

# November 2020 Weather Digest



# November 2020 Weather Summary

November continued the trend of drying out and increasing drought conditions of the past several months, and of course if a region is very dry it then follows that the period should be very warm. Many sites experienced mean temperatures 4 to 7 degrees above normal. El Paso International Airport recorded their third warmest November on record. As for rain, the month ended up very uneventful. The large majority of the area saw about 10-25% of normal rainfall with several sites not recording any measurable rainfall. Only over parts of the Black Range and Gila Wilderness from Silver City northward, was any significant rainfall reported and only over the area around Mule Creek up into Catron County were above normal rainfall totals encountered. All of this likely is related to the strengthened La Nina large scale weather pattern. The only noteworthy weather events were on the 7th and 8th when a series of Pacific storm systems moved through the area. For most or all areas this was the only time of the month that precipitation was reported. The systems were warm so even in the mountains, other than the highest elevations, the precipitation fell as rain. As for drought conditions, the three month change saw mostly moderate to severe drought conditions from August worsen to severe to exceptional conditions in November. As far as the outlook goes, don't look for much improvement for the rest of the winter as La Nina persists.

# November 2020 Weather Summary, cont'd

**The official outlook for December through February is a good chance of above normal temperatures and below normal precipitation.**

**Looking ahead to December, the cooling trend slows as we approach the Winter Solstice, which is on the 21st. The average high temperature at El Paso on the 1st is 60 degrees, falling to 56 degrees at the end of the month. In fact the average highs for most of the lowlands begin warming back up the first week of January. Daylength on the 1st is 10 hours, 13 mins and bottoms out on the 21st (Winter Solstice). Daylight then begins the very slow increase after the 21st. A little known fact—Dec 6 is the earliest sunset, after the 6th the sunset time begins increasing again. However the sunrise time is still increasing at a faster rate; therefore daylight is still shrinking until the Solstice. For you lunar fans, our full moon this month occurs on the 29th, while the new moon occurs on the 15th. There will be a total solar eclipse on the 14th—unfortunately it will be visible only from parts of South America. If you want to see a lunar eclipse, you will have to wait several months into 2021.**

**Nov 19 El Paso Sunrise**



WEATHER BY  
**CLOUDCROFT**  
NEW MEXICO  
Aerial Webcams of El Paso

**Nov 27 Cloudcroft Snow**



**Late Autumn Skies in Southern  
New Mexico**



**Crisp Fall Morning in El Paso**



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

## **ENSO Alert System**

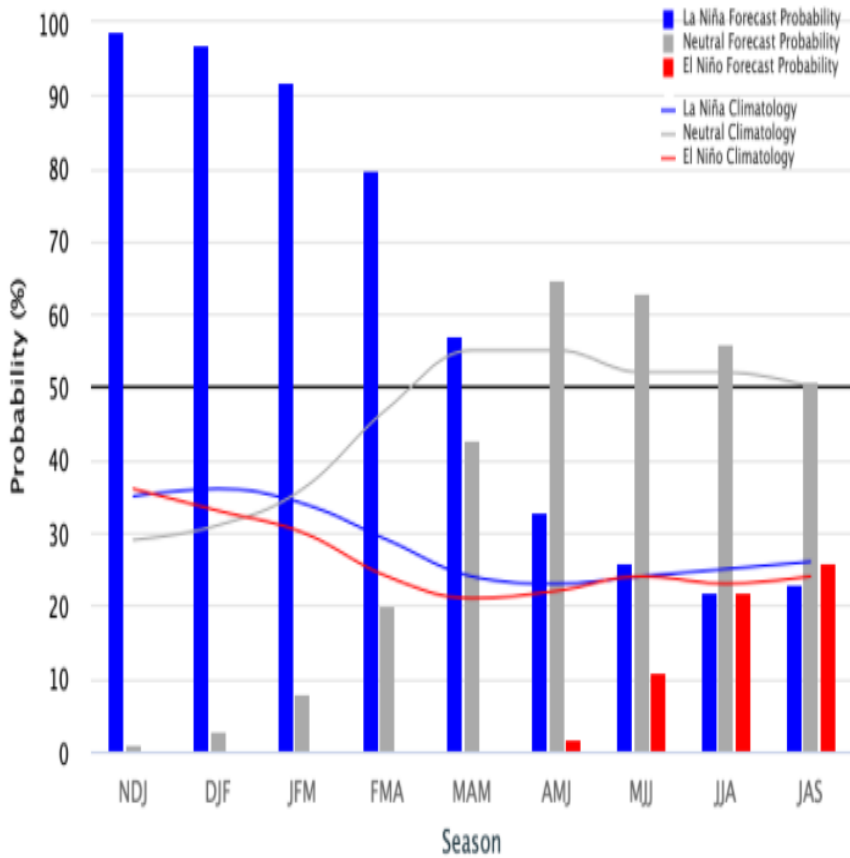
- **El Niño or La Niña Watch:** Issued when conditions are favorable for the development of El Niño or La Niña conditions in the next six months.
- **El Niño or La Niña Advisory:** Issued when El Niño or La Niña conditions are observed and expected to continue.

# ENSO Forecast

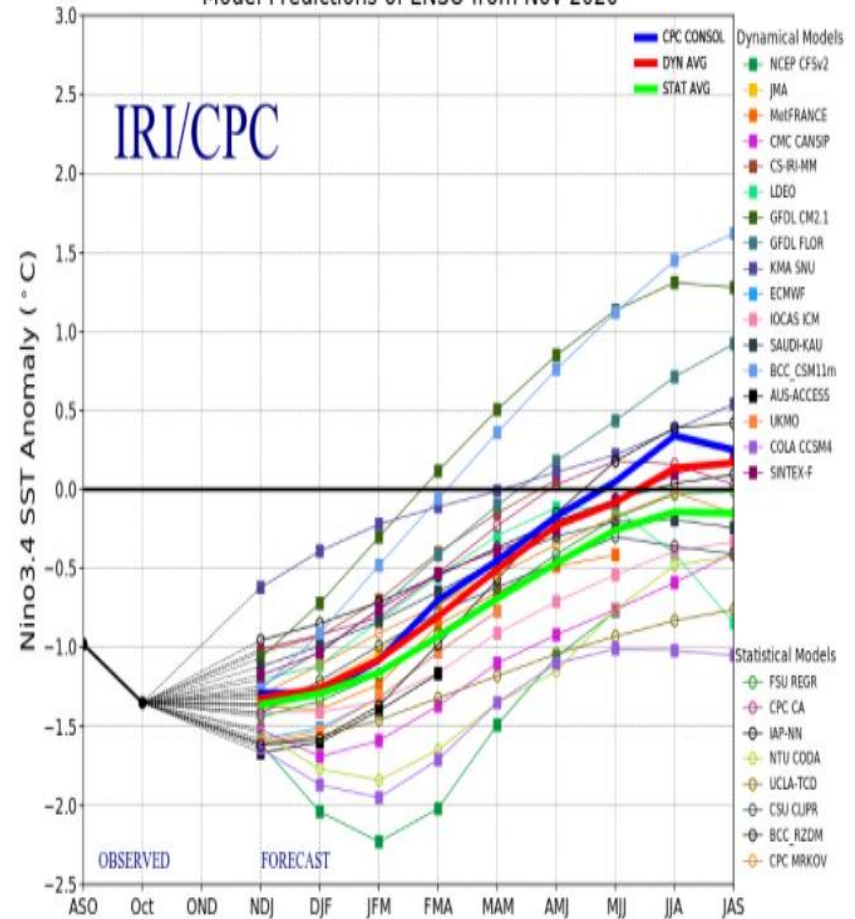
ENSO is now in a moderate La Niña phase; likely to persist through at least early spring.

Mid-November 2020 IRI/CPC Model-Based Probabilistic ENSO Forecasts

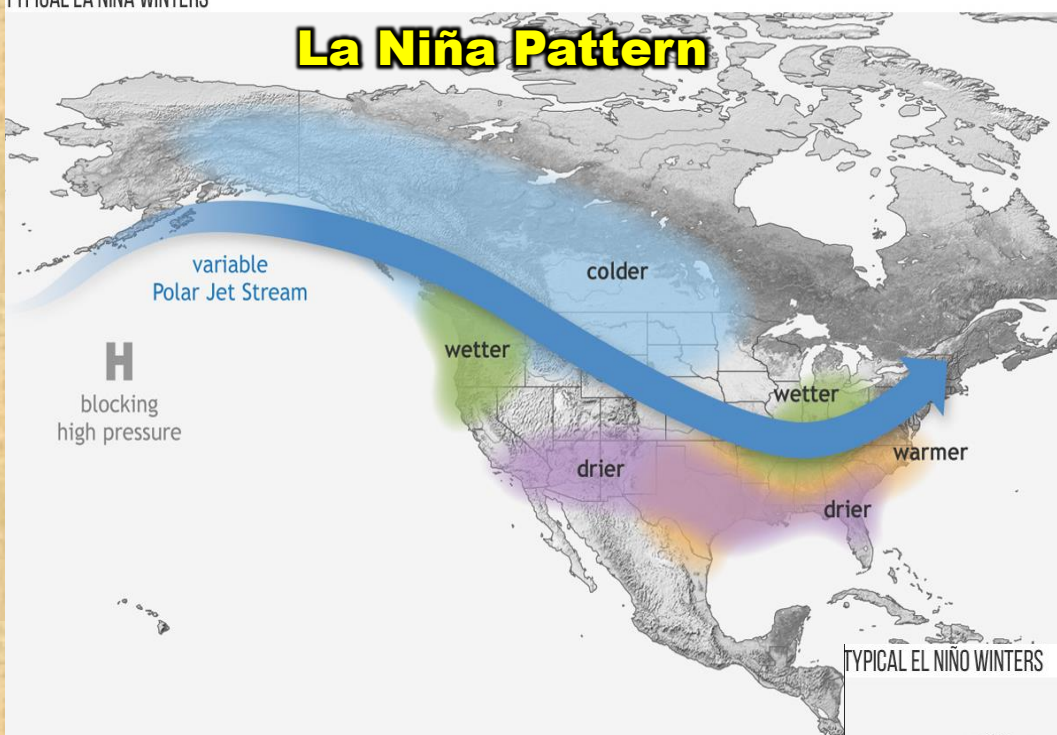
ENSO state based on NINO3.4 SST Anomaly  
Neutral ENSO:  $-0.5^{\circ}\text{C}$  to  $0.5^{\circ}\text{C}$



