

# November 2021 Weather Digest



# November 2021 Weather Summary

Well a La Niña weather pattern developed during late October into November, with the not surprising result of the month being warmer and drier than normal. Average temperatures for the month ranged from about 2 to 5 degrees above normal. Precipitation for the majority of the area was well below normal. However, thanks to a couple of upper low pressures over the Baja late in the month, areas along the International Border from Hidalgo to El Paso Counties received up to .50 inches of rain which was just under normal values. In a narrower line extending from about Columbus to Radium Springs, about .75 to 1.00 inches of rain fell, which is above normal. Of course with the mostly dry conditions, mountain snowfall was also at a minimum. Monthly snow was limited mainly the highest elevations. Cloudcroft finally received its first snow on the 25th, coming in with 2 inches.

Looking ahead to December, we continue to slowly lose daylight, bottoming out on the 21st, when the Winter Solstice occurs. The month begins with 10 hours, 13 minutes of daylight, and reaches its minimum on the 21st at 10 hours and 4 minutes. Daylight very slowly begins to increase after this, reaching 10 hours 7 minutes on the 31st. The time of sunset actually begins to increase on by the 6th, though time of sunrise is still increasing faster. Average temperatures continue to decrease, but at a much slower rate than the



# November 2021 Weather Summary, cont'd

previous several months. The average high at El Paso on the 1st is 61 degrees, while on the 31st it is 57 degrees. For fans of the Moon, our December Full Moon will occur on the 18th, also known as the Cold Moon. There are no lunar eclipses for the month. There is one Solar Eclipse, occurring on the 4th. Unfortunately, only people living in the far southern Hemisphere will be able to view it.

**November Sunset**



**November Sunset**



**November Sunset**

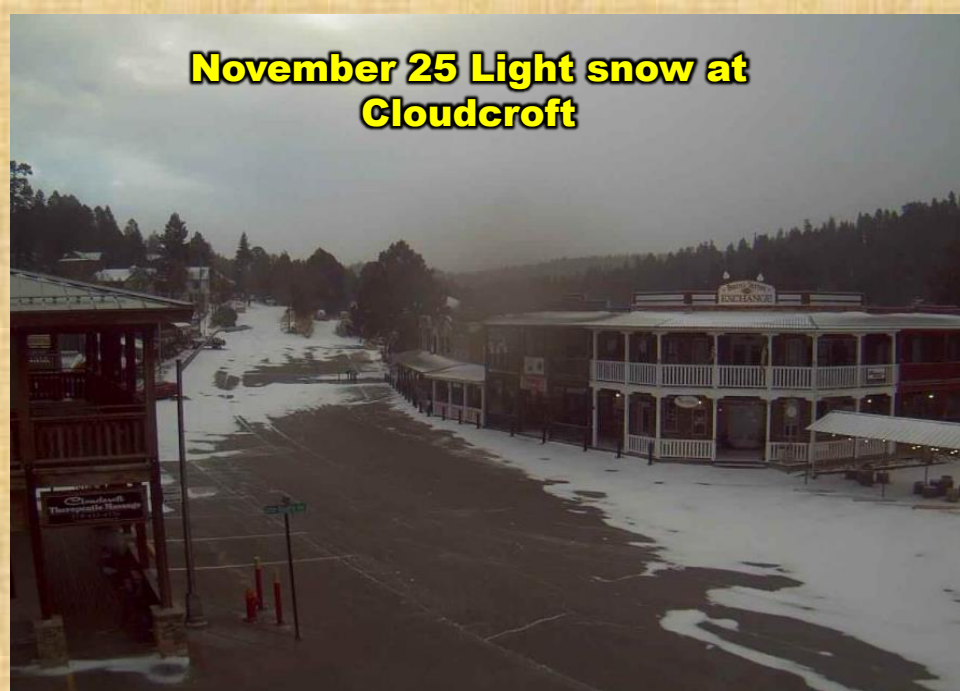


**November Sunset**

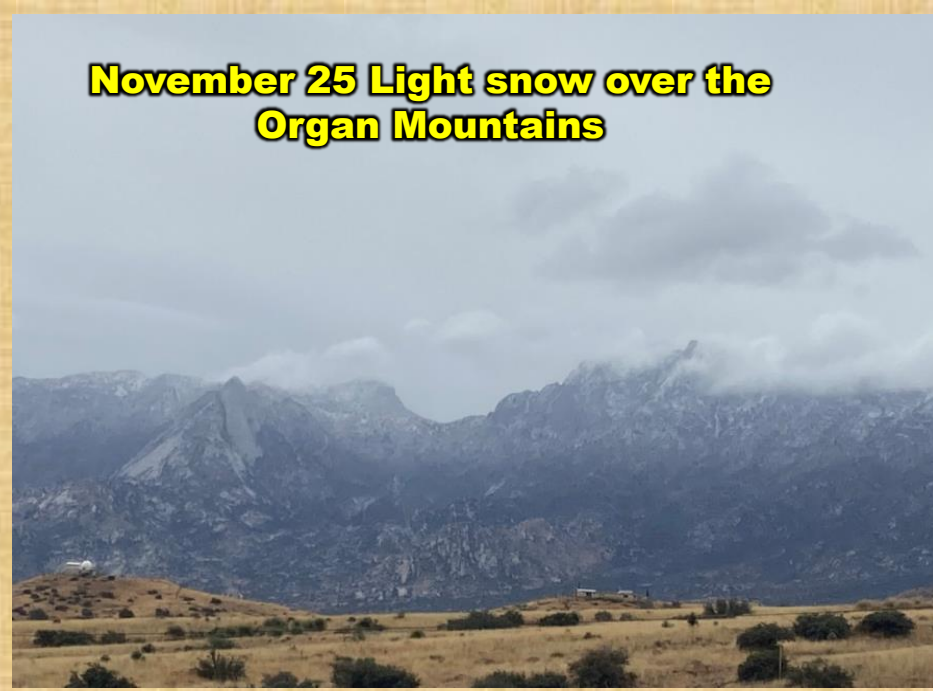




**November 25 Light snow at  
Cloudcroft**



**November 25 Light snow over the  
Organ Mountains**



# **ENSO Alert System Status: La Niña Advisory in Affect**

## **ENSO Alert System**

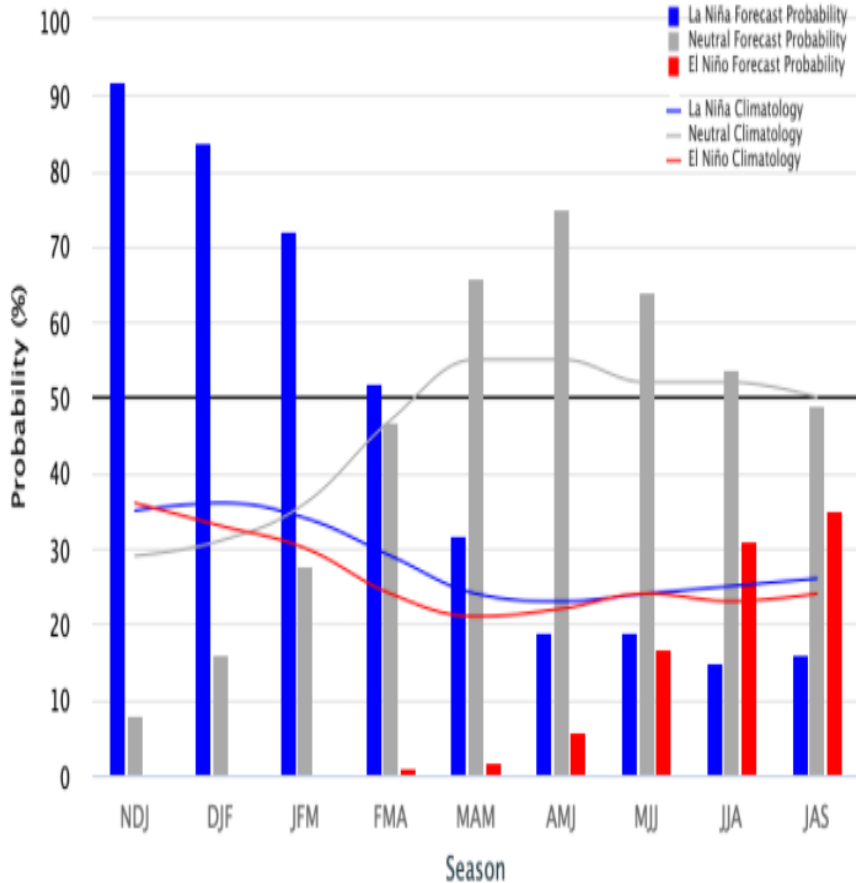
- **El Niño or La Niña Watch:** Issued when conditions are favorable for the development of El Niño or La Niña conditions in the next six months.
- **El Niño or La Niña Advisory:** Issued when El Niño or La Niña conditions are observed and expected to continue.

# ENSO Forecast

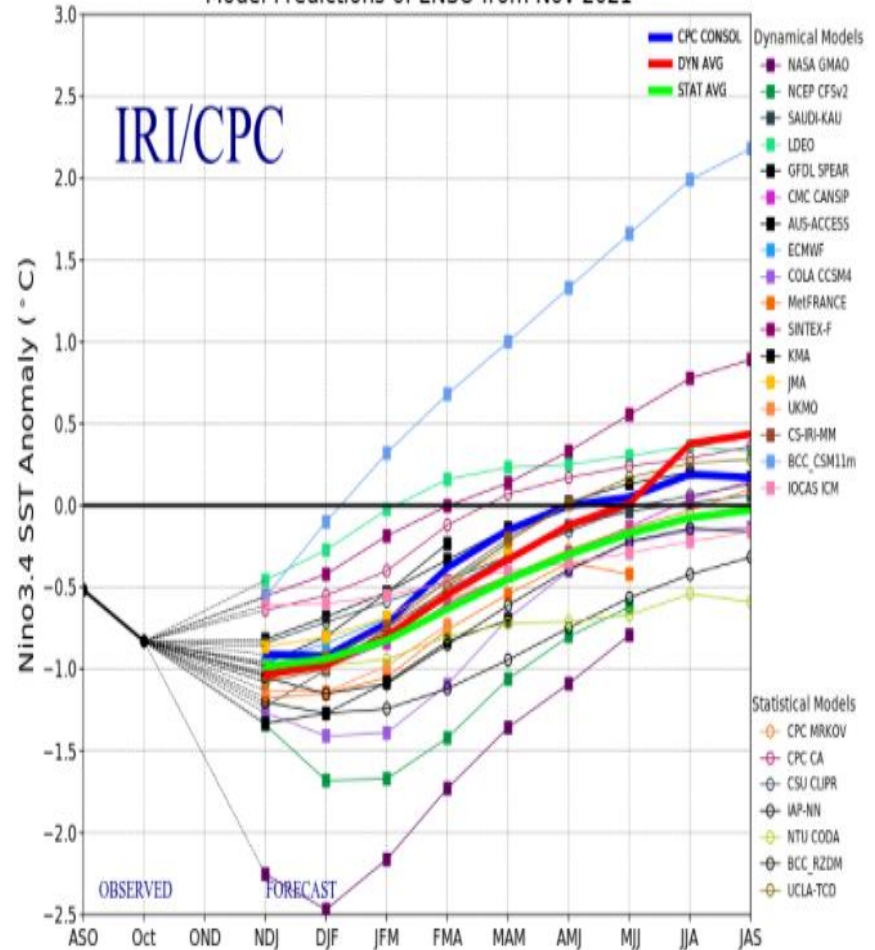
**ENSO is in a neutral status but will soon progress to La Niña conditions, where it is expected to stay for much of the winter ahead.**

