

October 2024 Weather Digest



October 2024 Weather Summary

October will be remembered as one of the hottest Octobers on record. High temperatures for most sites ranged from 5 to 8° above normal, while average temperatures also ranged about 5 to 8° above normal. El Paso set their all-time October record of 96° (Oct 6) and also the latest ever 90°+ (Oct 28).

With the heat, dry weather usually also occurs and that certainly played out this October. Most of the area received only 10 to 50 percent of their normal rainfall for the month. Only western Otero County and a small area of southeast Dona Ana County received above normal (100 to 150 percent of normal) rainfall. Most of the October rainfall fell in a few days (Oct 16-20) in mid month. This period began with unusually strong moist, southerly flow bringing moisture up from Mexico, followed by a Pacific storm system which tapped into that moisture. With the dryness, wildfires can become a threat. Several small wildfires developed during the month but fortunately they were able to be quickly controlled.

October 2024 Weather Summary

Looking ahead to November, daylight and temperatures both continue to decrease, although at a slower pace than previous months. At El Paso, daylength on the first is 10 hours, 53 minutes, decreasing to 10 hours, 14 minutes on the last day of the month. The normal high on the 1st is 73°, decreasing to 61° on the 30th. The November full moon occurs on the 15th while the new moon occurs on the 1st. The November full moon is known as the Beaver moon, and is also a Super Moon.

Oct 10 Aurora near Silver City



Oct 10 Aurora near Silver City



Oct 10 Aurora near Silver City



Oct 10 Aurora near Silver City



Oct 14 Comet near Lordsburg



Oct 14 Comet near Silver City



Oct 14 Comet near Silver City



Oct 14 Comet near Silver City



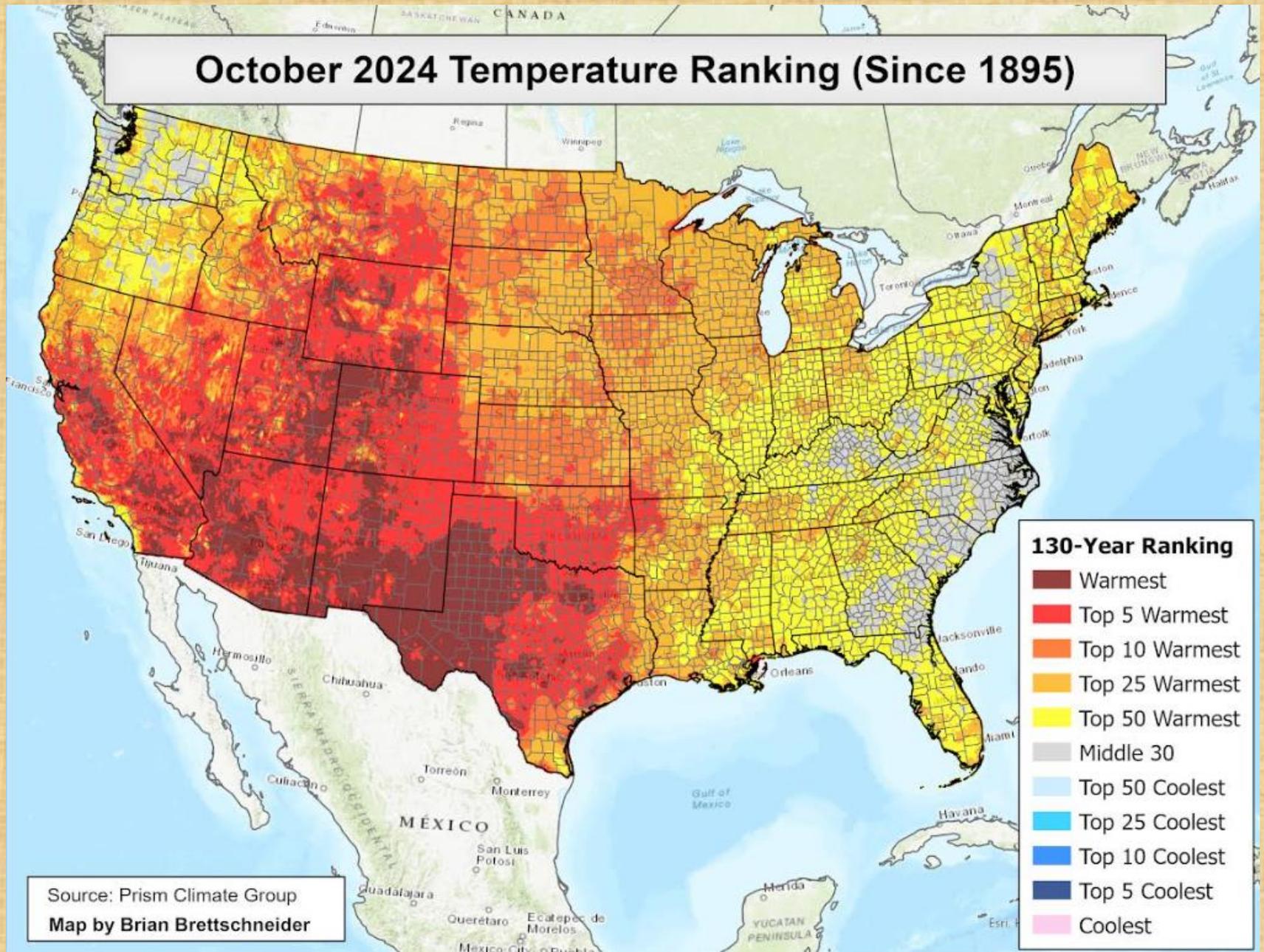
Oct 10 Landspout near Silver City



**Oct 19 storm near
White Sands Nat Monument**

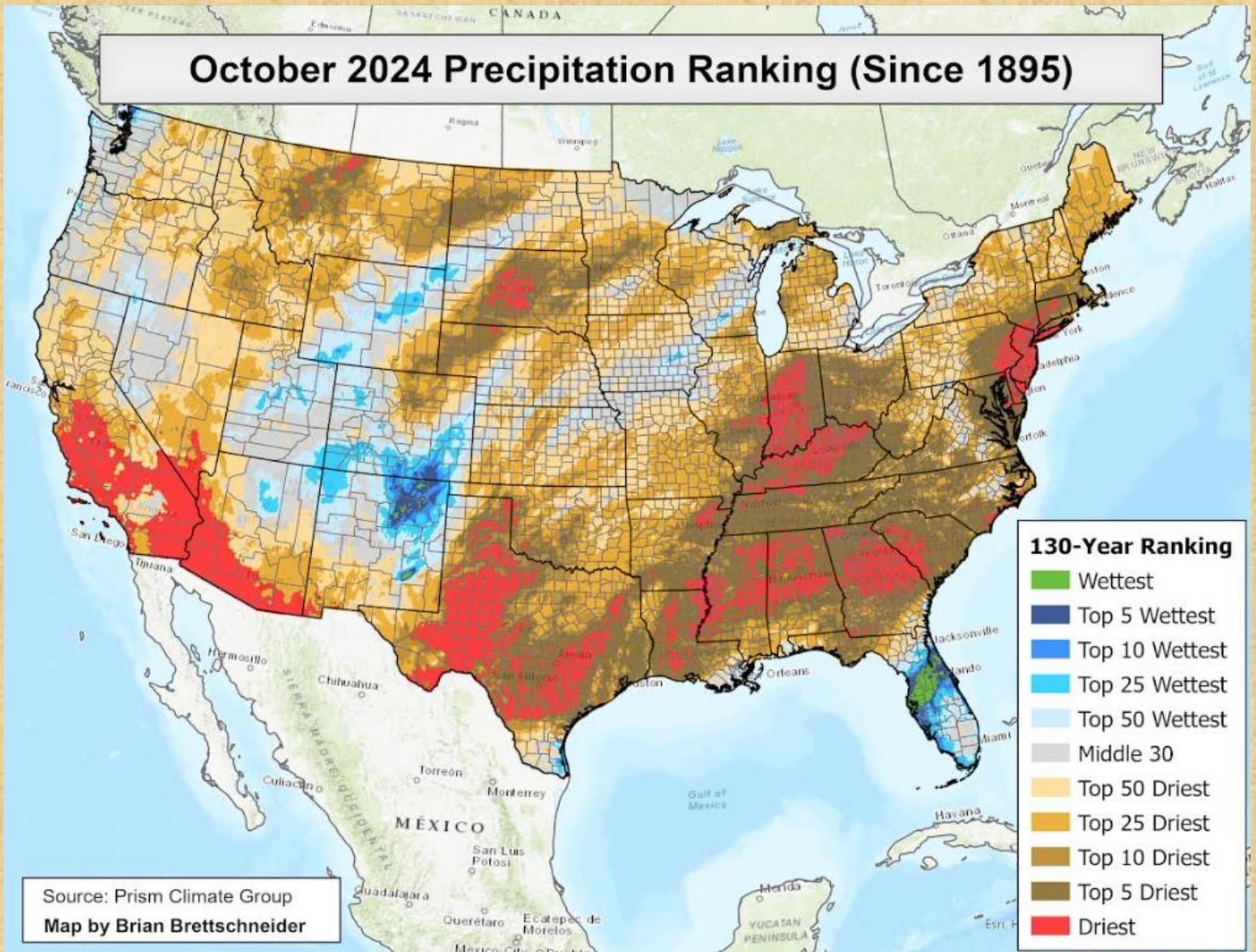


October 2024 Temperature Ranking (Since 1895)



Source: Prism Climate Group
Map by Brian Brettschneider

October 2024 Precipitation Ranking (Since 1895)



Source: Prism Climate Group
Map by Brian Brettschneider

ENSO Alert System Status: **La Niña Watch is in effect**

ENSO Alert System

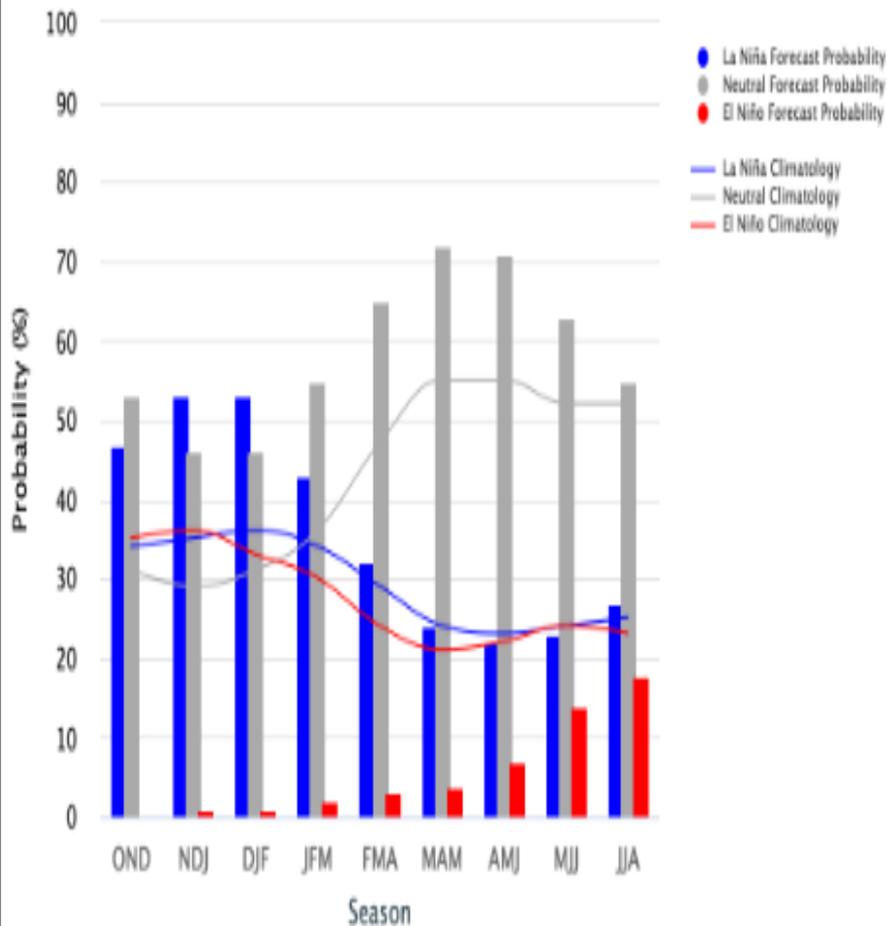
- **El Niño or La Niña Watch:** Issued when conditions are favorable for the development of El Niño or La Niña conditions in the next six months.
- **El Niño or La Niña Advisory:** Issued when El Niño or La Niña conditions are observed and expected to continue.

