

# January 2024 Weather Digest



# January 2024 Weather Summary

Very Spring-like January this year with the higher elevations receiving the brunt of weather impacts. High wind events both on the 7<sup>th</sup> and 11<sup>th</sup> were the most impactful weather, bringing a series damaging winds and blowing dust. Two heavy mountain snow events occurred on the 4<sup>th</sup> and 22<sup>nd</sup>. A blast of arctic air arrived in the middle of the month, with El Paso dropping to 21 degrees the morning of the 16<sup>th</sup>. No daily temperature records were broken at El Paso this month and the monthly temperature averages ran slightly above normal.

Monthly precipitation was typical for January, if not slightly below normal in most locations. The majority of precipitation occurred over the higher elevations of southern New Mexico, with generally less than an inch in the lowlands. This month's reported snow totals ranged from 4 to 8 inches in Silver City and 18 to 24 inches at Cloudcroft.

# January 2024 Weather Summary

**Climate conditions maintain a drier than normal status despite the presence of a strong El Niño. Severe to Extreme drought conditions persist this winter and upper Rio Grande snowpack is well below normal for the start of February.**

**Looking ahead to February, the start of the Spring warmup will begin. At El Paso, the average high temperature on Feb. 1 is 61 degrees, increasing to 67 degrees on the last day of the month. Daylight on the first is 10 hours, 41 minutes, increasing to 11 hours, 30 minutes on the last day of the month.**

**The new moon occurs on the 9th. The February full moon, also known as the Snow Moon, occurs on the 24th. The new moon occurs on the 20th. There are no lunar or solar eclipses in February; we will have to wait until April for that.**