Model Predictions of ENSO from Nov 2020

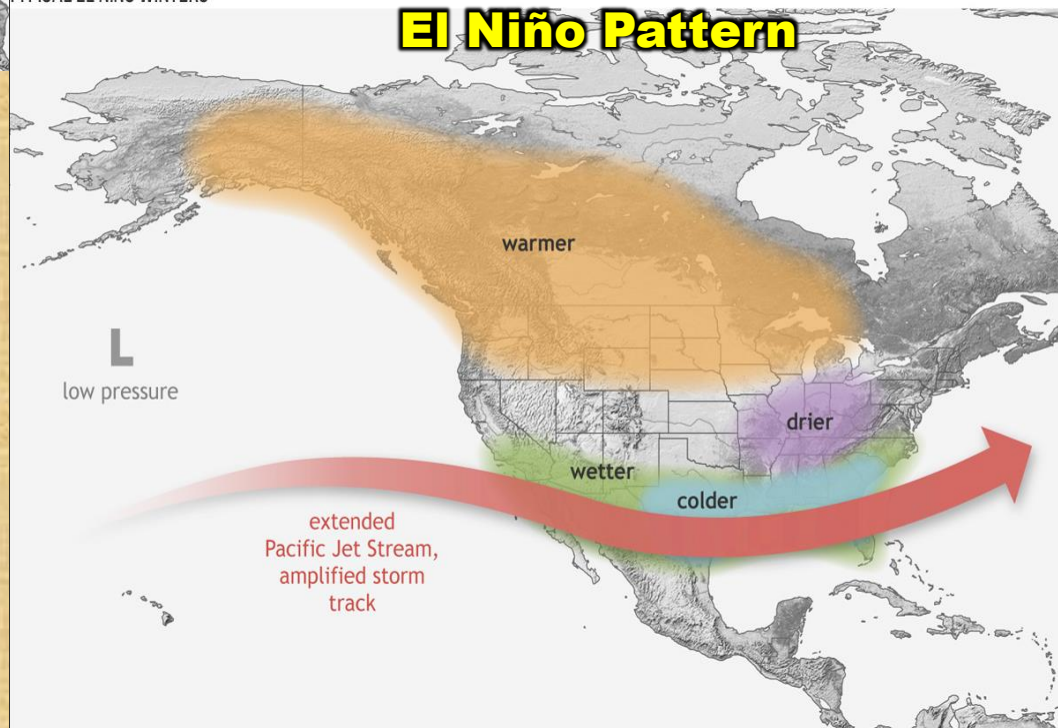


# La Niña Pattern



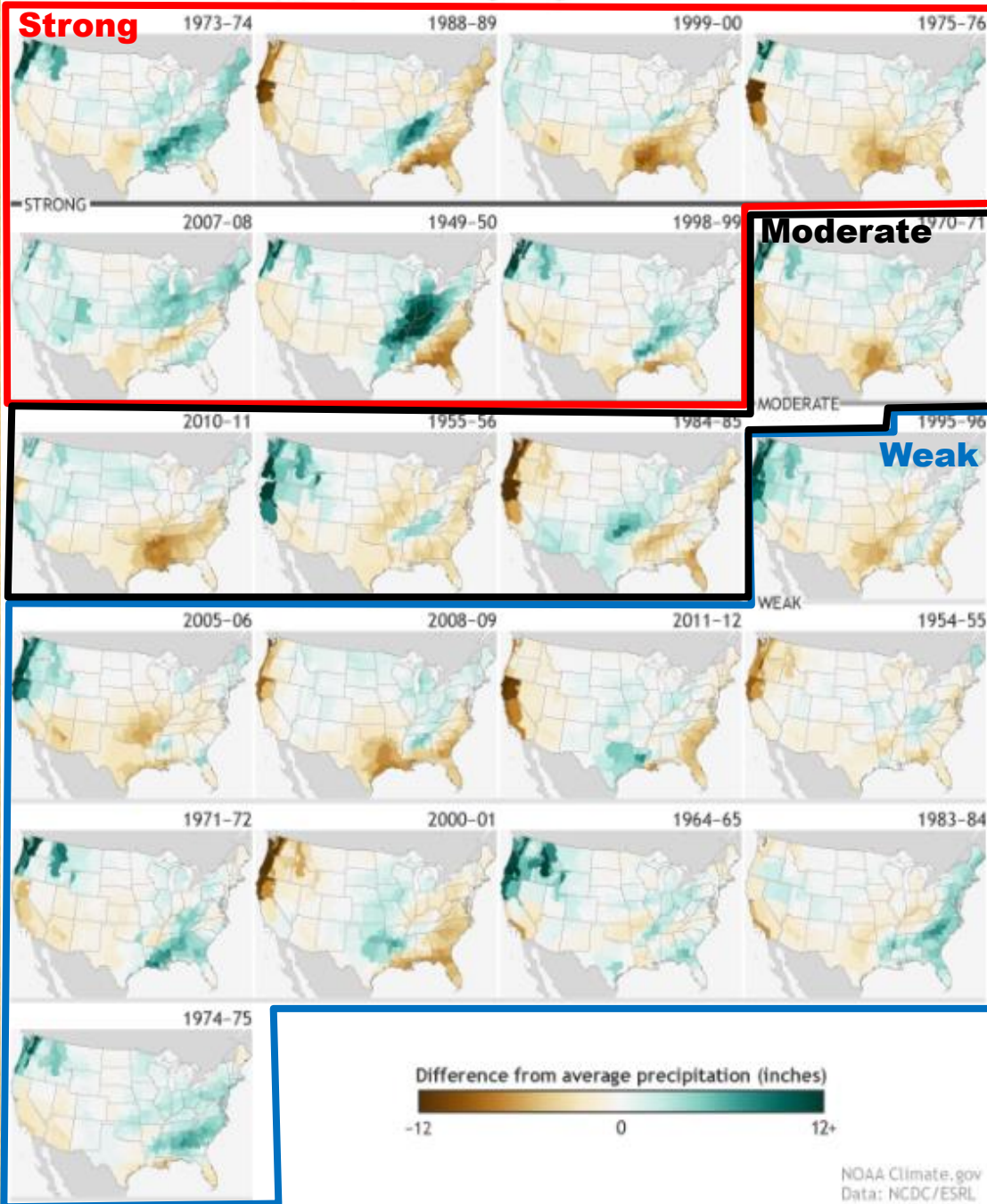
We are heading into a weak to moderate La Niña for much of this winter. As the pattern shows, a ridge of high pressure tends to build off the west coast of the U.S., blocking most of our Pacific winter storm systems. These storms tend to end up moving across the northern Plains and down to the southeastern 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



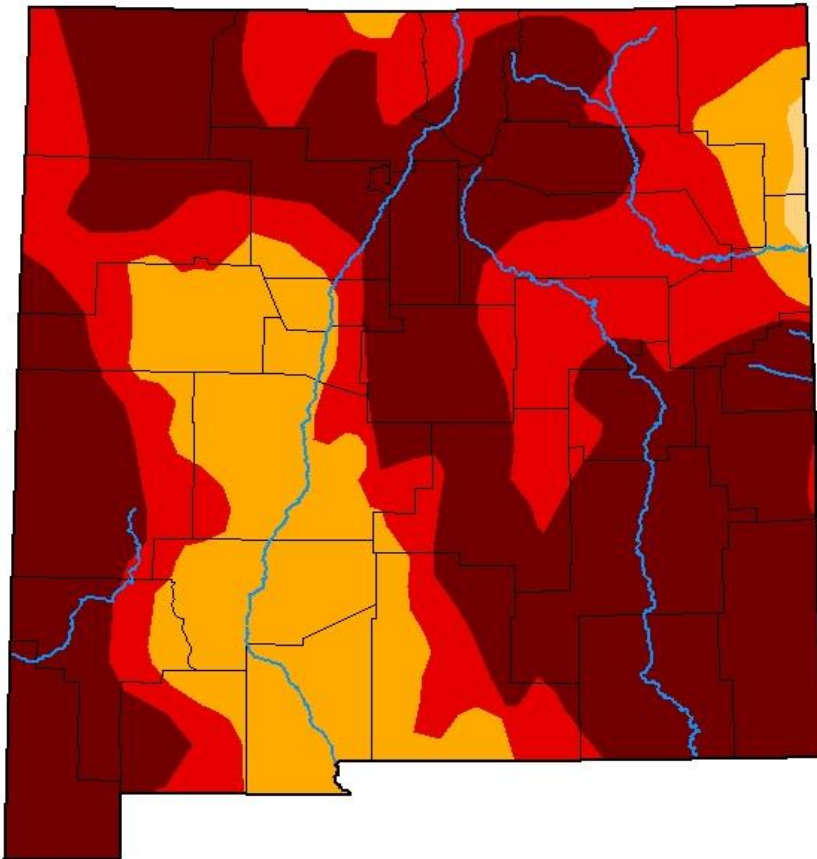
Examples of the numerous La Niña winters since 1950. These maps depict the departure from normal precipitation amounts for a winter.