ENSO Forecast

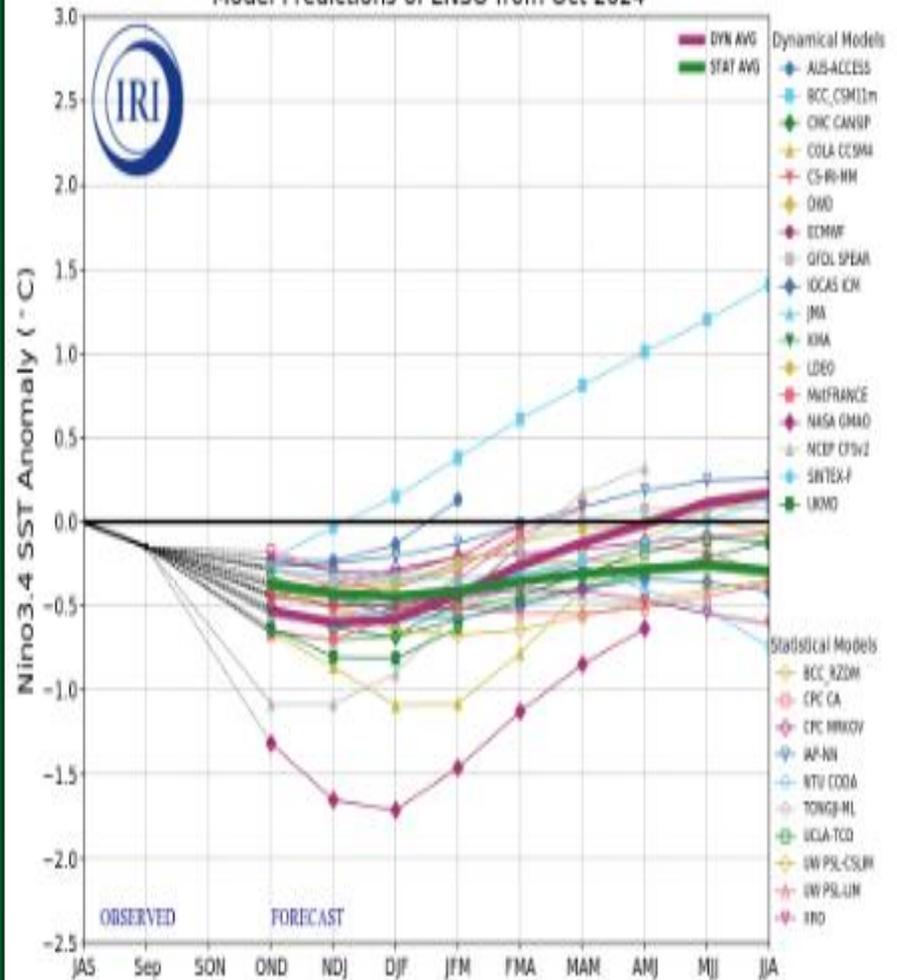
ENSO is in Neutral phase and is expected to transition to La Niña within a month

Mid-October 2024 IRI Model-Based Probabilistic ENSO Forecasts

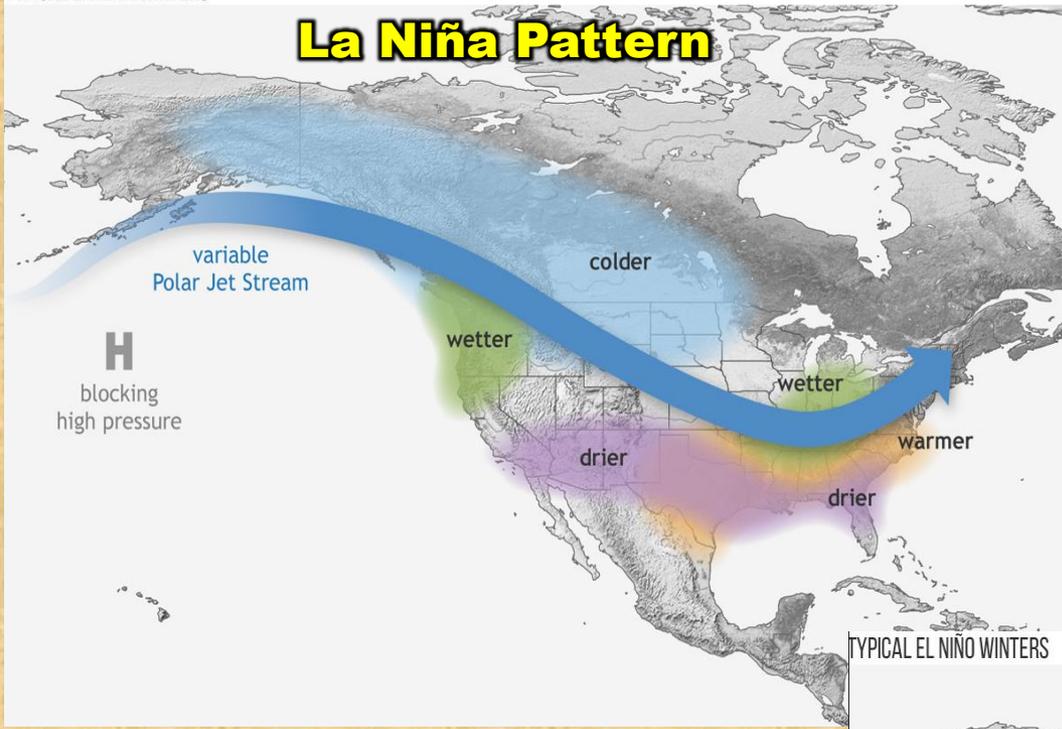
ENSO state based on NINO3.4 SST Anomaly Neutral ENSO: -0.5°C to 0.5°C



Model Predictions of ENSO from Oct 2024

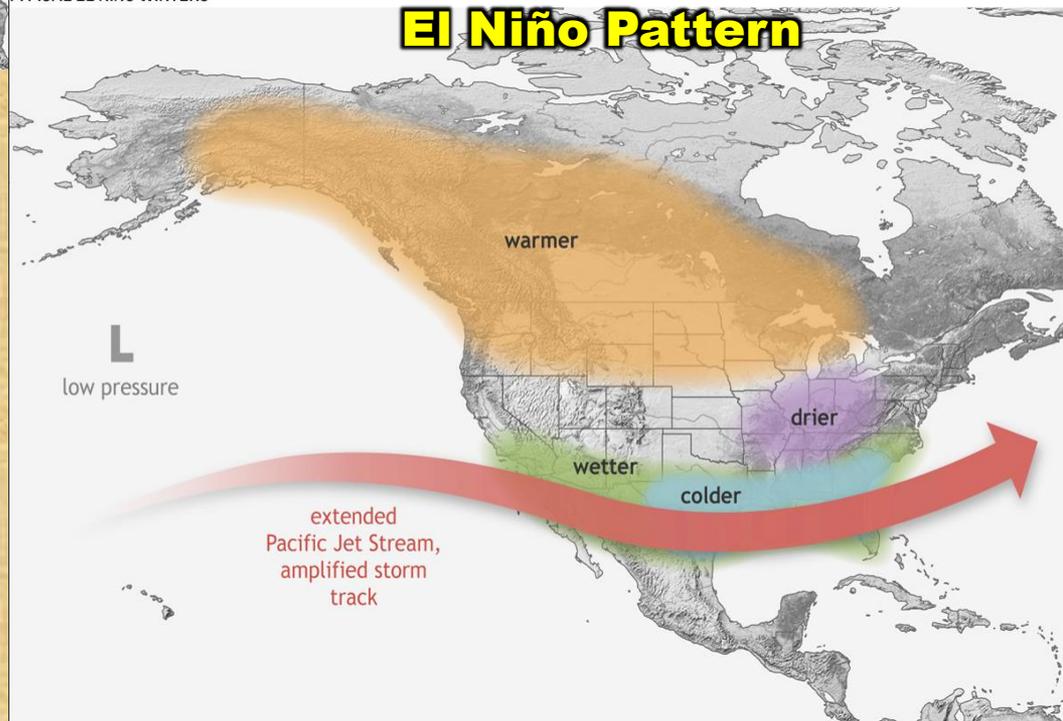


La Niña Pattern



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

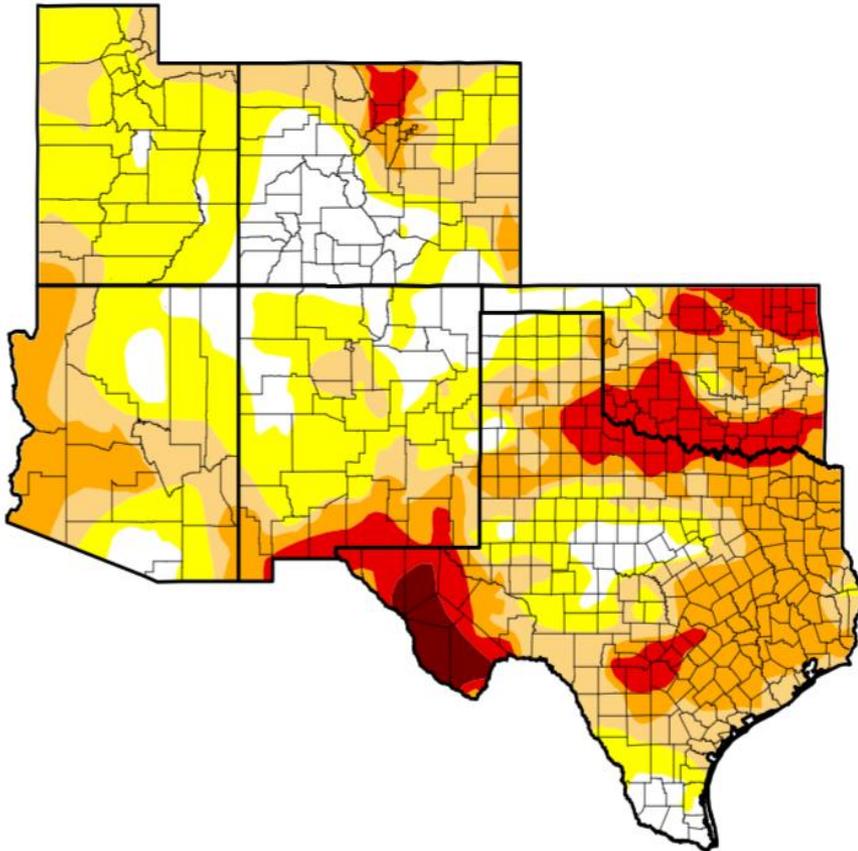


With El Niño, we often see the opposite pattern where the eastern Pacific ridge of high pressure is often weak or non-existent, allowing winter storms to sweep across the southern U.S. This typically will give the southwestern U.S. above normal precipitation.