Mid-November 2021 IRI/CPC Model-Based Probabilistic ENSO Forecasts

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

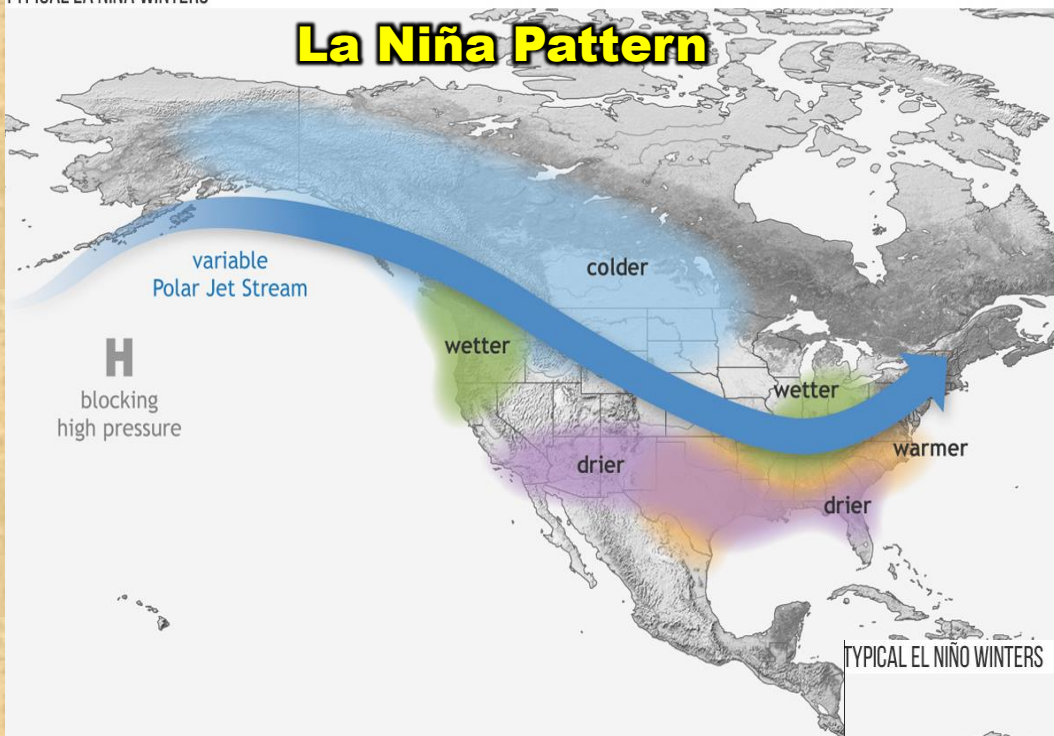


Model Predictions of ENSO from Nov 2021



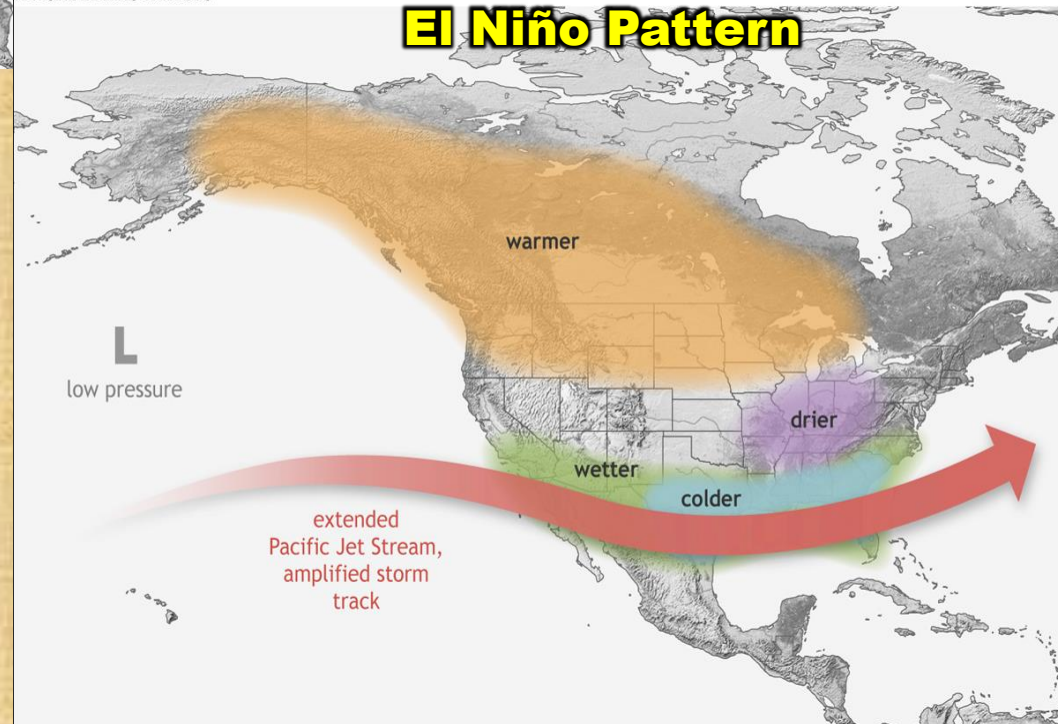


# La Niña Pattern



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.

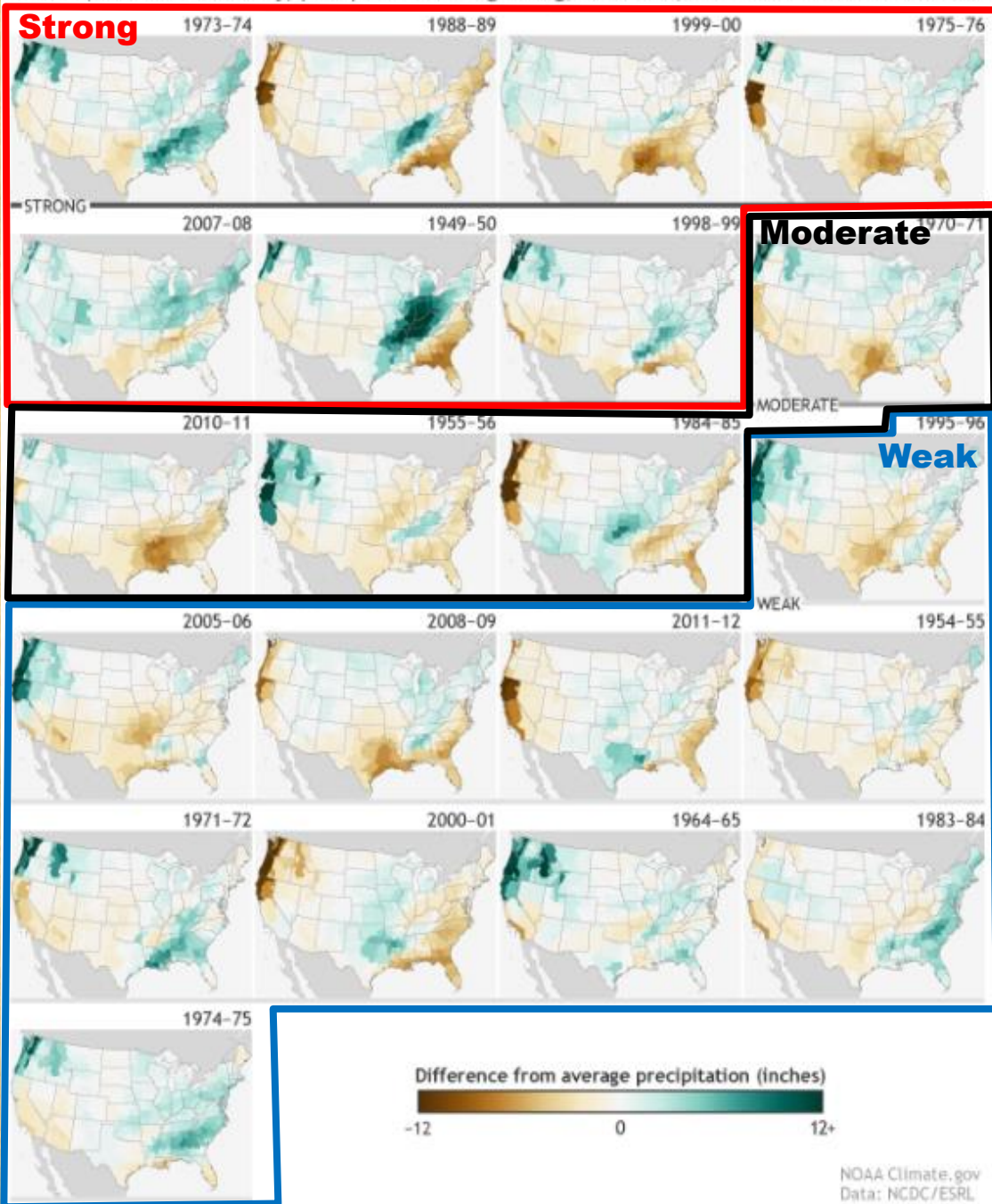
# El Niño Pattern



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.



Winter (December-February) precipitation during strong, moderate, and weak La Niñas since 1950



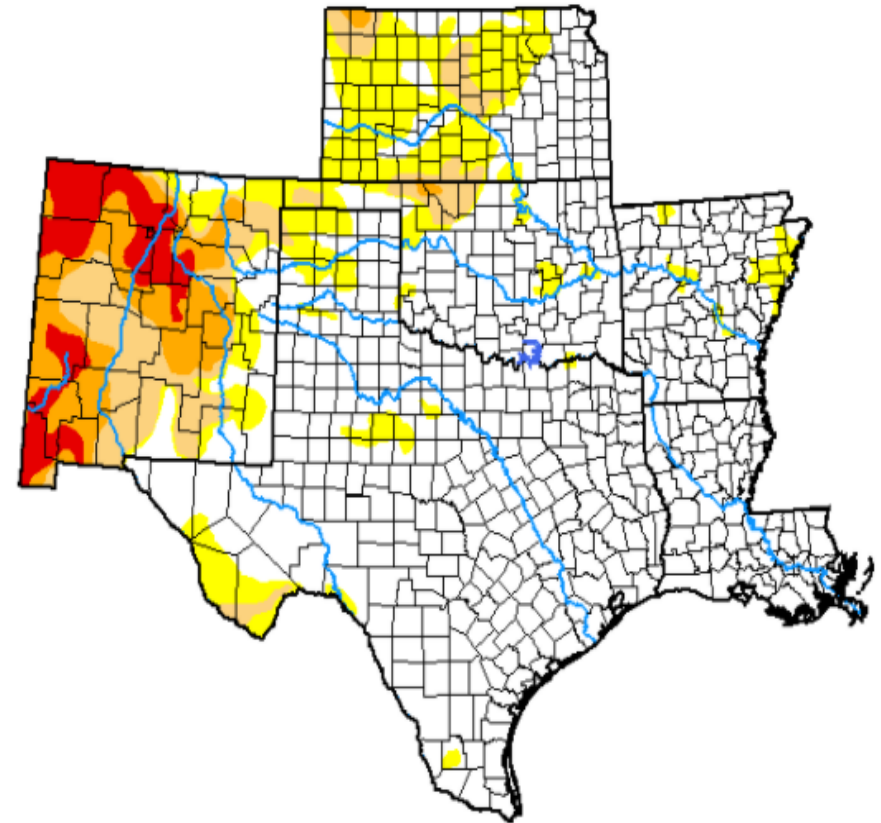
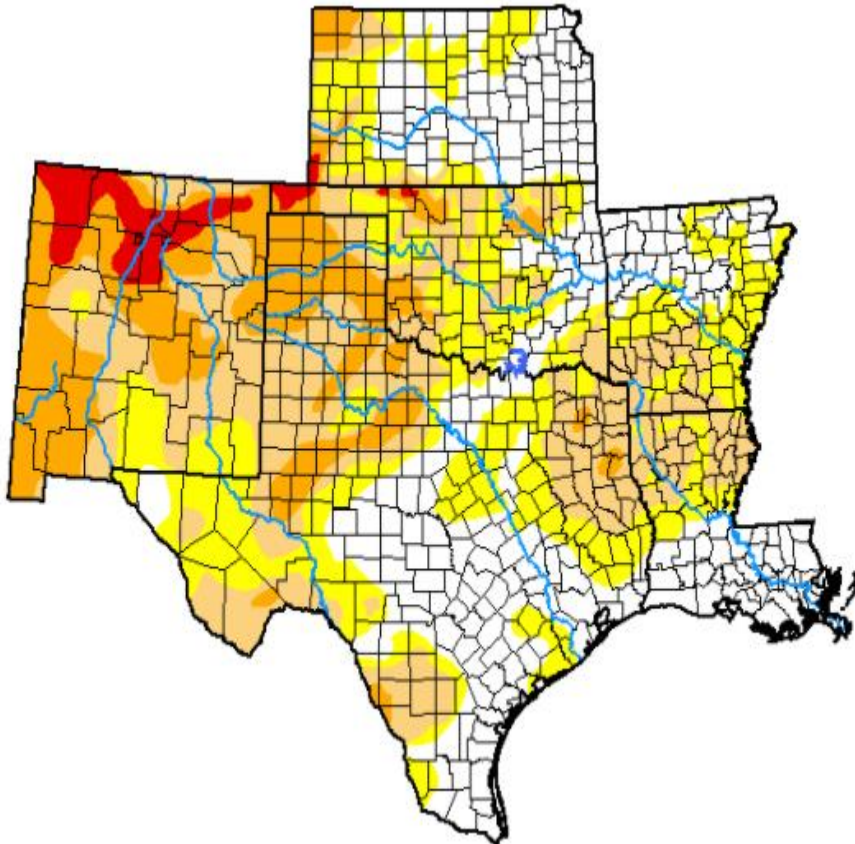
Examples of the numerous La Niña winters since 1950. These maps depict the departure from normal precipitation amounts for a winter.