**Jan 4 Cloudcroft**



**Jan 4 Silver City**



**Jan 4 Snow Gila Wilderness**



**Jan 4 Snow beginning Silver City**



**Jan 4 Snow near Tyrone**



2024-01-05 12:15:30  
CAM-TBICM

**Jan 5 Snow at Cloudcroft**



Timberon Development Council 2024-01-05 06:40:28

**Jan 5 Timberon**

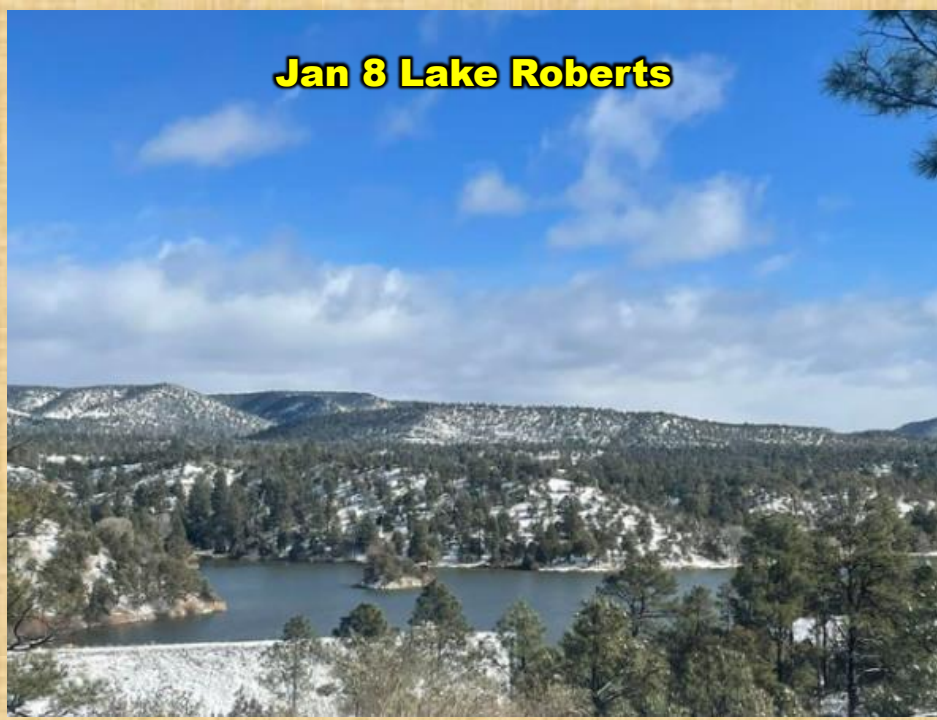


2024-01-07 2:01:00

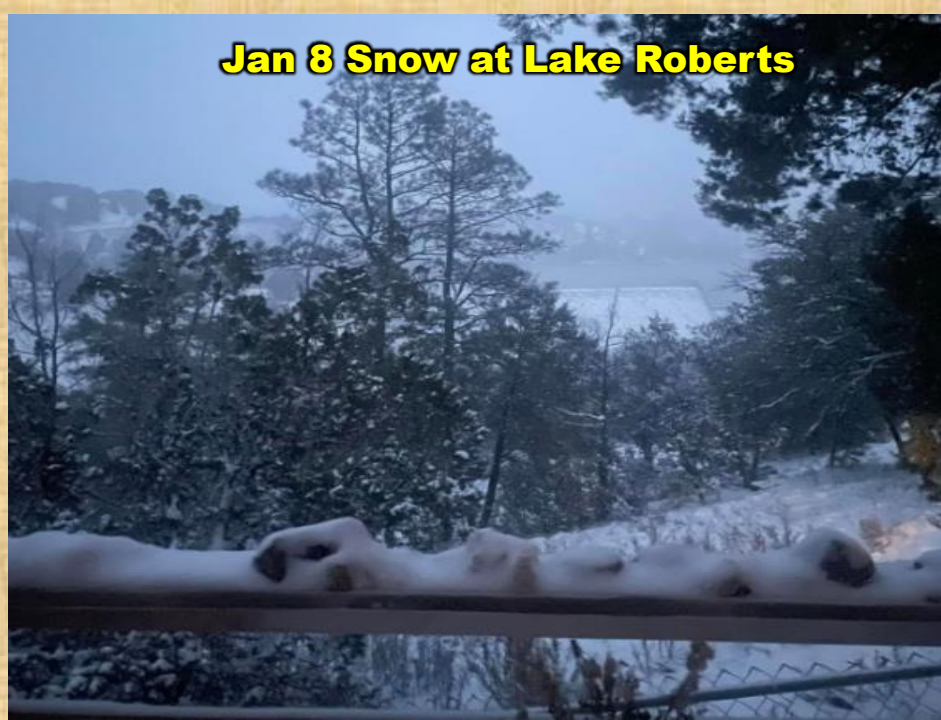
**Jan 7 Snow at Silver City**



**Jan 8 Lake Roberts**



**Jan 8 Snow at Lake Roberts**



**Jan 8 Snow Gila Wilderness**



**Jan 8 Snow Gila Wilderness**



**Jan 9 Black Range**



**Jan 11 Snow near Silver City**

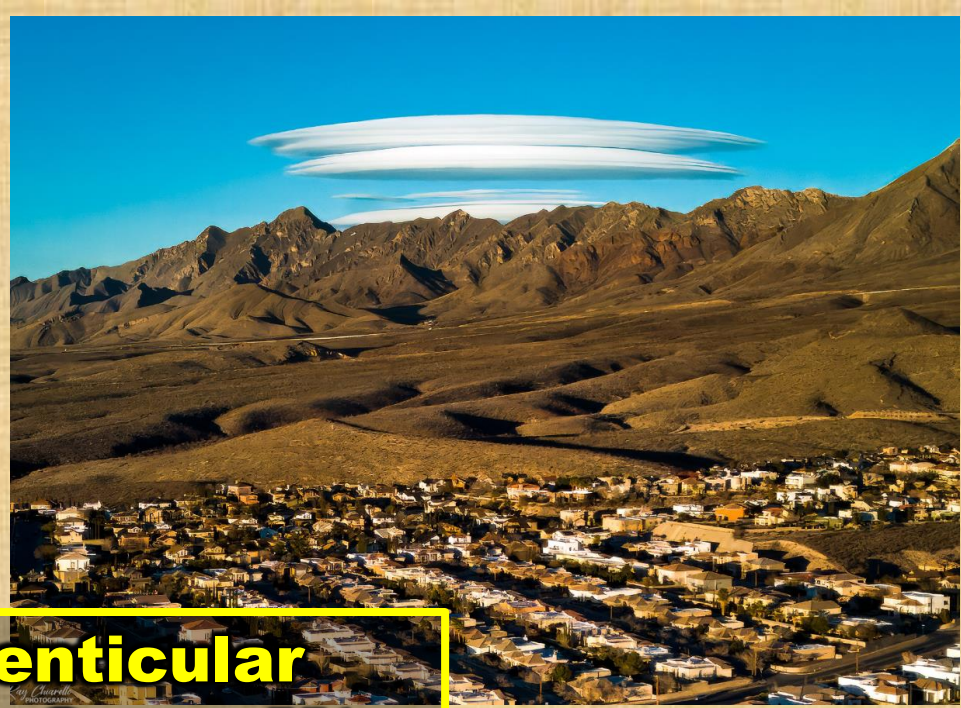


**Jan 11 Wind damage in El Paso**



**Jan 11 Wind damage in El Paso**





**Jan 14 Lenticular  
Clouds near Organ Mtn**

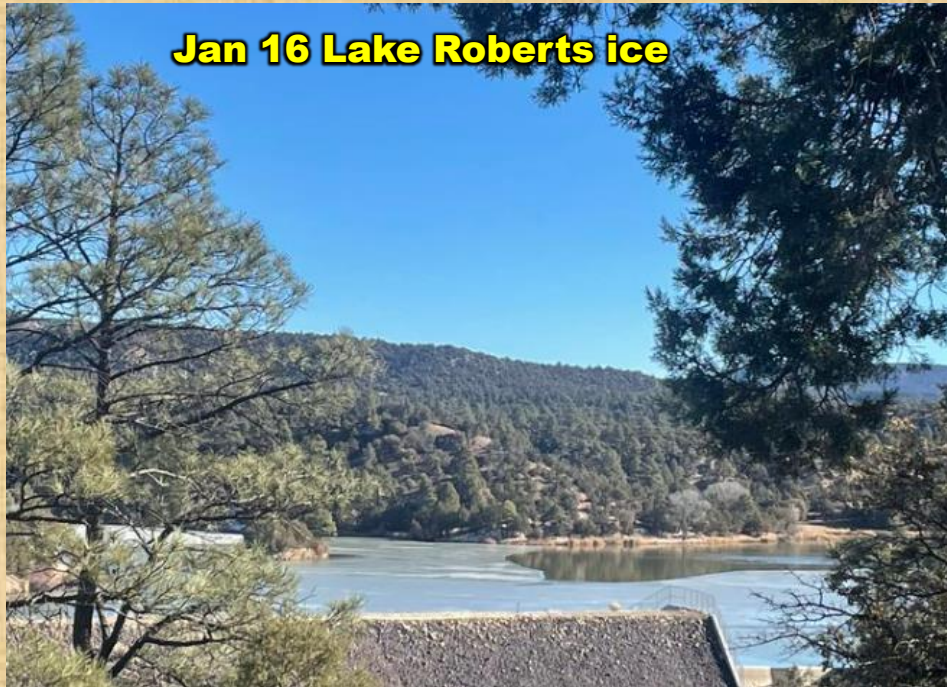




**Jan 12 near Mimbres**



**Jan 16 Lake Roberts ice**



**Jan 26 View from Buckhorn**



**Jan 27 Gila Wilderness**



**Jan 23 Funnel cloud near Lordsburg**



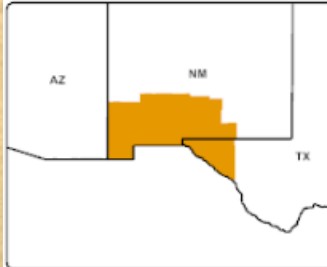
# January 5 Snowfall Map



## National Weather Service El Paso Texas

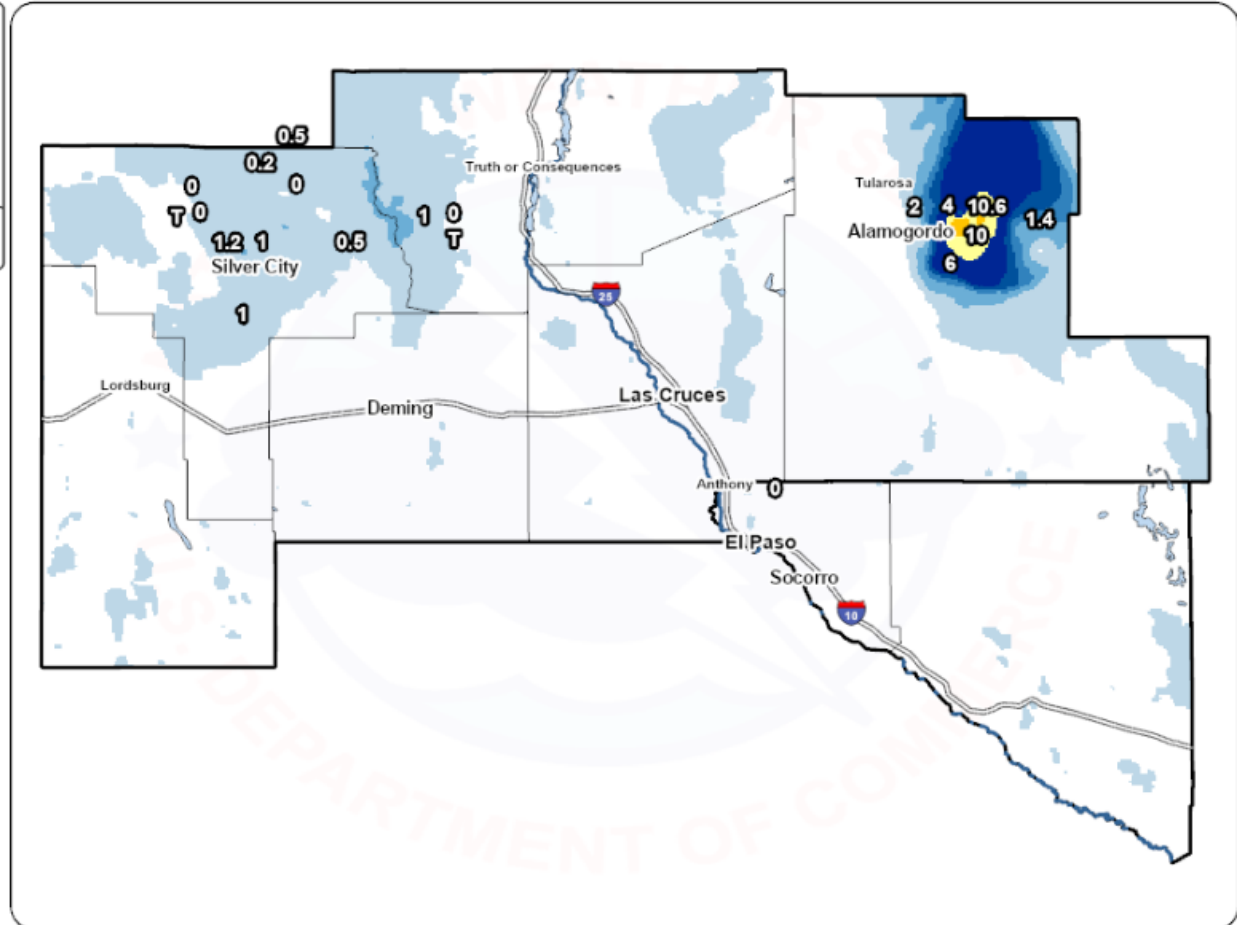
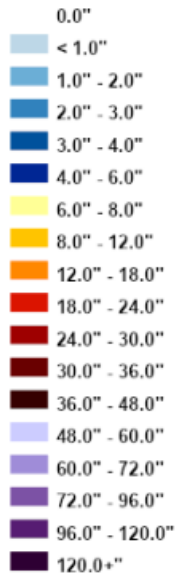
Snowfall Analysis 01/02/2024 05:00PM to 01/04/2024 05:00PM MST

Analysis Data Source: NOHRSC and Regional Observations (Values Estimated at Locations)

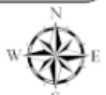


Created:  
02/05/2024 06:28PM

### Snowfall (in)



This is an experimental product of the NWS GAZPACHO software package. Care should be taken in using the data. Unofficial observations may be plotted. Values at interpolated locations may not represent actual reports at that location.



# Increase in length of daylight in January

## DAYTIME GETTIN' LONGER



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

## **ENSO Alert System**

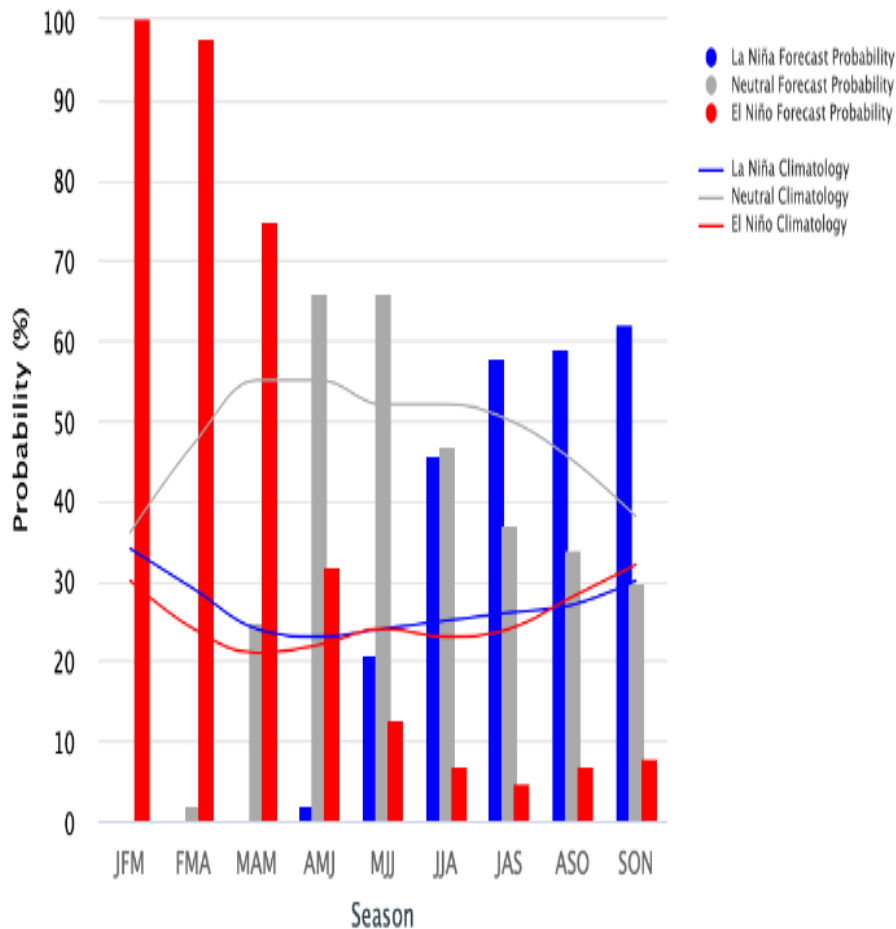
- **El Niño or La Niña Watch:** Issued when conditions are favorable for the development of El Niño or La Niña conditions in the next six months.
- **El Niño or La Niña Advisory:** Issued when El Niño or La Niña conditions are observed and expected to continue.

# ENSO Forecast

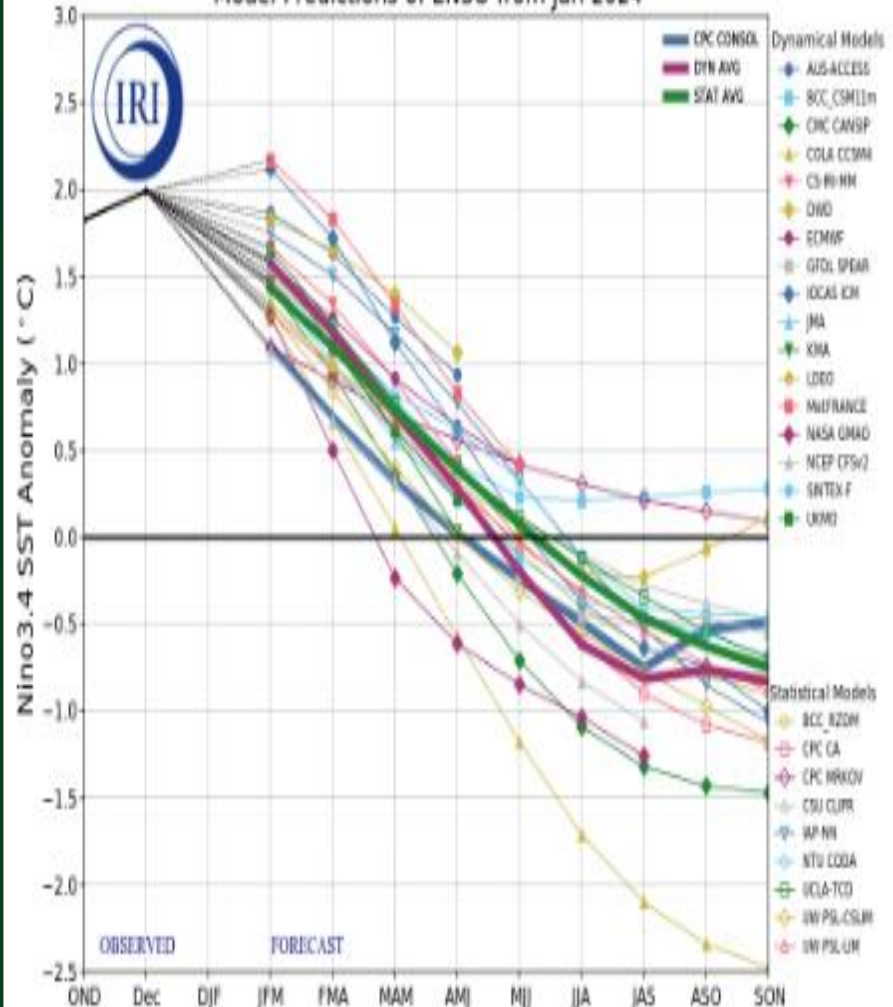
**ENSO is in strong El Niño status and is expected to last into spring before transitioning to neutral by the beginning of summer of 2024; possibly back to La Niña by the end of summer.**

Mid-January 2024 IRI Model-Based Probabilistic ENSO Forecasts

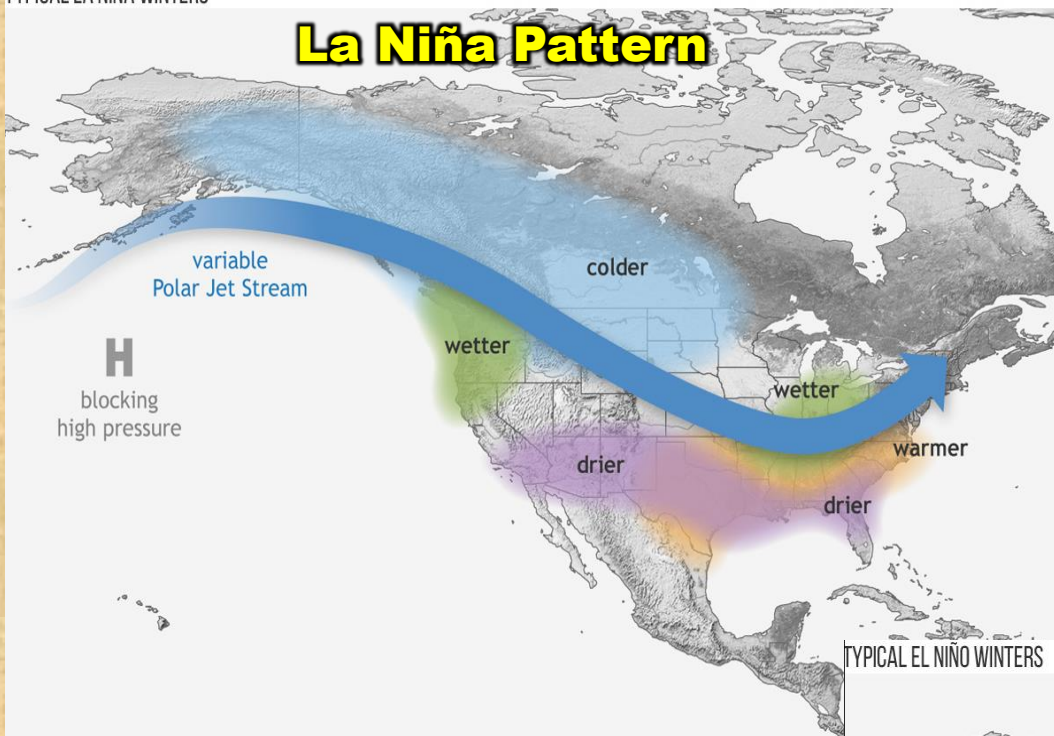
ENSO state based on NINO3.4 SST Anomaly Neutral ENSO:  $-0.5^{\circ}\text{C}$  to  $0.5^{\circ}\text{C}$



