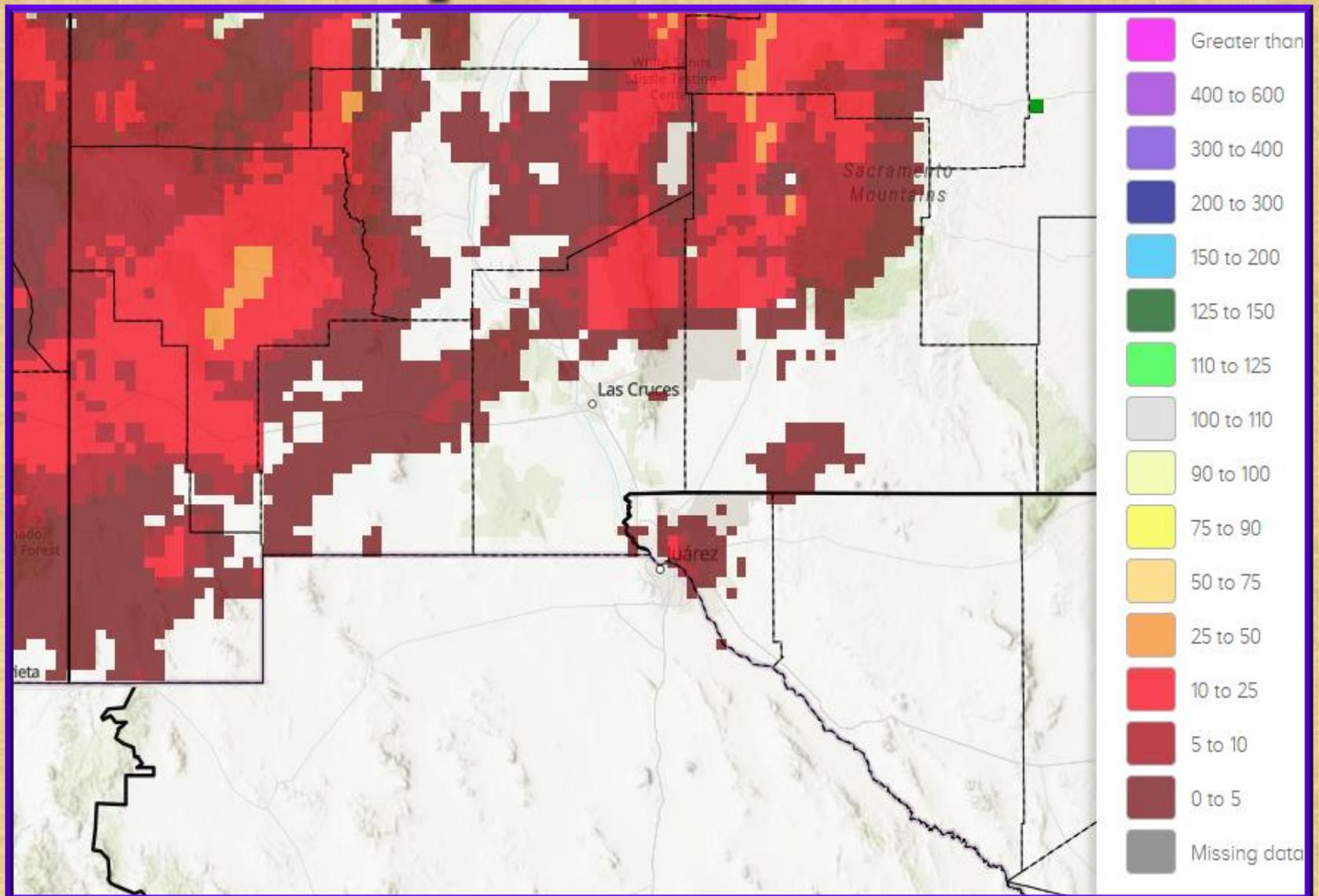


# 2025 Temperature and Precipitation through February El Paso

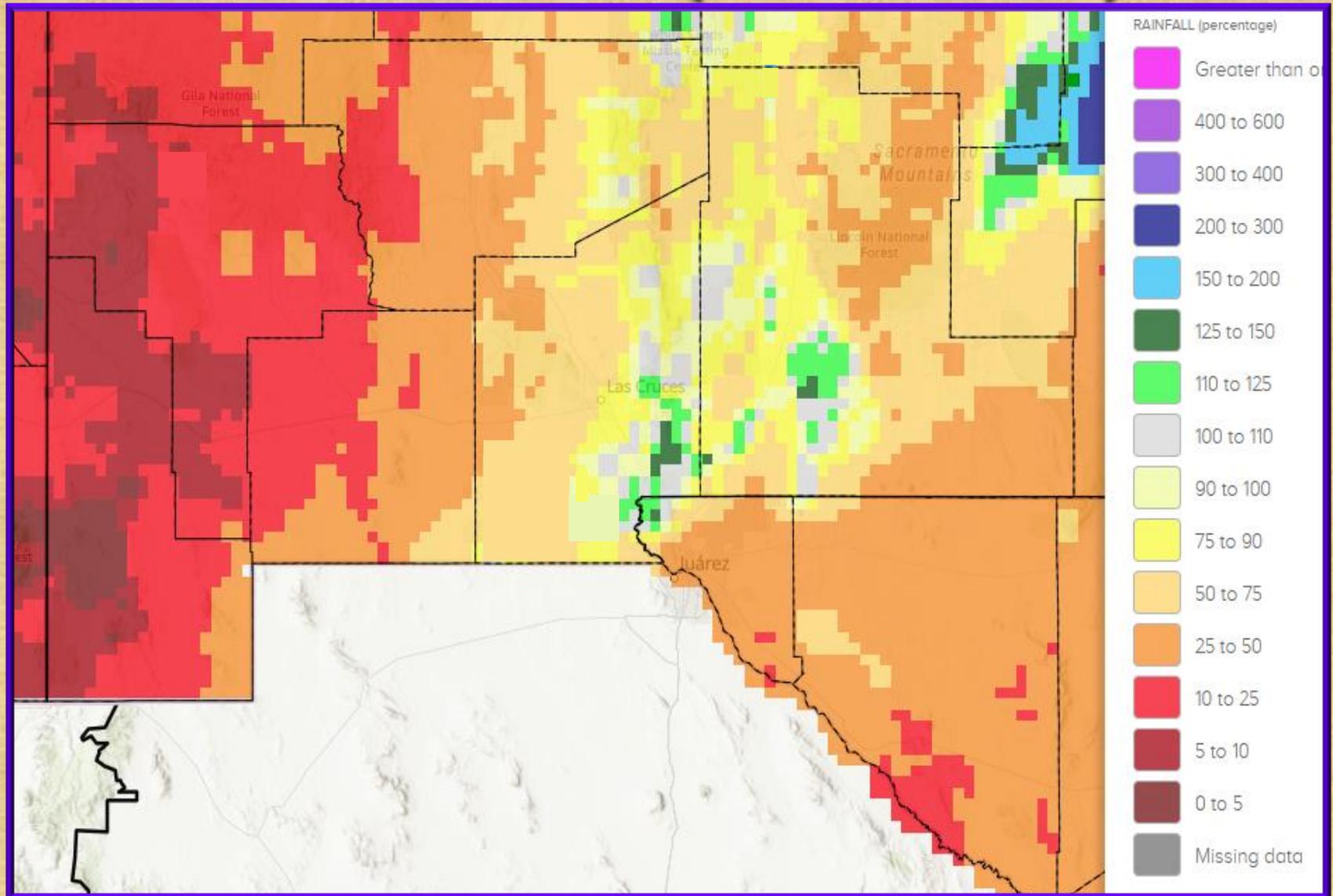




# February 2025 rainfall estimate