# Current drought conditions and 3 month change

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

**November 23, 2021**

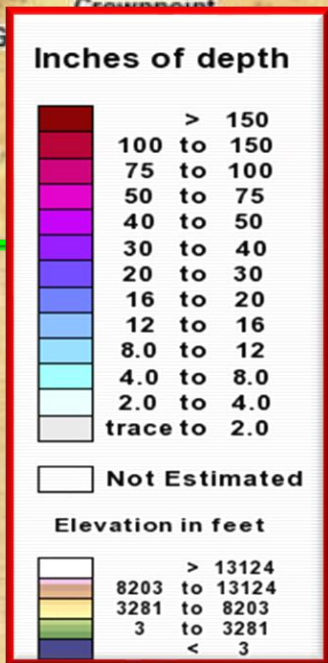
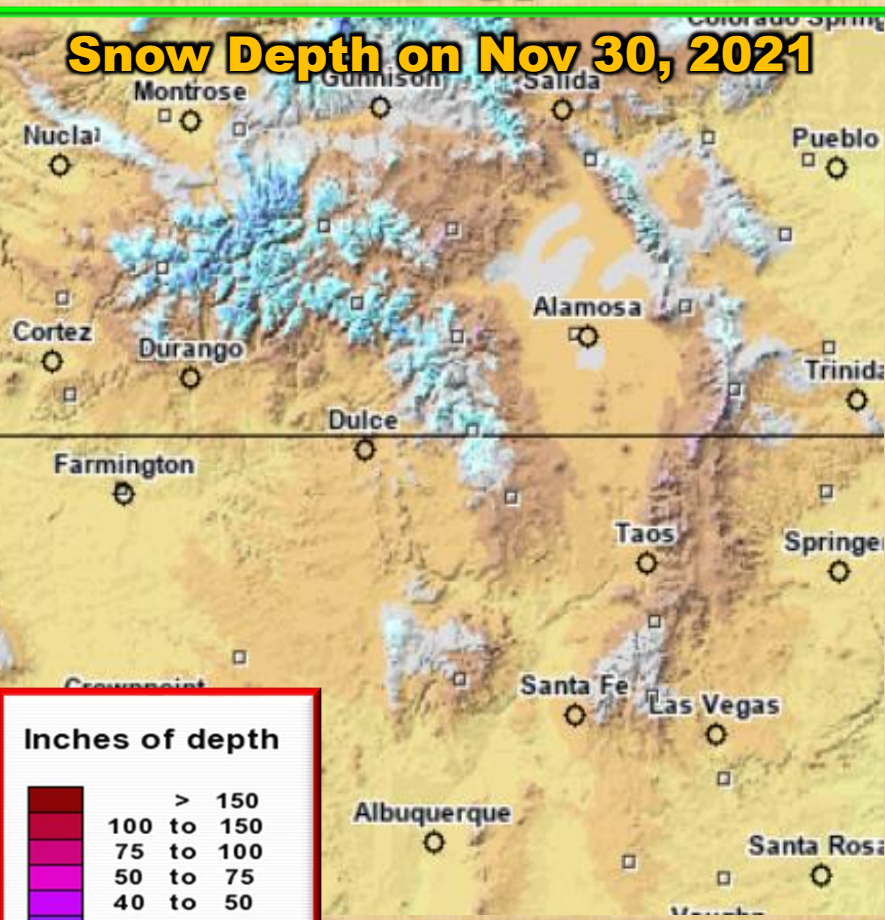
**August 31, 2021**



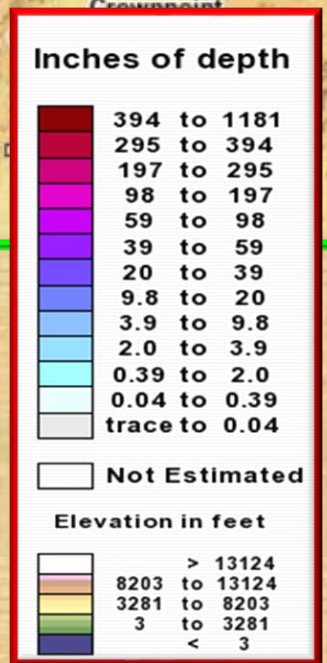
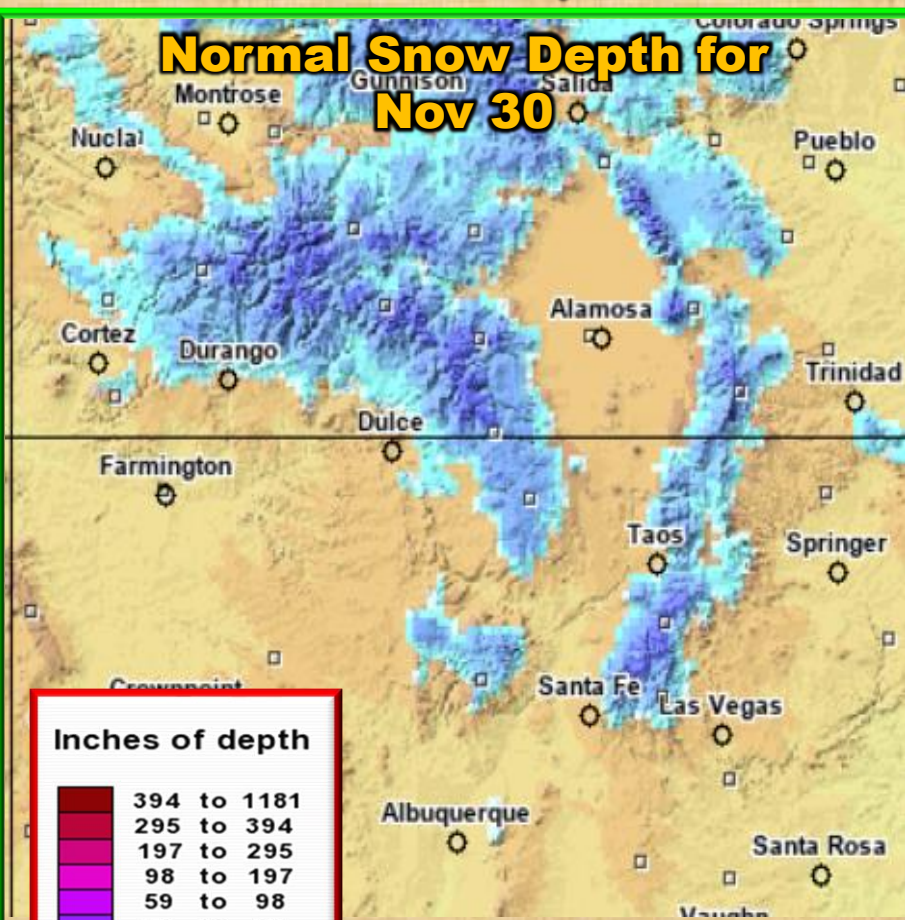


# Snow Data Upper Rio Grand Basin as of Nov 30, 2021

## Snow Depth on Nov 30, 2021



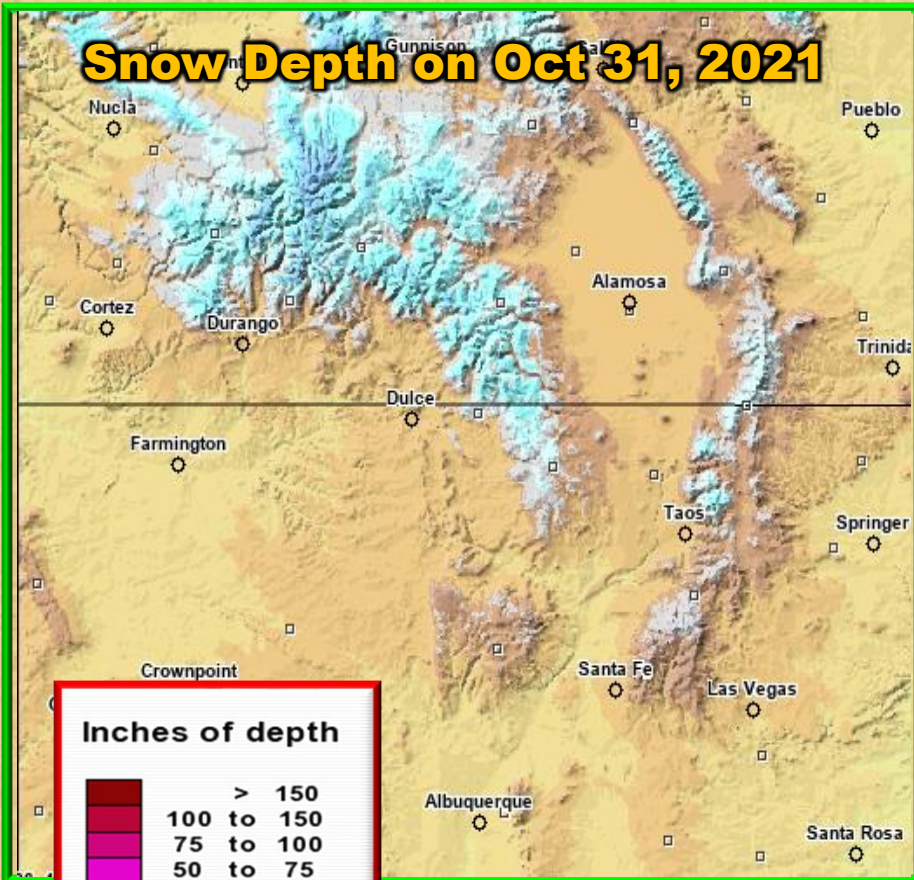
## Normal Snow Depth for Nov 30



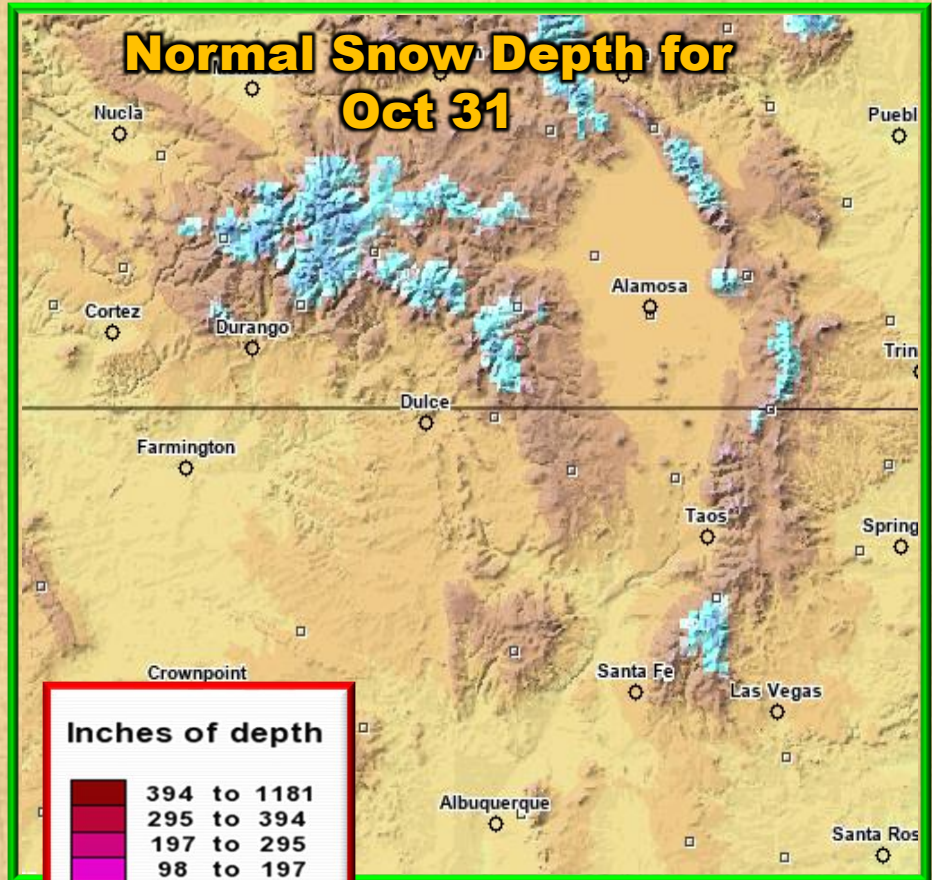


# Snow Data Upper Rio Grand Basin as of Oct 31, 2021

## Snow Depth on Oct 31, 2021



## Normal Snow Depth for Oct 31



**Inches of depth**

Dark Red	> 150
Red	100 to 150
Dark Purple	75 to 100
Purple	50 to 75
Light Purple	40 to 50
Blue-Gray	30 to 40
Blue	20 to 30
Light Blue	16 to 20
Very Light Blue	12 to 16
Cyan	8.0 to 12
Light Cyan	4.0 to 8.0
White	2.0 to 4.0
Light Gray	trace to 2.0

Not Estimated

**Elevation in feet**

White	> 13124
Light Yellow	8203 to 13124
Yellow	3281 to 8203
Green	3 to 3281
Dark Green	< 3

**Inches of depth**

Dark Red	394 to 1181
Red	295 to 394
Dark Purple	197 to 295
Purple	98 to 197
Light Purple	59 to 98
Blue-Gray	39 to 59
Blue	20 to 39
Light Blue	9.8 to 20
Very Light Blue	3.9 to 9.8
Cyan	2.0 to 3.9
Light Cyan	0.39 to 2.0
White	0.04 to 0.39
Light Gray	trace to 0.04