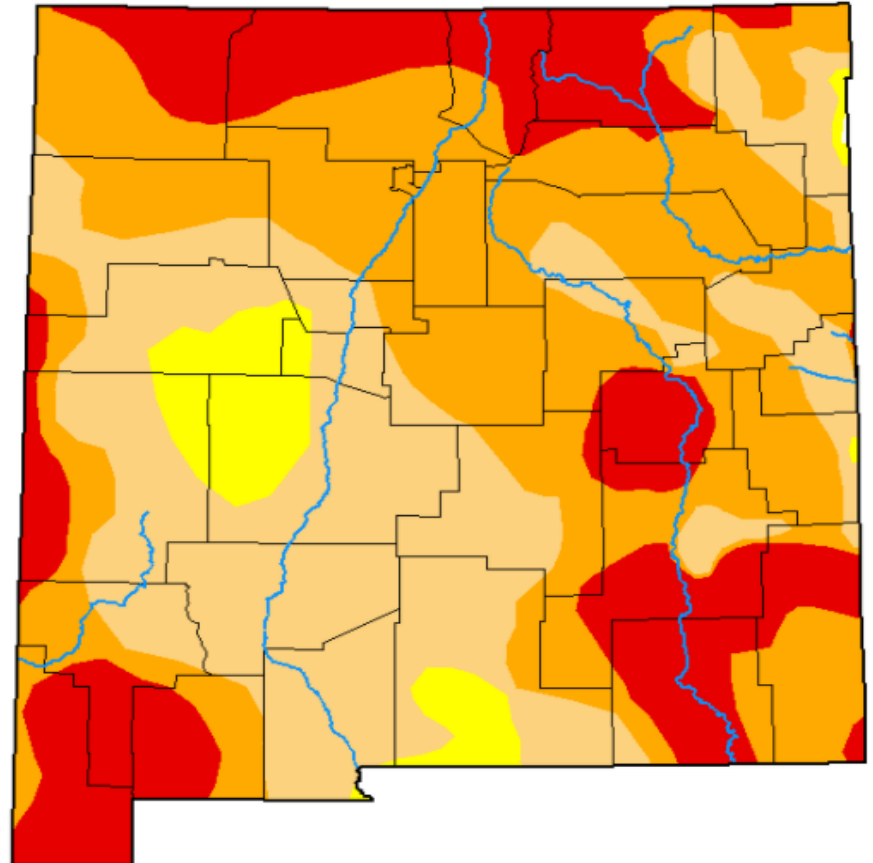
# Current drought conditions for New Mexico and 3 month change

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

**November 24, 2020**








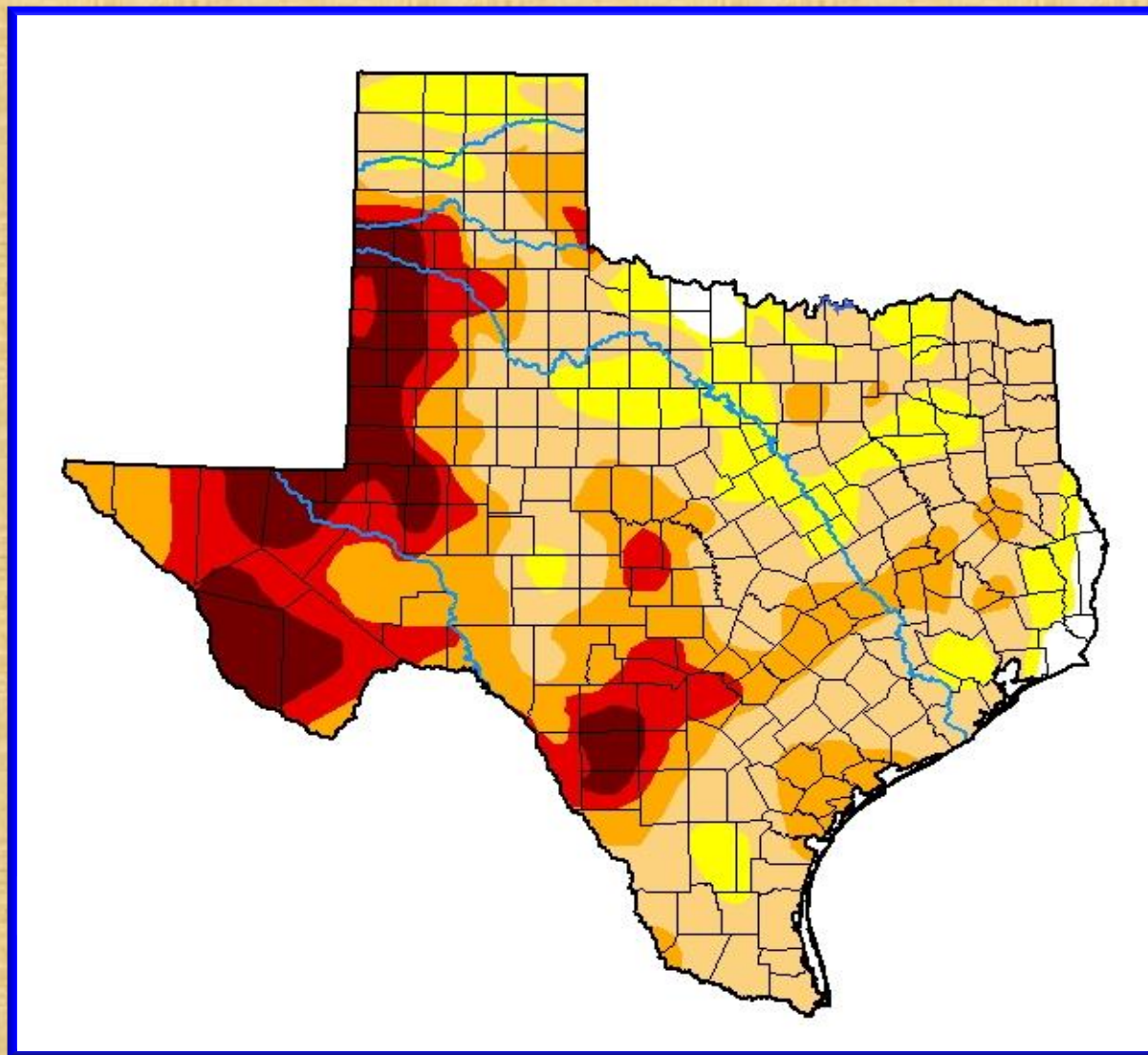
**August 25, 2020**



# Current drought conditions for Texas as of November 24, 2020

Intensity:

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

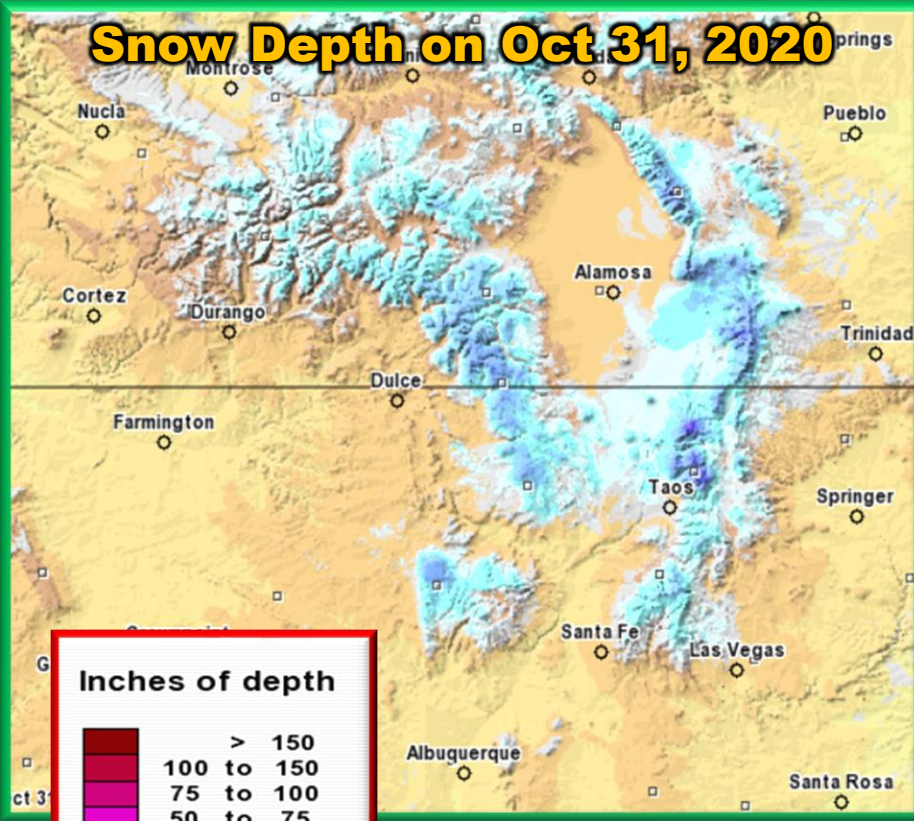


**Build your own custom slider maps here at:**

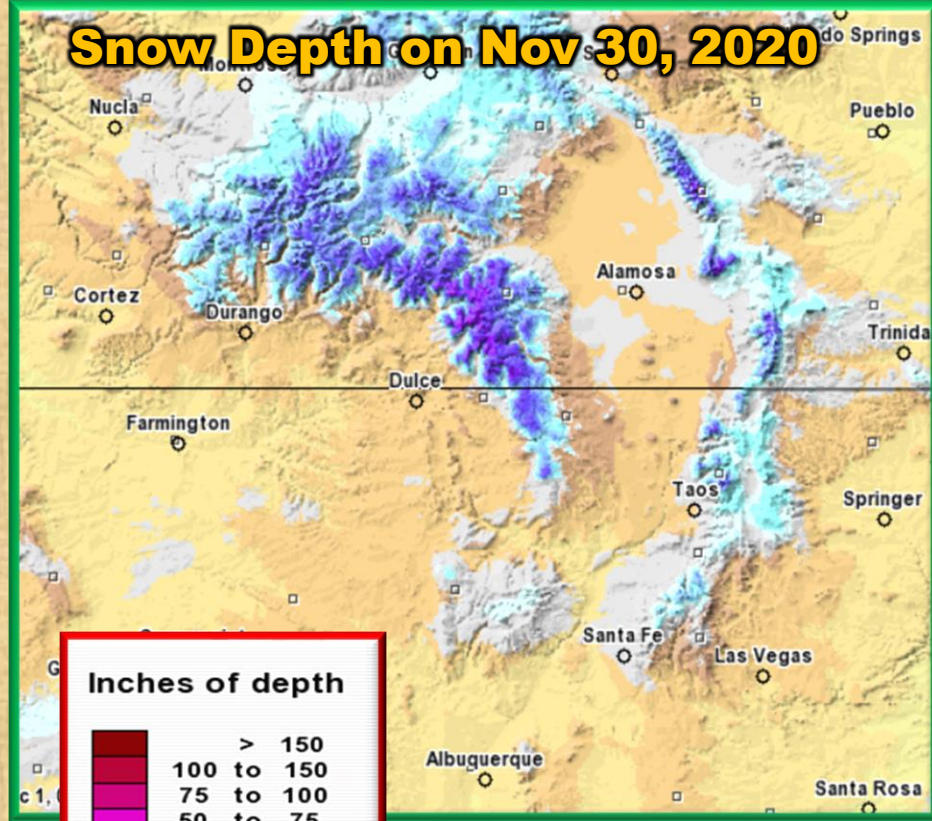
**<http://droughtmonitor.unl.edu/Maps/ComparisonSlider.aspx>**