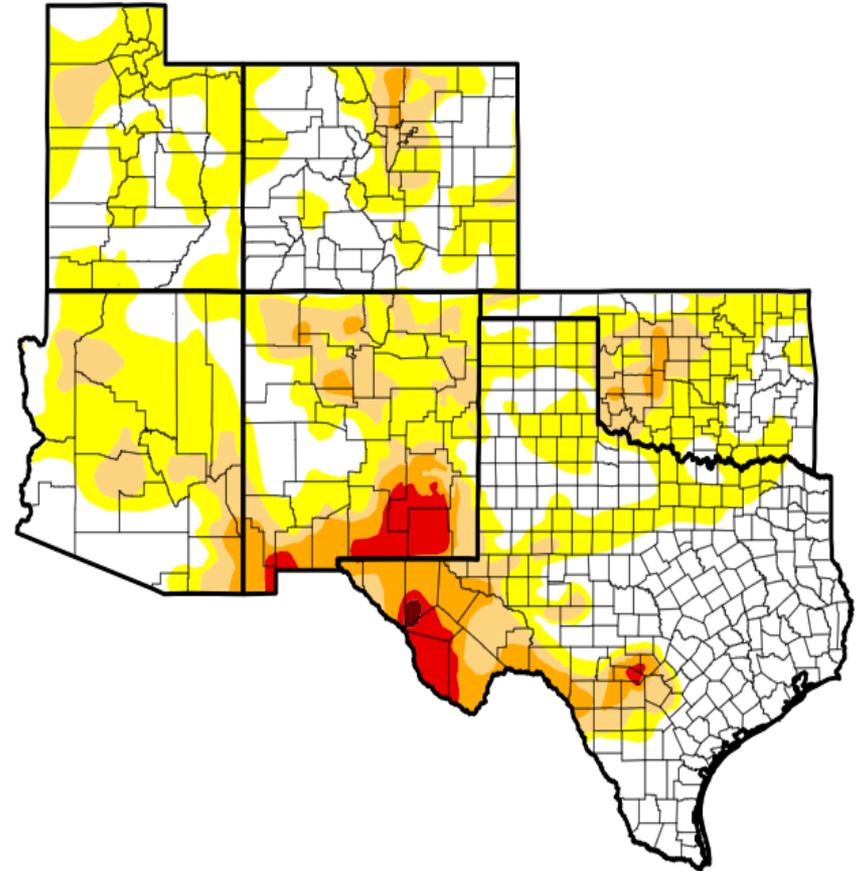
Current drought conditions and 3 month change

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

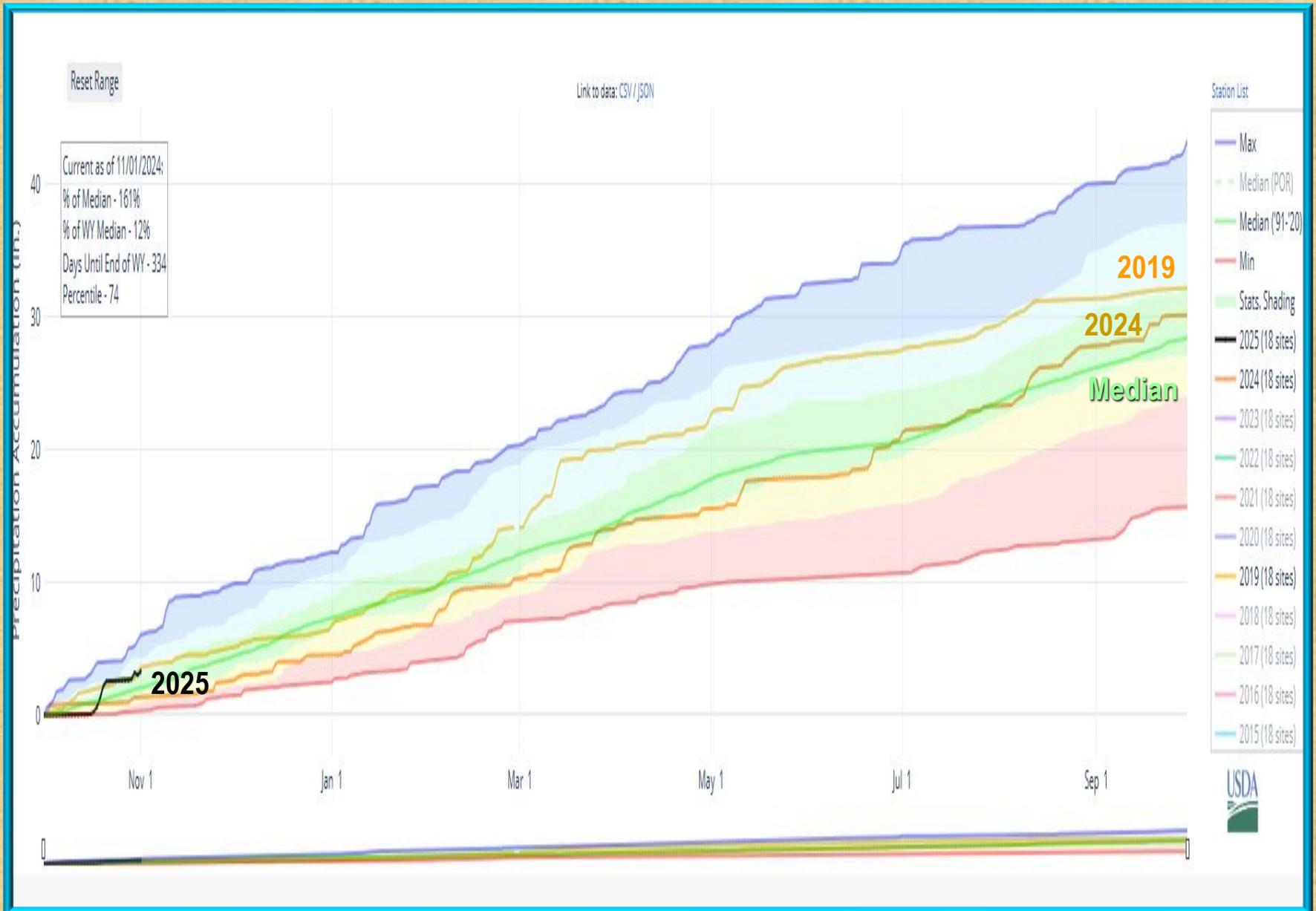
Oct 29, 2024



Jul 30, 2024



Precipitation for the Water YTD Oct 1 – Sep 30, 2025 Compare to last few years and average values

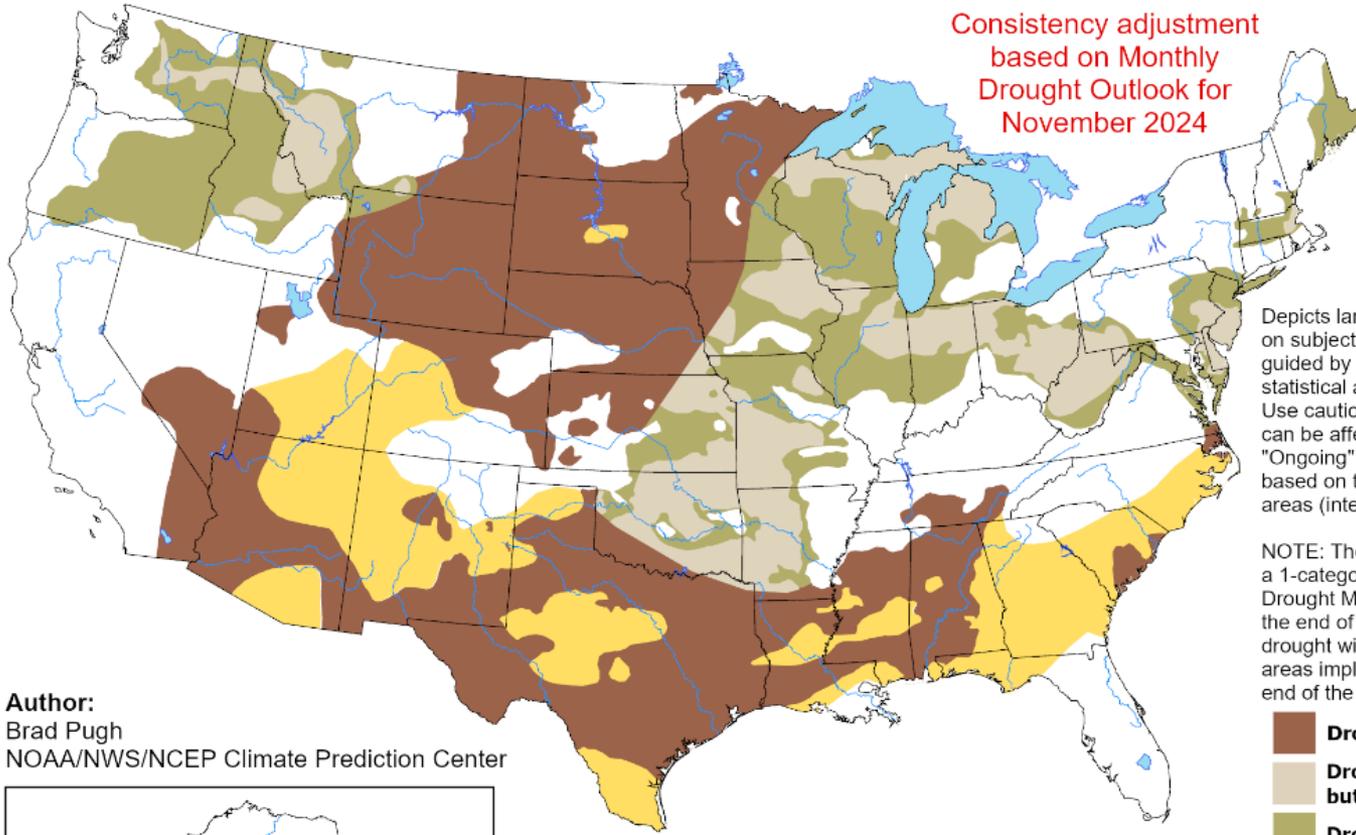


U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for November 1, 2024 - January 31, 2025
Released October 31, 2024

Consistency adjustment
based on Monthly
Drought Outlook for
November 2024

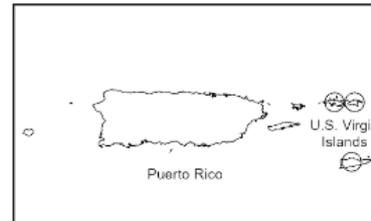
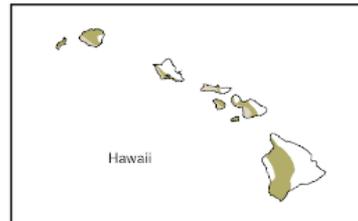