percent of normal



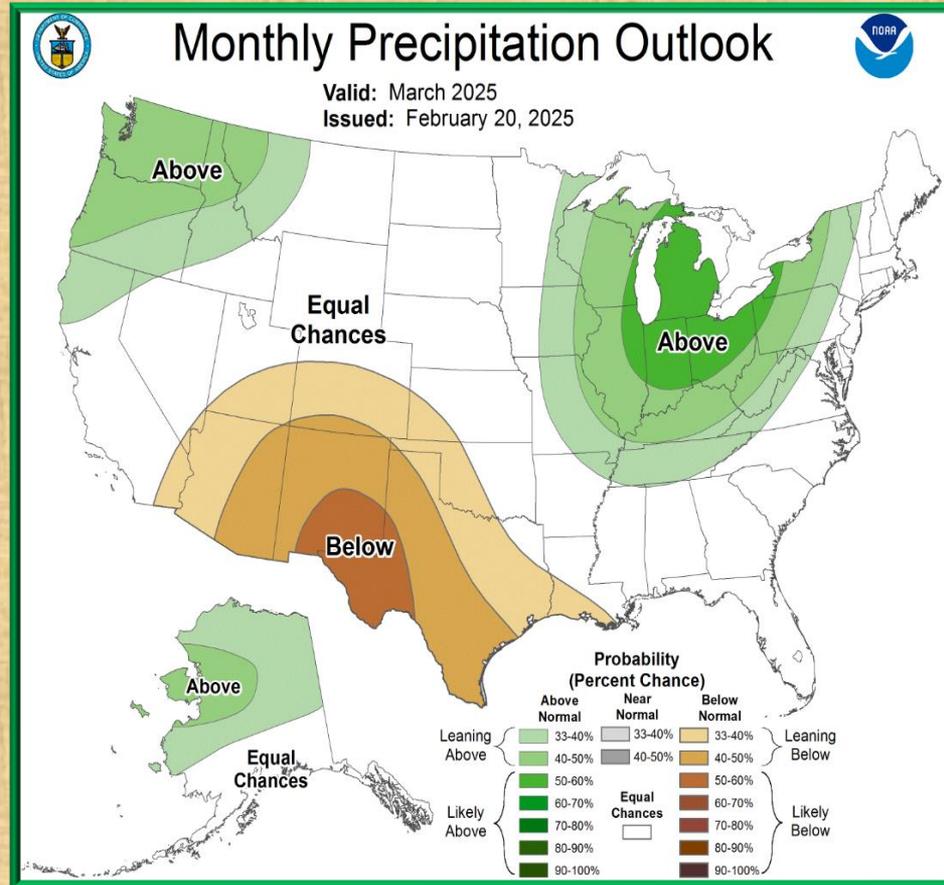
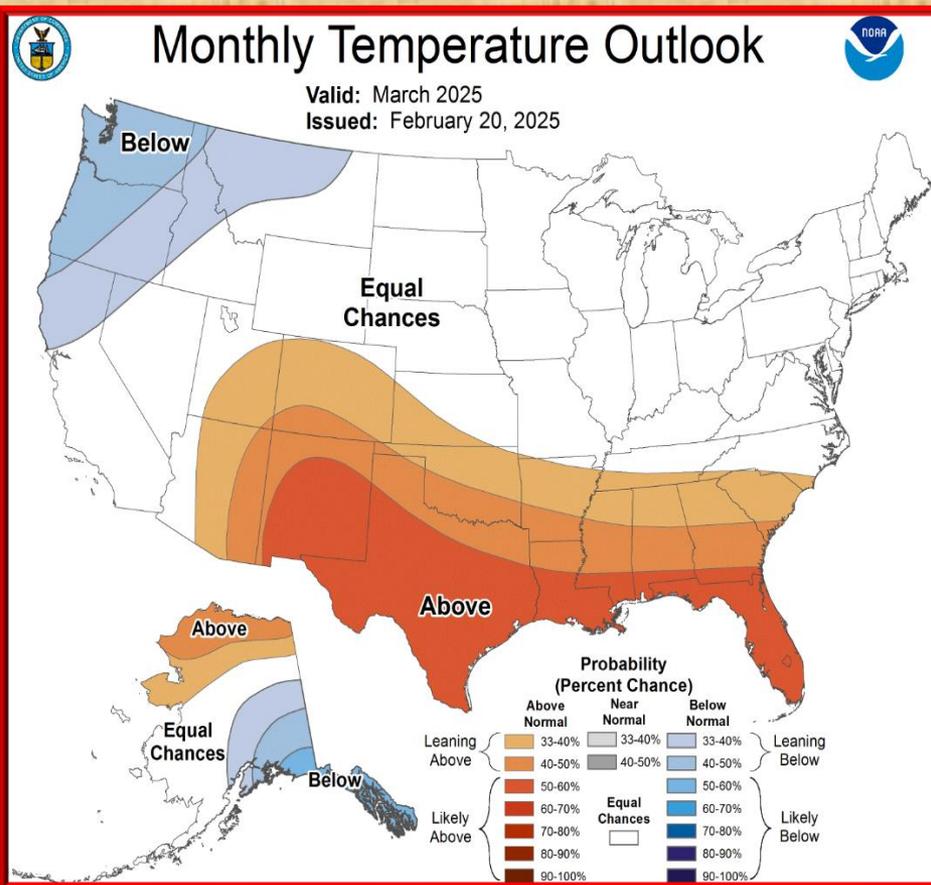
# Radar rainfall estimate percent of normal for the Water Year (Oct 1 – Feb 28)