# Snow Data Upper Rio Grand Basin as of November 30, 2020

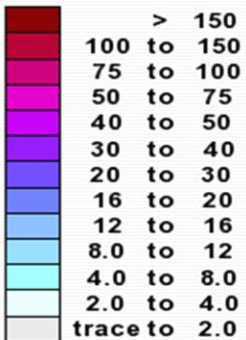
## Snow Depth on Oct 31, 2020



## Snow Depth on Nov 30, 2020

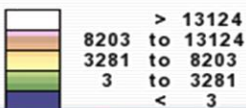


### Inches of depth

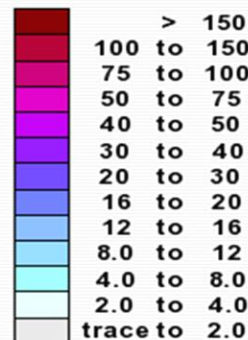


Not Estimated

### Elevation in feet

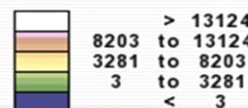


### Inches of depth



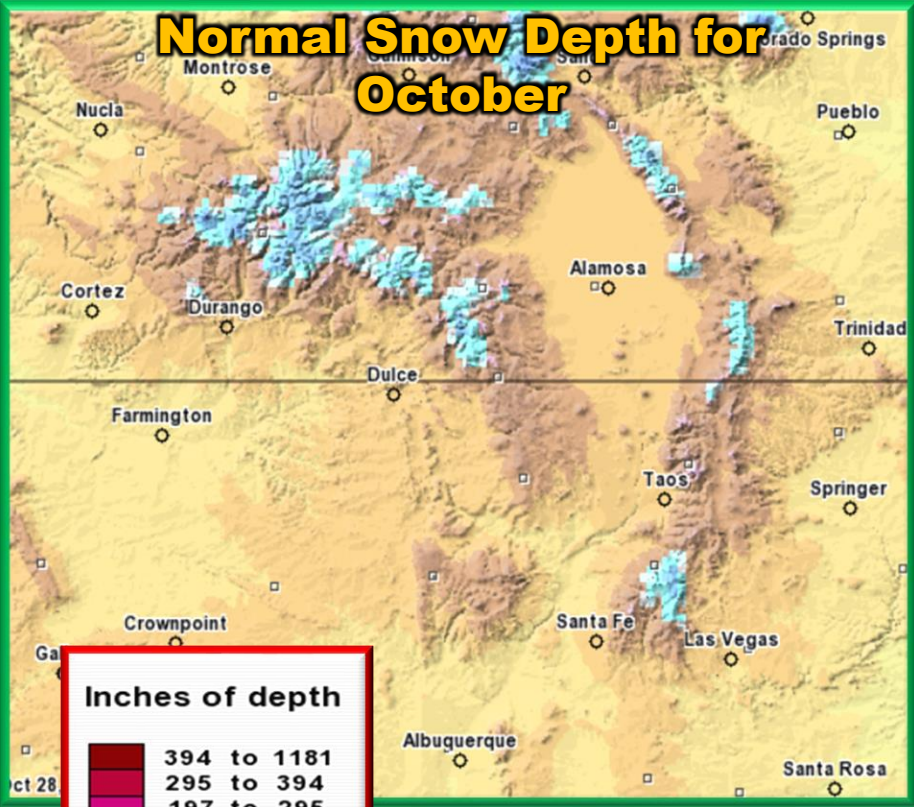
Not Estimated

### Elevation in feet

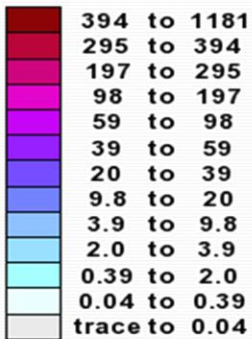


# Snow Data Upper Rio Grand Basin as of November 30, 2020

## Normal Snow Depth for October

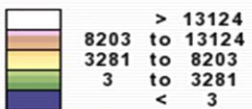


### Inches of depth

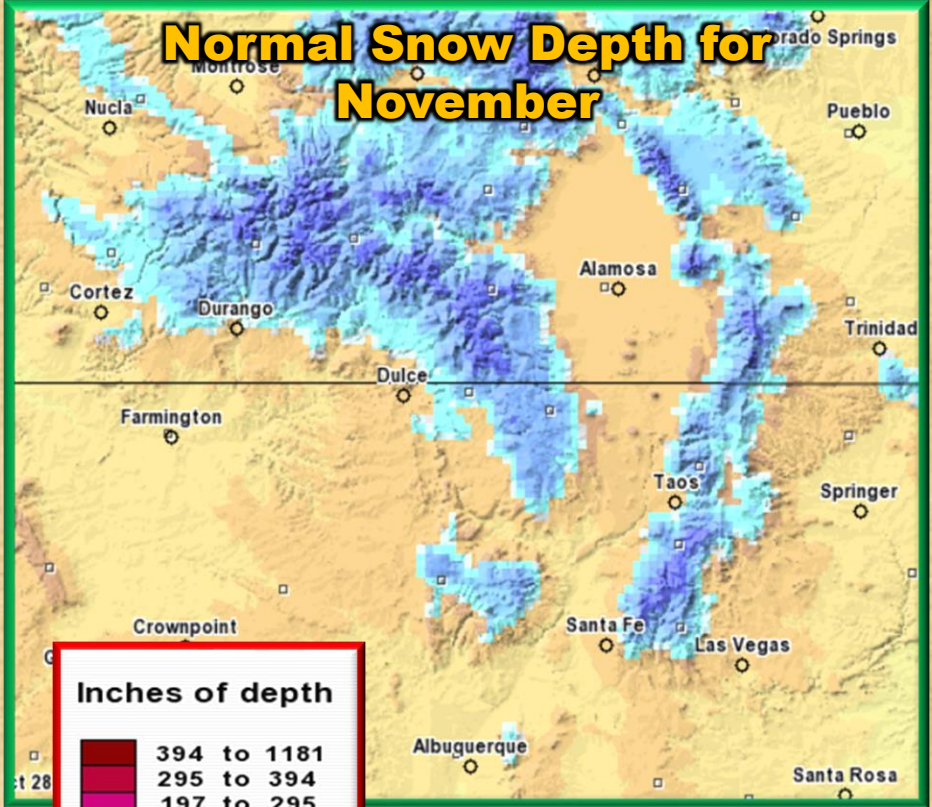


Not Estimated

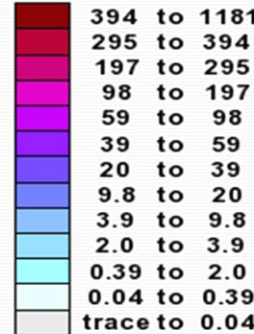