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

Author:
Brad Pugh
NOAA/NWS/NCEP Climate Prediction Center

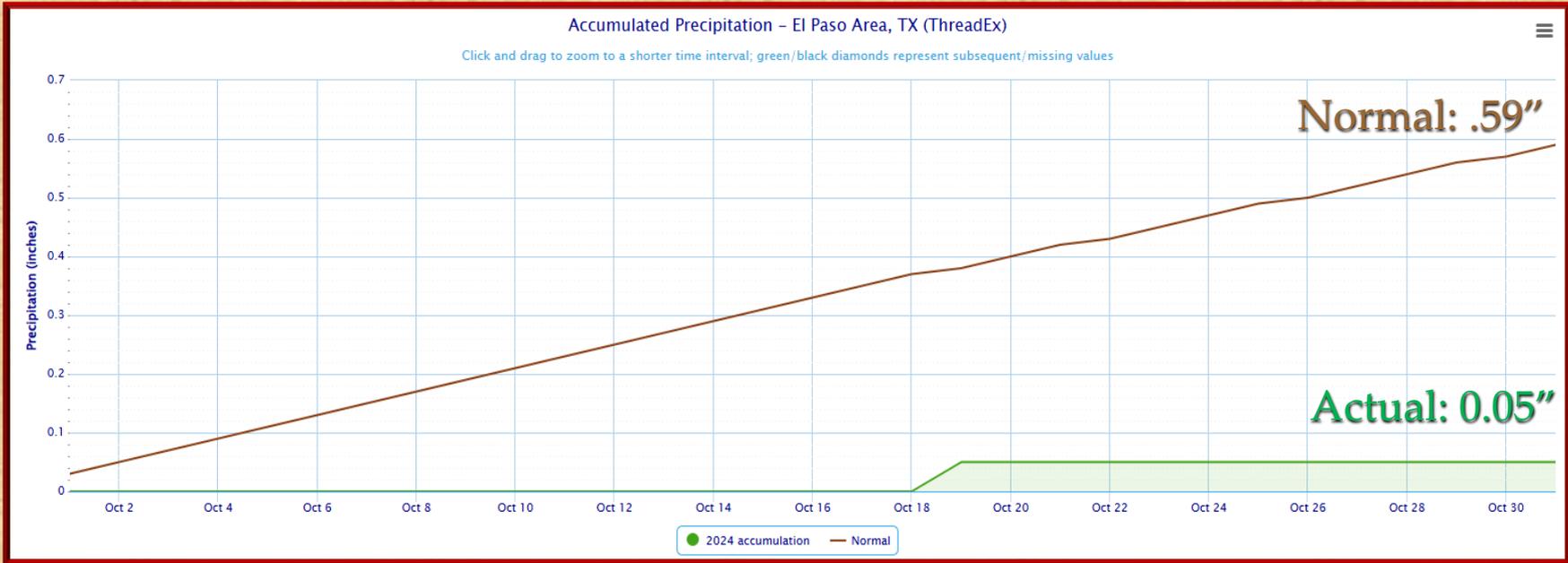
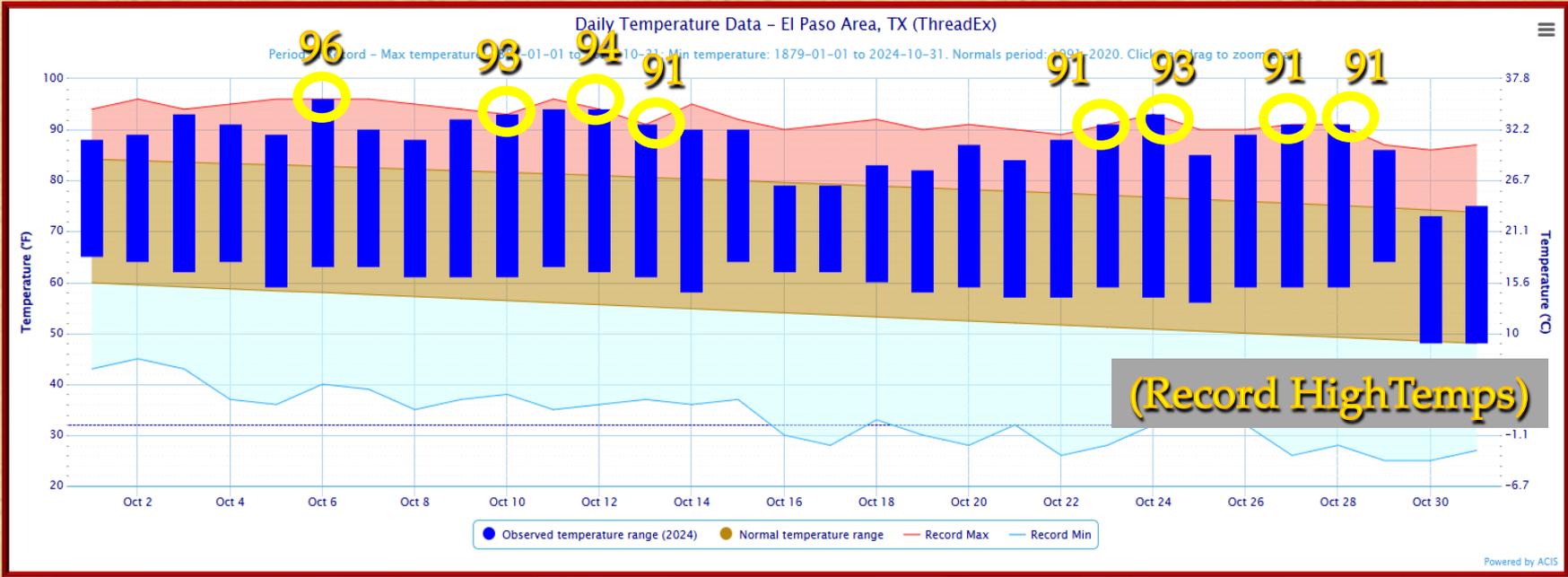
-  **Drought persists**
-  **Drought remains, but improves**
-  **Drought removal likely**
-  **Drought development likely**
-  **No drought**



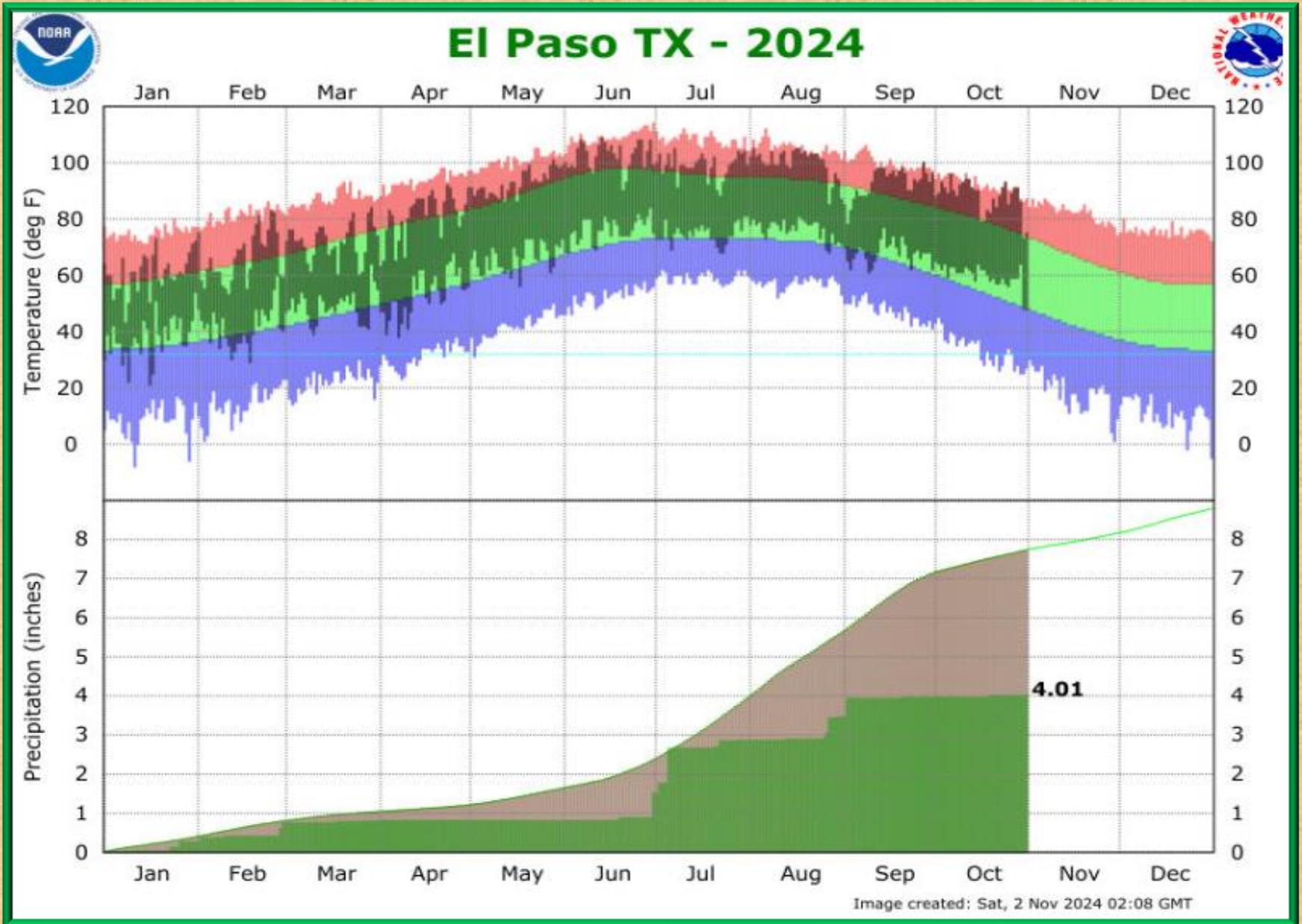
<https://go.usa.gov/3eZ73>

Temperature and precipitation data for October 2024 in El Paso

○ = record



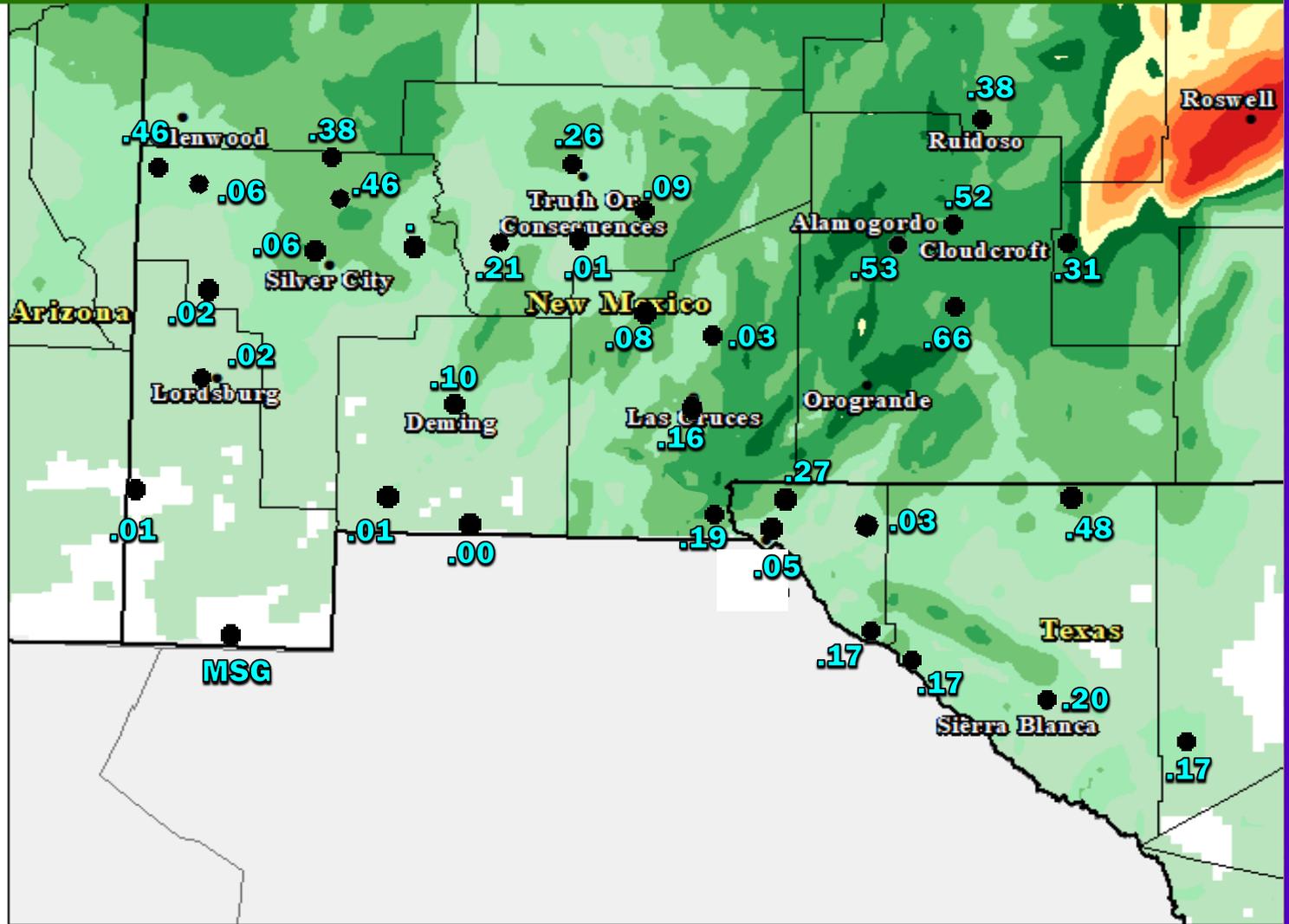
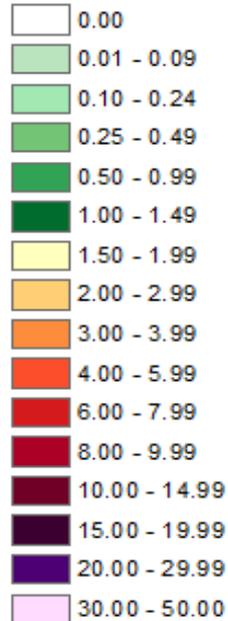
Temperature and Precipitation Year-to-date for 2024 for El Paso