# Temperature and precipitation outlook For Mar 2025

## Temperature

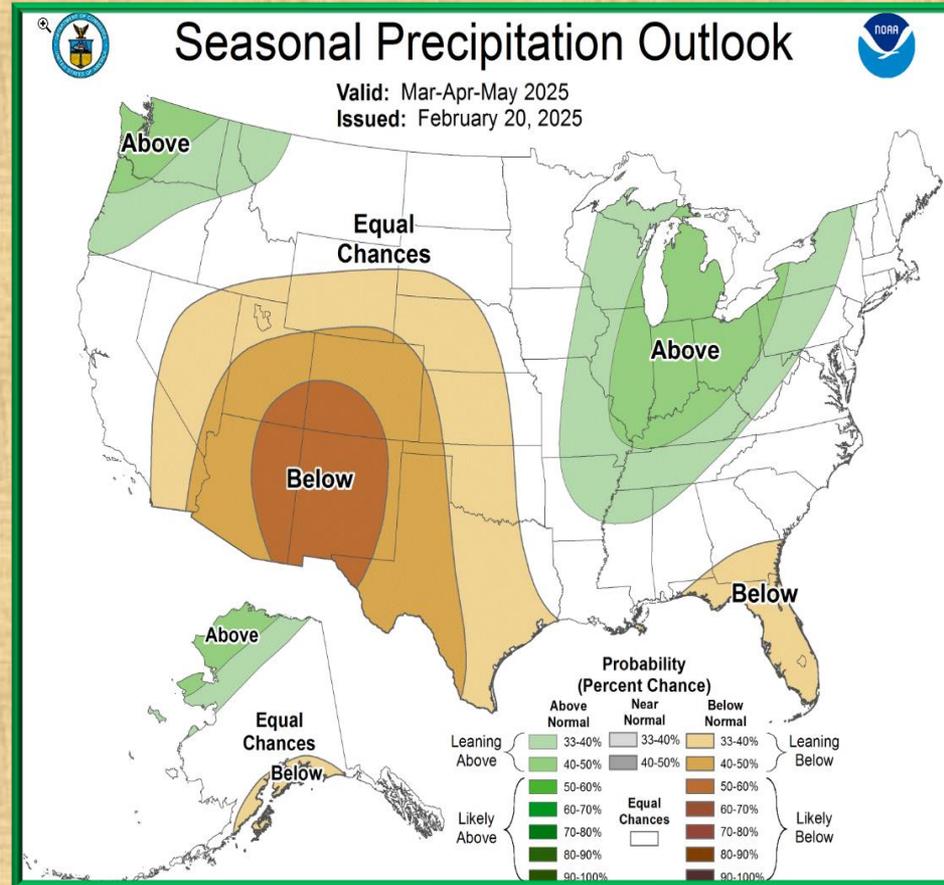
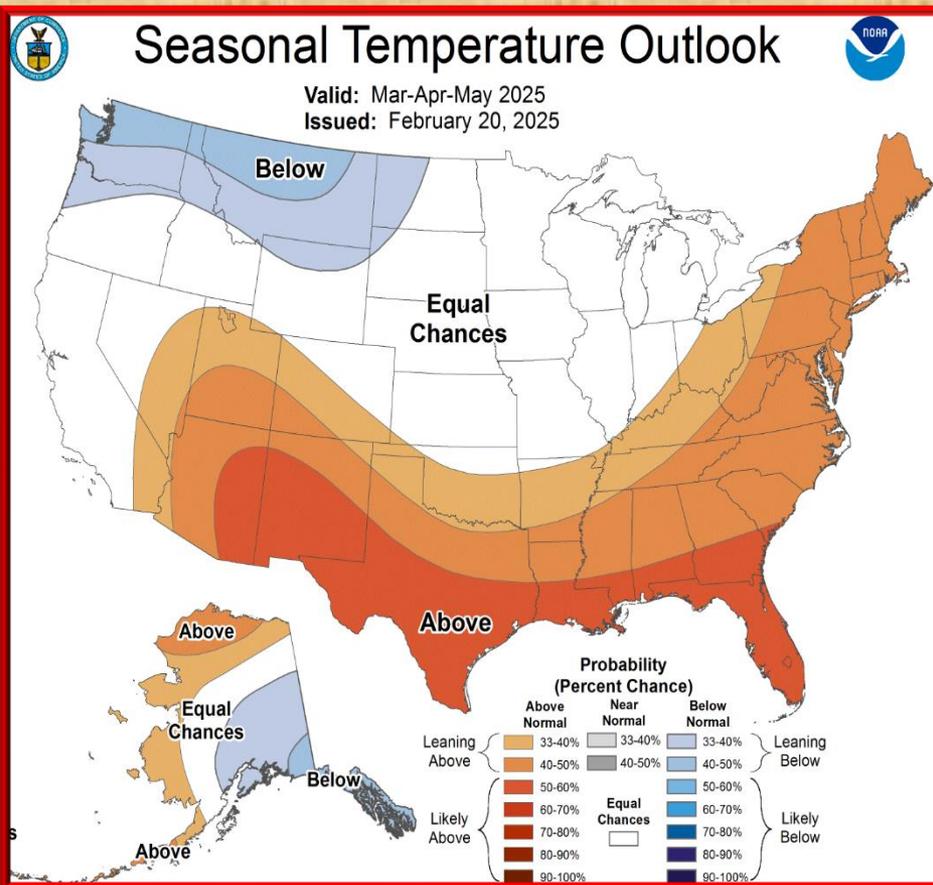
## Precipitation