### Elevation in feet



## Normal Snow Depth for November

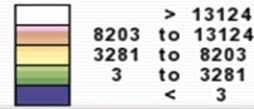


### Inches of depth



Not Estimated

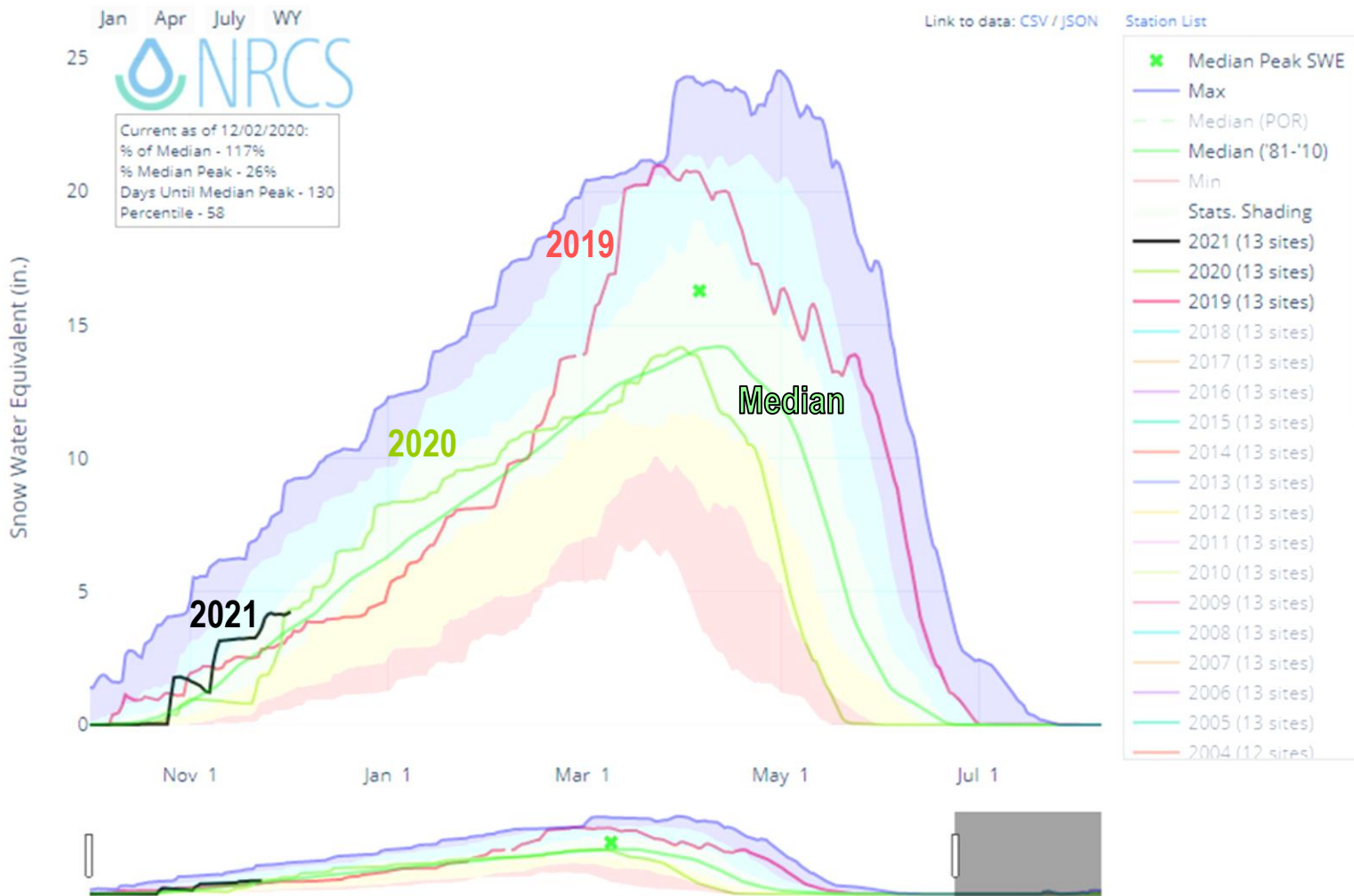
### Elevation in feet



# Snow Water Equivalent as of Nov 1, 2020

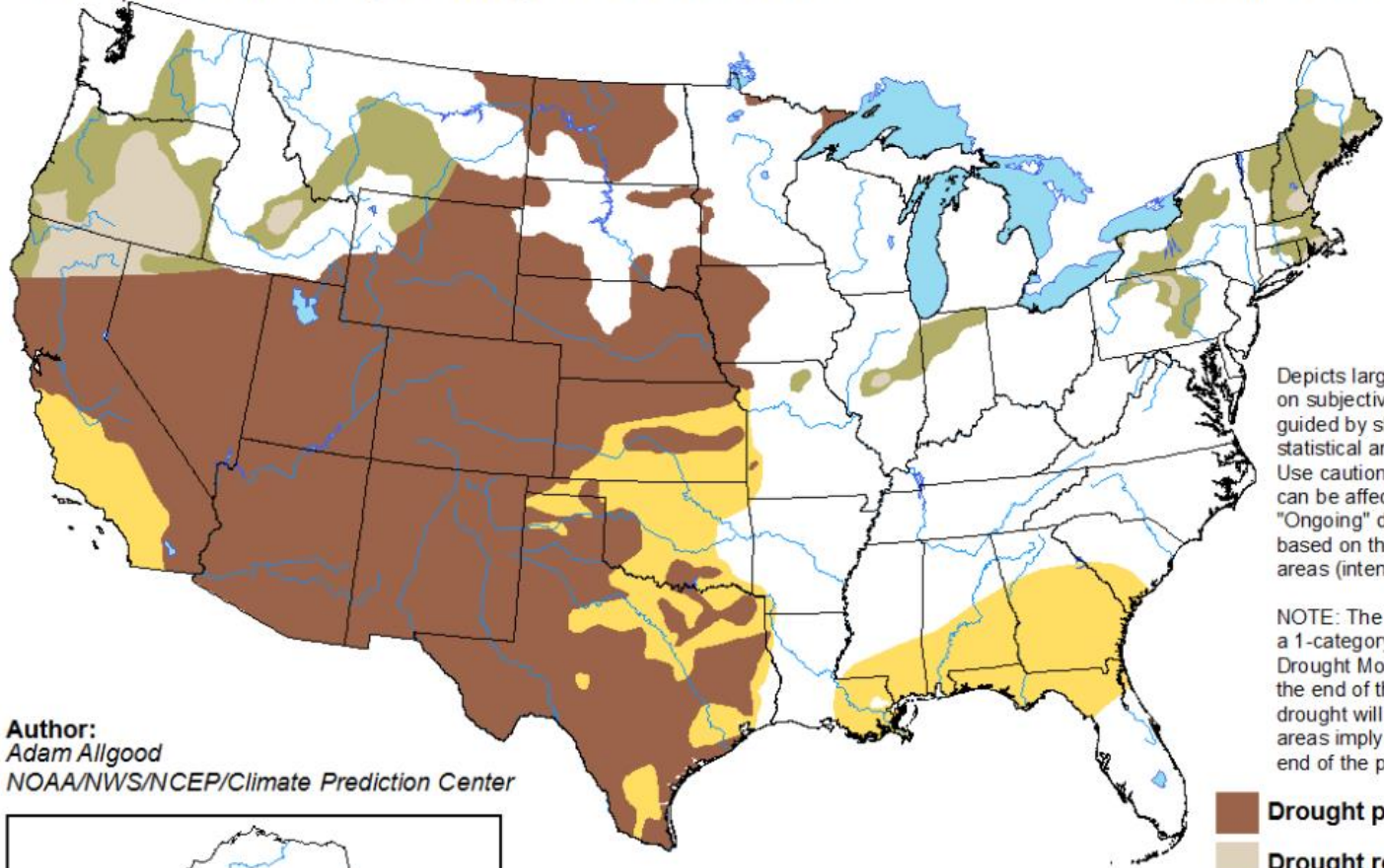
## Compare to last few years and average values

### SNOW WATER EQUIVALENT IN UPPER RIO GRANDE



# U.S. Seasonal Drought Outlook

Valid for November 19, 2020 - February 28, 2021  
Drought Tendency During the Valid Period  
Released November 19, 2020

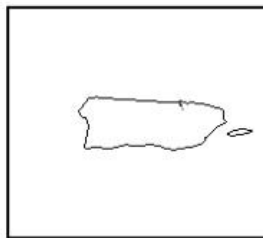
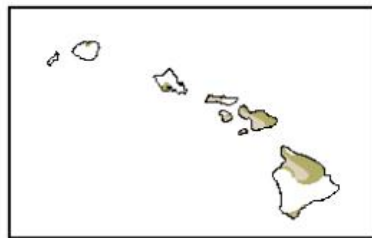


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

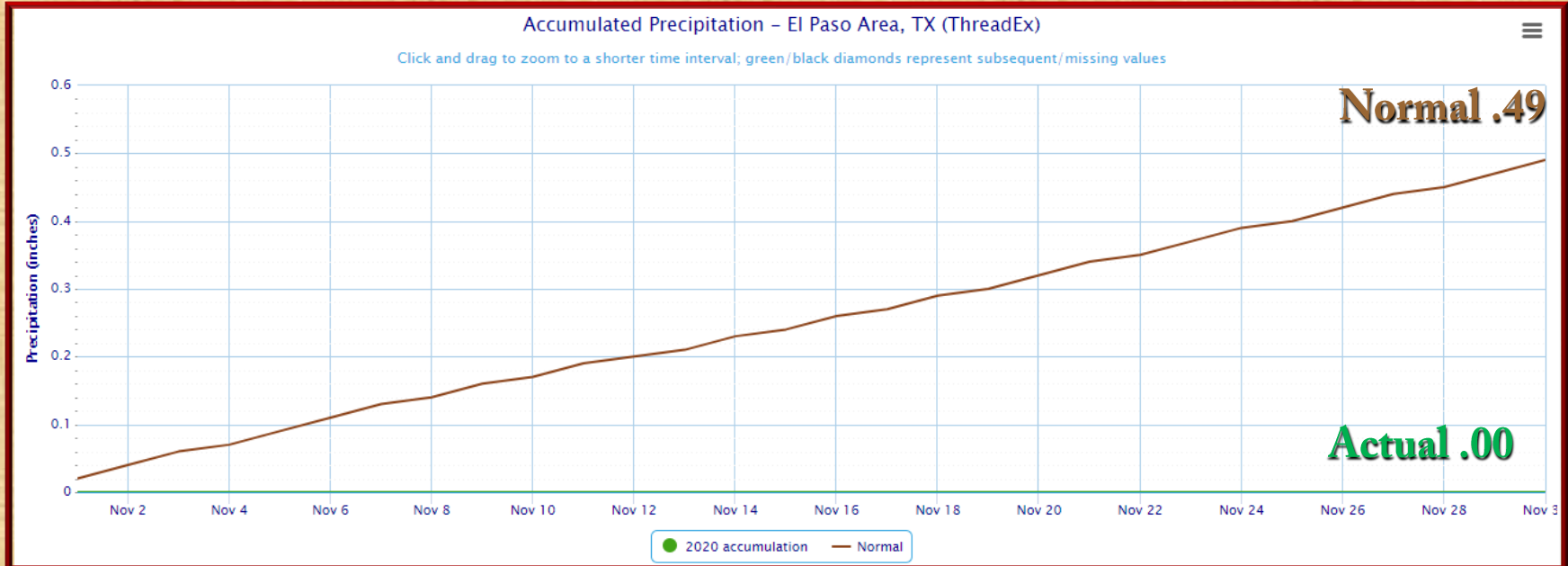
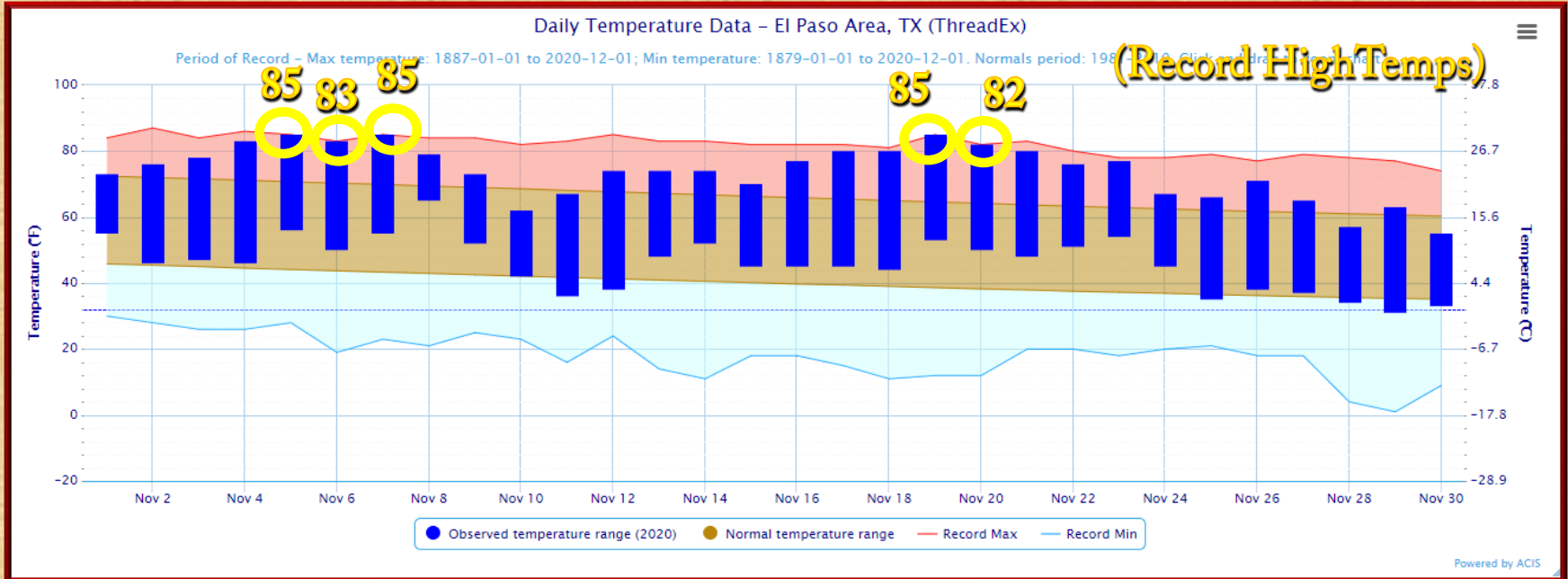
-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