Model Predictions of ENSO from Jan 2024

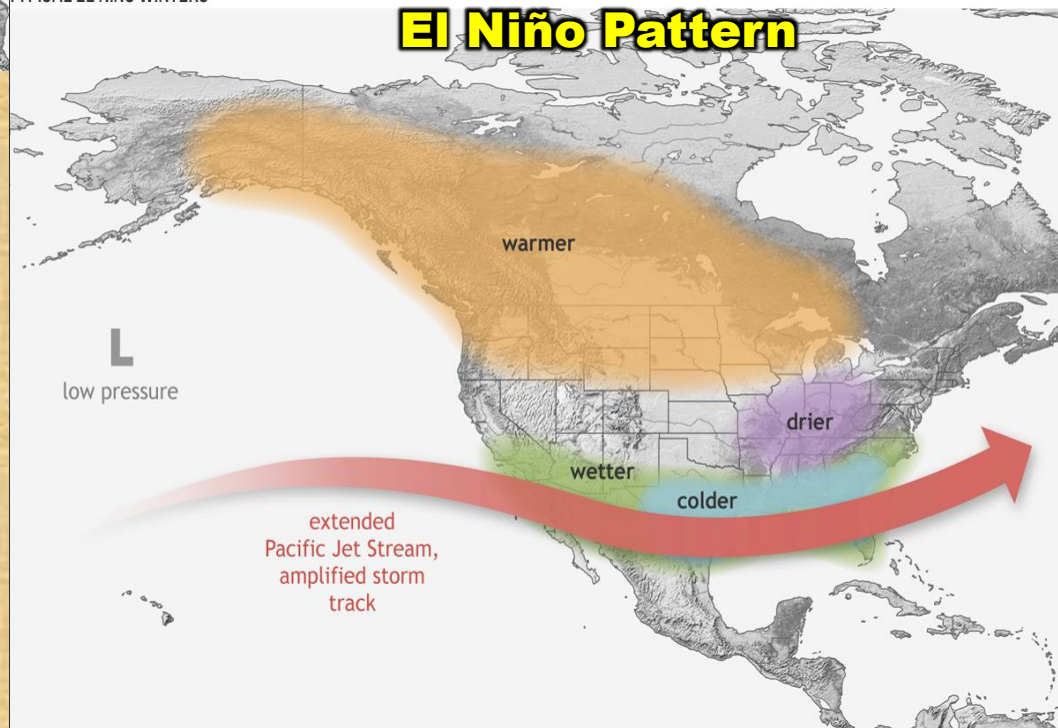


# La Niña Pattern



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



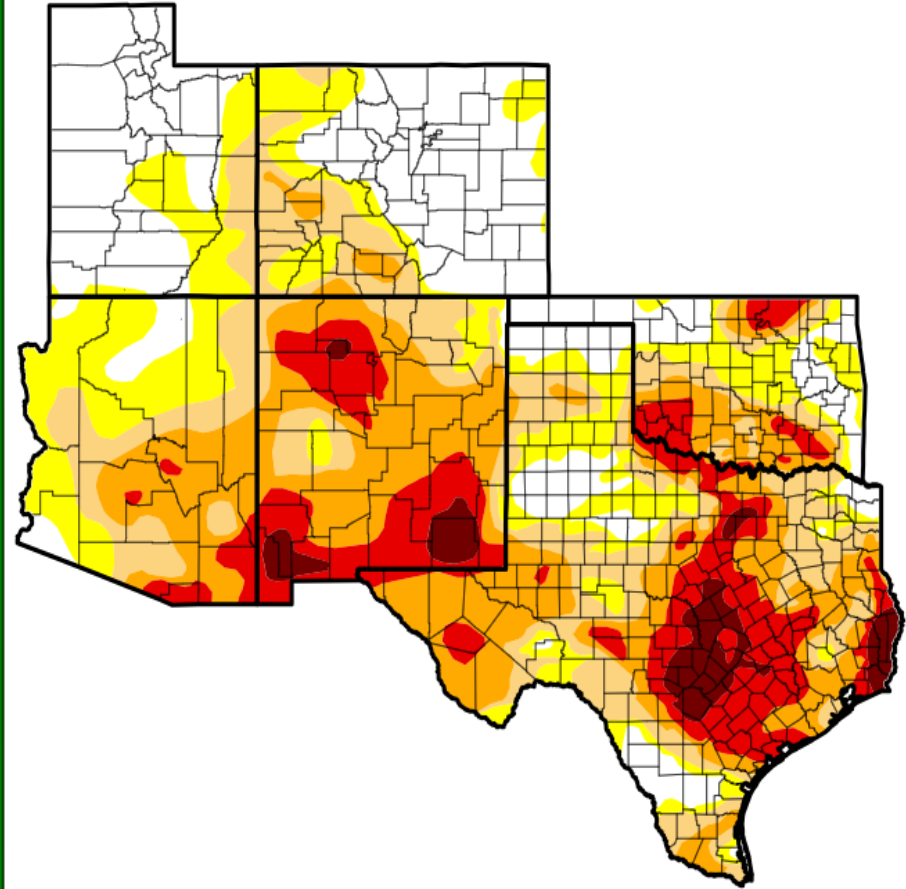
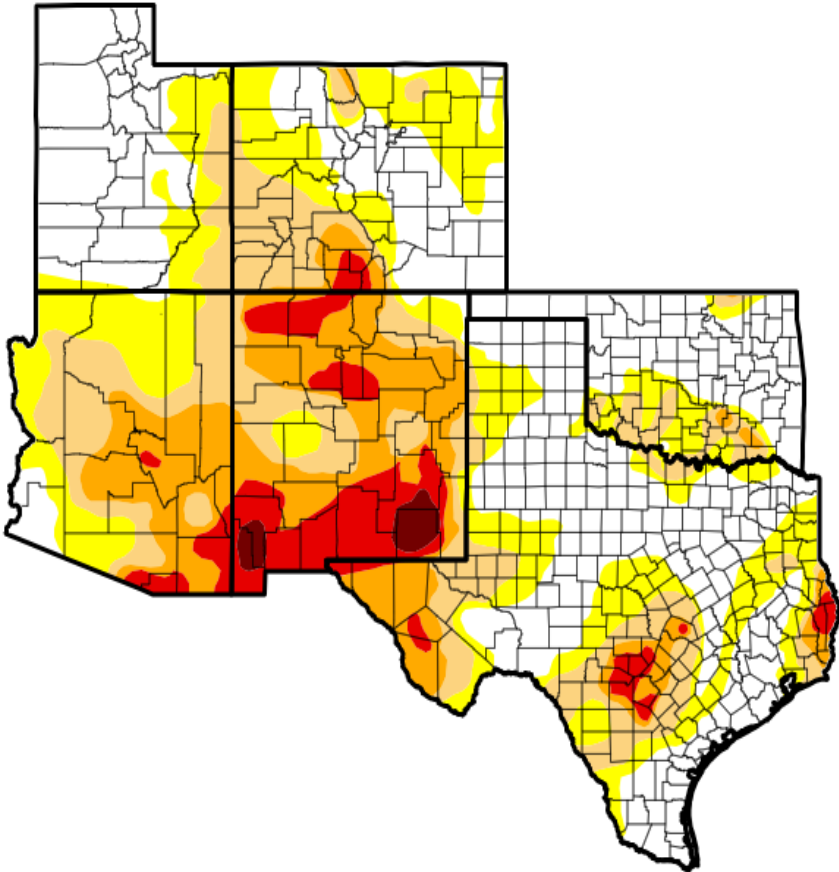
With El Niño, we often see the opposite pattern where the eastern Pacific ridge of high pressure is often weak or non-existent, allowing winter storms to sweep across the southern U.S. This typically will give the southwestern U.S. above normal precipitation.

# Current drought conditions and 3 month change

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

**Jan 23, 2024**

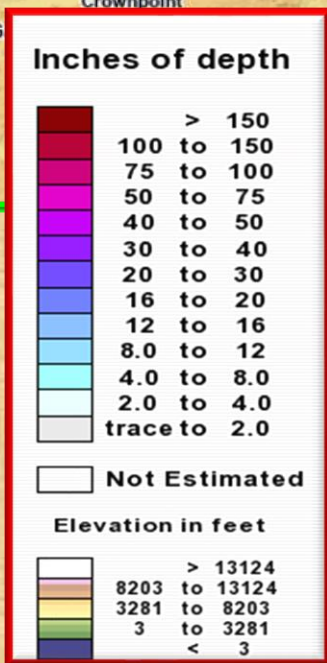
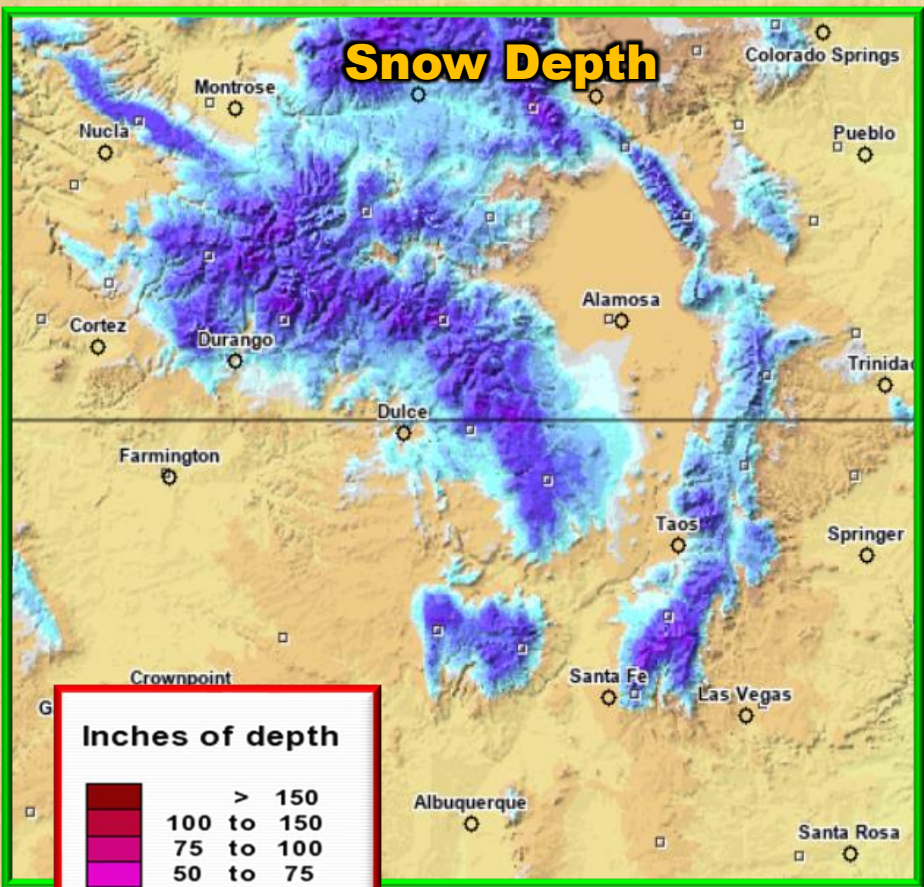
**Oct 24, 2023**



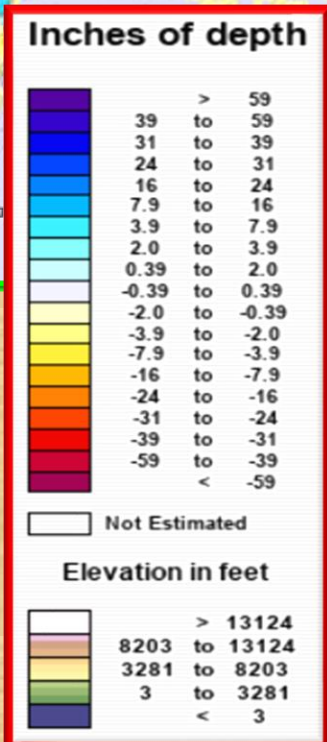
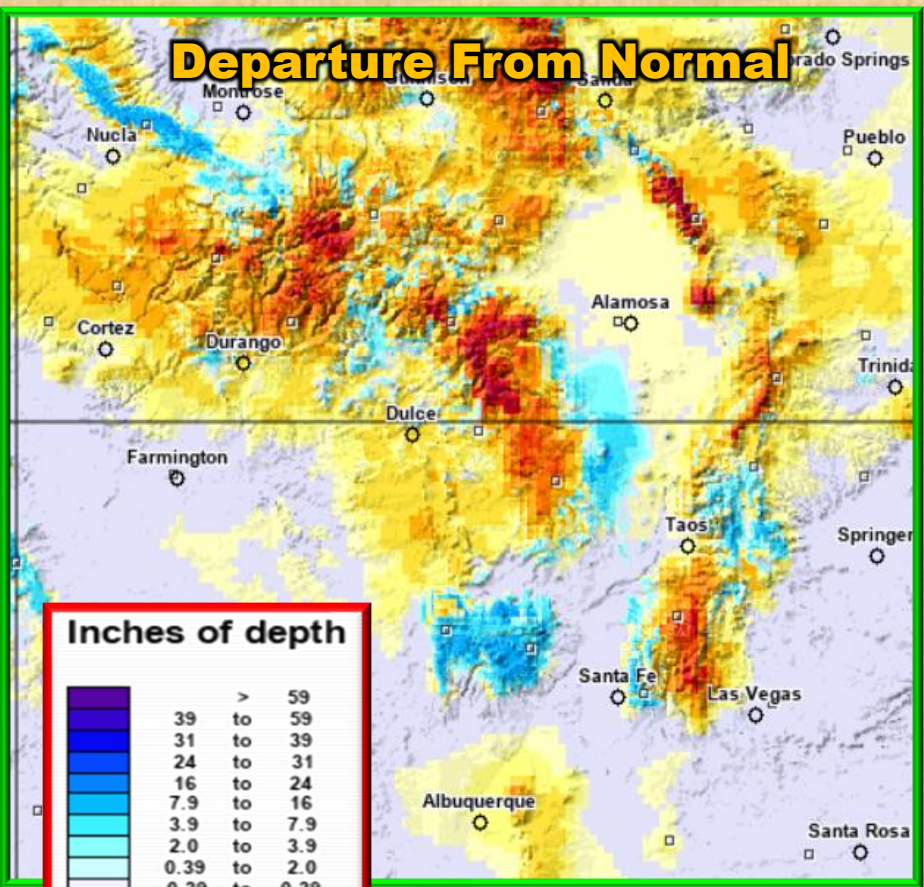