# Temperature and precipitation outlook for Mar-May 2025

## Temperature

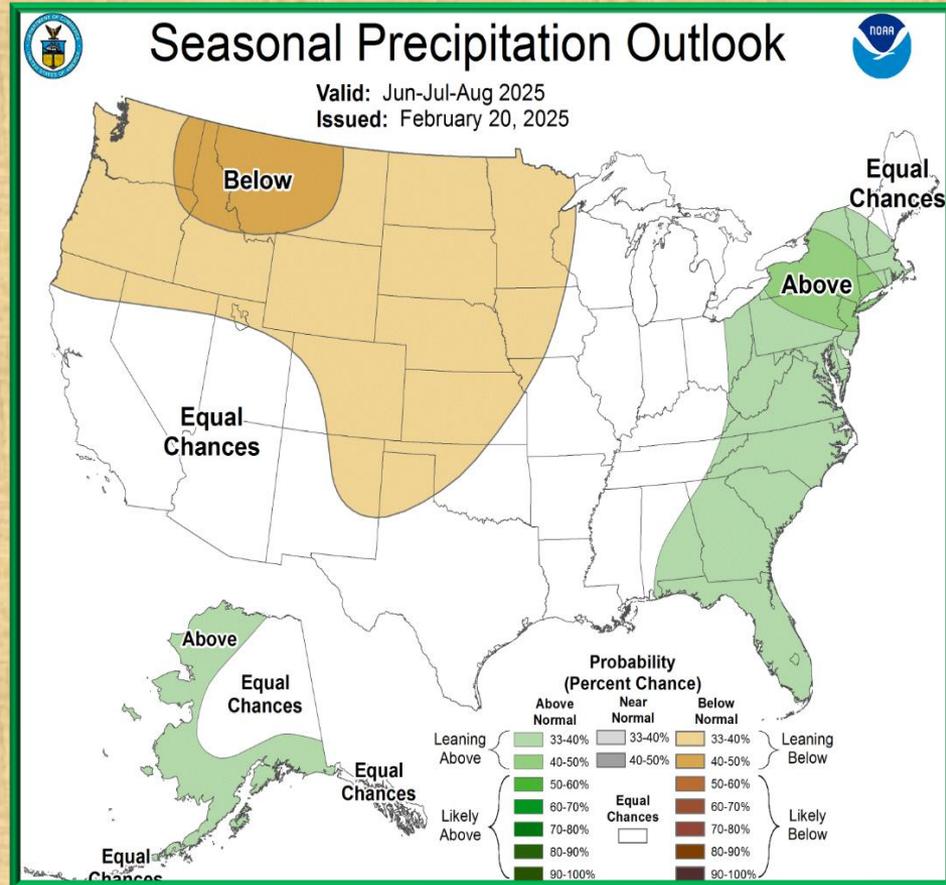
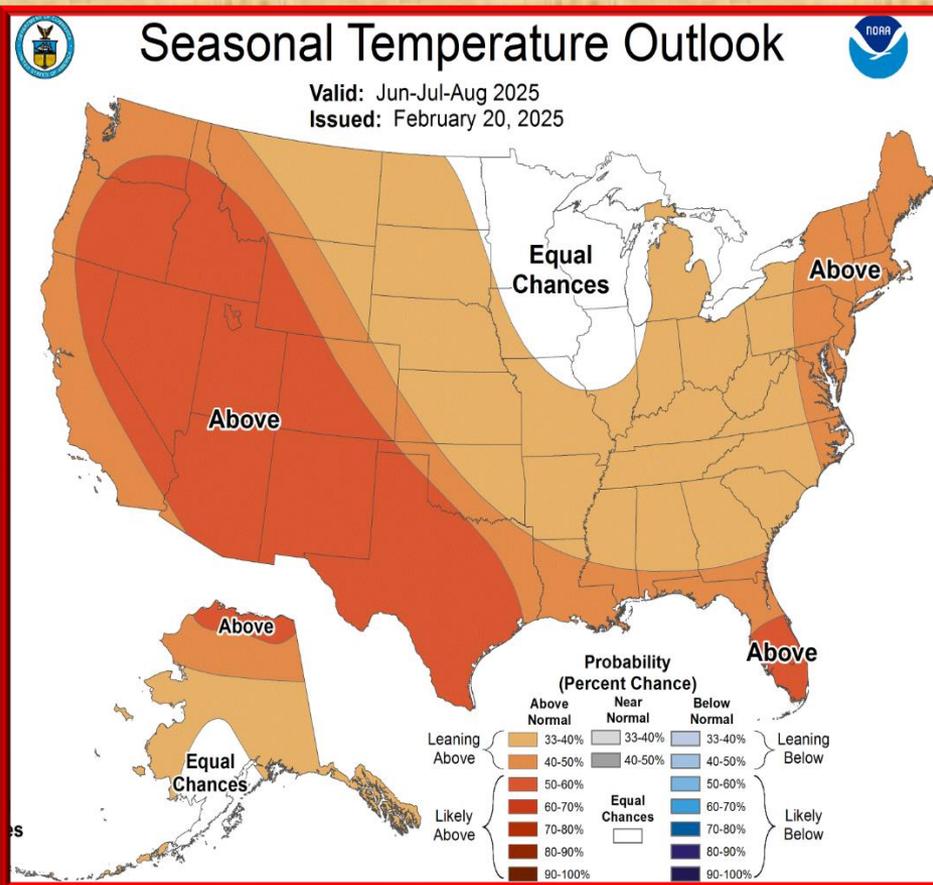
## Precipitation