October 2024 rainfall estimate with surface rainfall reports

Observed Precipitation To Date - October

Inches

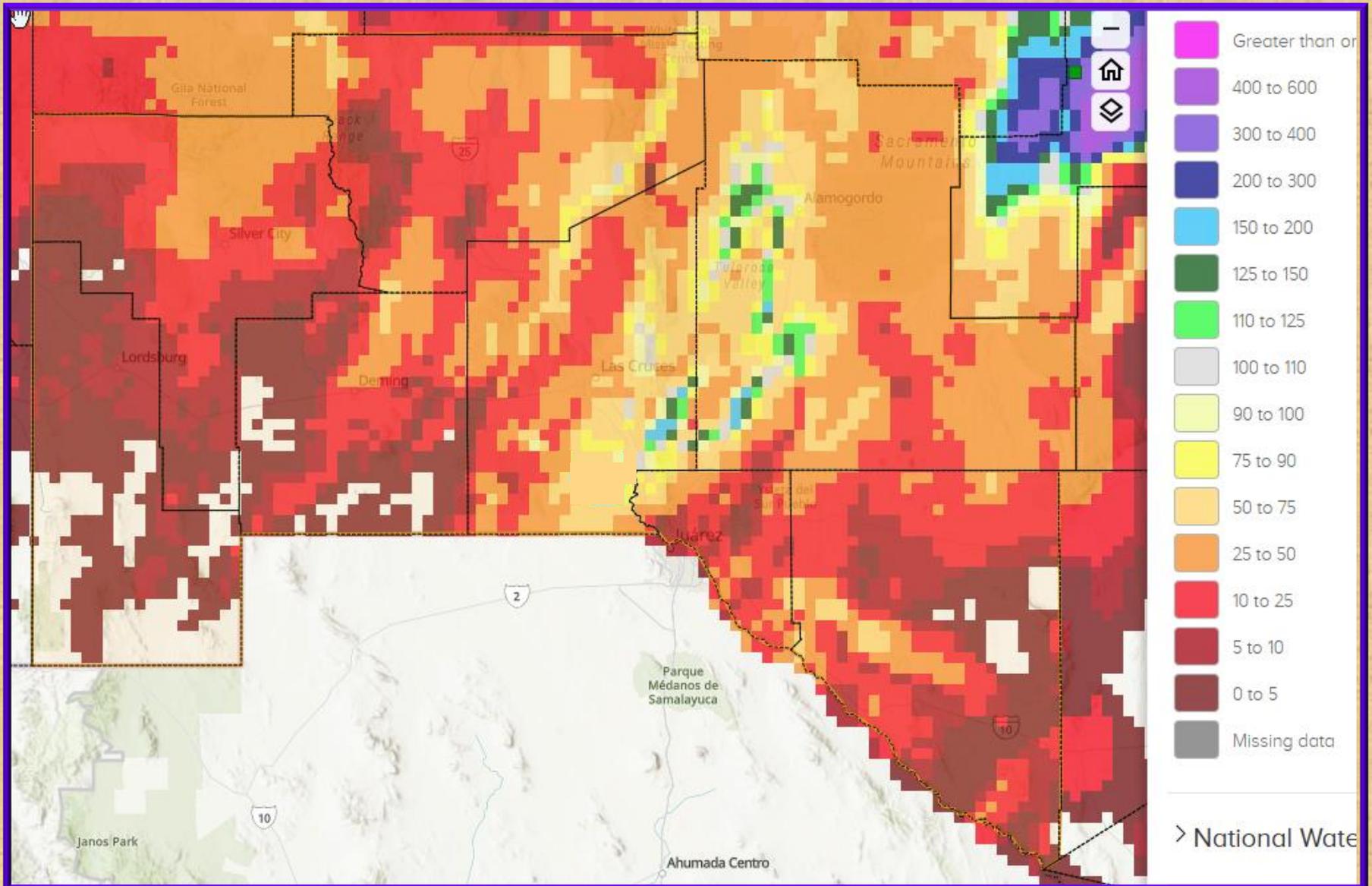


Created by the
NWS Forecast Office
El Paso, TX

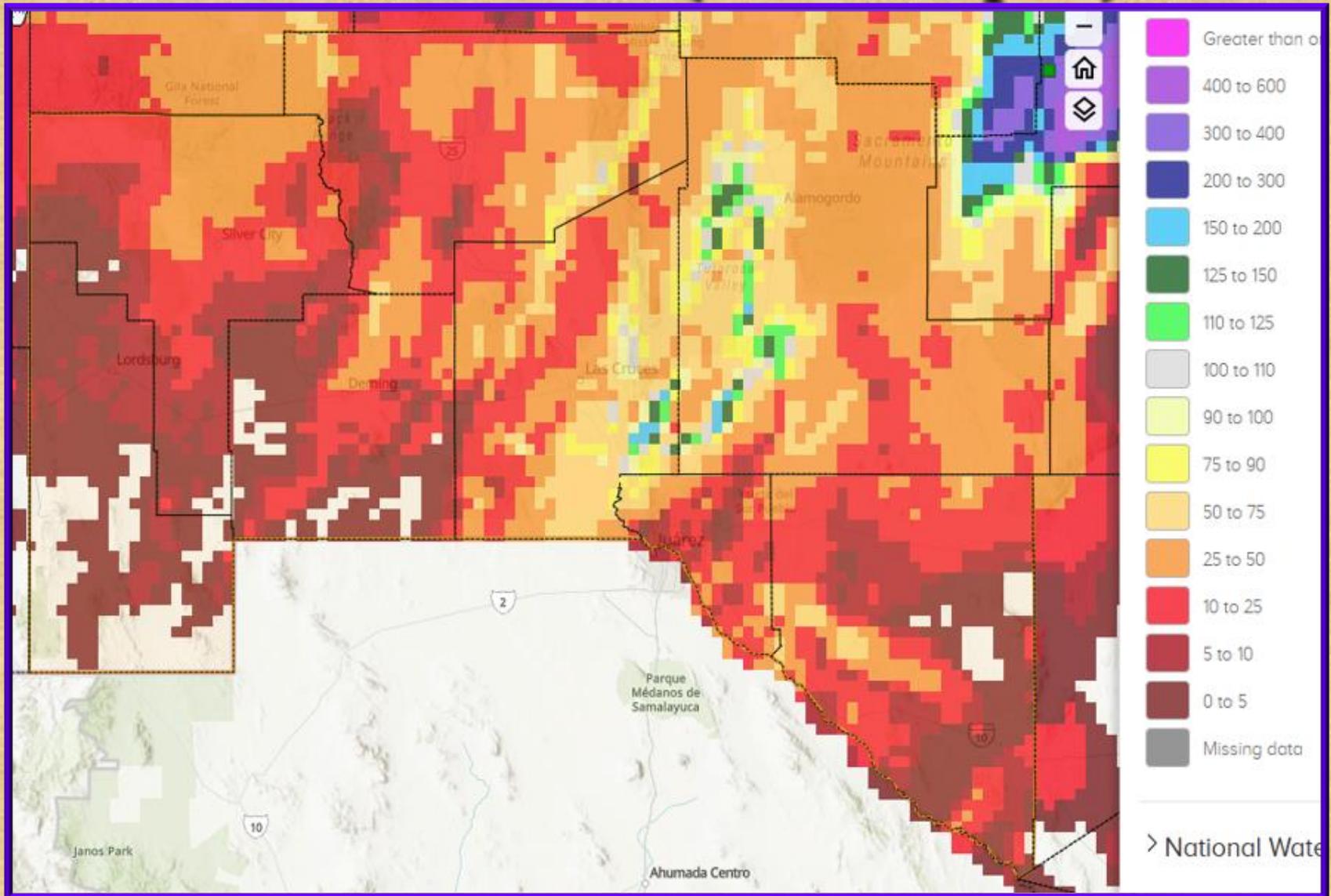


Source: NWS Advanced
Hydrologic Prediction Service

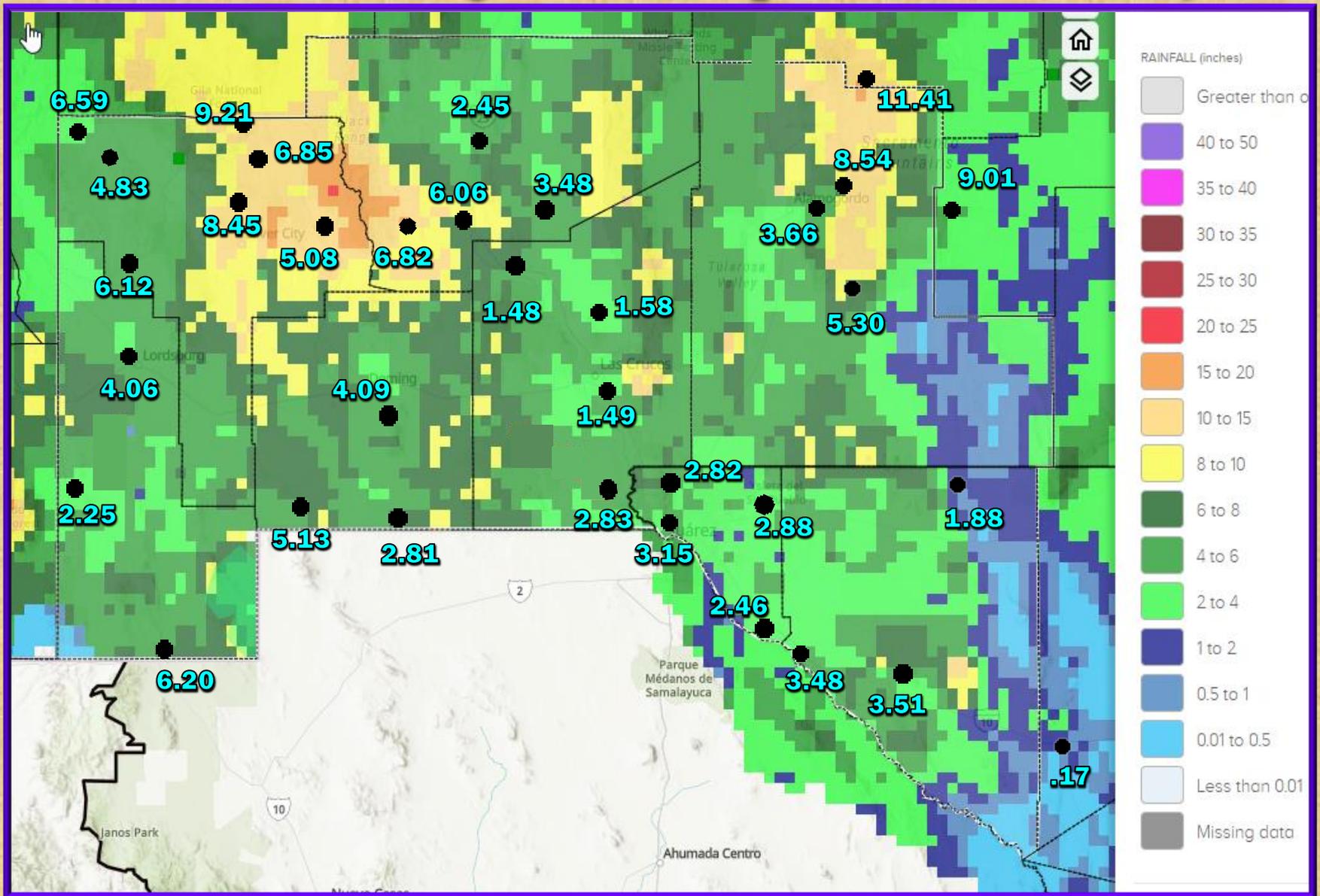
October 2024 rainfall estimate percent of normal