# Snow Data Upper Rio Grande Basin as of Jan 31, 2024

## Snow Depth

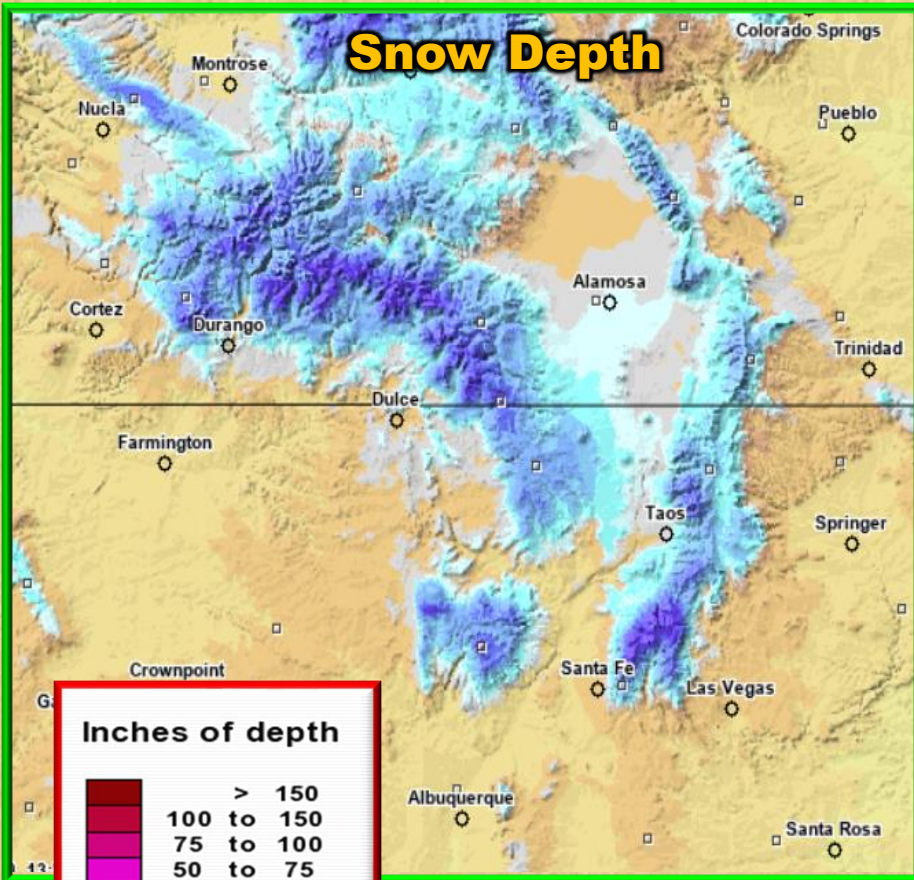


## Departure From Normal

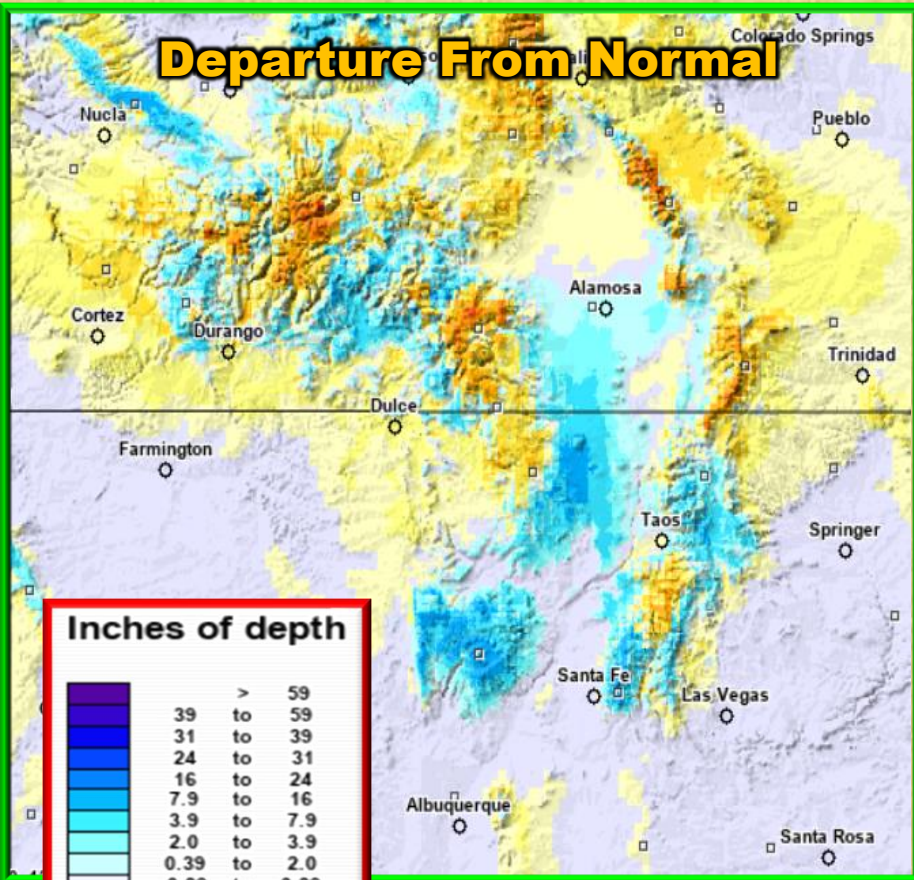


# Snow Data Upper Rio Grande Basin as of December 31, 2023

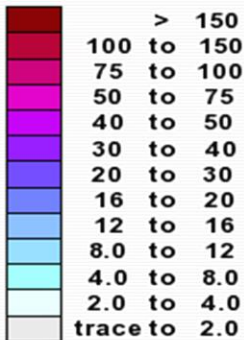
## Snow Depth



## Departure From Normal

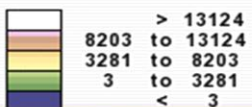


### Inches of depth

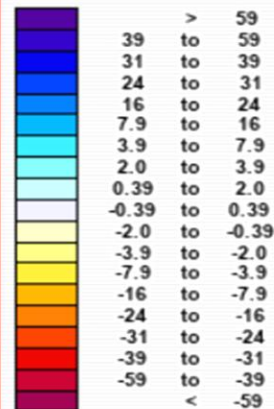


Not Estimated

### Elevation in feet



### Inches of depth



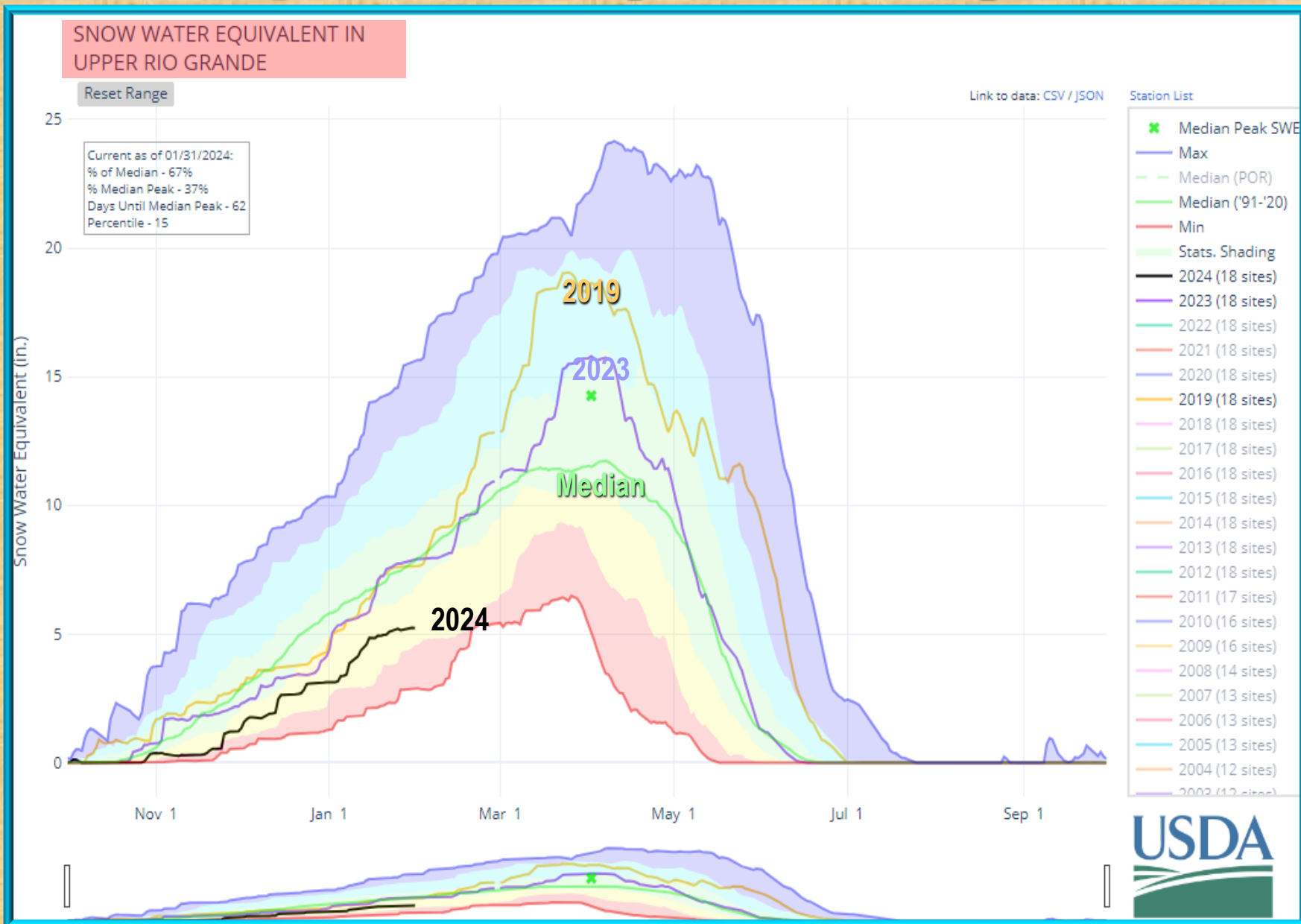
Not Estimated

### Elevation in feet



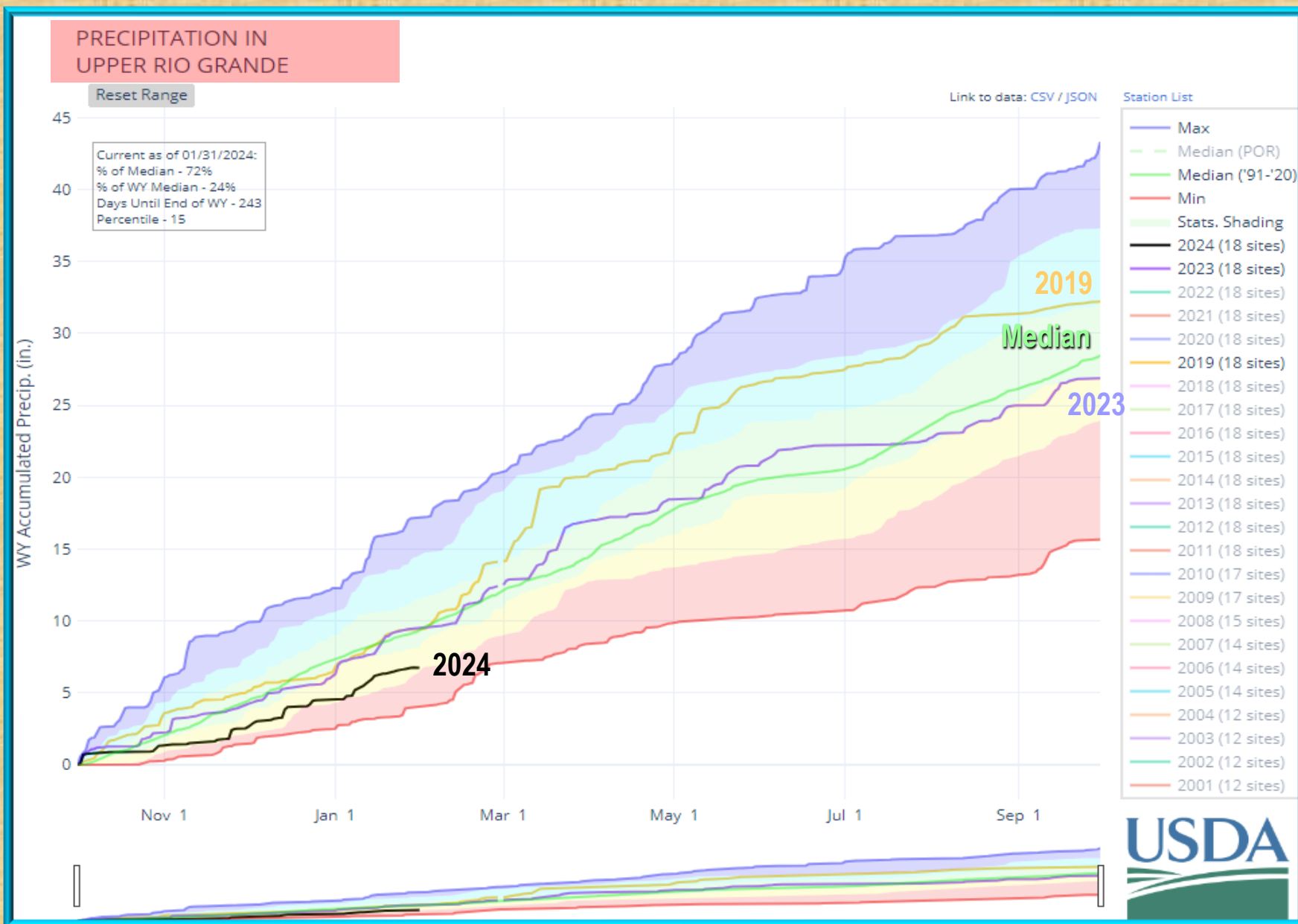