# Temperature and precipitation outlook for Jun-Aug 2025

## Temperature

## Precipitation

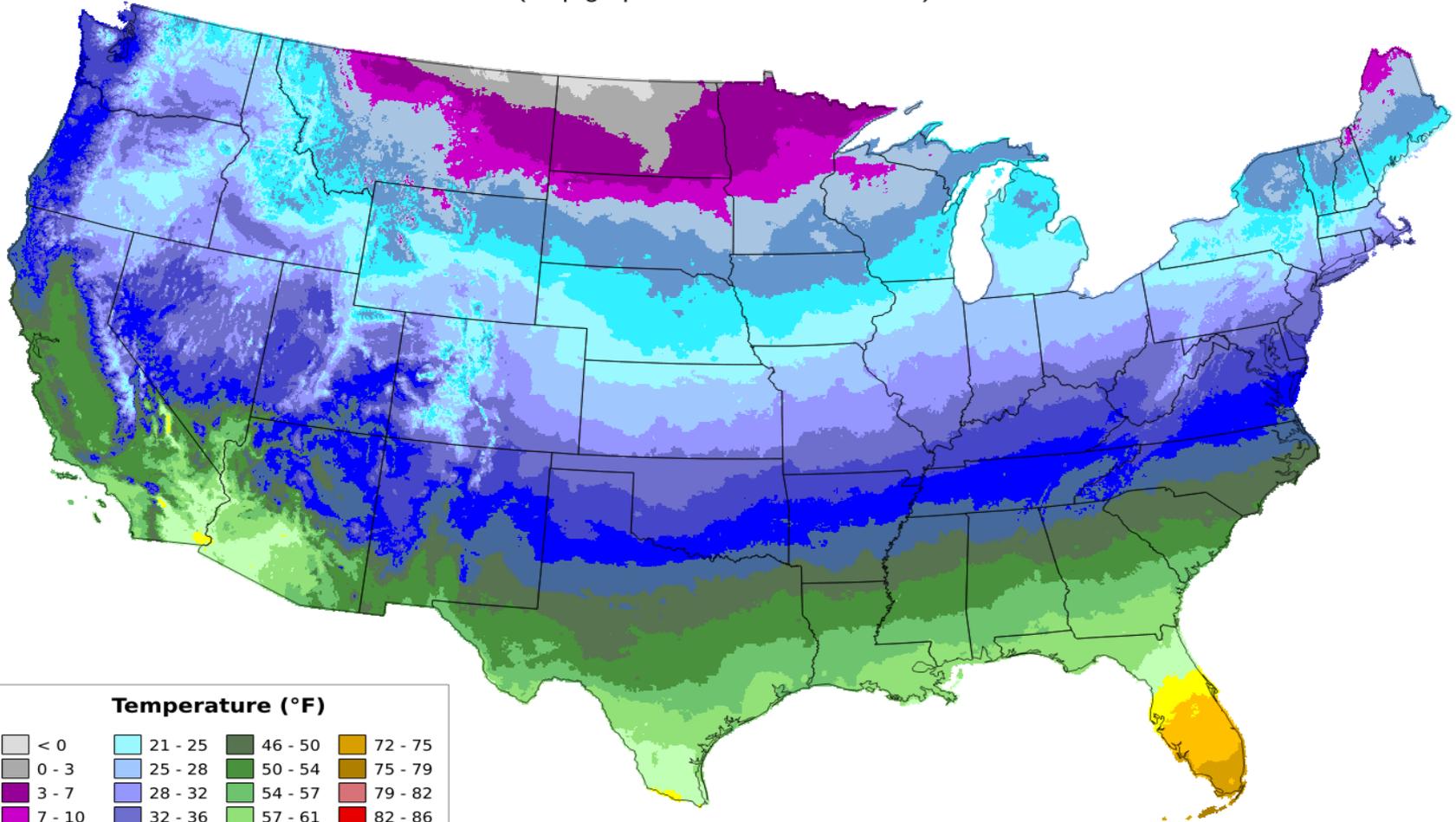


# Average Daily Mean Temperature for February 2025

Average Daily Mean Temperature: 01 Feb 2025 - 27 Feb 2025

Period ending 7 AM EST 27 Feb 2025

(Map graphic created 28 Feb 2025)