Not Estimated

**Elevation in feet**

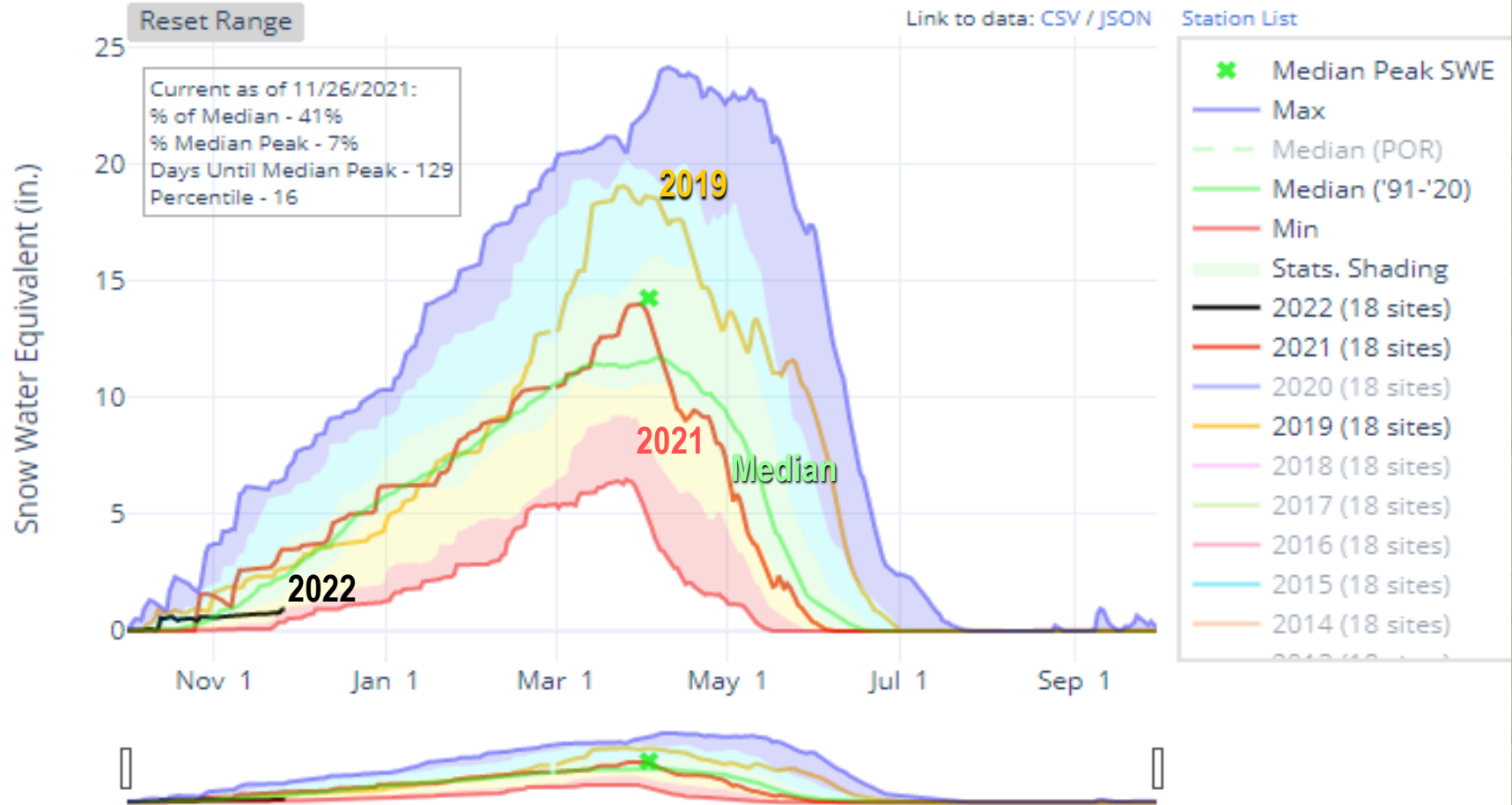
White	> 13124
Light Yellow	8203 to 13124
Yellow	3281 to 8203
Green	3 to 3281
Dark Green	< 3



# Snow Water Equivalent as of Nov 30, 2021

## Compare to last few years and average values

### SNOW WATER EQUIVALENT IN UPPER RIO GRANDE

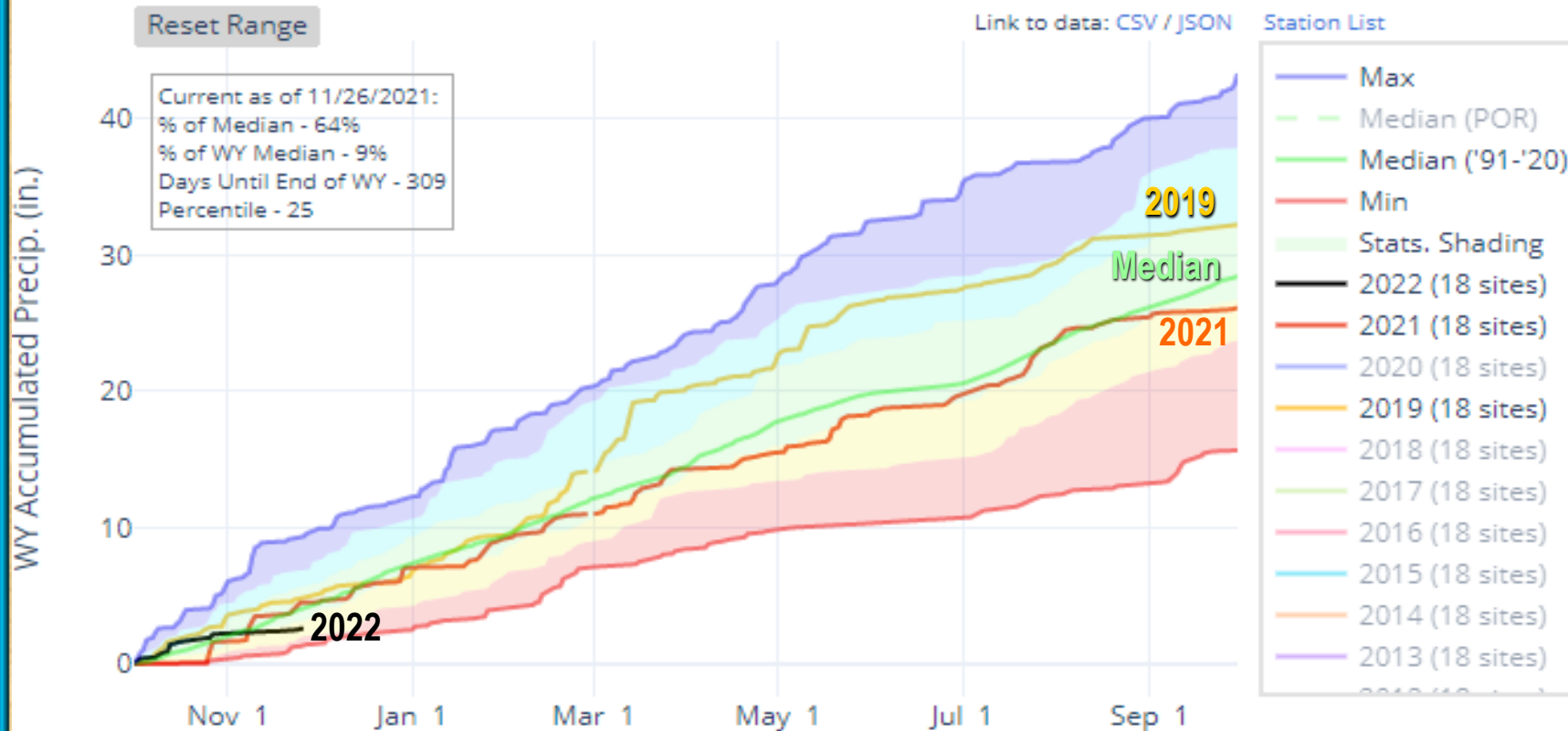


Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles.  
 For more information visit: [30-Year Hydroclimatic Normals](#)

# Precipitation for the Water Year Oct 1 – April 30, 2022

## Compare to last few years and average values

### PRECIPITATION IN UPPER RIO GRANDE

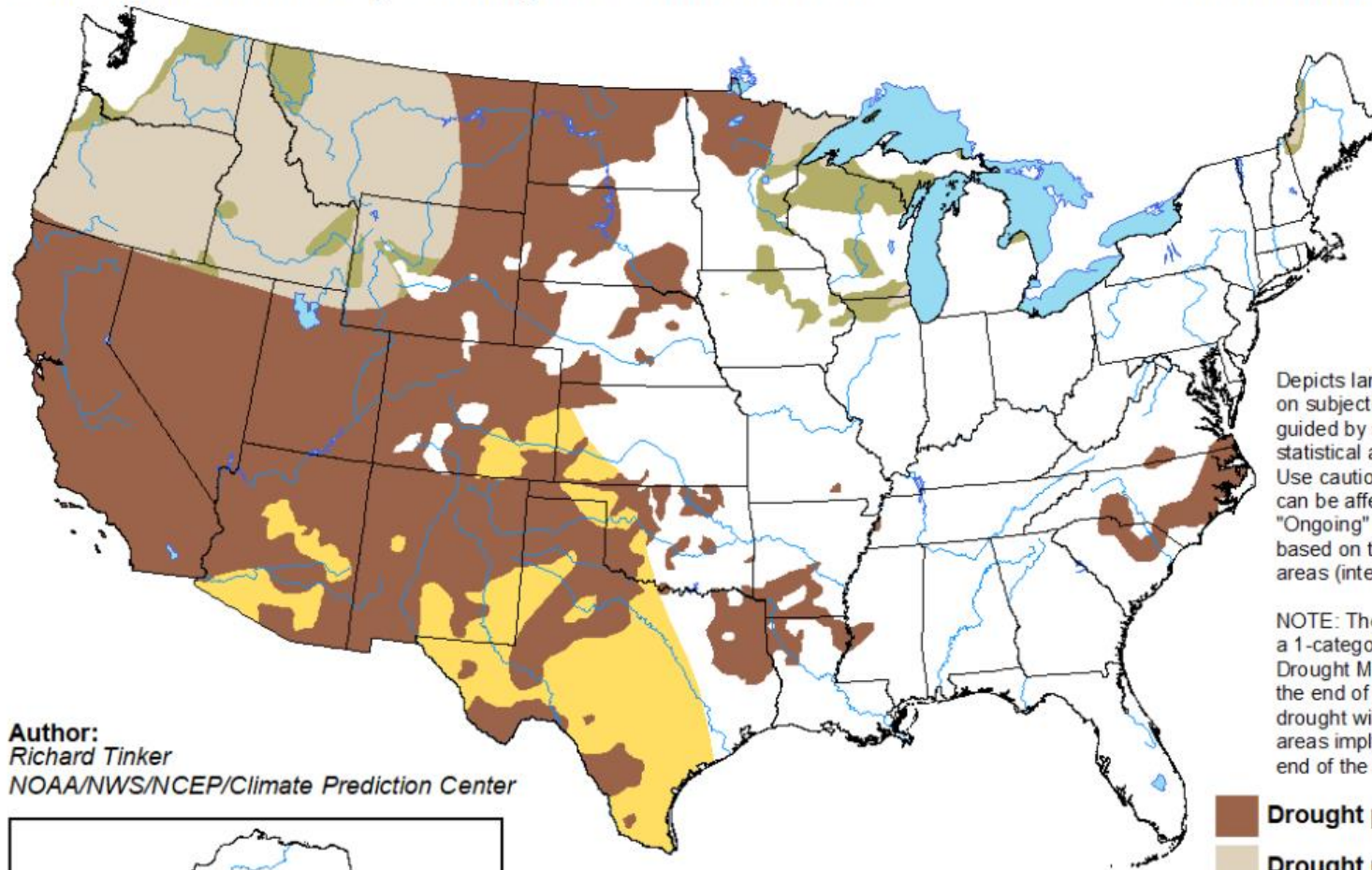


Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles.  
 For more information visit: [30-Year Hydroclimatic Normals](#)



# U.S. Seasonal Drought Outlook

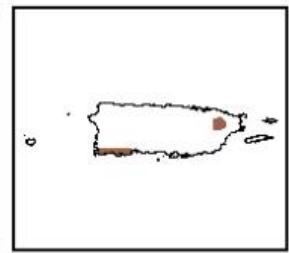
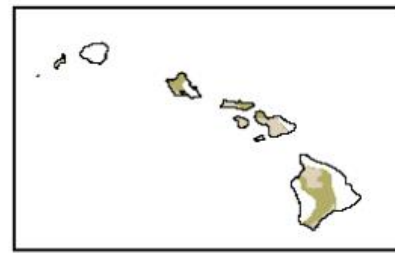
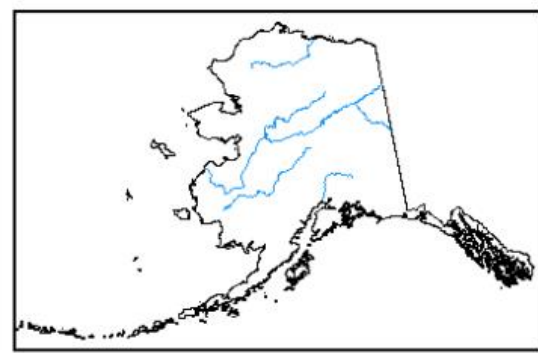
Valid for November 18, 2021 - February 28, 2022  
Drought Tendency During the Valid Period  
Released November 18, 2021





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:**  
Richard Tinker  
NOAA/NWS/NCEP/Climate Prediction Center