# Snow Water Equivalent as of January 31, 2024

## Compare to last few years and average values



# Precipitation for the Water Year Oct 1 – Jan 31, 2024

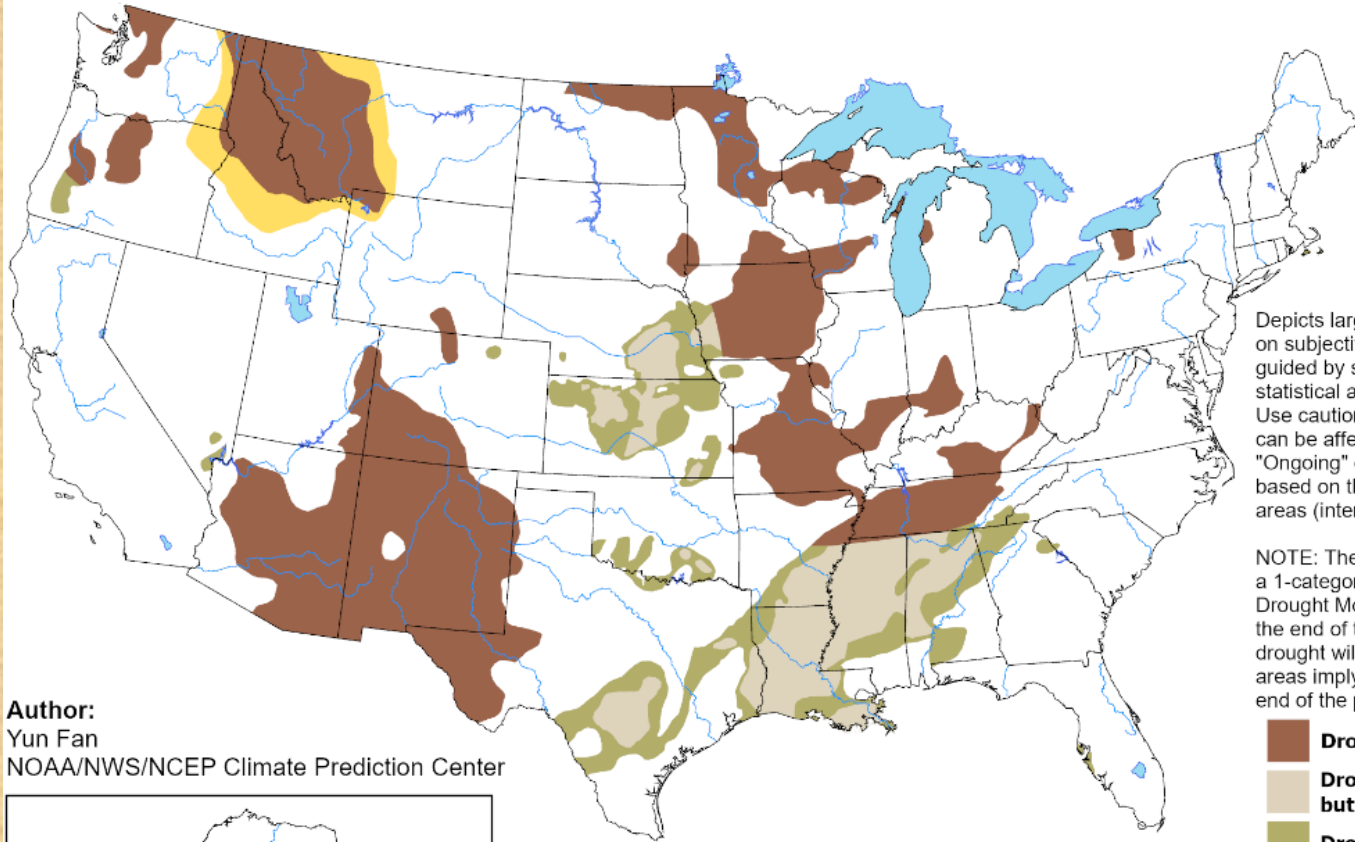
## Compare to last few years and average values



# U.S. Seasonal Drought Outlook

## Drought Tendency During the Valid Period

Valid for January 18 - April 30, 2024  
Released January 18, 2024

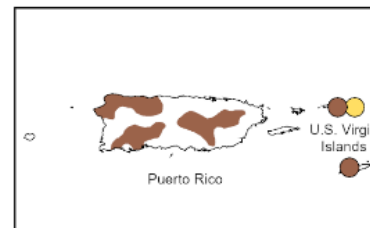
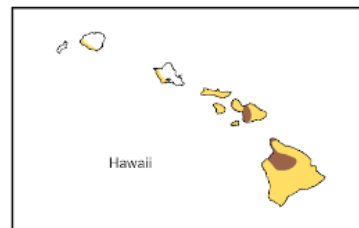


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

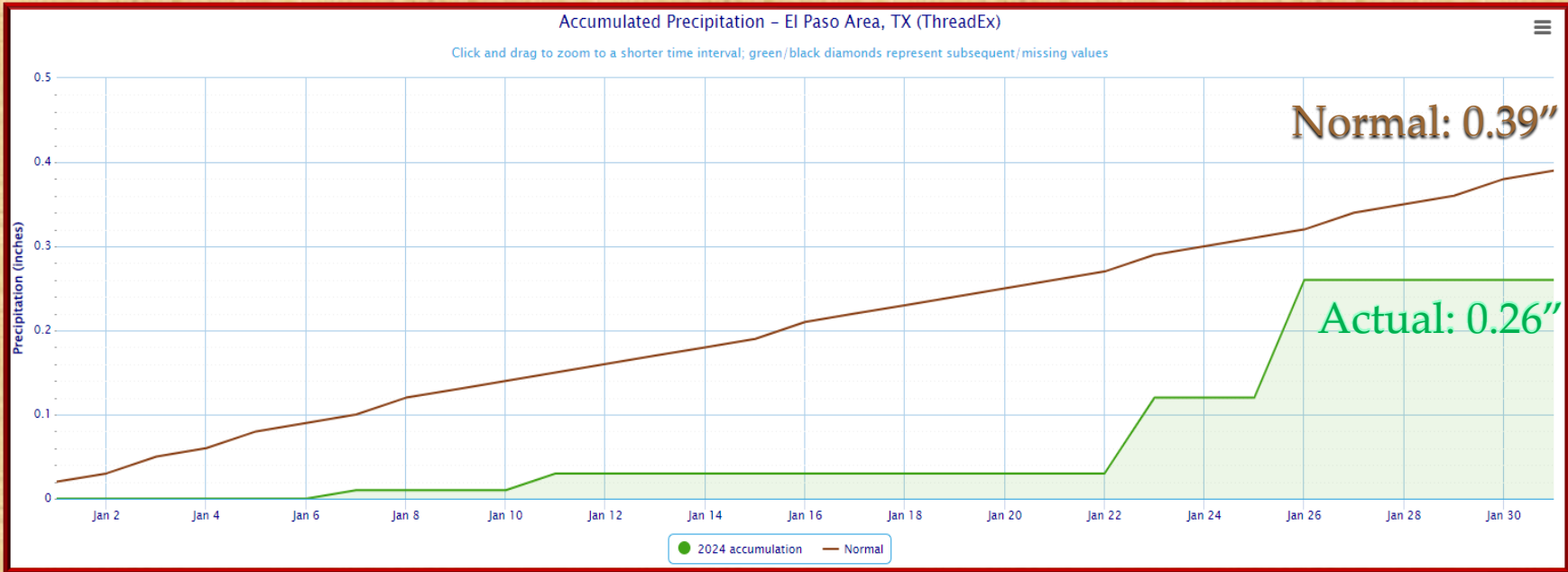
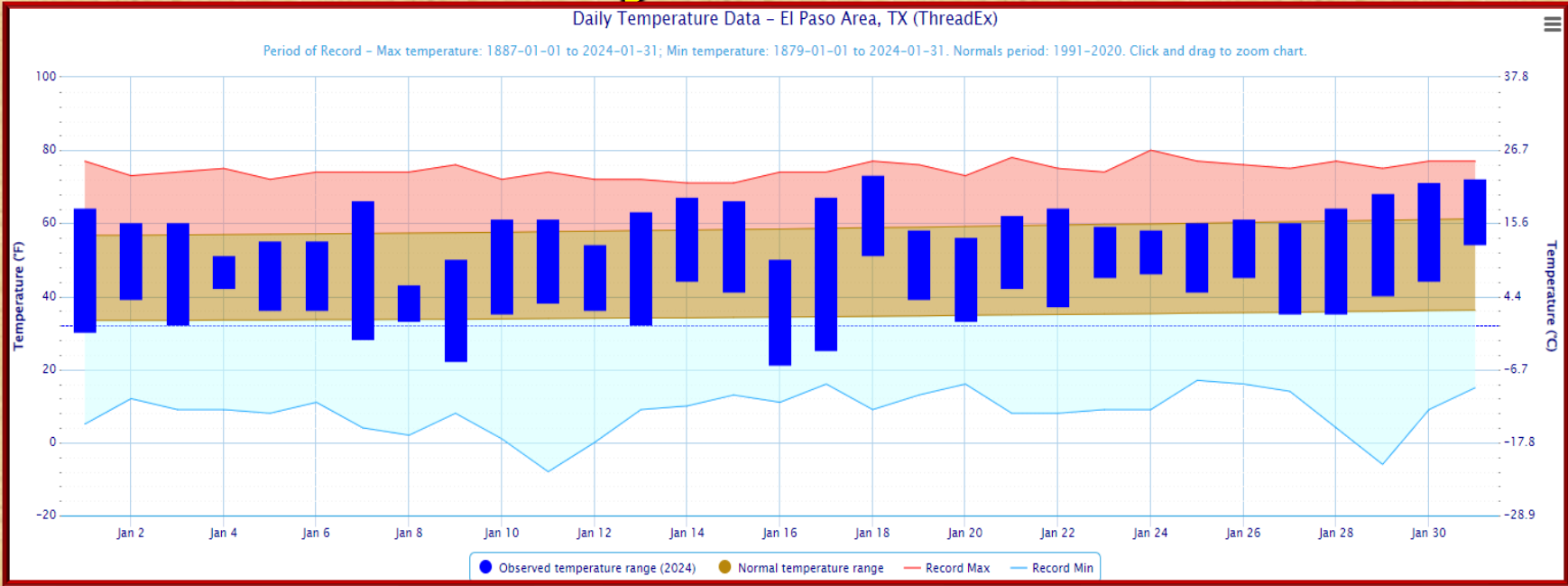
**Author:**  
Yun Fan  
NOAA/NWS/NCEP Climate Prediction Center