## 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	

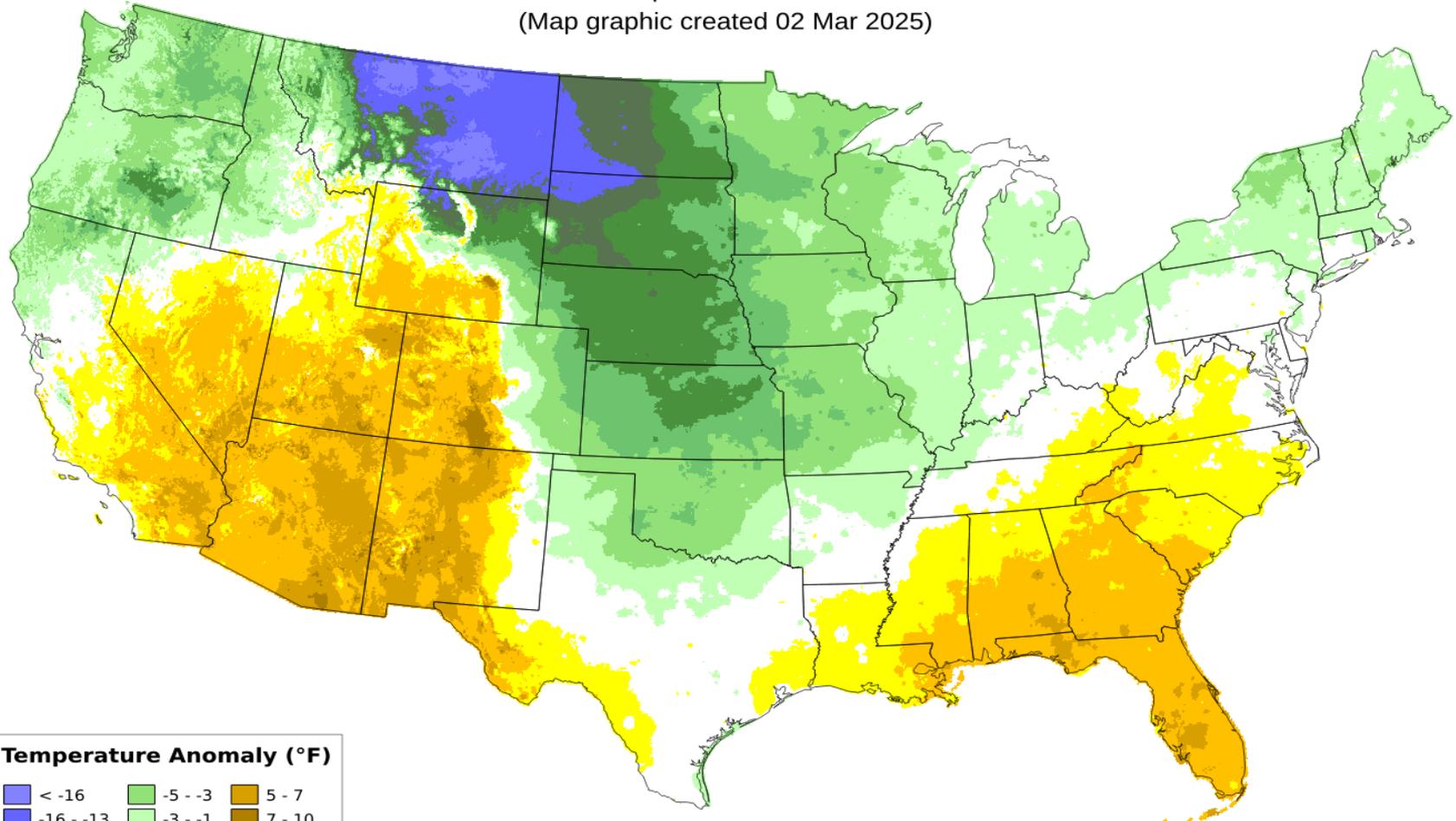
# Daily Mean Temperature Departure from Normal, February 2025

Daily Mean Temperature Anomaly: Feb 2025

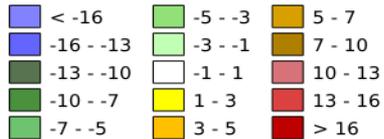
Period ending 7 AM EST 28 Feb 2025

Base period: 1991-2020

(Map graphic created 02 Mar 2025)



## Temperature Anomaly (°F)

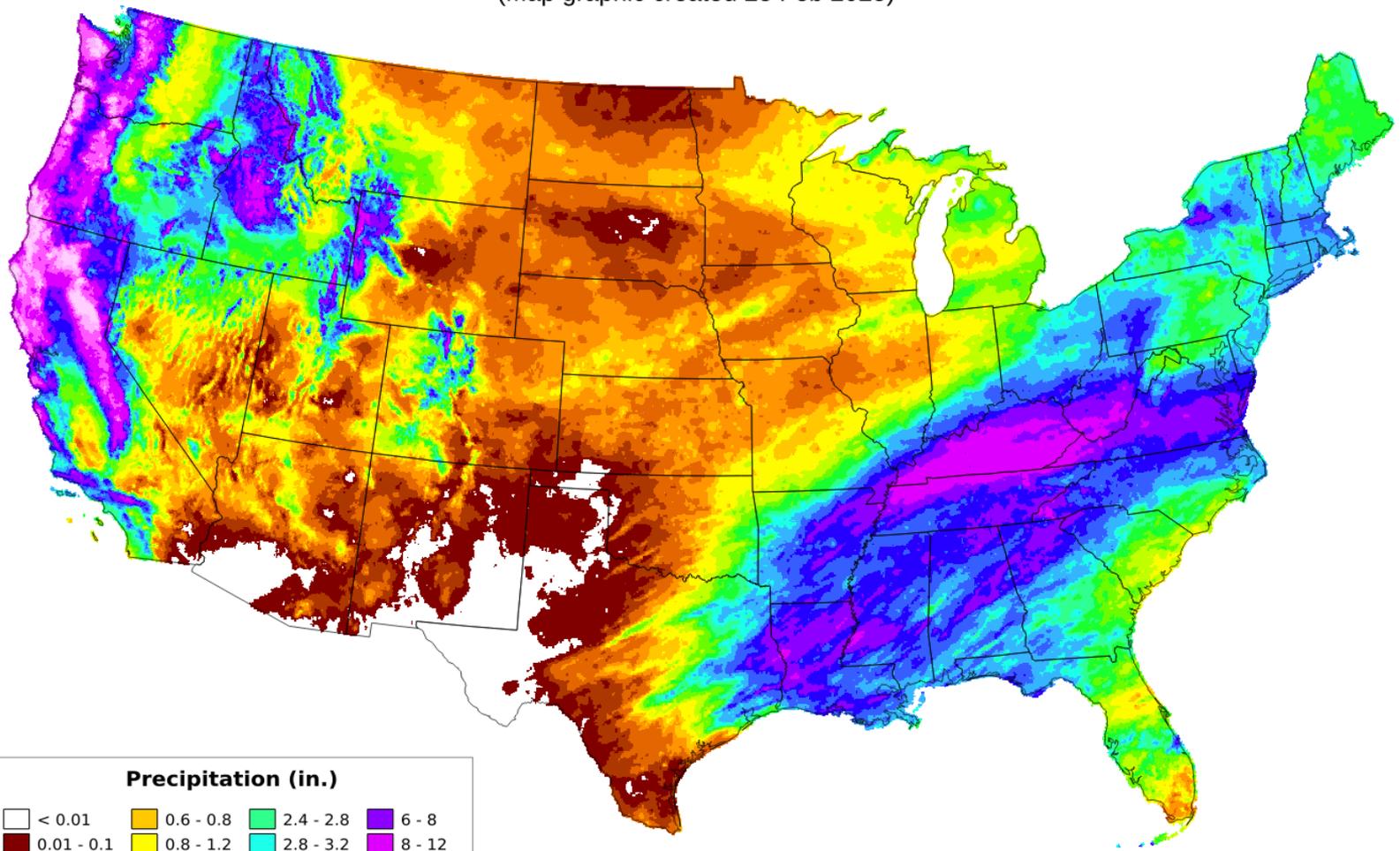


# Total Precipitation for February 2025

Total Precipitation: 01 Feb 2025 - 27 Feb 2025

Period ending 7 AM EST 27 Feb 2025

(Map graphic created 28 Feb 2025)