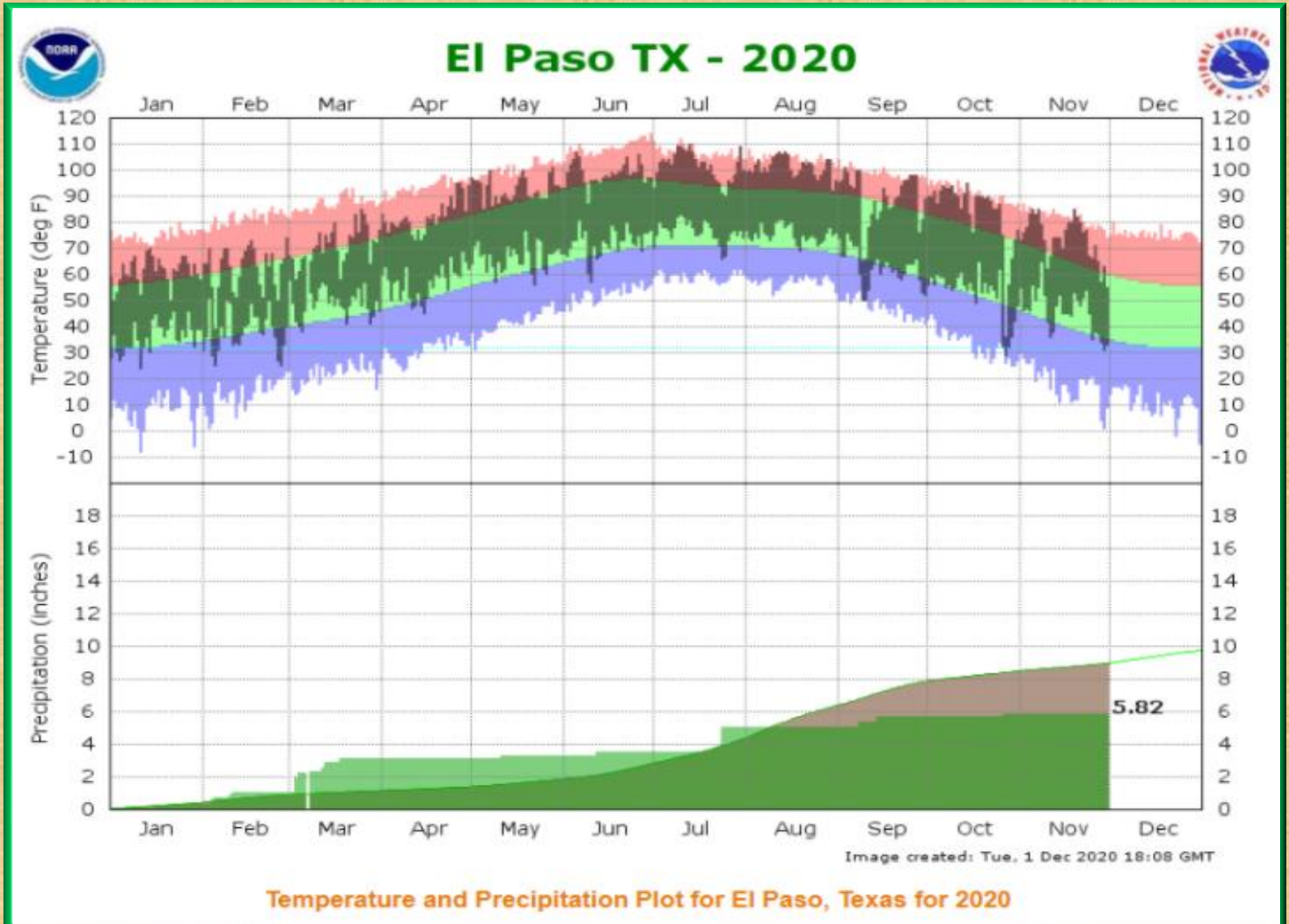
<http://go.usa.gov/3eZ73>

# Temperature and precipitation data for November 2020 in El Paso

○ = record



# 2020 Year to Date: Temperature and Precipitation Data for El Paso

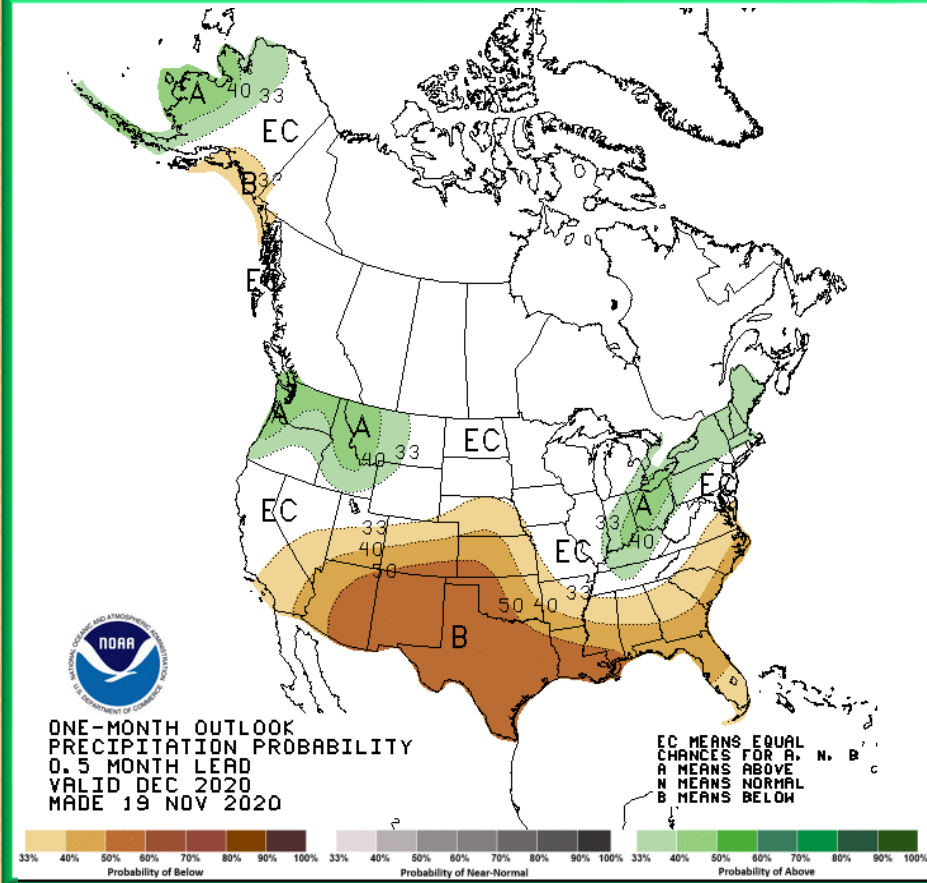
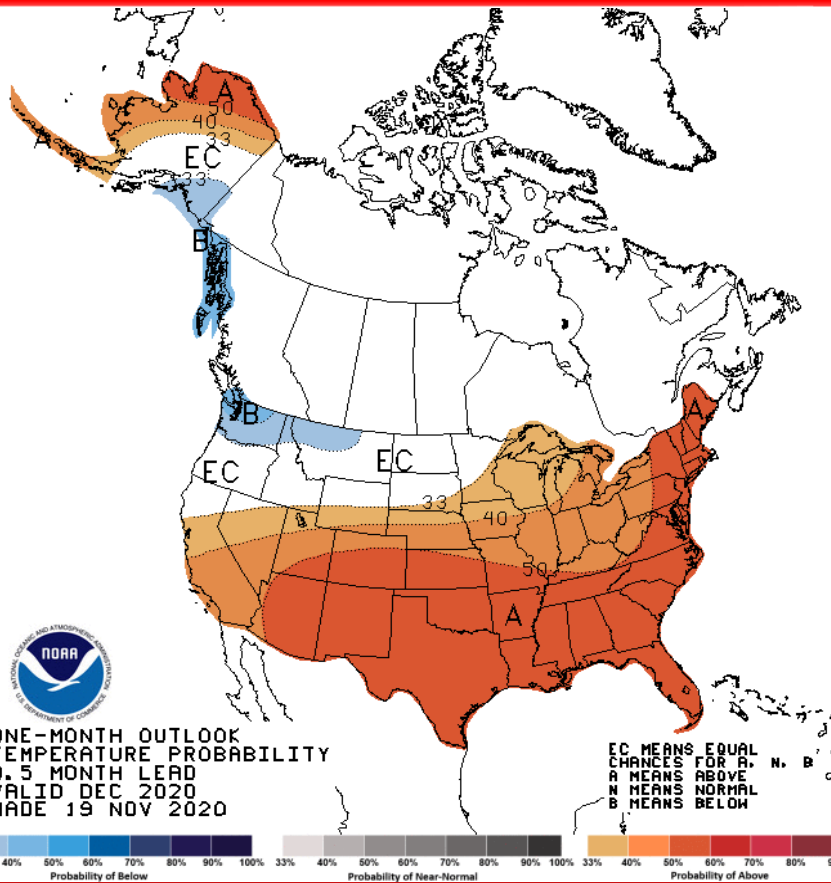