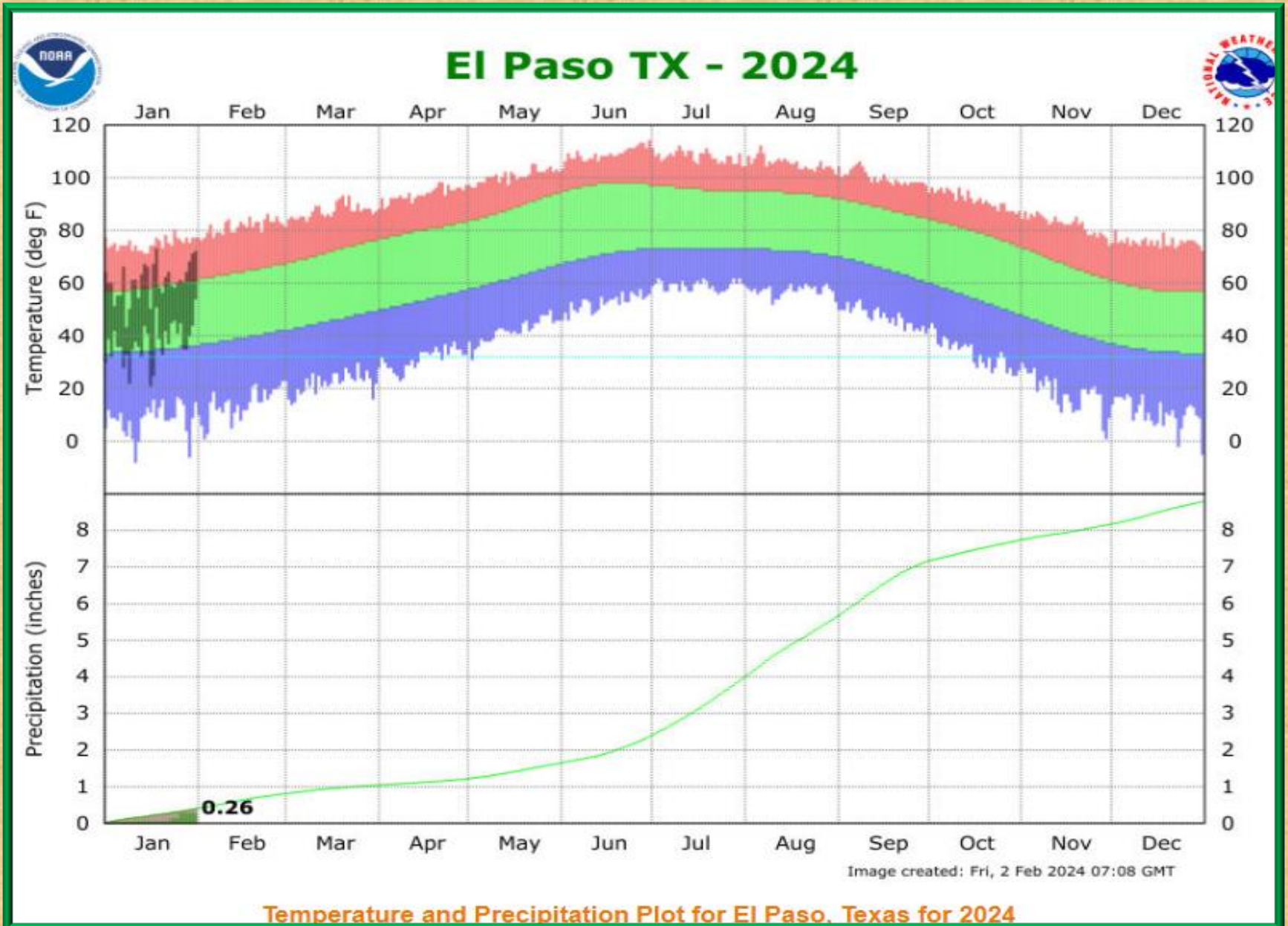
<https://go.usa.gov/3eZ73>

# Temperature and precipitation data for January 2024 in El Paso

○ = record



# Temperature and Precipitation for 2024 for El Paso

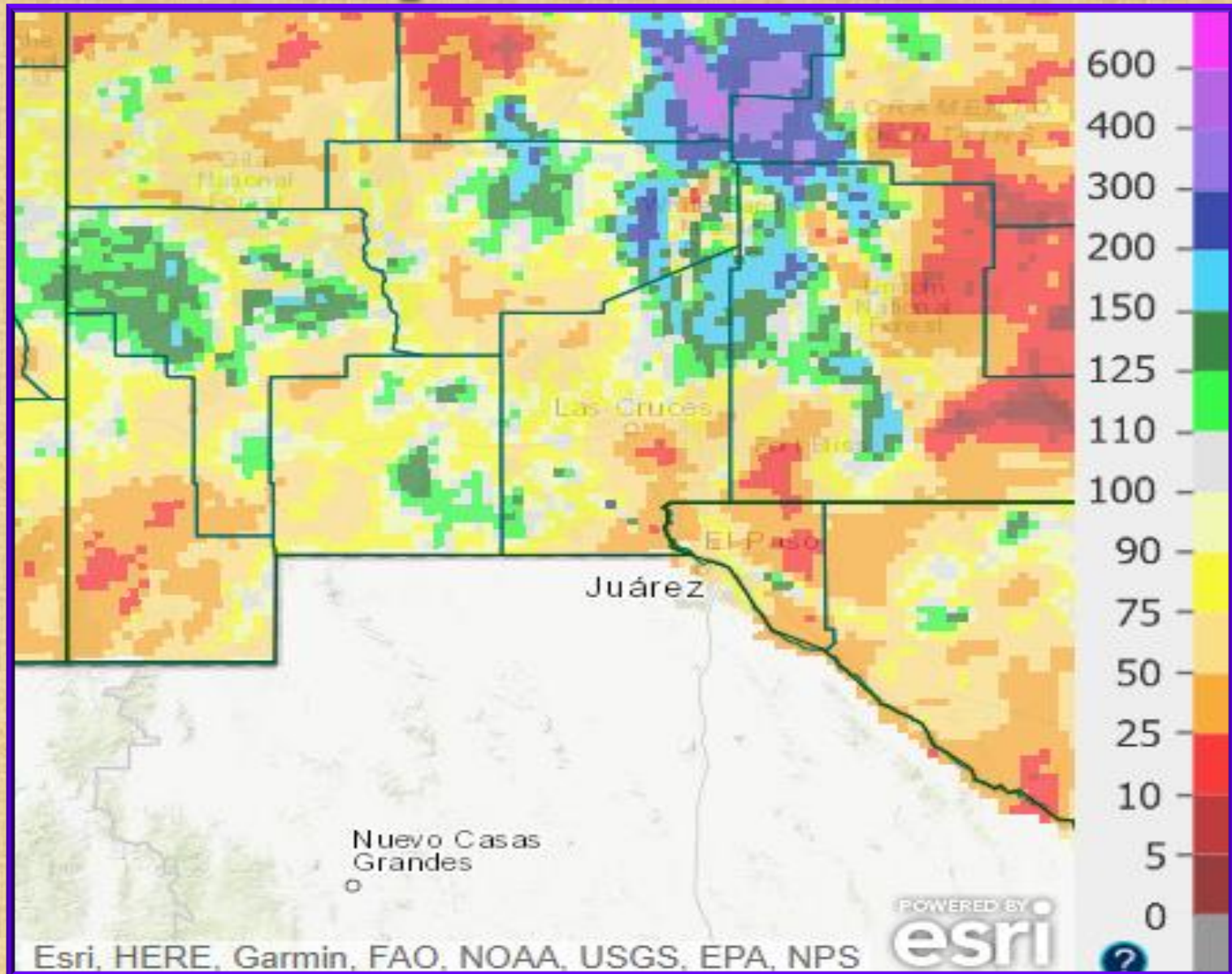


Temperature and Precipitation Plot for El Paso, Texas for 2024

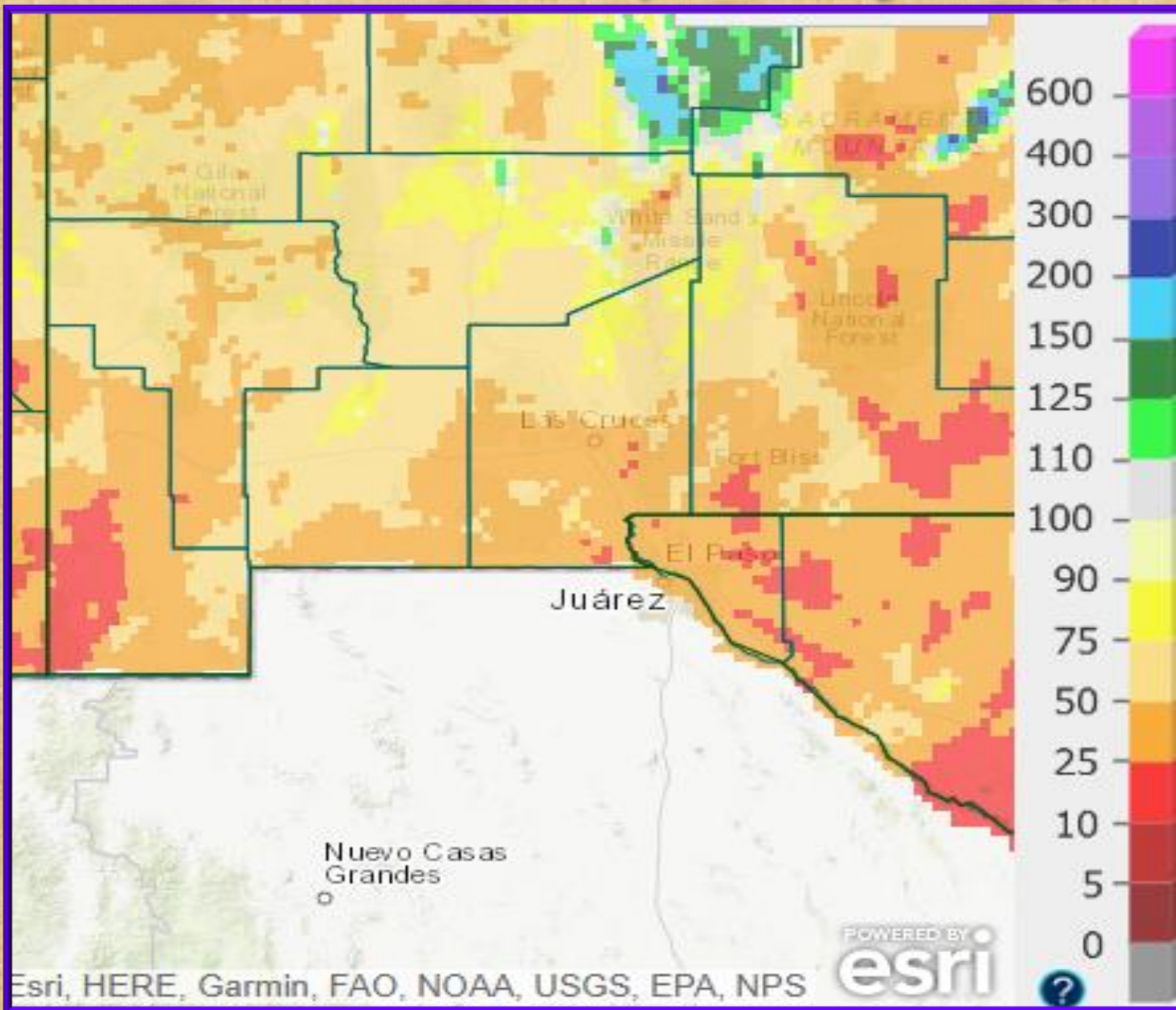




# January 2024 rainfall estimate percent of normal



# Radar rainfall estimate percent of normal for the Water Year (Oct 1 – Jan 31)

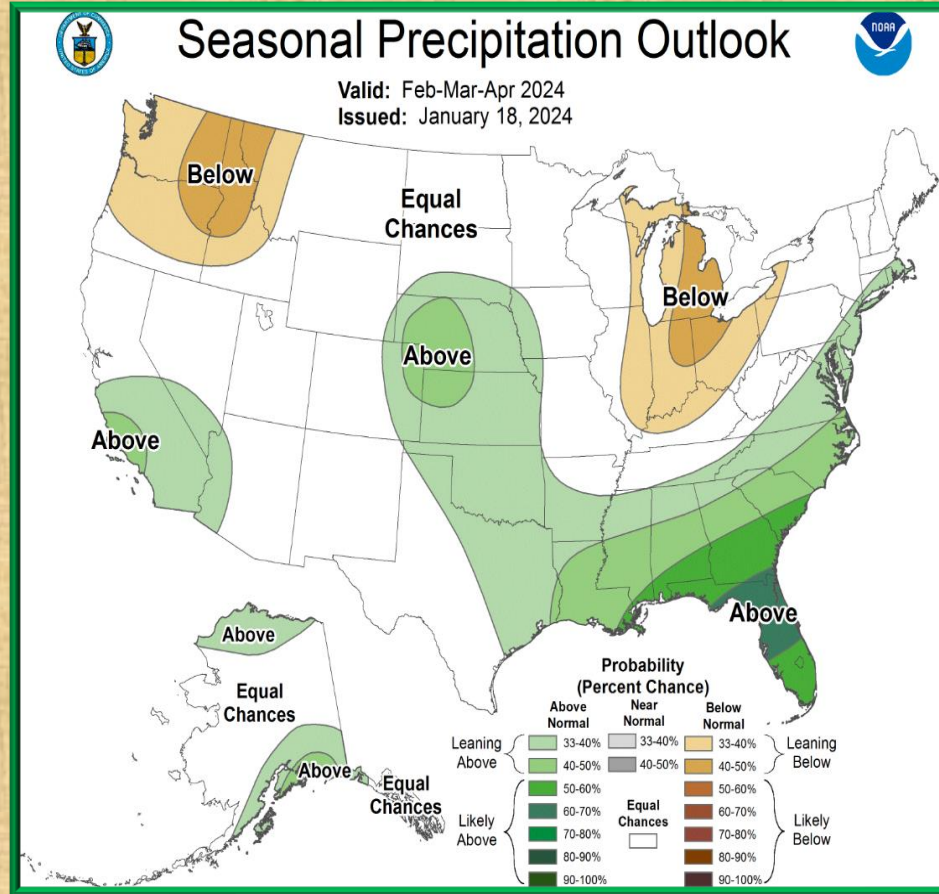