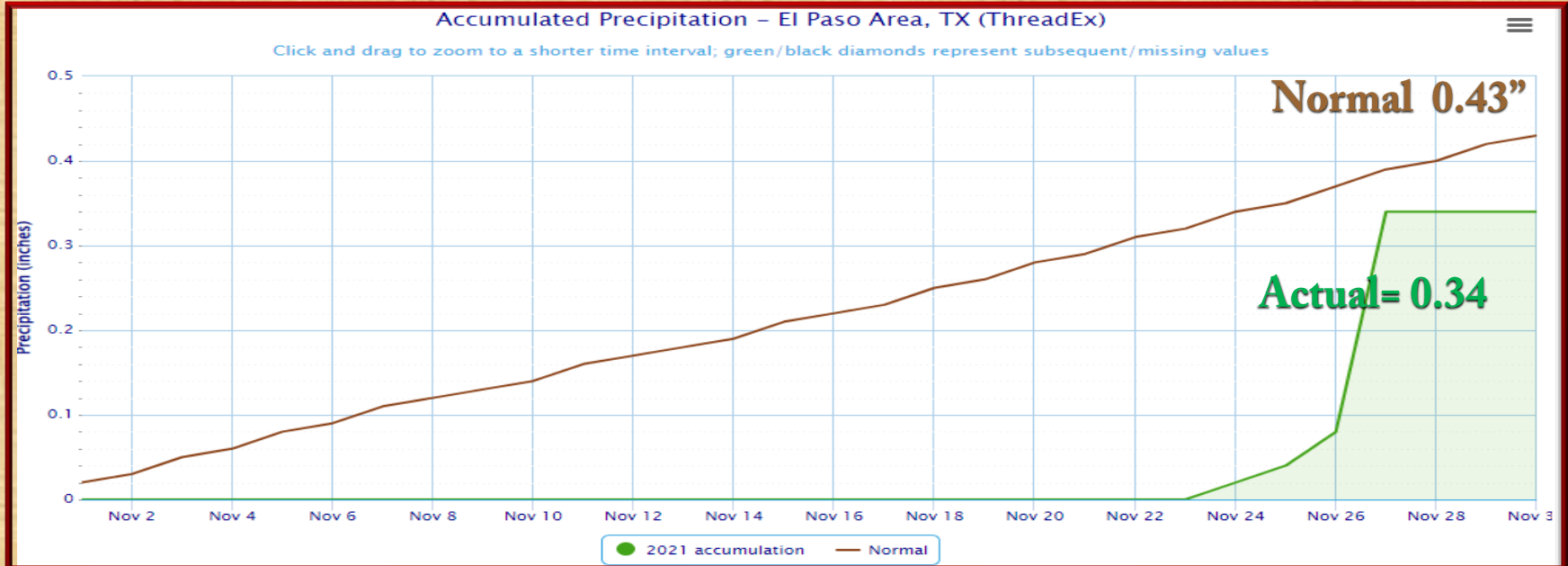
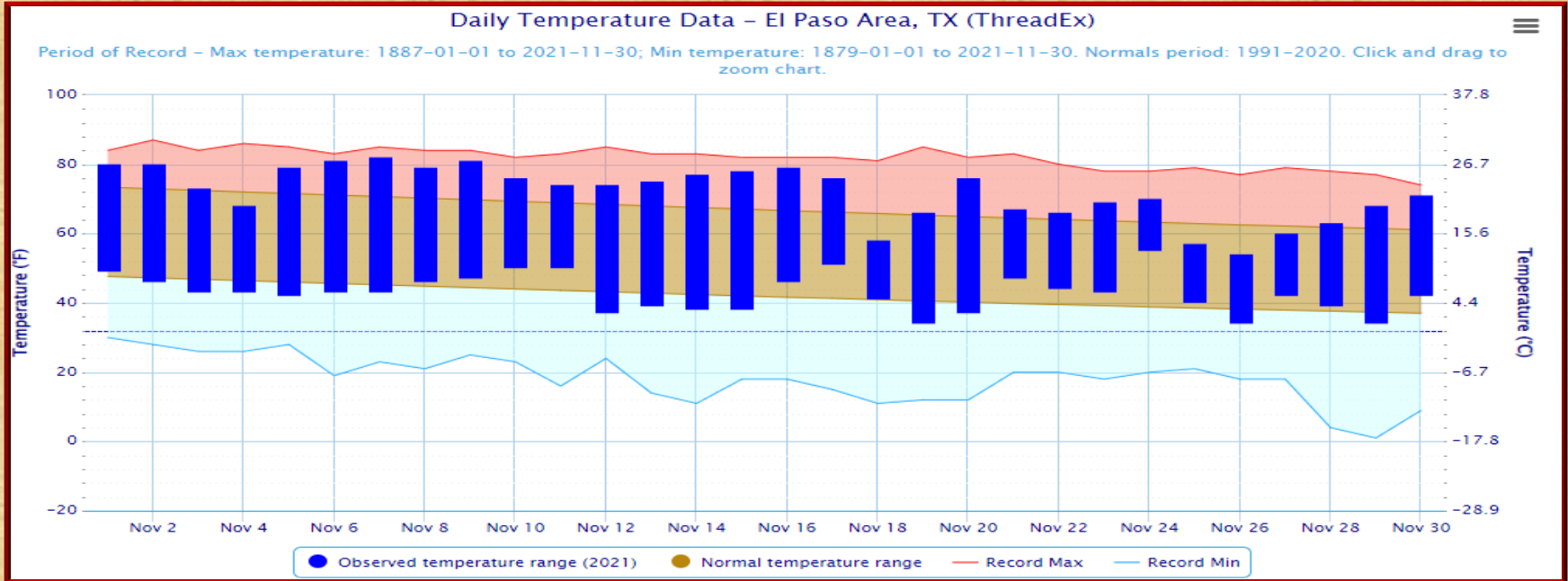
-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



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

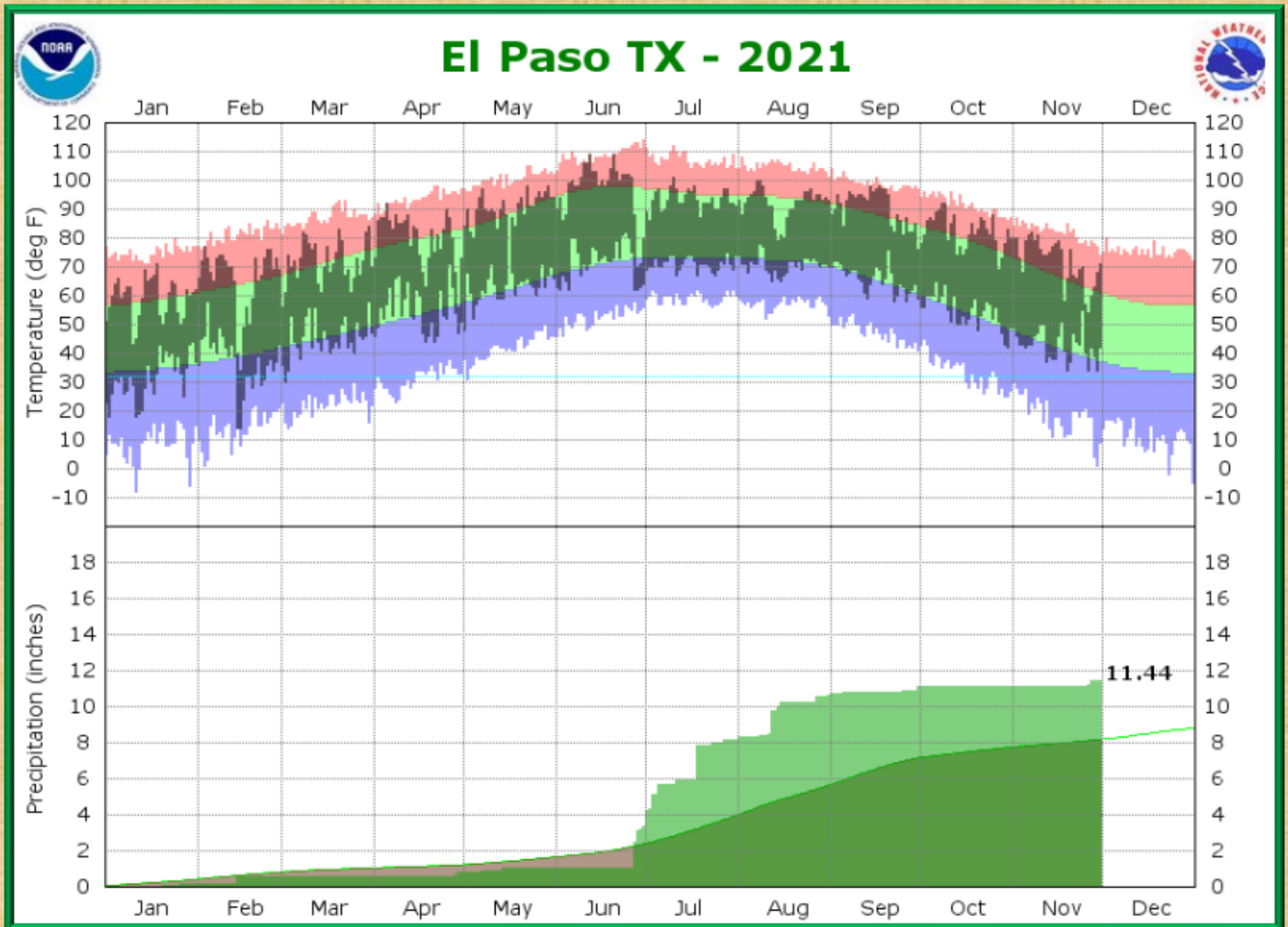
# Temperature and precipitation data for November 2021 in El Paso

○ = record





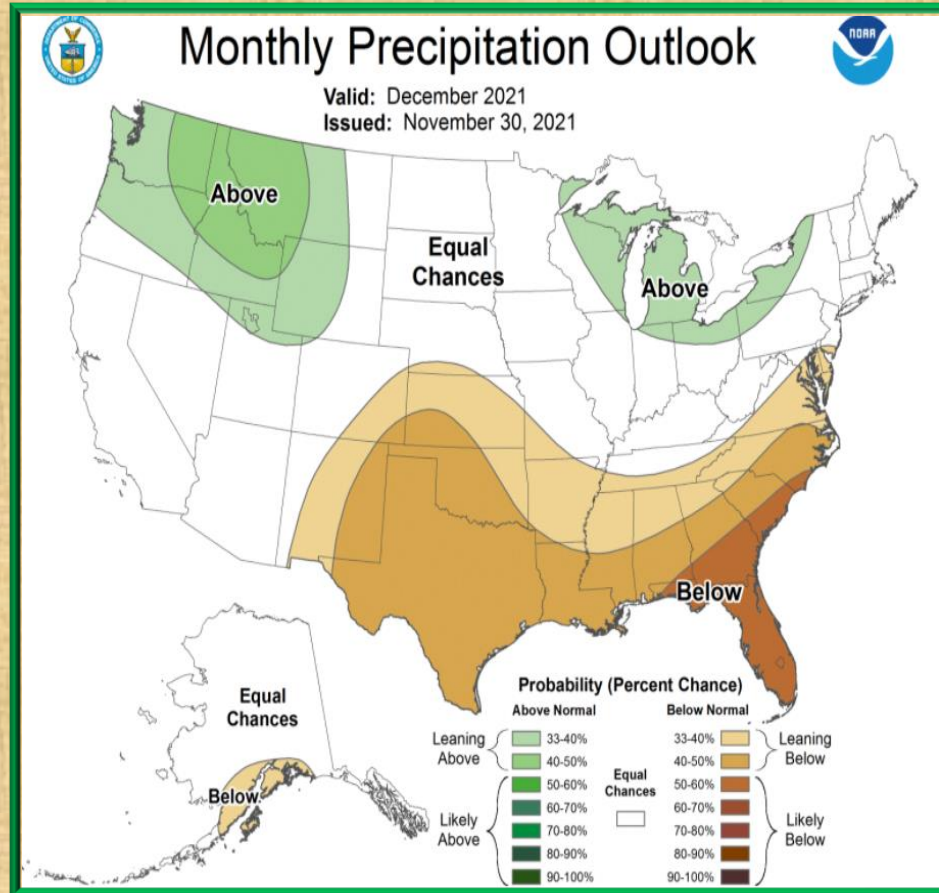
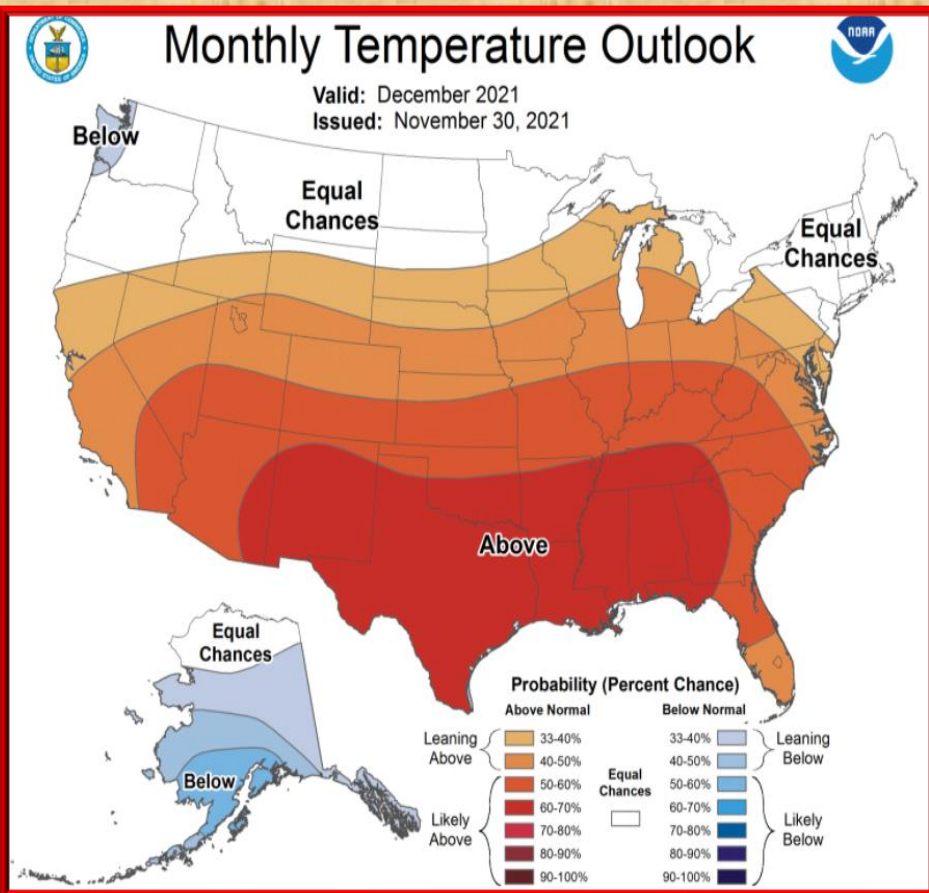
# 2021: Temperature and Precipitation YTD Data for El Paso