# Temperature and precipitation outlook for December 2020

## Temperature

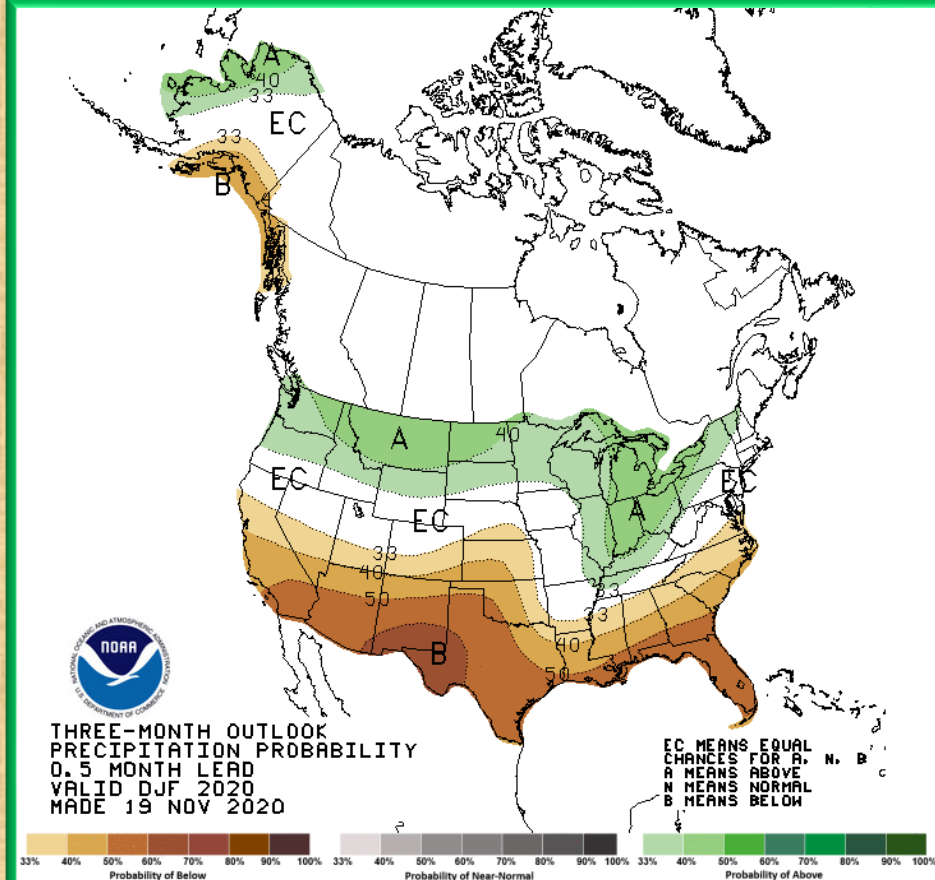
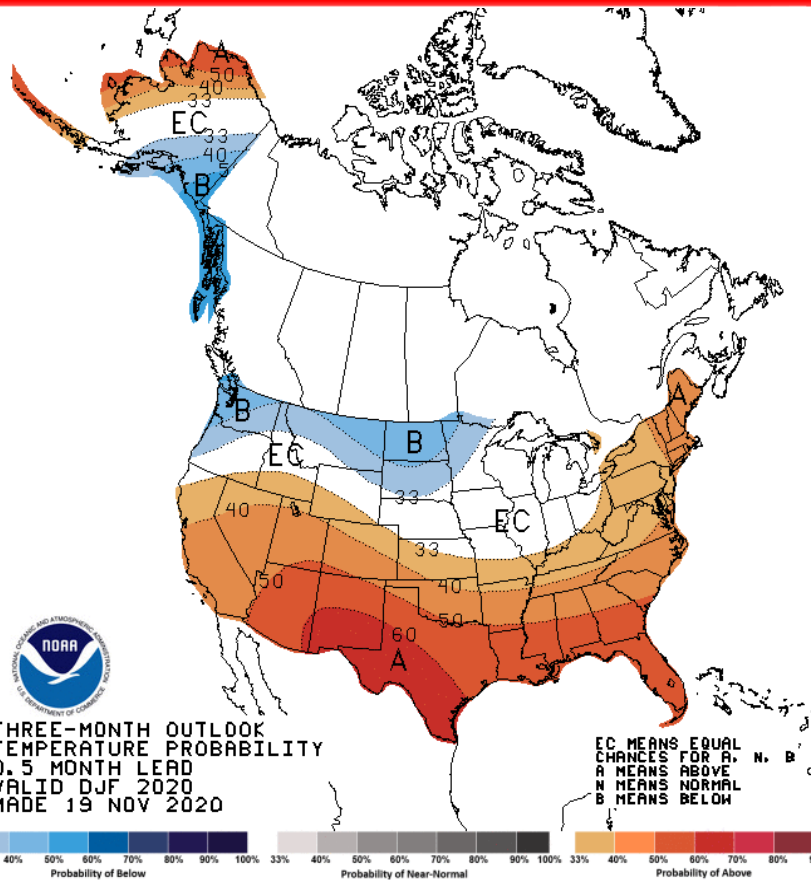
## Precipitation



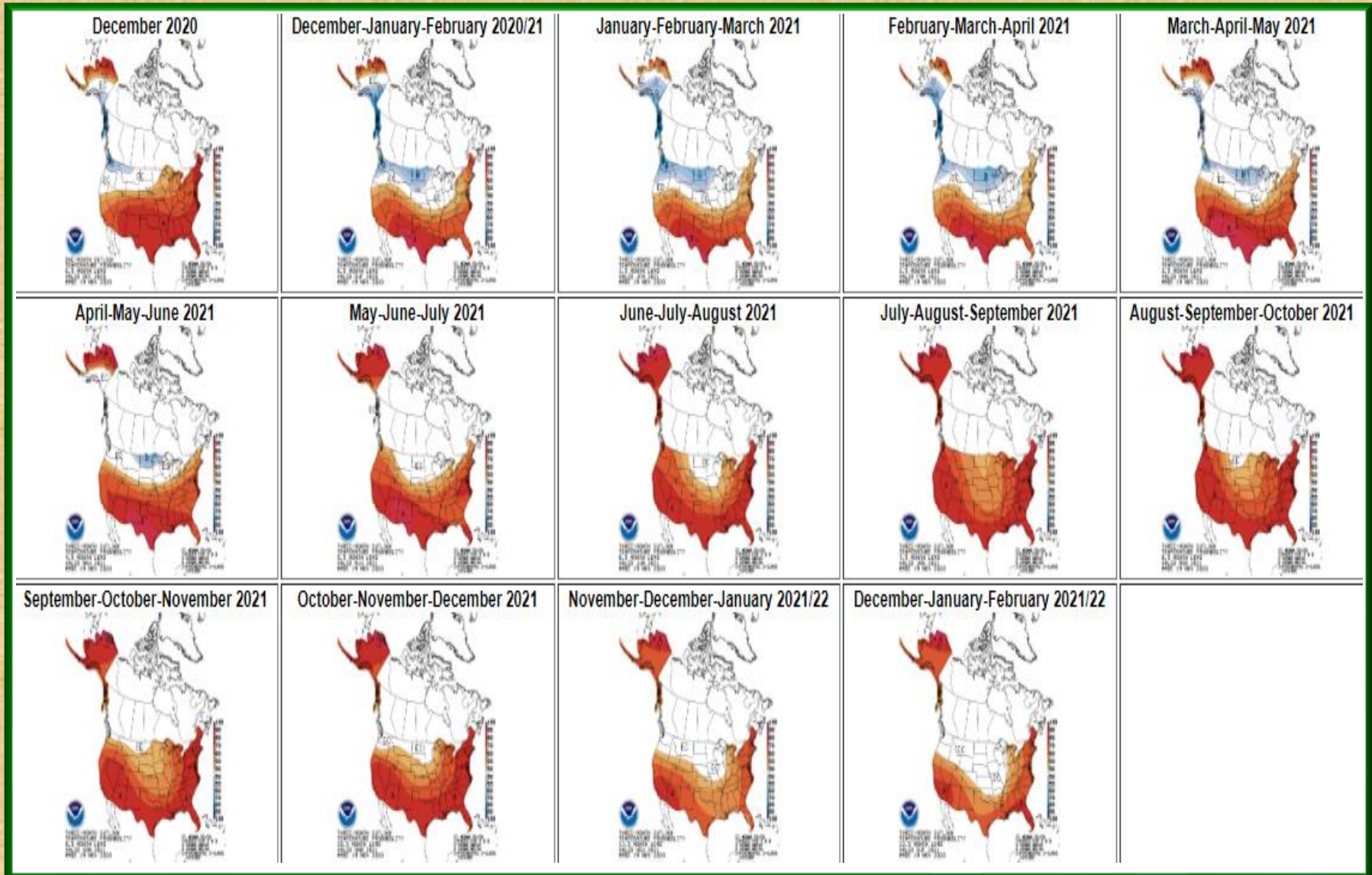
# Temperature and precipitation outlook For December-February 2020