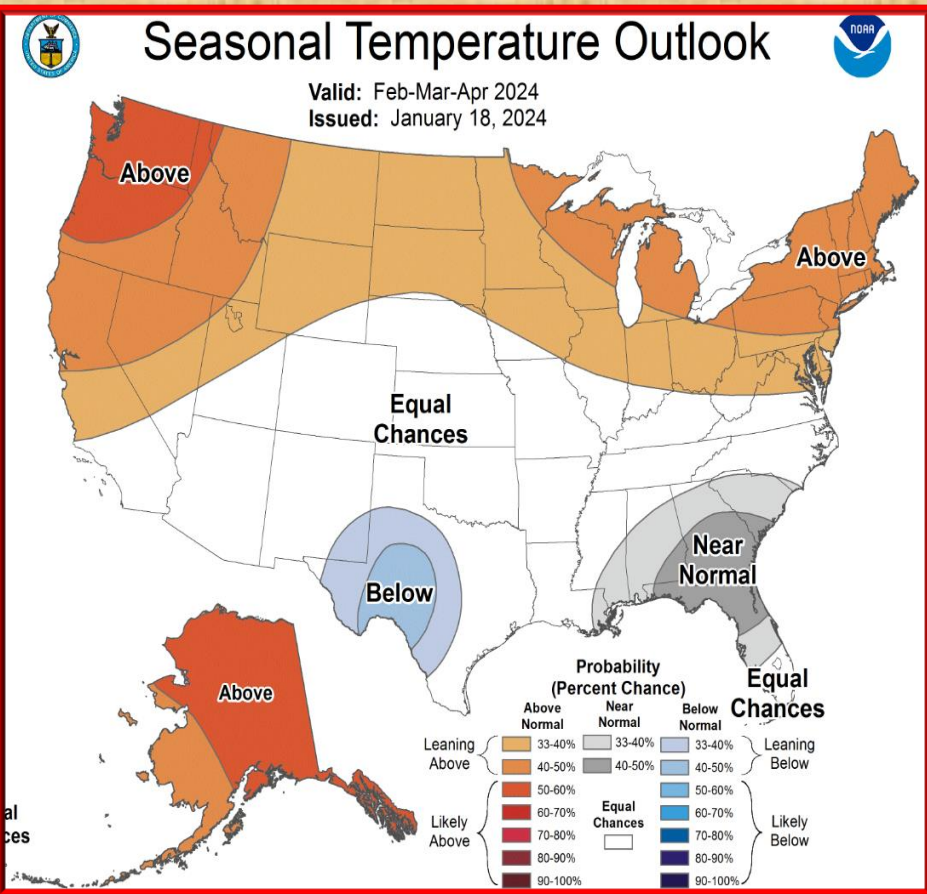




# Temperature and precipitation outlook for Feb-Apr 2024

## Temperature

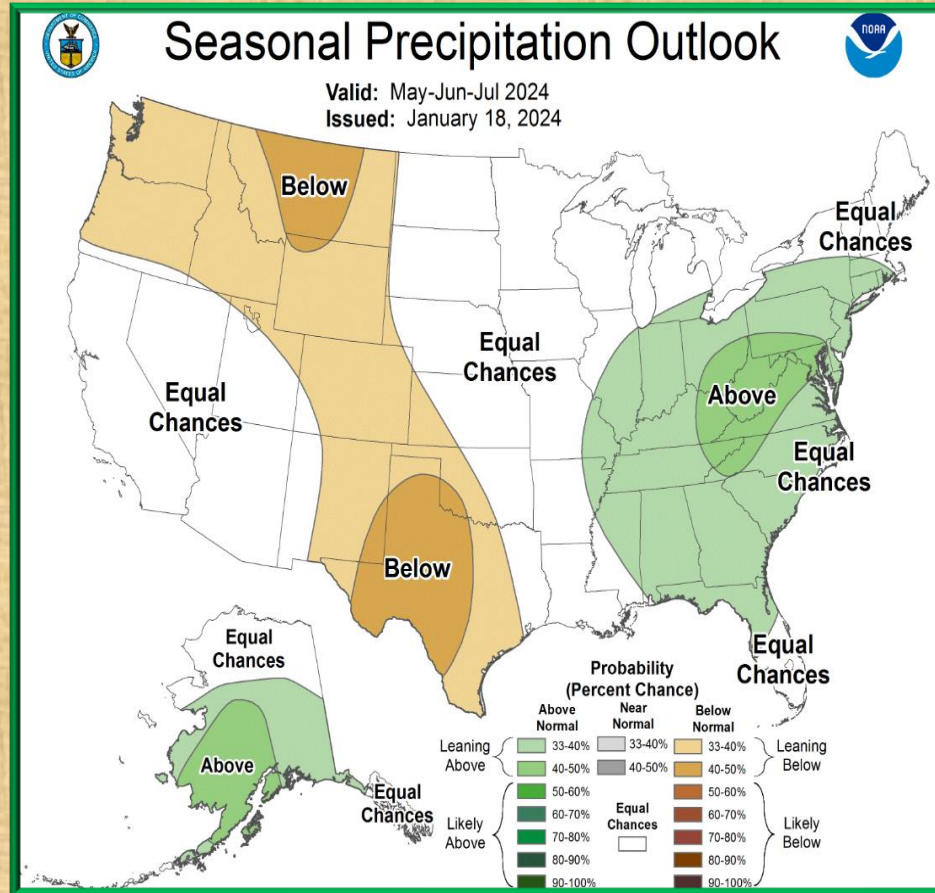
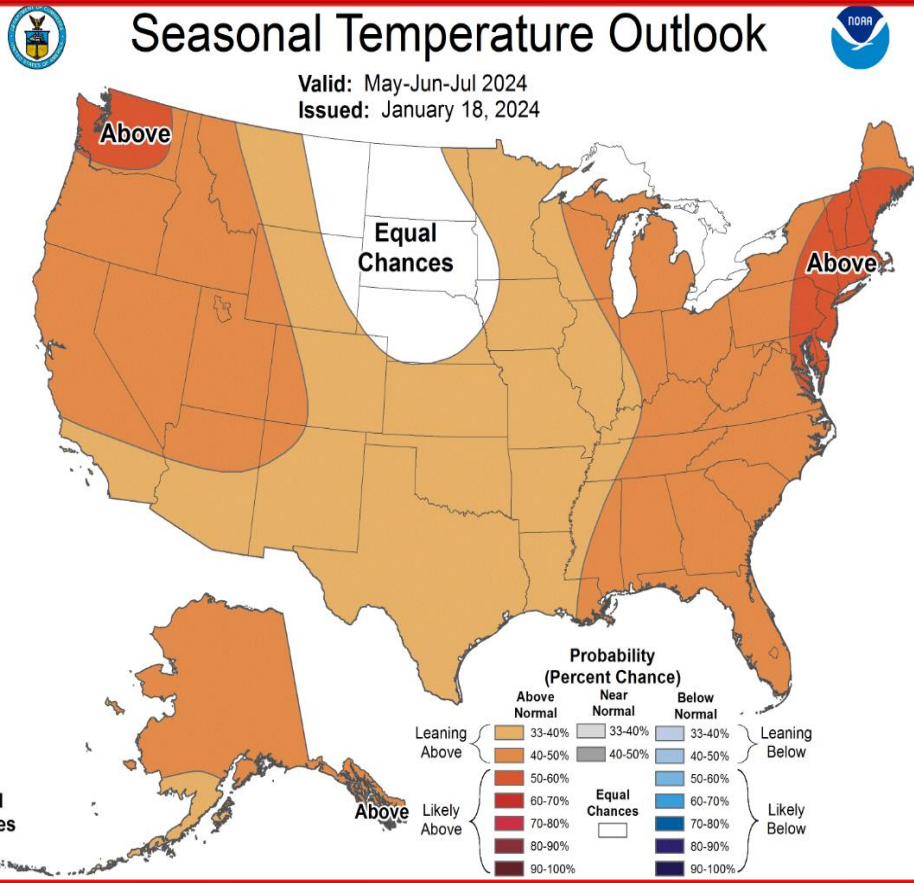
## Precipitation



# Temperature and precipitation outlook for May-Jul 2024

## Temperature

## Precipitation

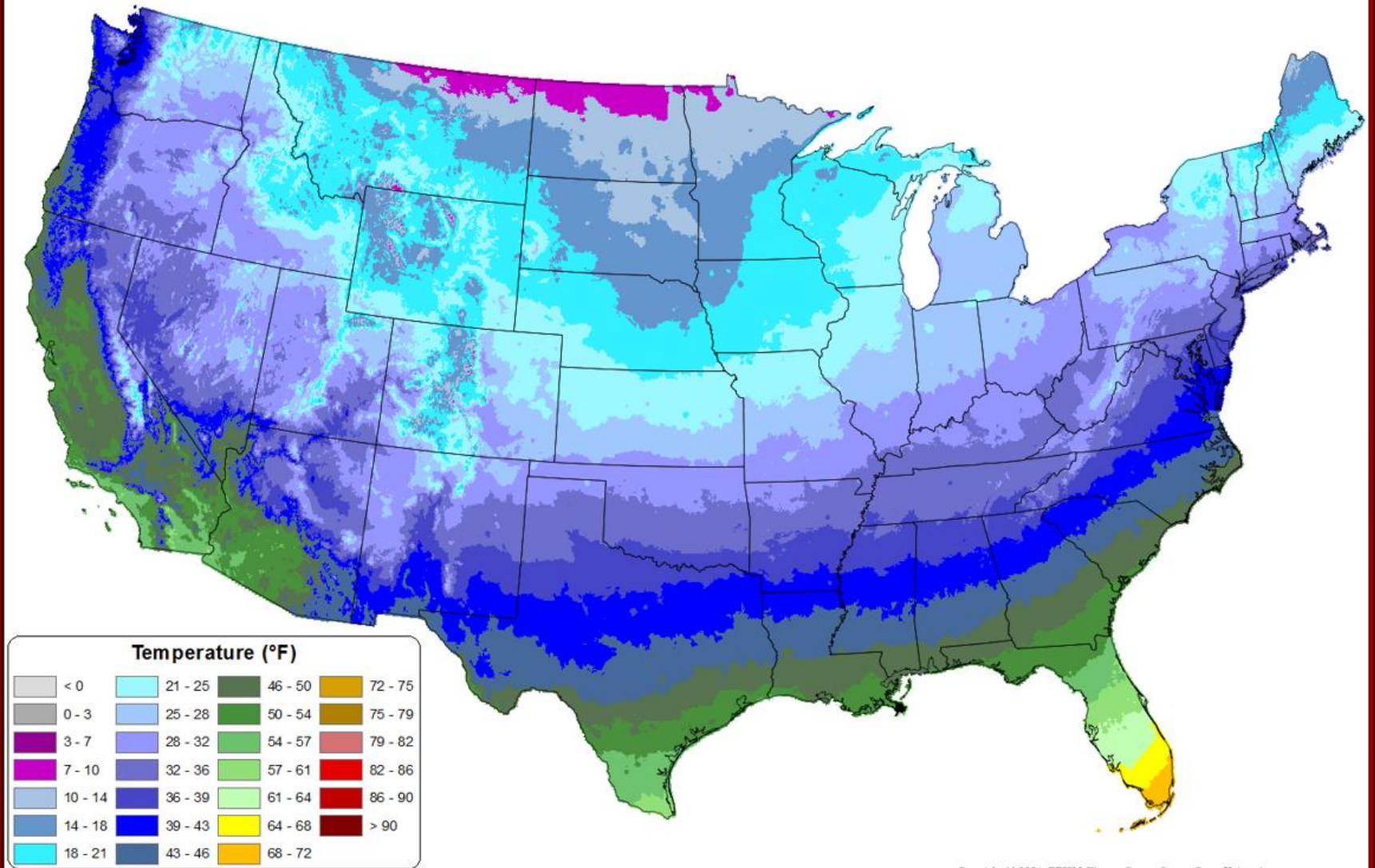


# Average Daily Mean Temperature for January 2024

Average Daily Mean Temperature: 01 Jan 2024 - 31 Jan 2024

Period ending 7 AM EST 31 Jan 2024

(Map created 01 Feb 2024)