# Temperature and precipitation outlook for December 2021

## Temperature

## Precipitation





# Temperature and precipitation outlook For December-February

## Temperature

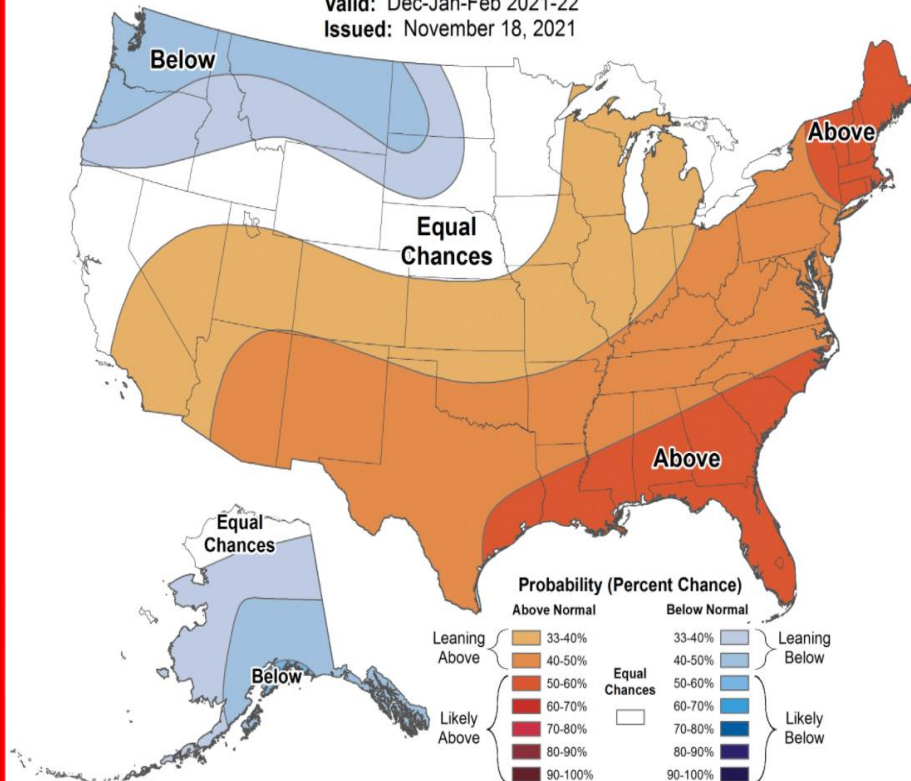
## Precipitation



### Seasonal Temperature Outlook



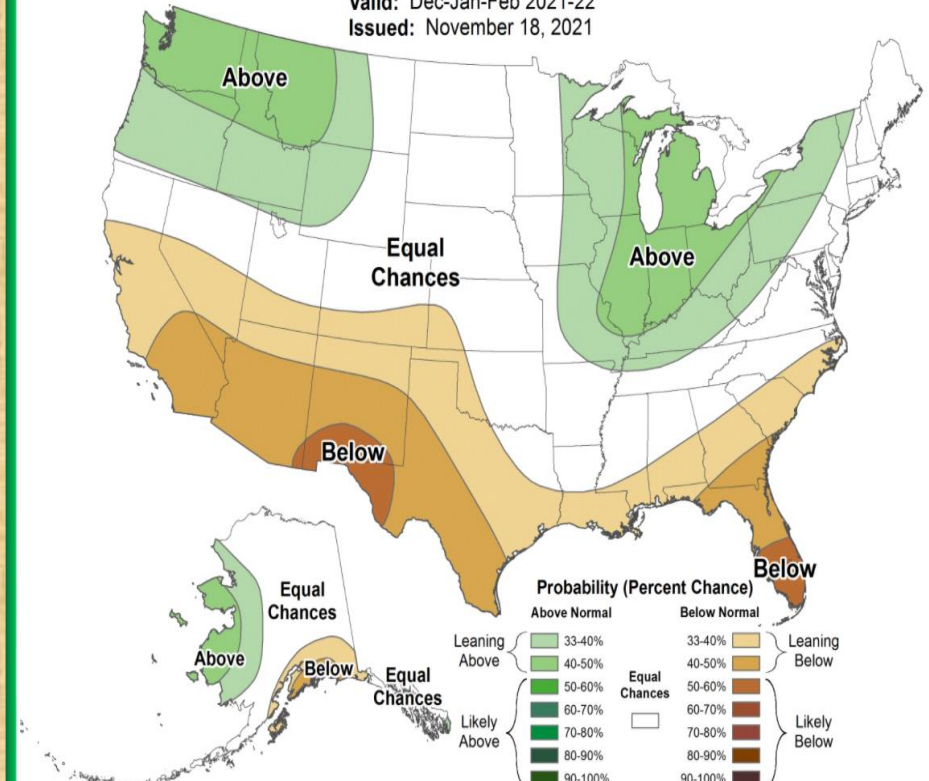
Valid: Dec-Jan-Feb 2021-22  
Issued: November 18, 2021