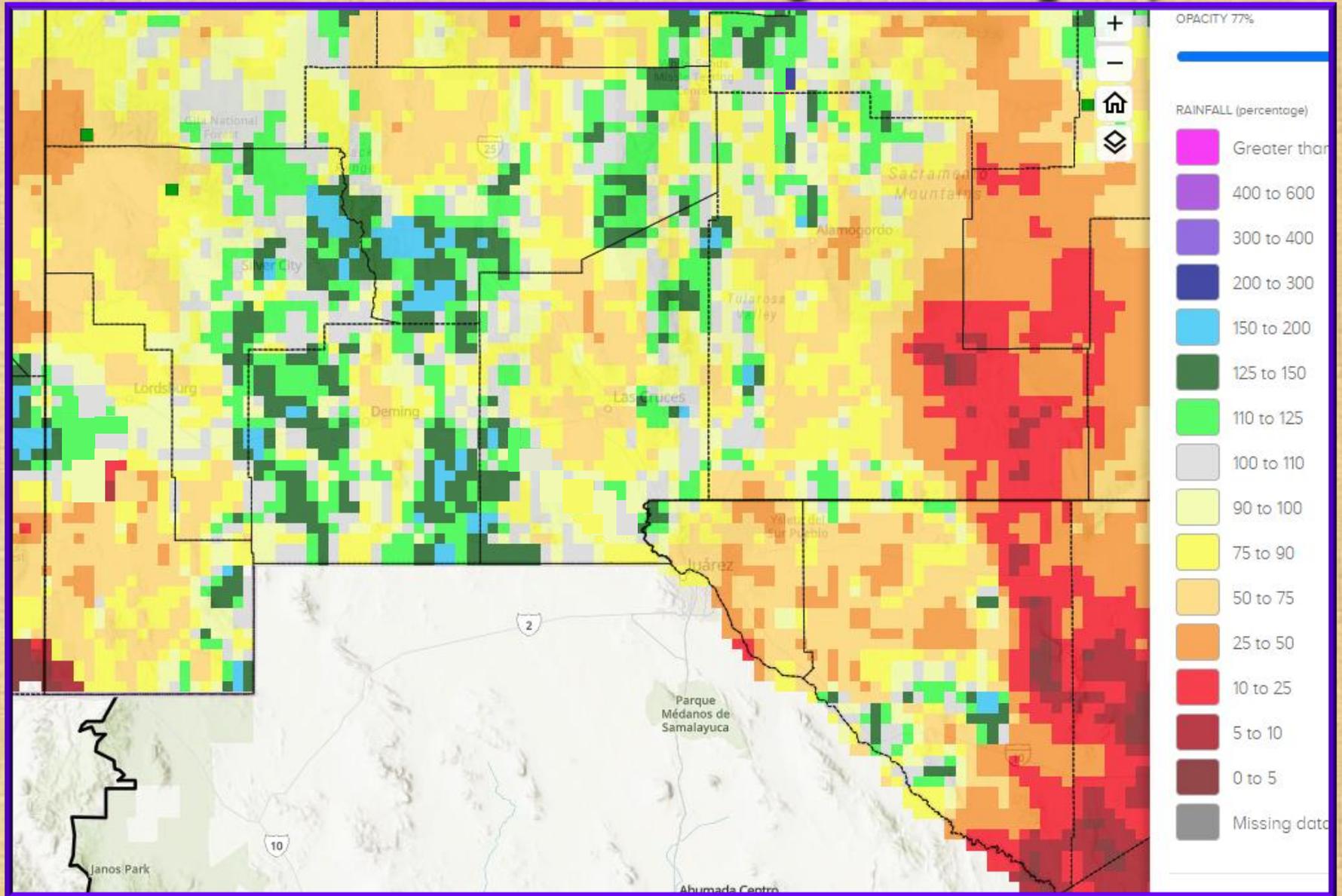
Radar rainfall estimate percent of normal for the Water Year (Oct 1 – Sep 30)



Radar rainfall estimate for the Monsoon Season 2024 (June 1 – September 30, 2024)



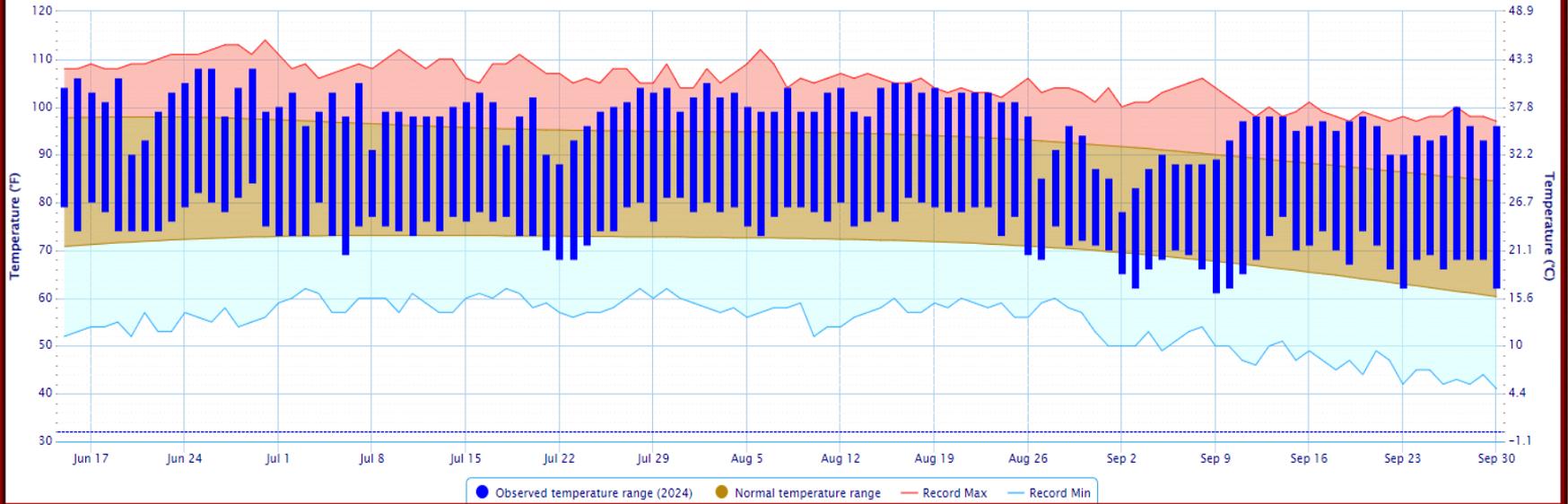
Radar rainfall estimate percent of normal for Monsoon season 2024 (June 1-Sep 30)



Temperature and precipitation data through Sep 30, 2024 Monsoon Season in El Paso

Daily Temperature Data – El Paso Area, TX (ThreadEx)

Period of Record – Max temperature: 1887-01-01 to 2024-10-01; Min temperature: 1879-01-01 to 2024-10-01. Normals period: 1991-2020. Click and drag to zoom chart.



Accumulated Precipitation – El Paso Area, TX (ThreadEx)

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



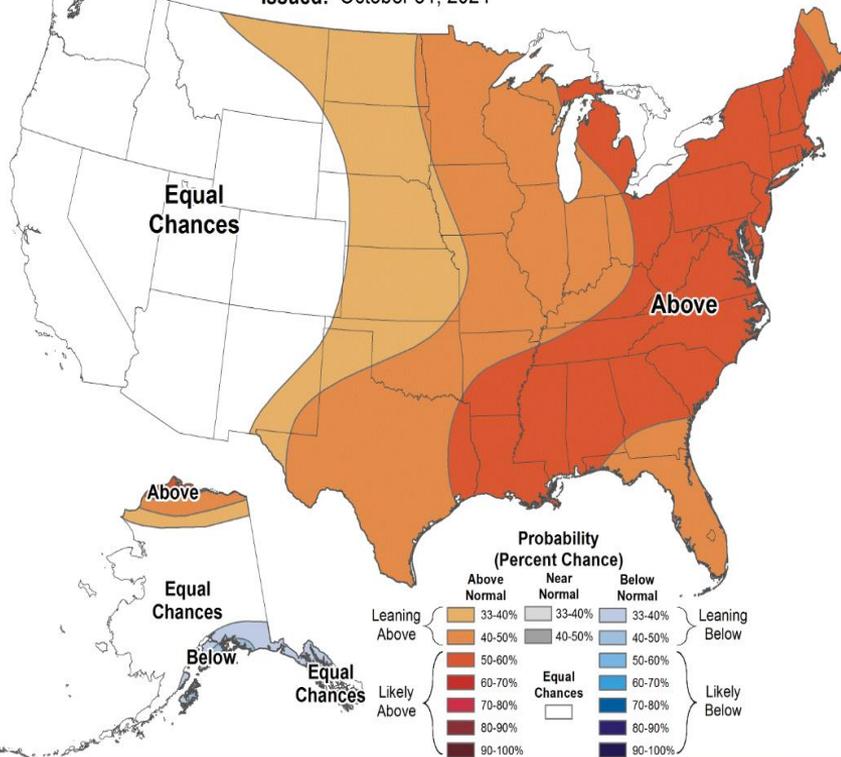
Temperature and precipitation outlook For Nov 2024