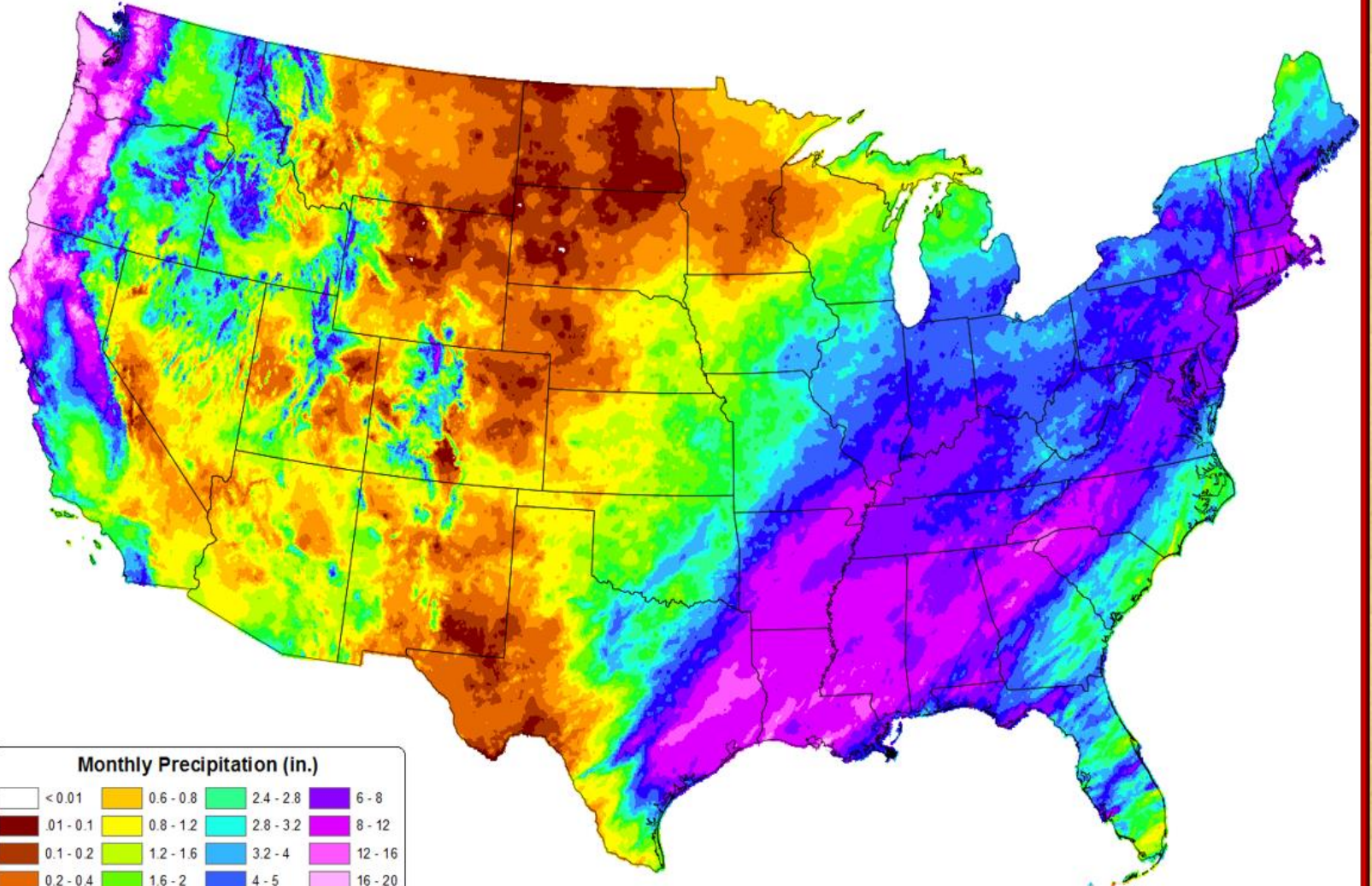


# Total Precipitation for January 2024

Total Precipitation: 01 Jan 2024 - 31 Jan 2024

Period ending 7 AM EST 31 Jan 2024

(Map created 01 Feb 2024)



# Selected Weather Reports January 2024

<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
JAN 7 255 PM	WSMR BLDG1830-DONA ANA	71 MPH PEAK WIND GUST
JAN 7 335 PM	SAN AUGUSTIN PASS-DONA ANA	66 MPH PEAK WIND GUST
JAN 8 458 AM	EL PASO INTL AIRPORT-EL PASO	56 MPH PEAK WIND GUST
JAN 8 318 AM	SIERRA BLANCA-HUDSPETH	54 MPH PEAK WIND GUST
JAN 7 712 PM	DEMING AIRPORT-LUNA	54 MPH PEAK WIND GUST
JAN 7 426 PM	DRIPPING SPRINGS-DONA ANA	51 MPH PEAK WIND GUST
JAN 7 1240 PM	NORTH LORDSBURG PLAYA-HIDALGO	49 MPH PEAK WIND GUST
JAN 7 755 PM	SANTA TERESA NWS-DONA ANA	48 MPH PEAK WIND GUST
JAN 7 915 PM	LAS CRUCES AIRPORT-DONA ANA	48 MPH PEAK WIND GUST
JAN 7 523 PM	MAYHILL-OTERO	45 MPH PEAK WIND GUST
JAN 8 141 AM	MESCALERO-OTERO	44 MPH PEAK WIND GUST
JAN 7 643 PM	T OR C AIRPORT-SIERRA	44 MPH PEAK WIND GUST



# Selected Weather Reports January 2024

<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
JAN 11 420 PM	SAN AUGUSTIN PASS-DONA ANA	96 MPH PEAK WIND GUST
JAN 11 1245 PM	WSMR MAIN POST-DONA ANA	74 MPH PEAK WIND GUST
JAN 11 705 PM	EL PASO INTL AIRPORT-EL PASO	67 MPH PEAK WIND GUST
JAN 11 245 PM	LORDSBURG PLAYA MP13-HIDALGO	66 MPH PEAK WIND GUST
JAN 11 134 PM	HIGH ROLLS-OTERO	65 MPH PEAK WIND GUST
JAN 11 238 PM	DEMING AIRPORT-LUNA	61 MPH PEAK WIND GUST
JAN 11 217 PM	SIERRA BLANCA-HUDSPETH	60 MPH PEAK WIND GUST
JAN 11 415 PM	LAS CRUCES AIRPORT-DONA ANA	59 MPH PEAK WIND GUST
JAN 11 445 PM	SANTA TERESA NWS-DONA ANA	59 MPH PEAK WIND GUST
JAN 11 1241 PM	MESCALERO-OTERO	58 MPH PEAK WIND GUST
JAN 11 426 PM	DRIPPING SPRINGS-DONA ANA	55 MPH PEAK WIND GUST
JAN 11 301PM	SILVER CITY MTN VIEW-GRANT	55 MPH PEAK WIND GUST

# Selected Weather Reports January 2024

<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
JAN 11 151 PM	HOLLOMAN AFB-OTERO	53 MPH PEAK WIND GUST
JAN 11 445 PM	T OR C AIRPORT-SIERRA	53 MPH PEAK WIND GUST
JAN 11 215 PM	ALAMOGORDO AIRPORT-OTERO	51 MPH PEAK WIND GUST
JAN 11 155 PM	SANTA TERESA AIRPORT-DONA ANA	51 MPH PEAK WIND GUST
JAN 11 230 PM	TIMBERON-OTERO	48 MPH PEAK WIND GUST
JAN 22 700 AM	CLOUDCROFT 2SW-OTERO	9.0 INCHES 24 HR SNOW
JAN 22 700 AM	CLOUDCROFT 1NW-OTERO	7.3 INCHES 24 HR SNOW
JAN 22 700 AM	CLOUDCROFT COOP-OTERO	7.3 INCHES 24 HR SNOW
JAN 22 700 AM	CLOUDCROFT 1 ESE-OTERO	6.0 INCHES 24 HR SNOW
JAN 22 700 AM	SUNSPOT-OTERO	3.0 INCHES 24 HR SNOW
JAN 24 700 AM	SUNSPOT-OTERO	3.0 INCHES 24 HR SNOW
JAN 24 700 AM	CLOUDCROFT 2 SW-OTERO	2.5 INCHES 24 HR SNOW

# Selected Weather Reports January 2024

<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
JAN 24 700 AM	CLOUDCROFT 1SE-OTERO	1.8 INCHES 24 HR SNOW
JAN 24 700 AM	CLOUDCROFT 1NW-OTERO	1.2 INCHES 24 HR SNOW
JAN 24 700 AM	CLOUDCROFT COOP-OTERO	1.2 INCHES 24 HR SNOW

# Special Features

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

Month: **JANUARY**

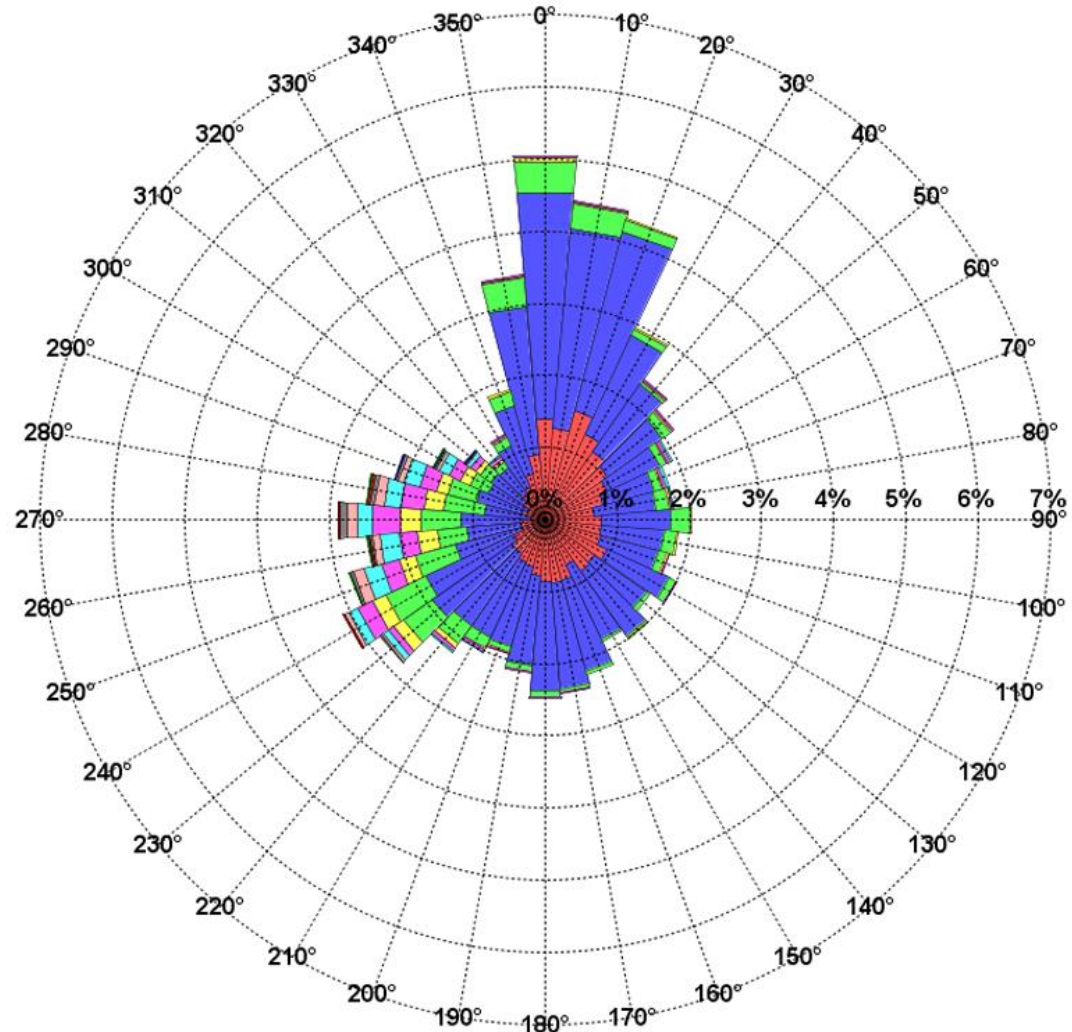
Calm: 13.27%

Variable: 1.45%

## 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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City, ST

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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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**Monthly Weather Digest**  
[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>	