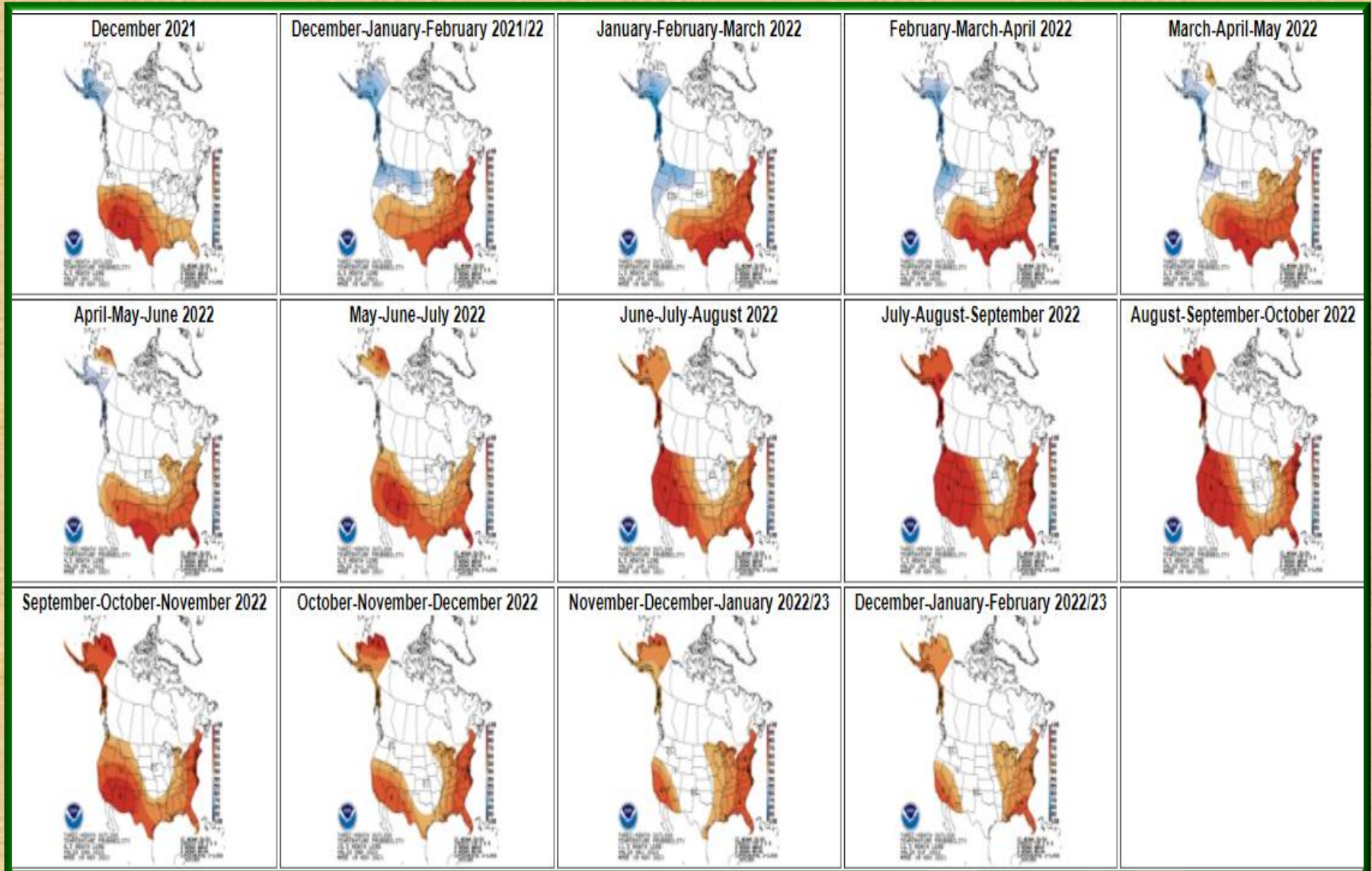
### Seasonal Precipitation Outlook



Valid: Dec-Jan-Feb 2021-22  
Issued: November 18, 2021

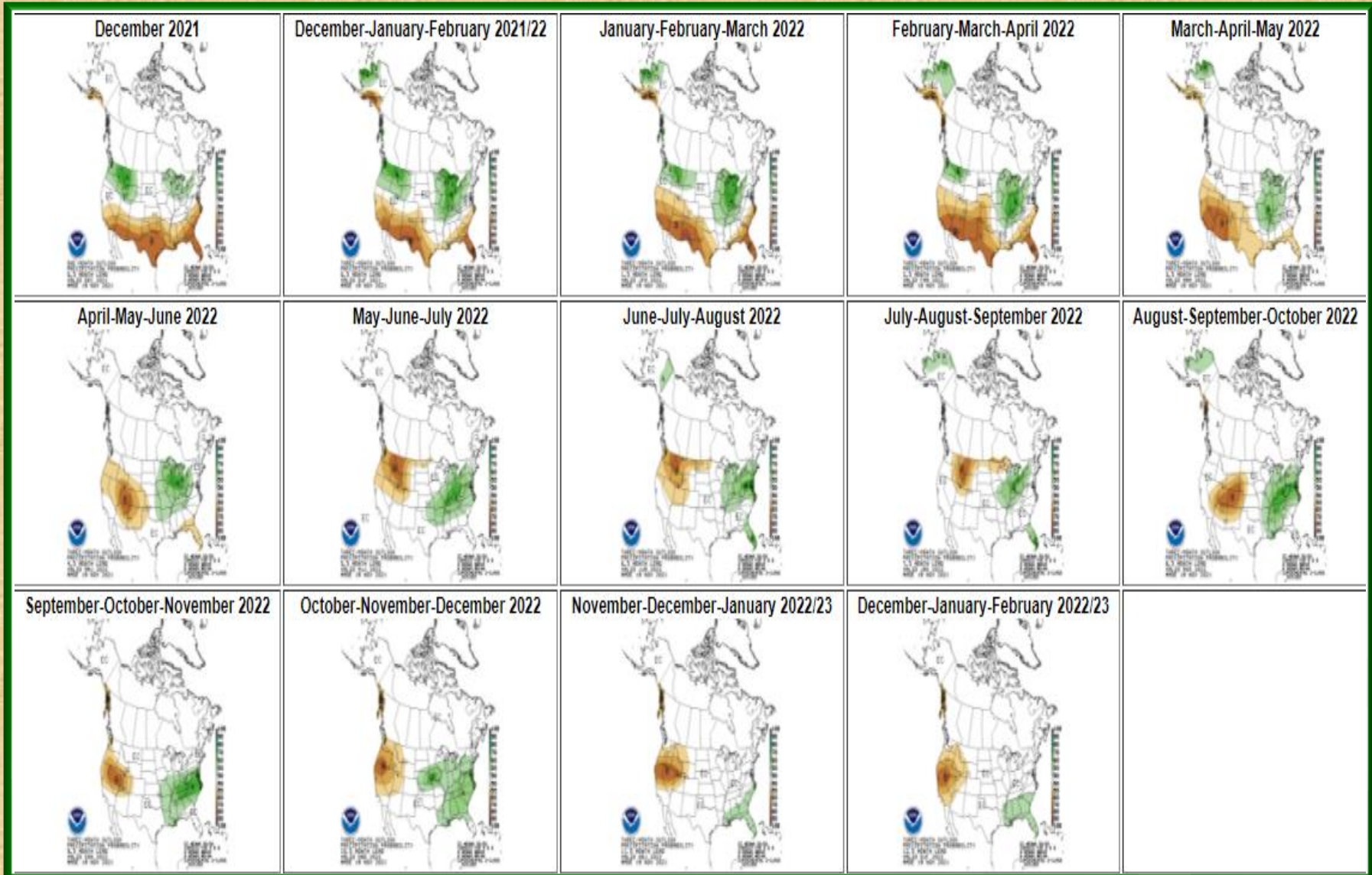


# Temperature Outlook Through February 2023





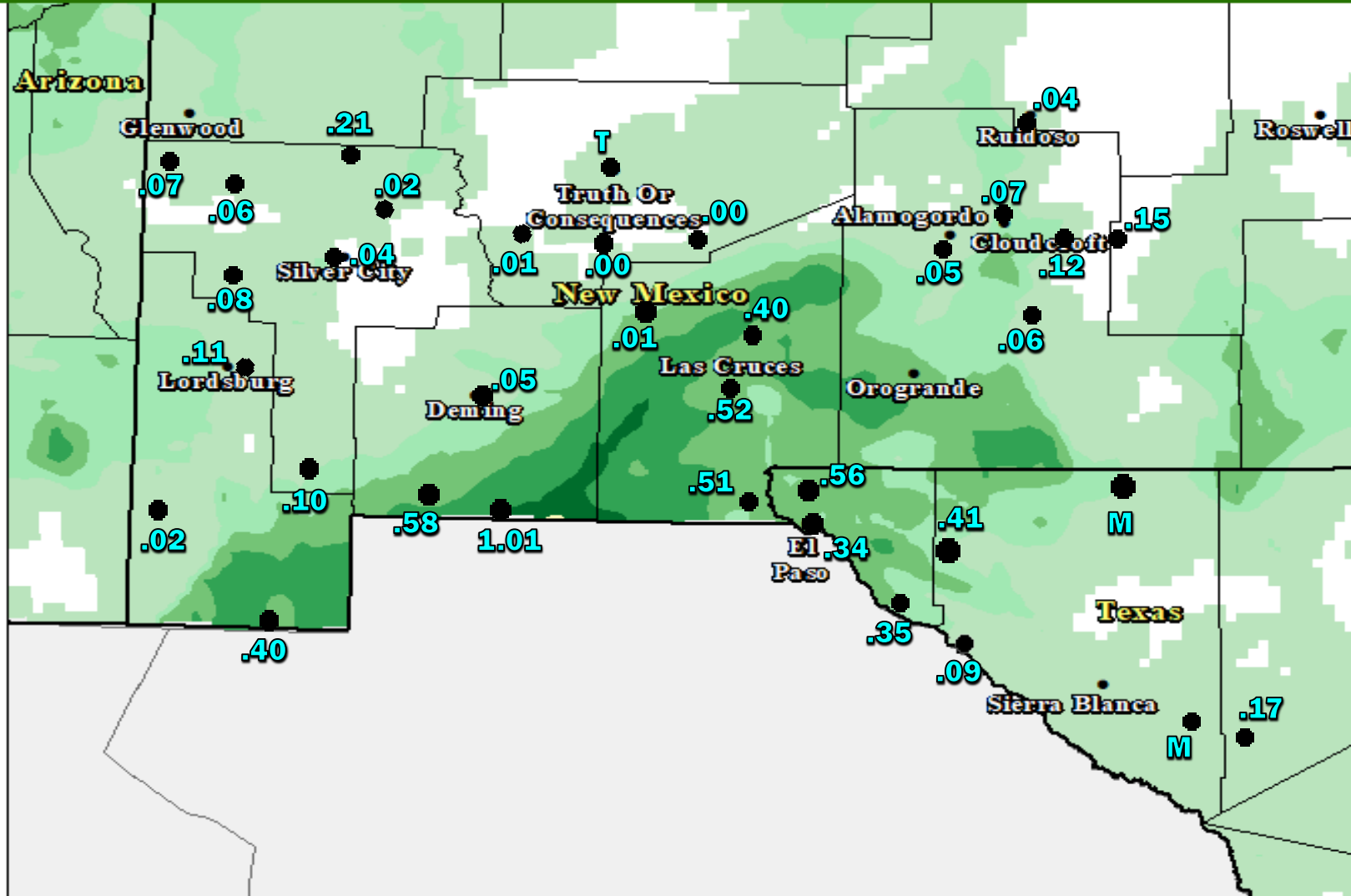
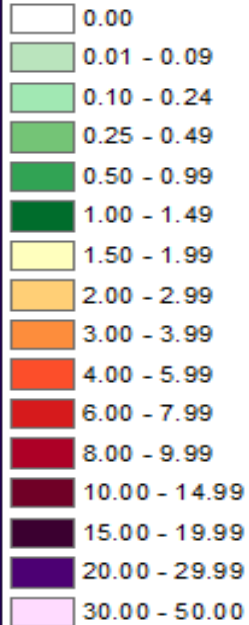
# Precipitation Outlook Through February 2023



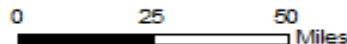
# November 2021 radar rainfall estimate with surface rainfall reports