Temperature

Precipitation

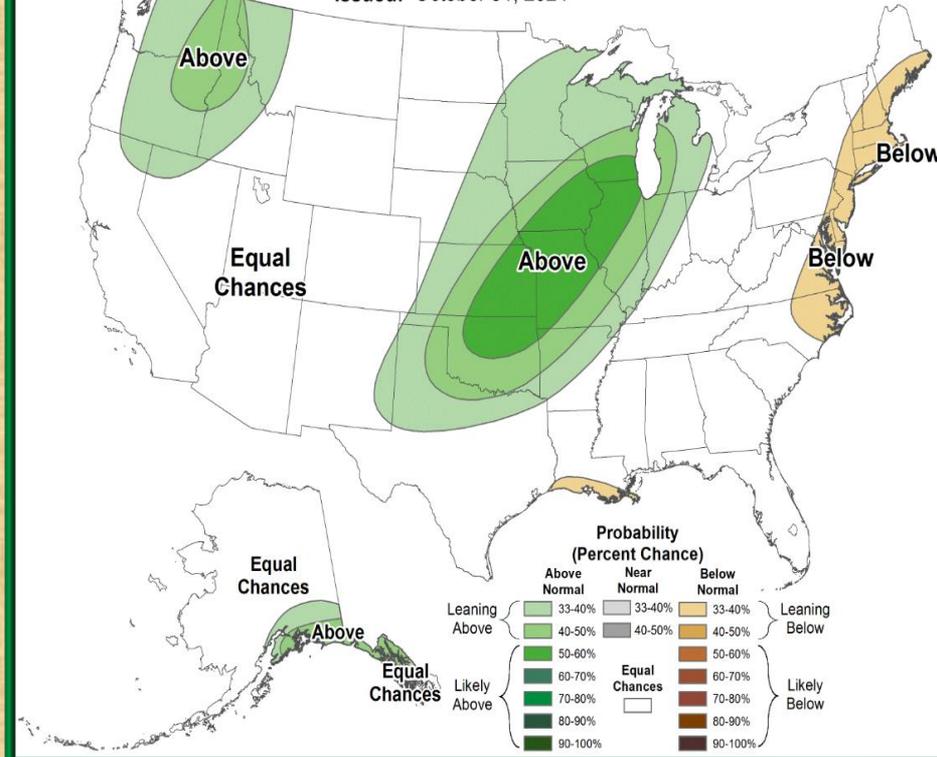
Monthly Temperature Outlook

Valid: November 2024
Issued: October 31, 2024



Monthly Precipitation Outlook

Valid: November 2024
Issued: October 31, 2024



Temperature and precipitation outlook for Nov-Jan 2025

Temperature

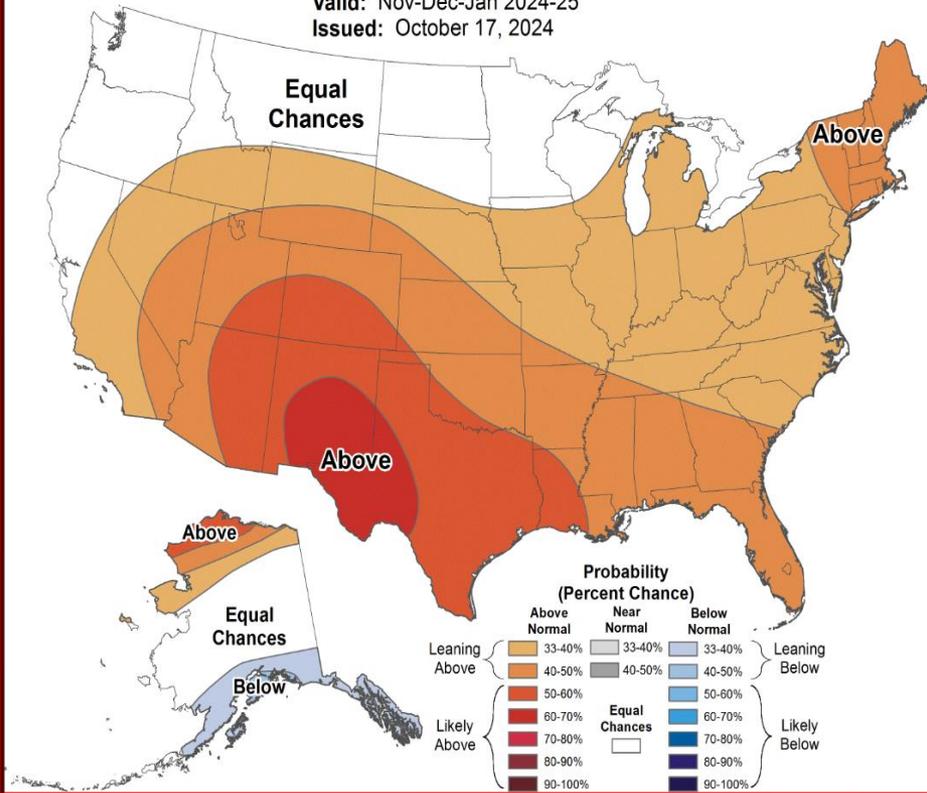
Precipitation



Seasonal Temperature Outlook



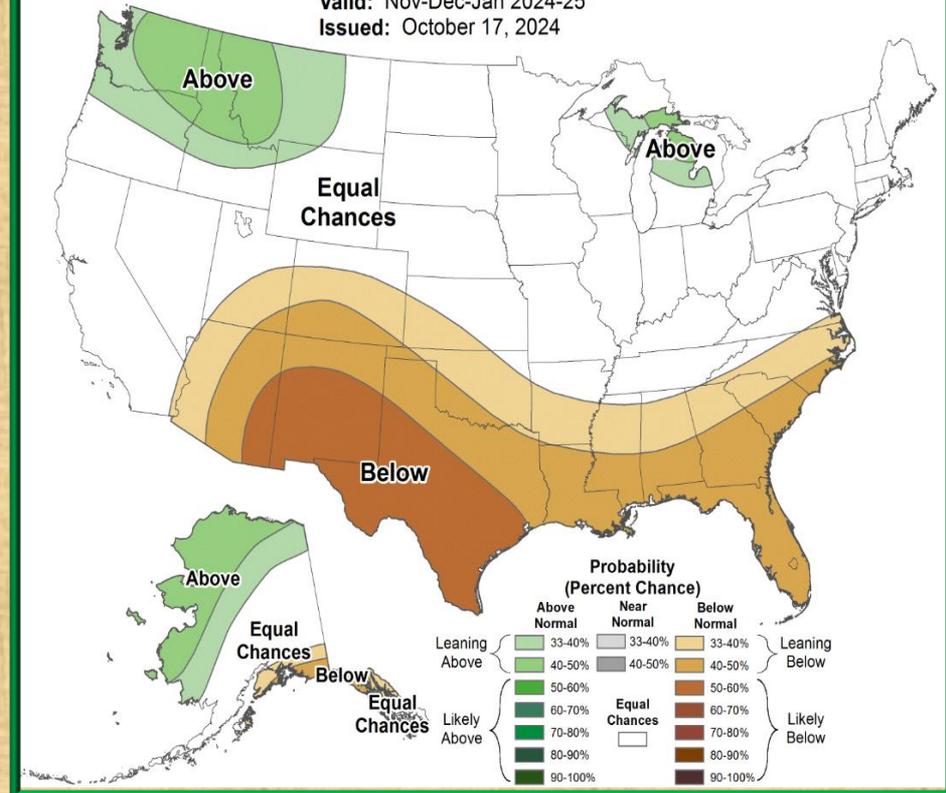
Valid: Nov-Dec-Jan 2024-25
Issued: October 17, 2024



Seasonal Precipitation Outlook



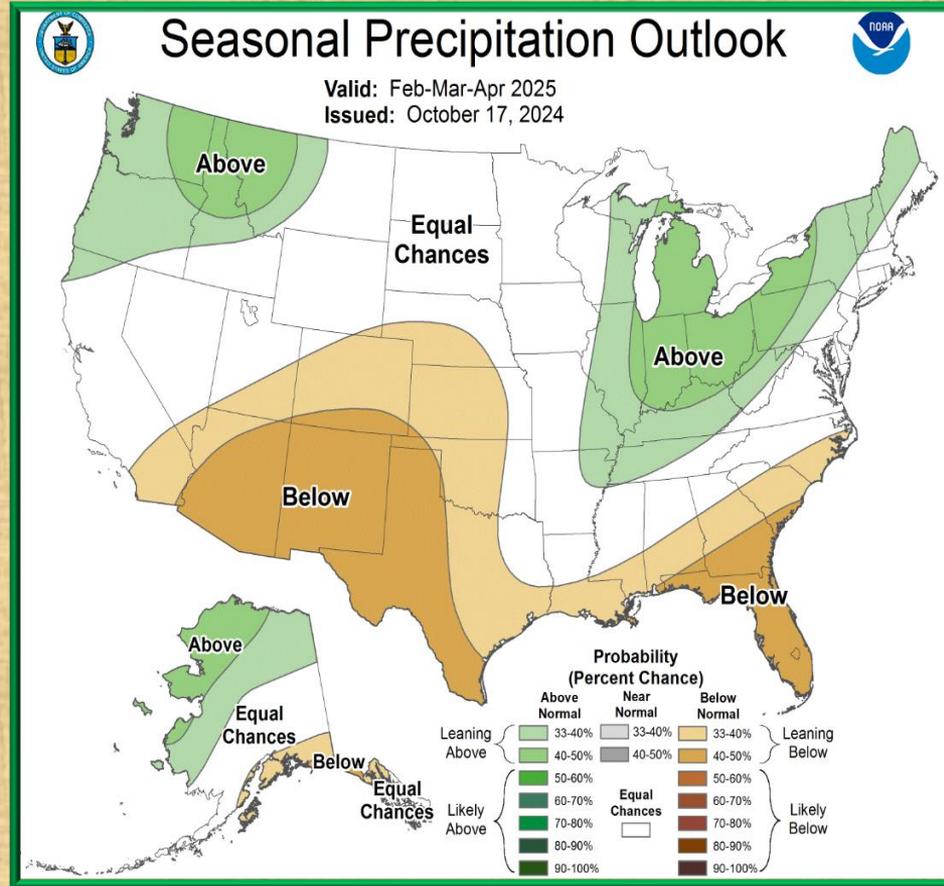
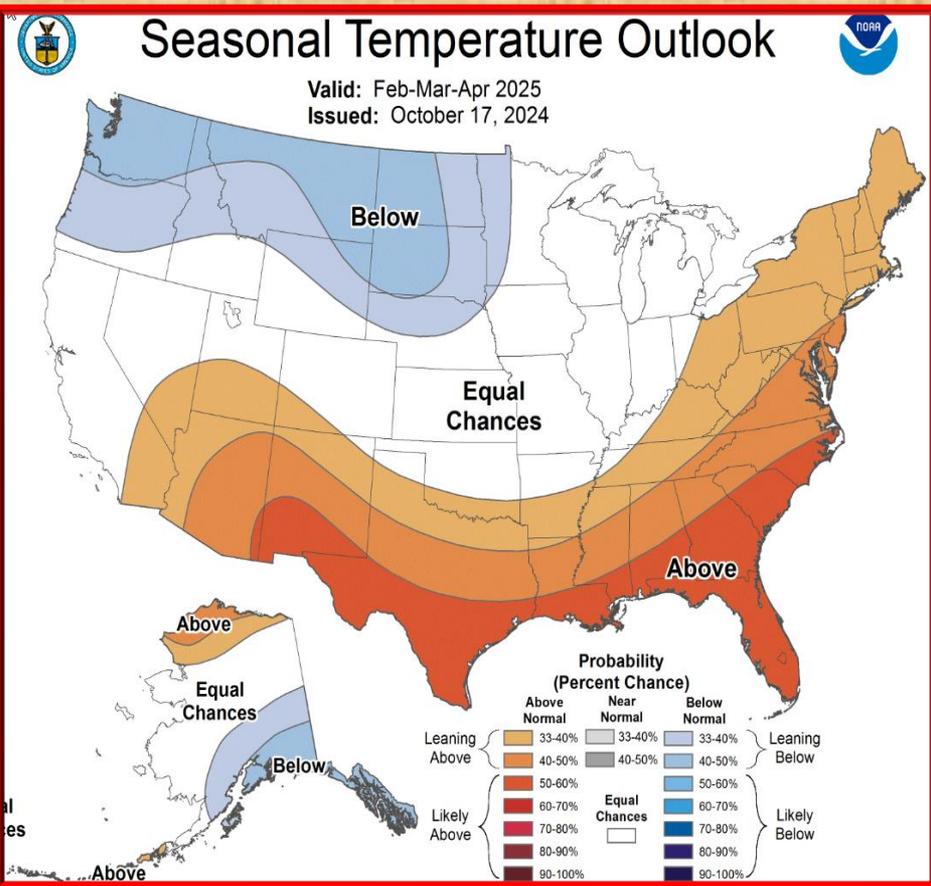
Valid: Nov-Dec-Jan 2024-25
Issued: October 17, 2024



Temperature and precipitation outlook for Feb-Apr 2025

Temperature

Precipitation

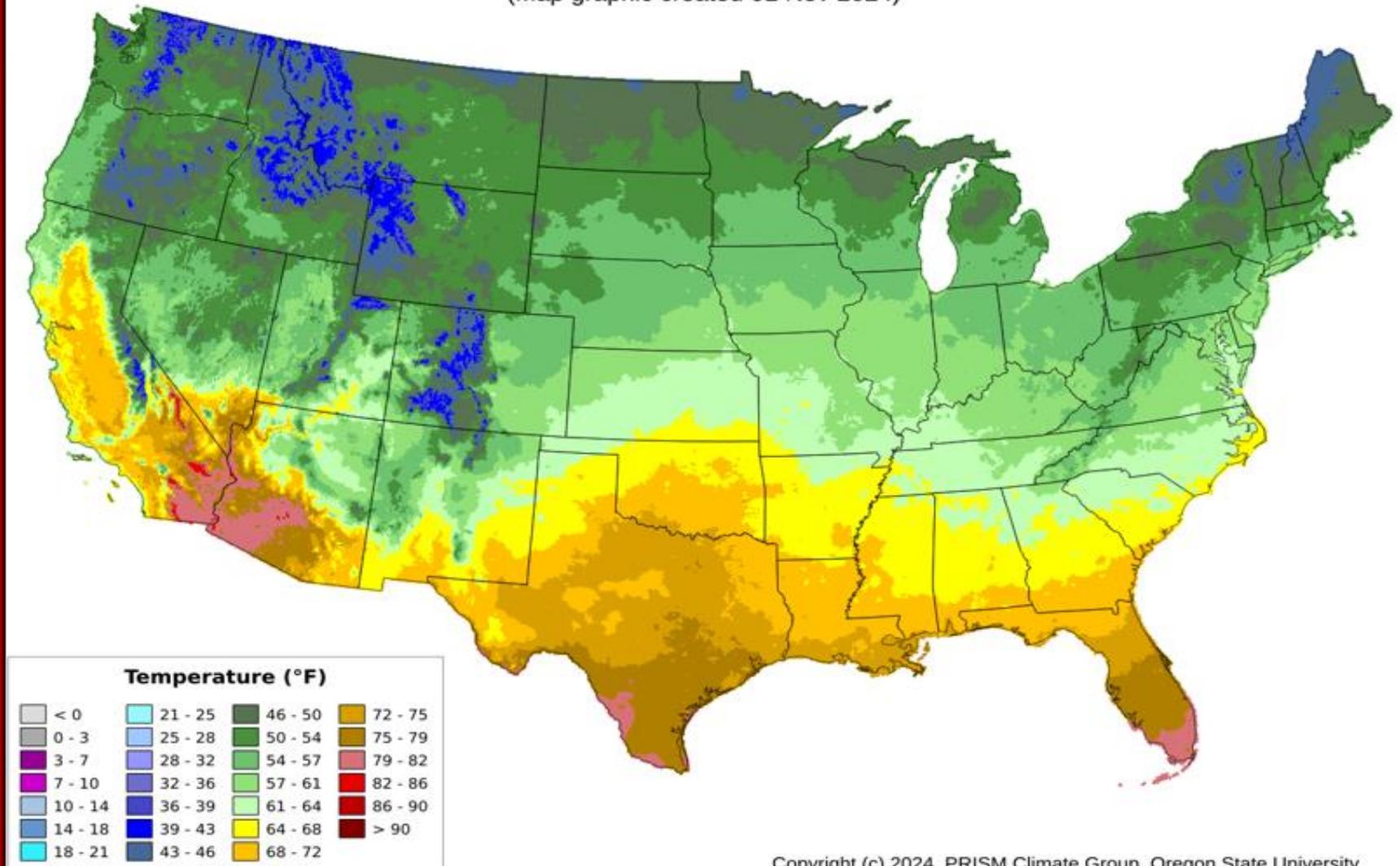


Average Daily Mean Temperature for October 2024

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

Period ending 7 AM EST 31 Oct 2024

(Map graphic created 01 Nov 2024)