**Precipitation (in.)**

< 0.01	0.6 - 0.8	2.4 - 2.8	6 - 8
0.01 - 0.1	0.8 - 1.2	2.8 - 3.2	8 - 12
0.1 - 0.2	1.2 - 1.6	3.2 - 4	12 - 16
0.2 - 0.4	1.6 - 2	4 - 5	16 - 20
0.4 - 0.6	2 - 2.4	5 - 6	> 20

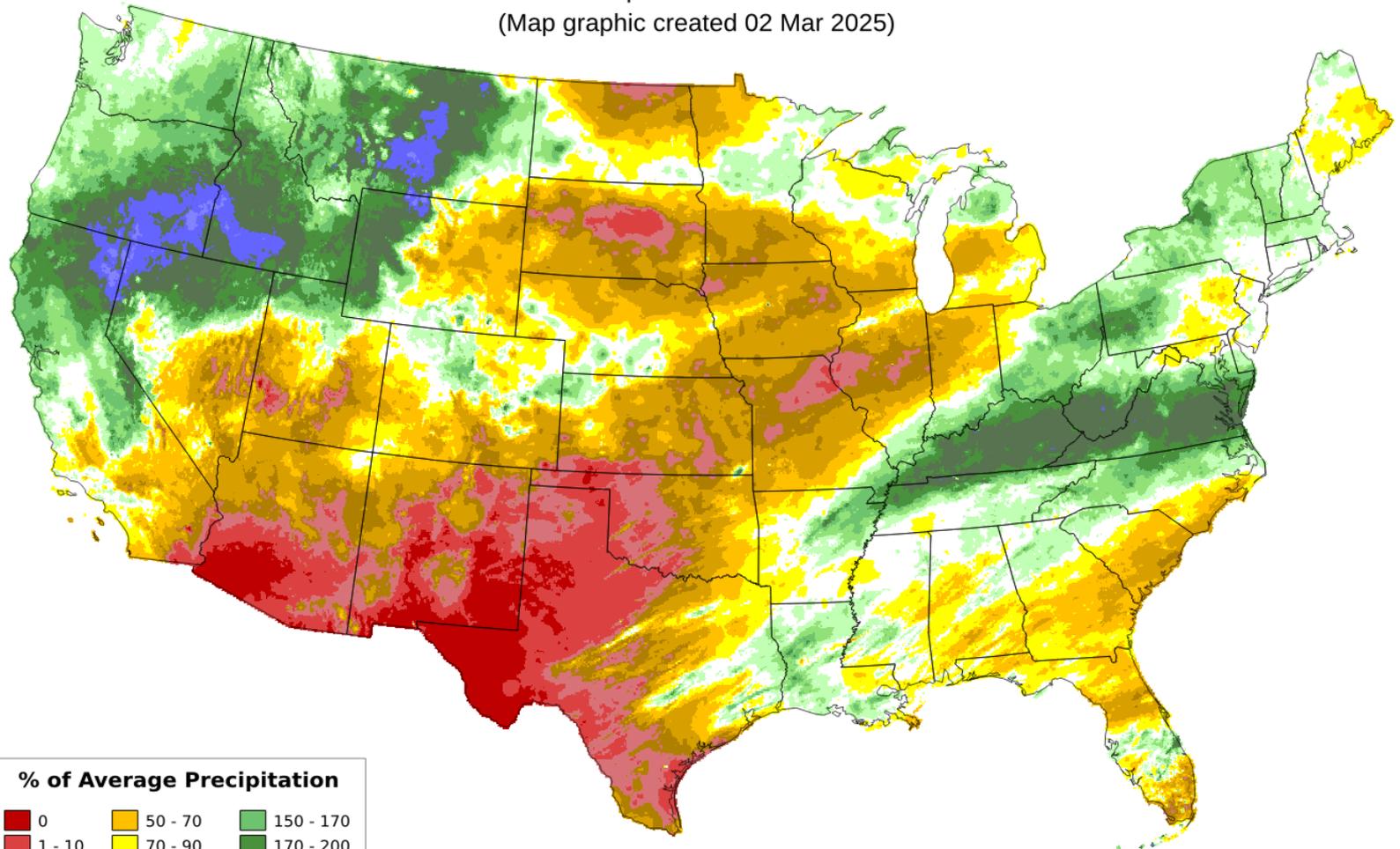
# Percent of Normal Precipitation for February 2025

Total Precipitation Anomaly: Feb 2025

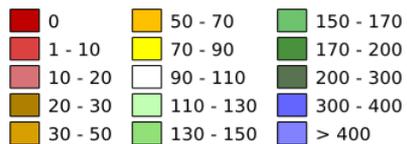
Period ending 7 AM EST 28 Feb 2025

Base period: 1991-2020

(Map graphic created 02 Mar 2025)