## Total Monthly Precipitation - November 2021

Inches



Created by the  
NWS Forecast Office  
El Paso, TX

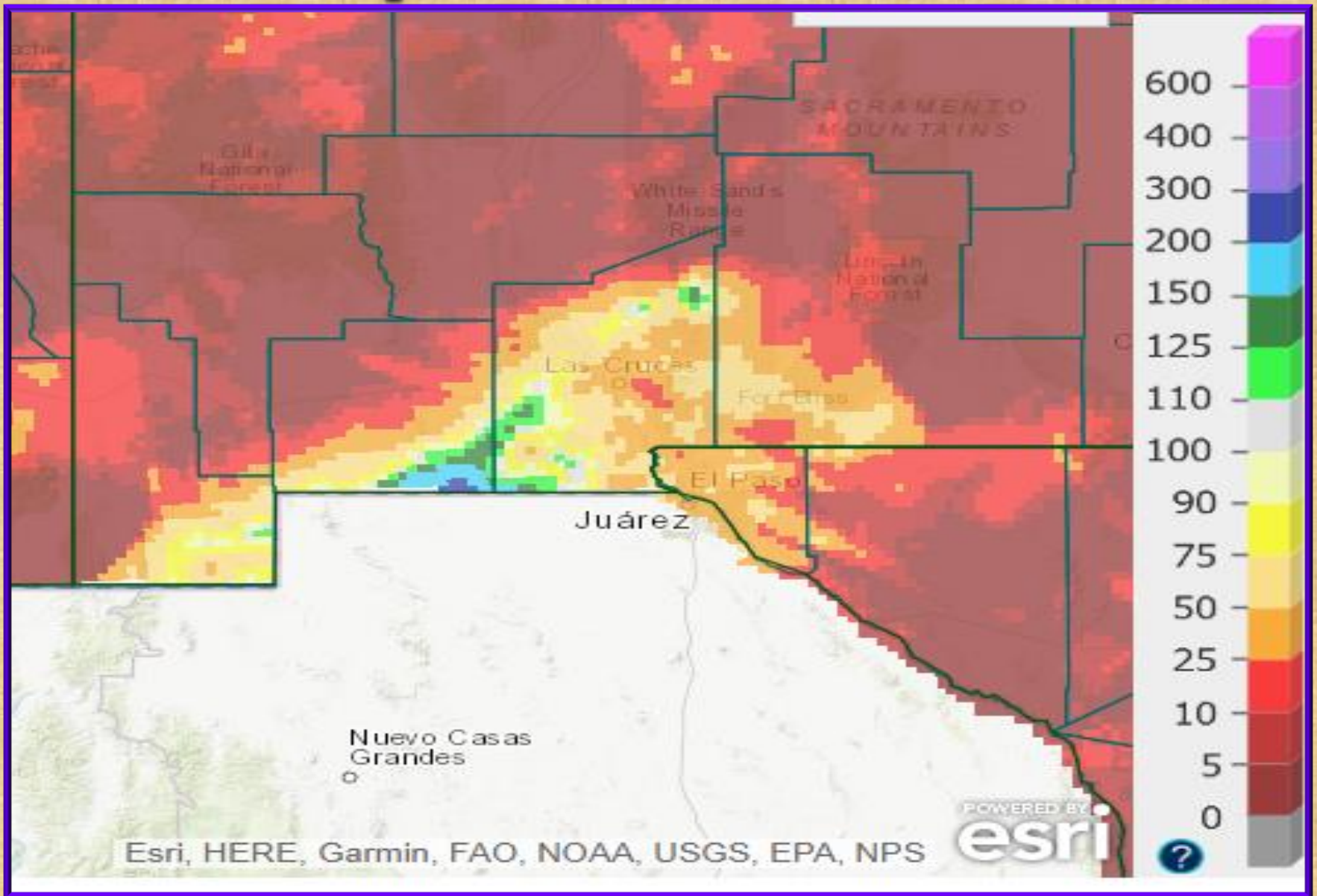


Source: NWS Advanced  
Hydrologic Prediction Service

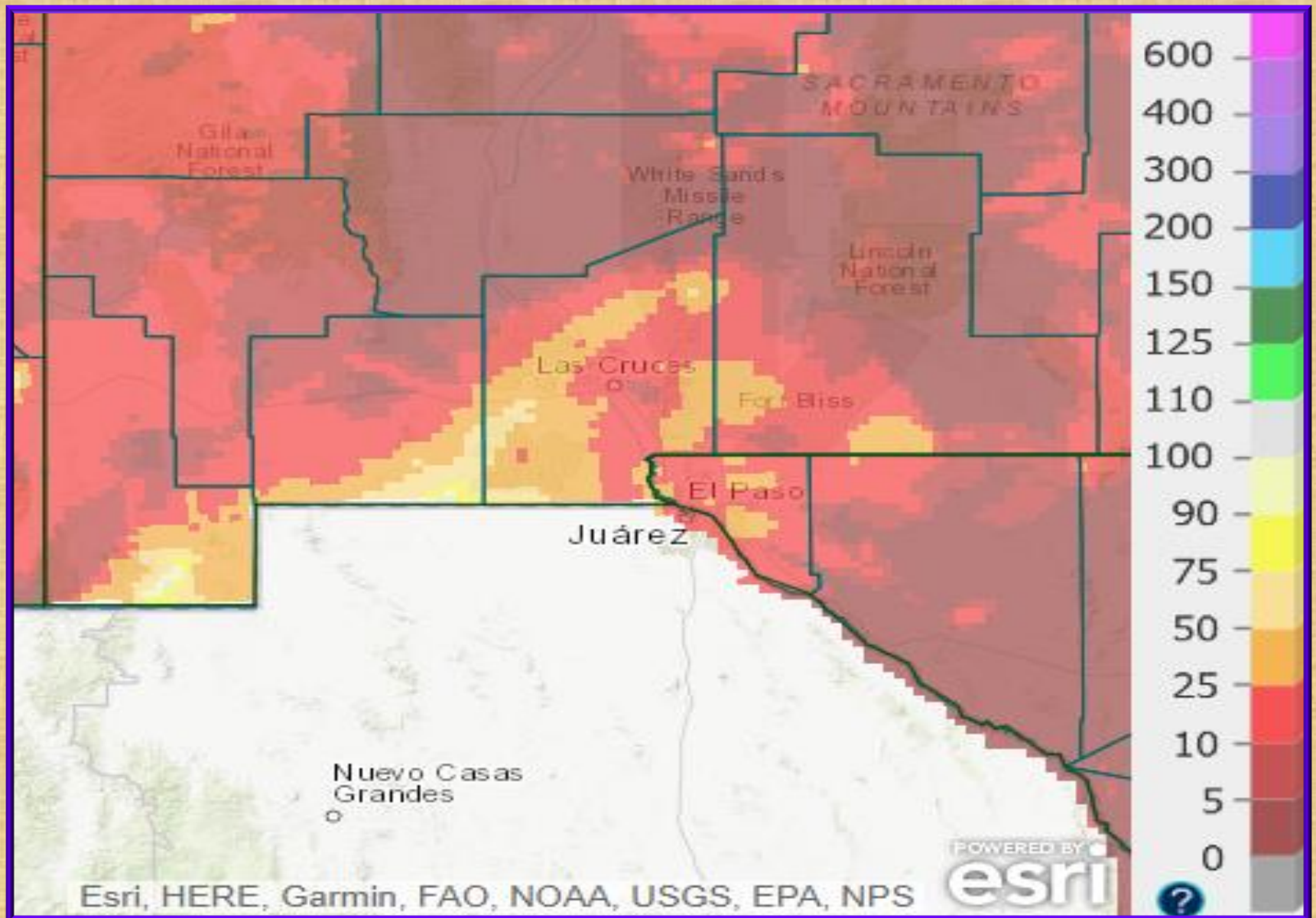
Created: 12/01/2021 2100 UTC



# November 2021 radar rainfall estimate percent of normal



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



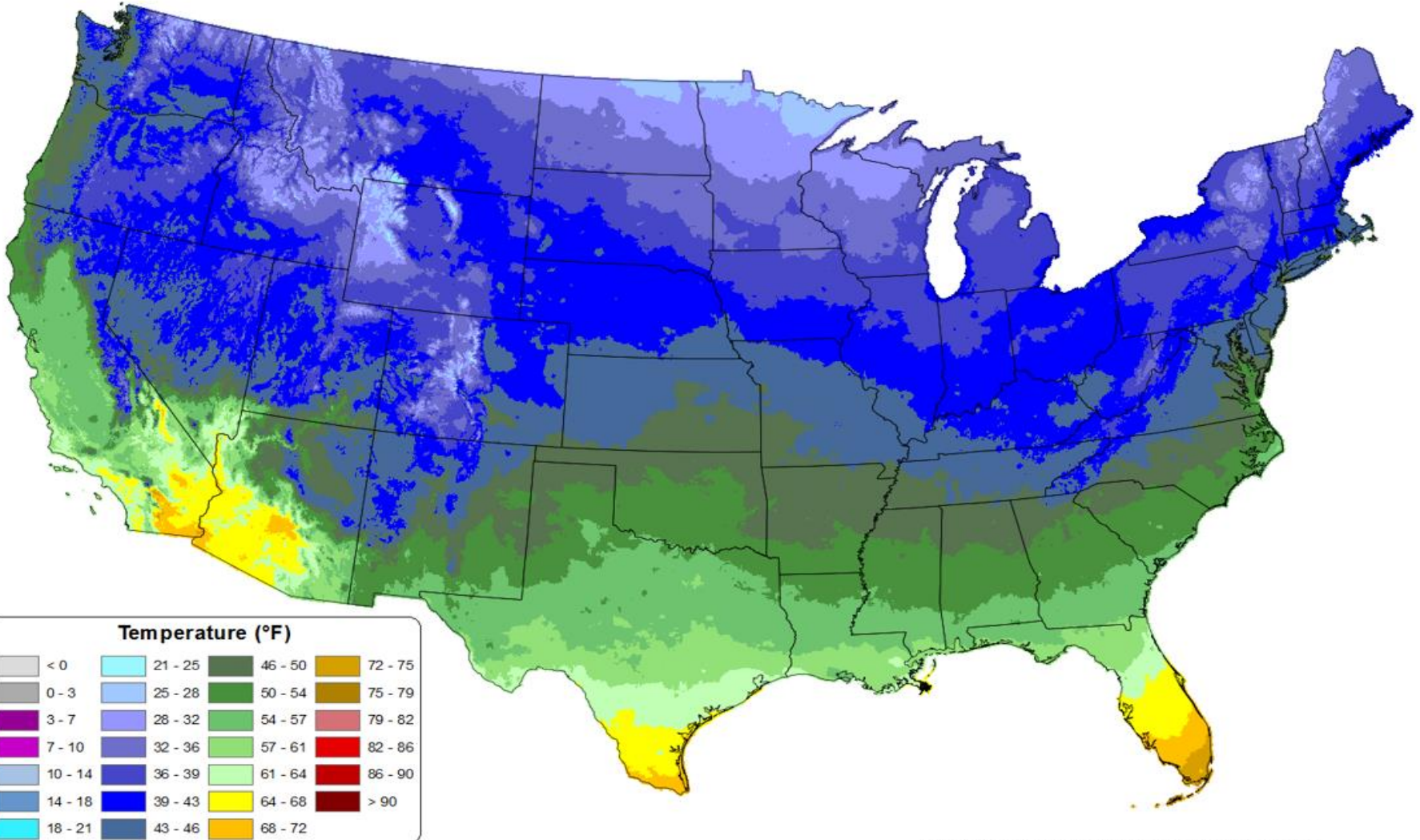


# Average Daily Mean Temperature for November 2021

Average Daily Mean Temperature: Nov 2021

Period ending 7 AM EST 30 Nov 2021

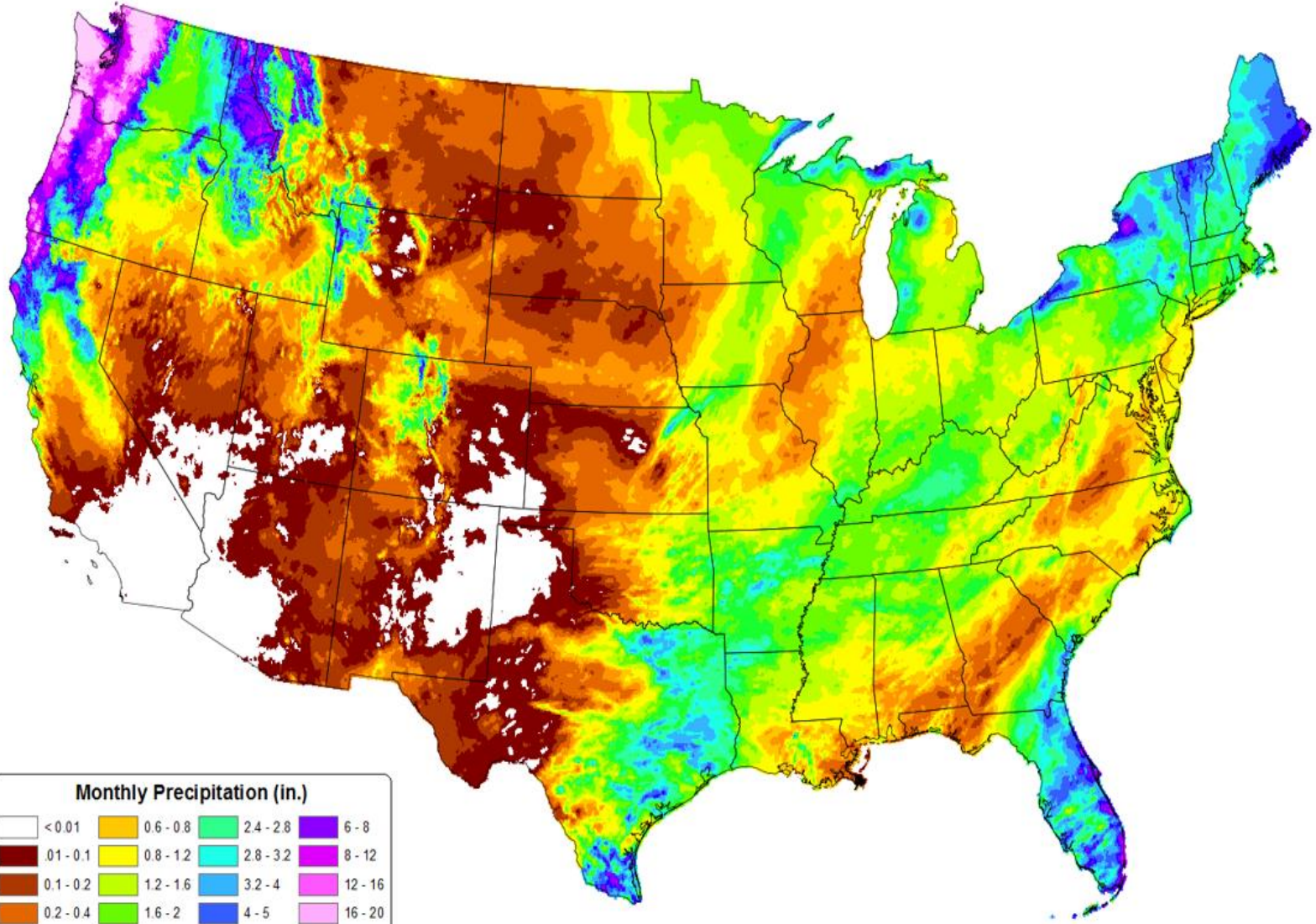
(Map created 05 Dec 2021)





# Total Precipitation for November 2021

(map created 02 Dec 2021)



Monthly Precipitation (in.)

<math>< 0.01</math>	0.6 - 0.8	2.4 - 2.8	6 - 8
0.1 - 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



# Selected Weather Reports November 2021

<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
NOV 19 719 AM	LAKE ROBERST-GRANT	20 DEG LOW TEMP
NOV 19 714 AM	WINSTON-SIERRA	21 DEG LOW TEMP
NOV 19 700 AM	JORNADA RANGE-DONA ANA	23 DEG LOW TEMP
NOV 19 400 AM	SILVER CITY VALLEY DRIVE-GRANT	25 DEG LOW TEMP
NOV 19 400 AM	TIMBERON-OTERO	25 DEG LOW TEMP
NOV 19 644 AM	DELL CITY-HUDSPETH	27 DEG LOW TEMP
NOV 19 430 AM	ANIMAS-HIDALGO	27 DEG LOW TEMP
NOV 19 401 AM	MAYHILL-OTERO	27 DEG LOW TEMP
NOV 19 631 AM	LA UNION-DONA ANA	28 DEG LOW TEMP
NOV 19 558 AM	HOLLOMAN AFB-OTERO	29 DEG LOW TEMP
NOV 19 635 AM	LAS CRUCES ARPT- DONA ANA	29 DEG LOW TEMP
NOV 19 715 AM	ALAMOGORDO ARPT-OTERO	30 DEG LOW TEMP

# Selected Weather Reports November 2021

<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
NOV 19 635 AM	SANTA TERESA ARPT-DONA ANA	30 DEG LOW TEMP
NOV 19 653 AM	DEMING ARPT-LUNA	31 DEG LOW TEMP



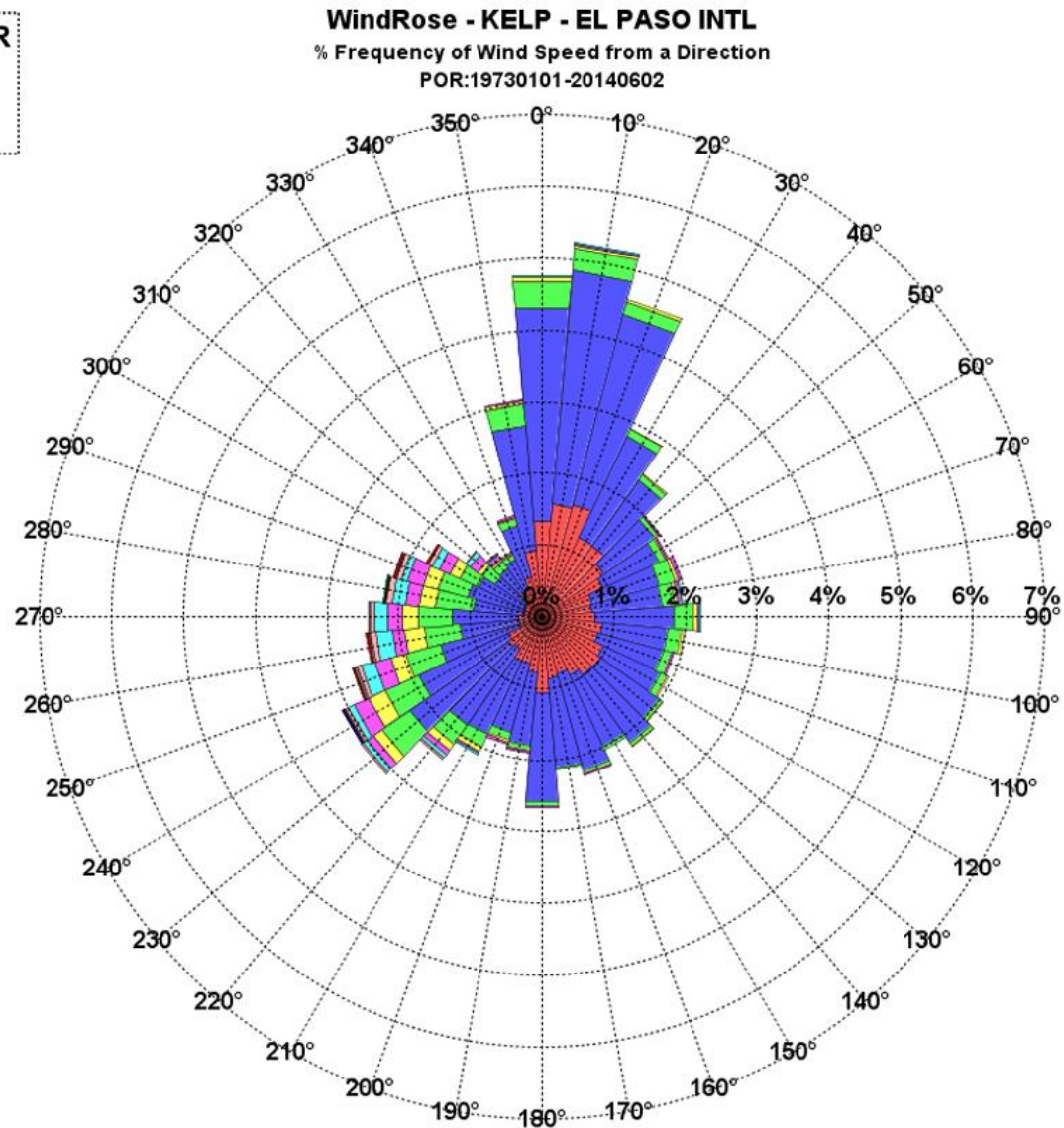
# Special Features

<http://www.srh.noaa.gov/epz/?n=elpwindrosedata>

Month: NOVEMBER

Calm: 12.23%

Variable: 2.30%



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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**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

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>	

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