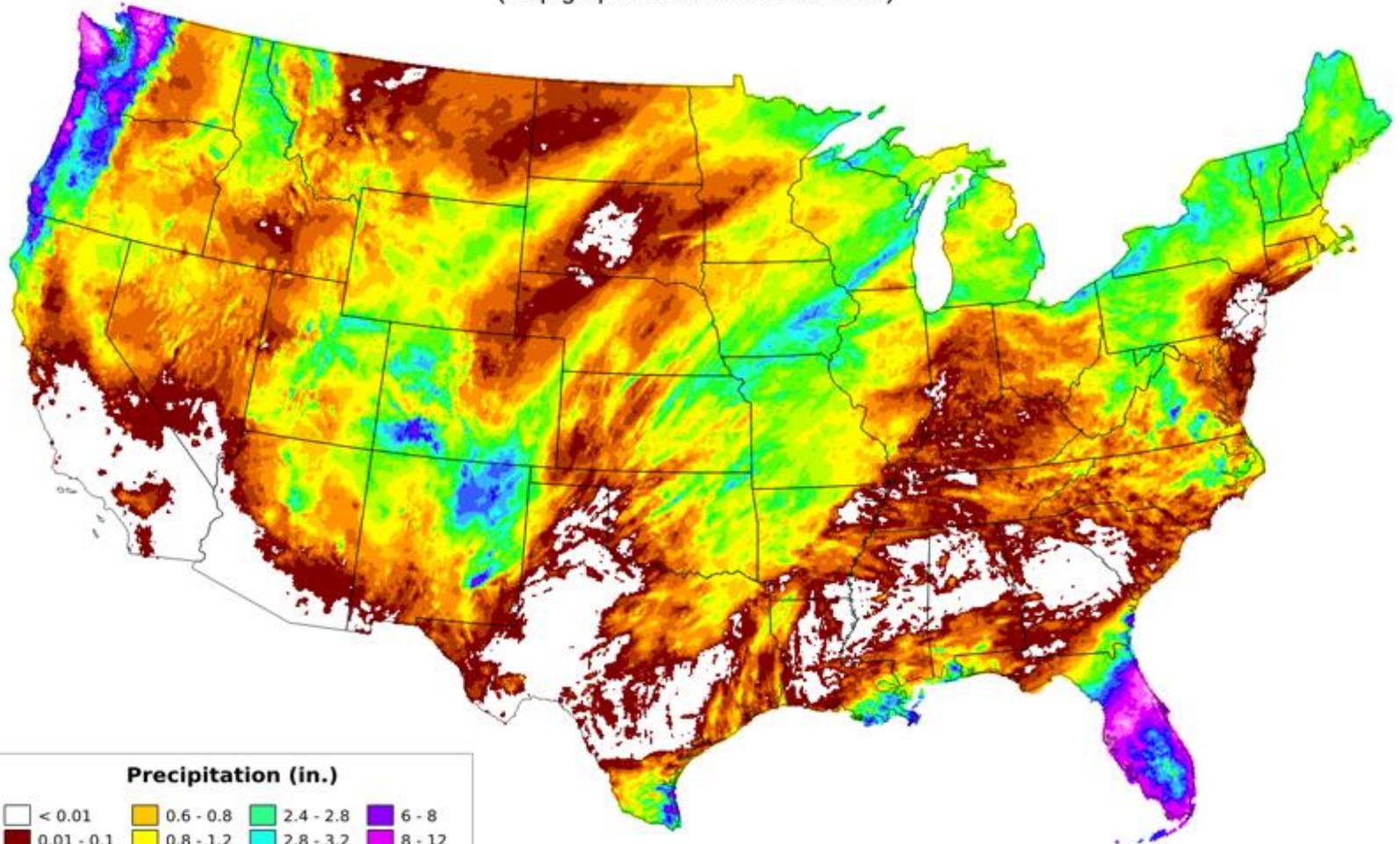


Total Precipitation for October 2024

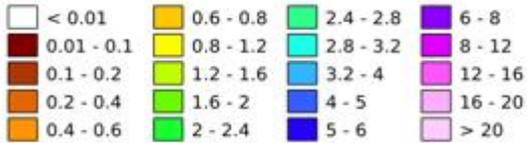
Total Precipitation: 01 Oct 2024 - 31 Oct 2024

Period ending 7 AM EST 31 Oct 2024

(Map graphic created 01 Nov 2024)



Precipitation (in.)



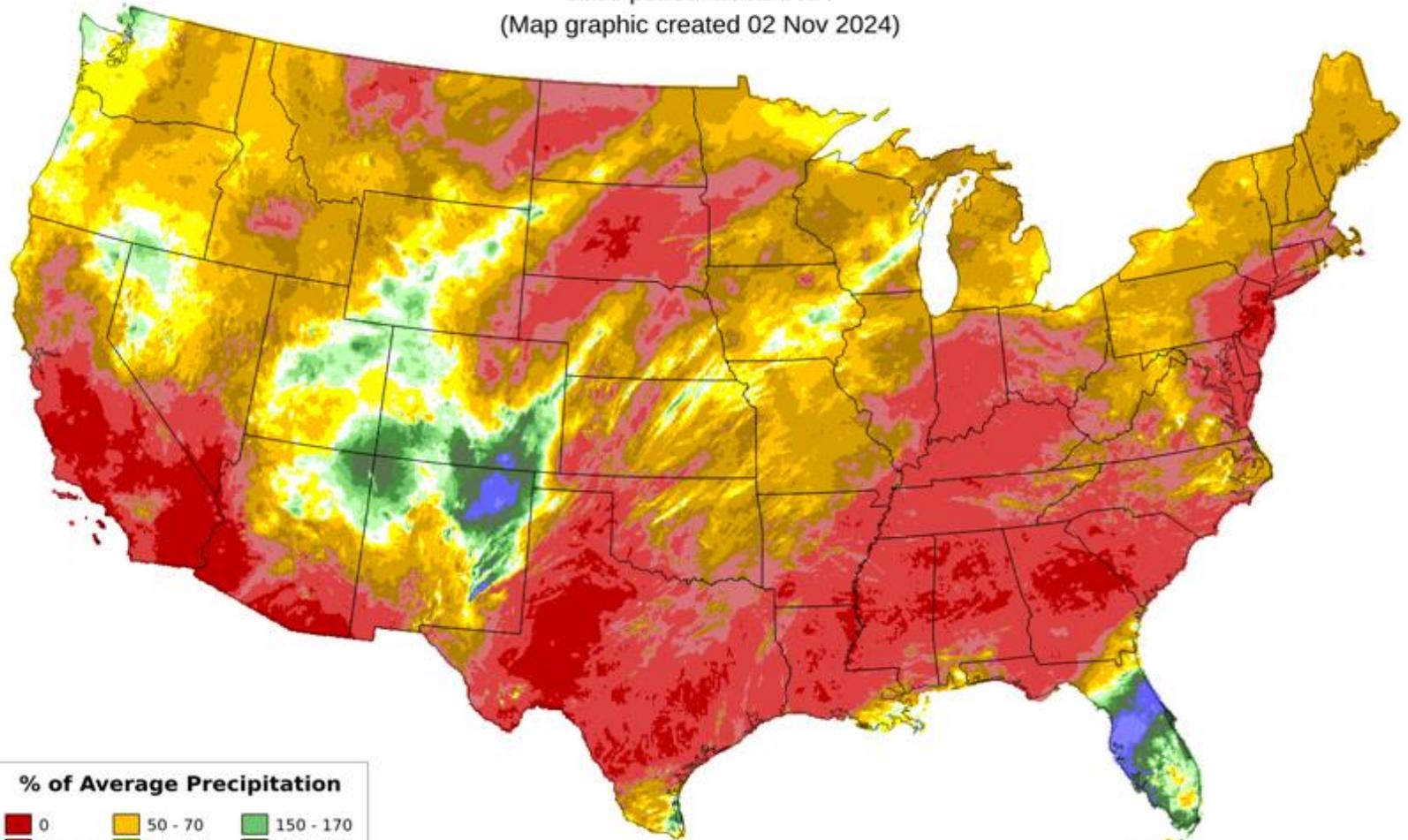
Percent of Normal Precipitation for October 2024

Total Precipitation Anomaly: Oct 2024

Period ending 7 AM EST 31 Oct 2024

Base period: 1991-2020

(Map graphic created 02 Nov 2024)



% of Average Precipitation

0	50 - 70	150 - 170
1 - 10	70 - 90	170 - 200
10 - 20	90 - 110	200 - 300
20 - 30	110 - 130	300 - 400
30 - 50	130 - 150	> 400

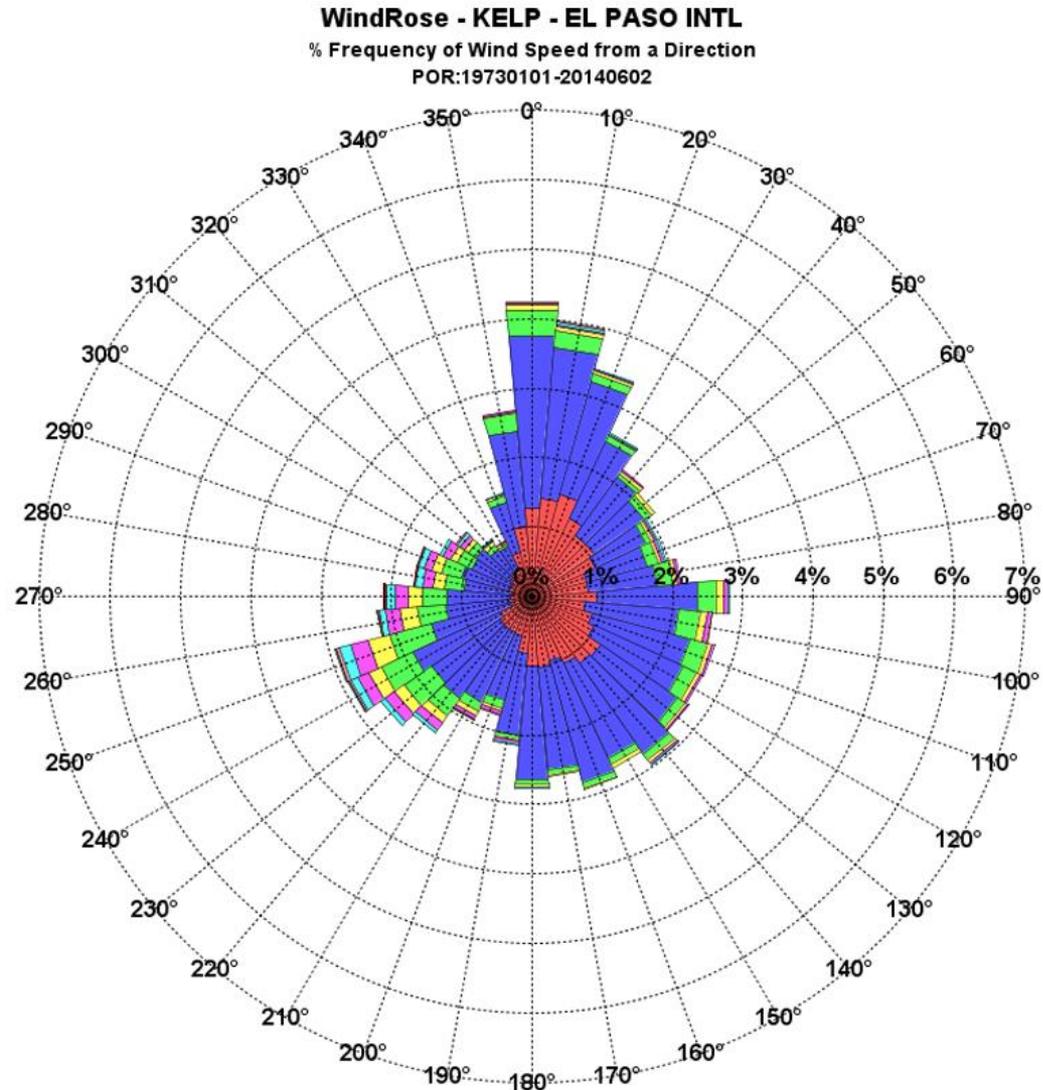
Special Features

www.weather.gov/epz/elpwindrosedata

Month: **OCTOBER**

Calm: 12.23%

Variable: 2.30%



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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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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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

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

Don't Forget-Current and past issues of our Weather Digest are available on our website at 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.