## % of Average Precipitation



# Selected Weather Reports January 2025

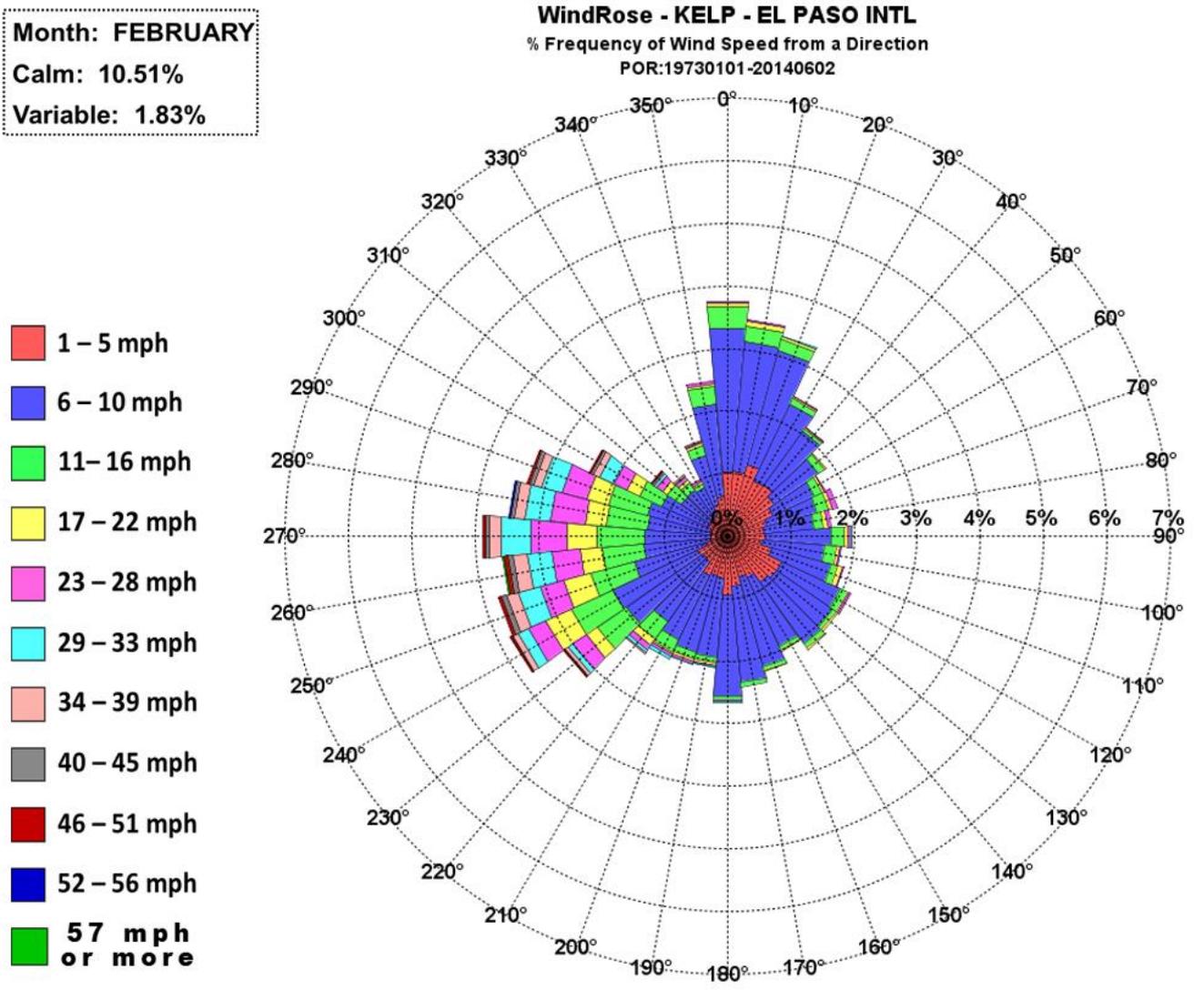
<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
FEB 11 315 PM	SAN AUGUSTIN PASS-DONA ANA	74 MPH PEAK WIND GUST
FEB 11 158 PM	DEMING AIRPORT-LUNA	55 MPH PEAK WIND GUST
FEB 11 409 PM	EL PASO INTL AIRPORT-EL PASO	53 MPH PEAK WIND GUST
FEB 11 745 PM	WSMR MAIN POST-DONA ANA	52 MPH PEAK WIND GUST
FEB 11 231 PM	HOLLOMAN AFB-OTERO	51 MPH PEAK WIND GUST
FEB 11 255 PM	LORDSBURG PLAYA MP11-HIDALGO	51 MPH PEAK WIND GUST
FEB 11 323 PM	T OR C AIRPORT-SIERRA	49 MPH PEAK WIND GUST
FEB 11 455 PM	BIGSS FIELD-EL PASO	46 MPH PEAK WIND GUST
FEB 11 255 PM	LAS CRUCES AIRPORT-DONA ANA	45 MPH PEAK WIND GUST
FEB 11 404 PM	SANTA TERESA NWS-DONA ANA	45 MPH PEAK WIND GUST
FEB 11 400 PM	SILVER CITY MTN VIEW-GRANT	44 MPH PEAK WIND GUST
FEB 11 200 PM	MAYHILL- OTERO	44 MPH PEAK WIND GUST

# Selected Weather Reports January 2025

<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
FEB 11 641 PM	MESCALERO-OTERO	44 MPH PEAK WIND GUST
FEB 11 326 PM	DRIPPING SPRINGS-DONA ANA	42 MPH PEAK WIND GUST
FEB 27 926 AM	DRIPPING SPRINGS-DONA ANA	62 MPH PEAK WIND GUST
FEB 27 755 AM	SAN AUGUSTIN PASS-DONA ANA	54 MPH PEAK WIND GUST
FEB 27 1005 AM	LORDSBURG PLAYA MP13-HIDALGO	54 MPH PEAK WIND GUST
FEB 27 1125 AM	LORDSBURG PLAYA MP11	49 MPH PEAK WIND GUST
FEB 27 739 AM	HIGH ROLLS-OTERO	46 MPH PEAK WIND GUST
FEB 27 829 AM	LAS CRUCES E-DONA ANA	40 MPH PEAK WIND GUST
FEB 27 1109 AM	SANTA TERESA NWS-DONA ANA	40 MPH PEAK WIND GUST
FEB 27 1054 AM	DEMING AIRPORT-LUNA	39 MPH PEAK WIND GUST
FEB 27 933 AM	EL PASO INTL AIRPORT-EL PASO	37 MPH PEAK WIND GUST

# Special Features

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



Local forecast by "City, St" or ZIP code  
 Enter location ...   
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**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** El Paso, TX  
Weather Forecast Office

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

**Today**

**Wednesday** Weather Forecast Office  
El Paso, TX  
September 27, 2016 4:43 PM

Warmer with a Few Afternoon Storms

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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**Monthly Weather Digest** El Paso, TX  
Weather Forecast Office

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

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](#)

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>	

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**[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.**