## Temperature

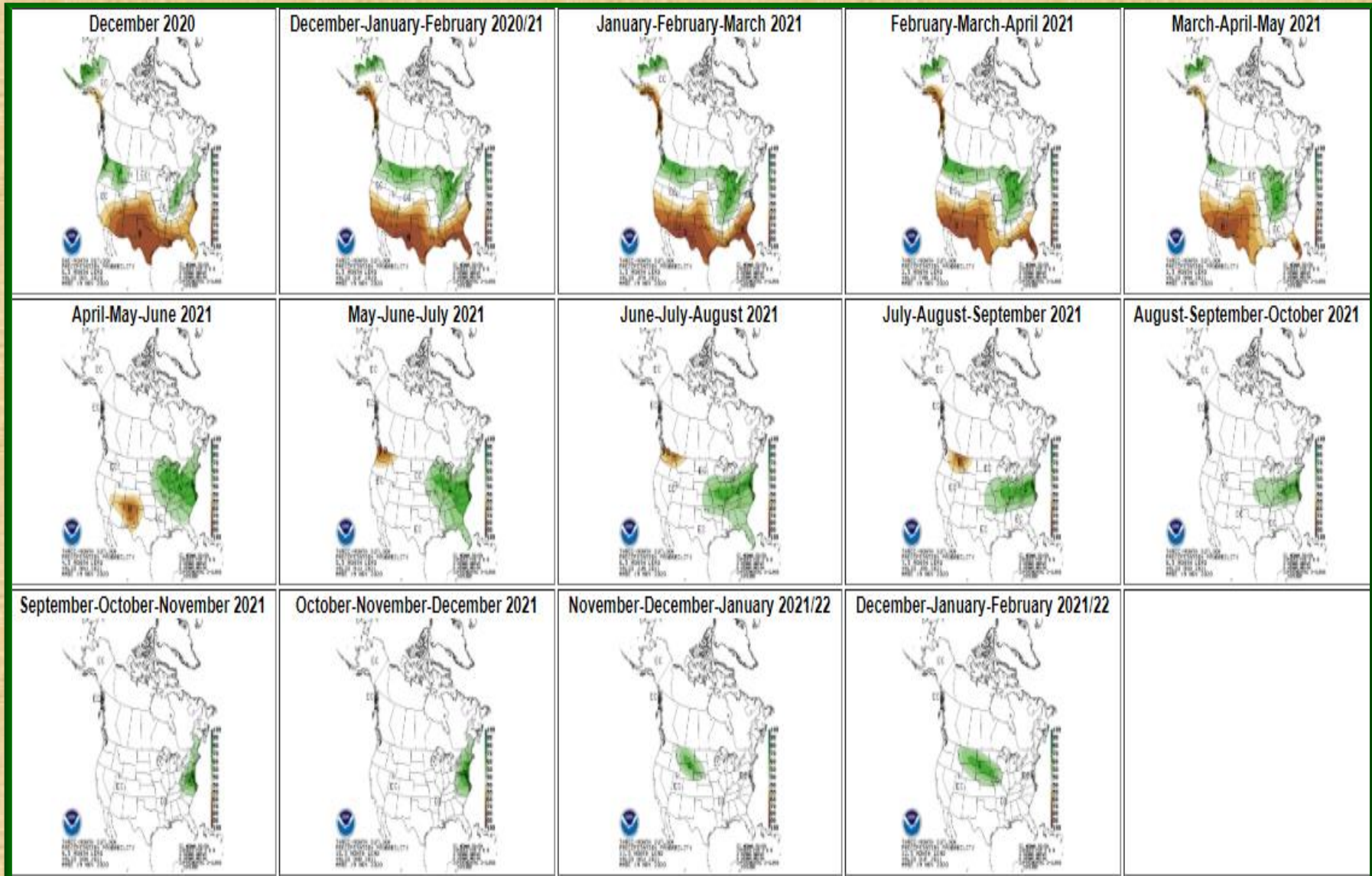
## Precipitation



# Temperature Outlook Through February 2022



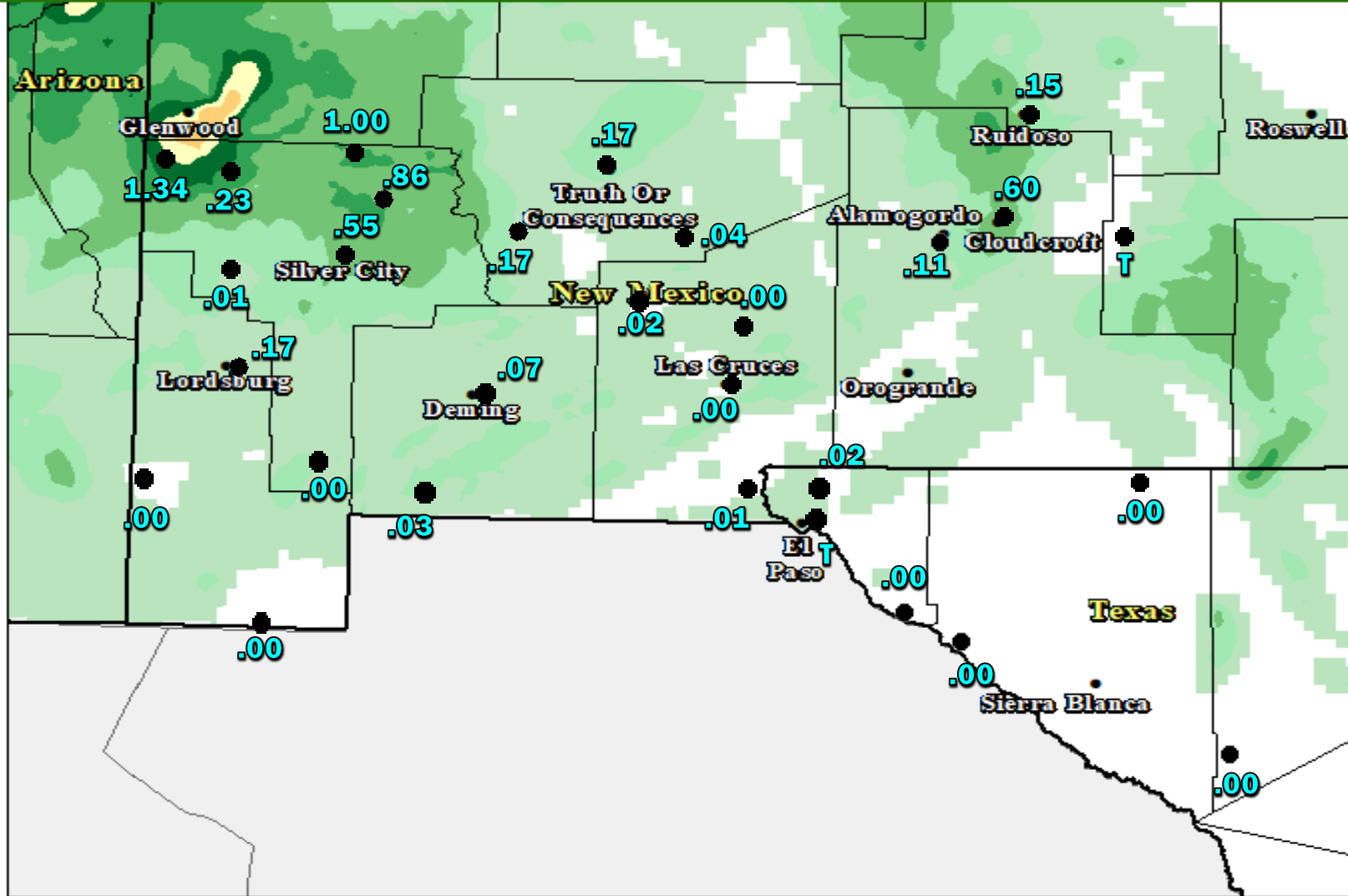
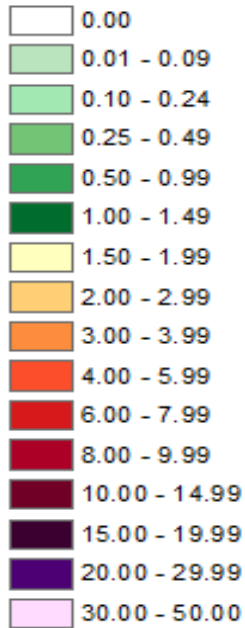
# Precipitation Outlook Through February 2022



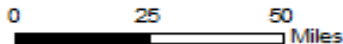
# November 2020 radar rainfall estimate with surface rainfall reports

## Total Monthly Precipitation - November 2020

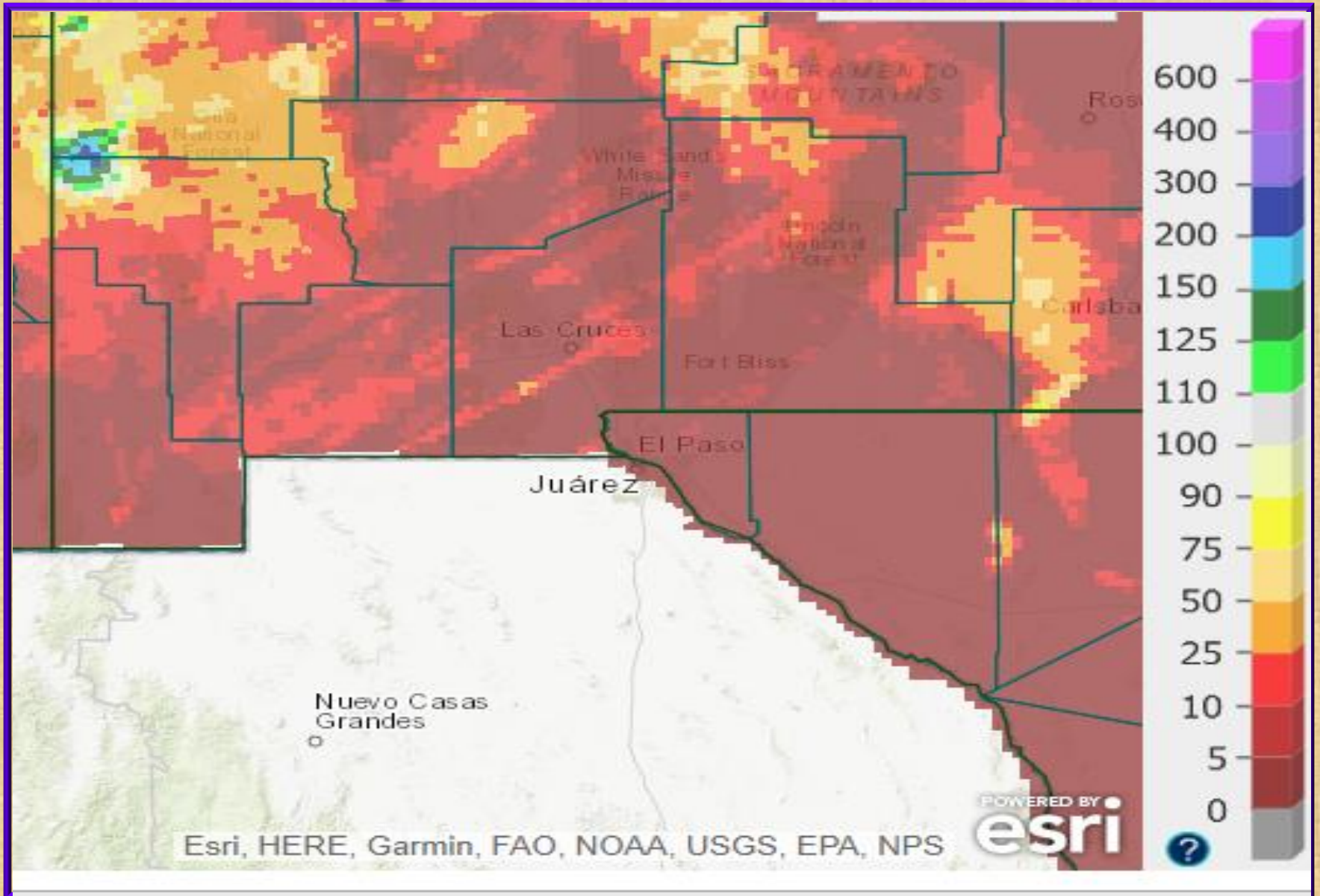
Inches



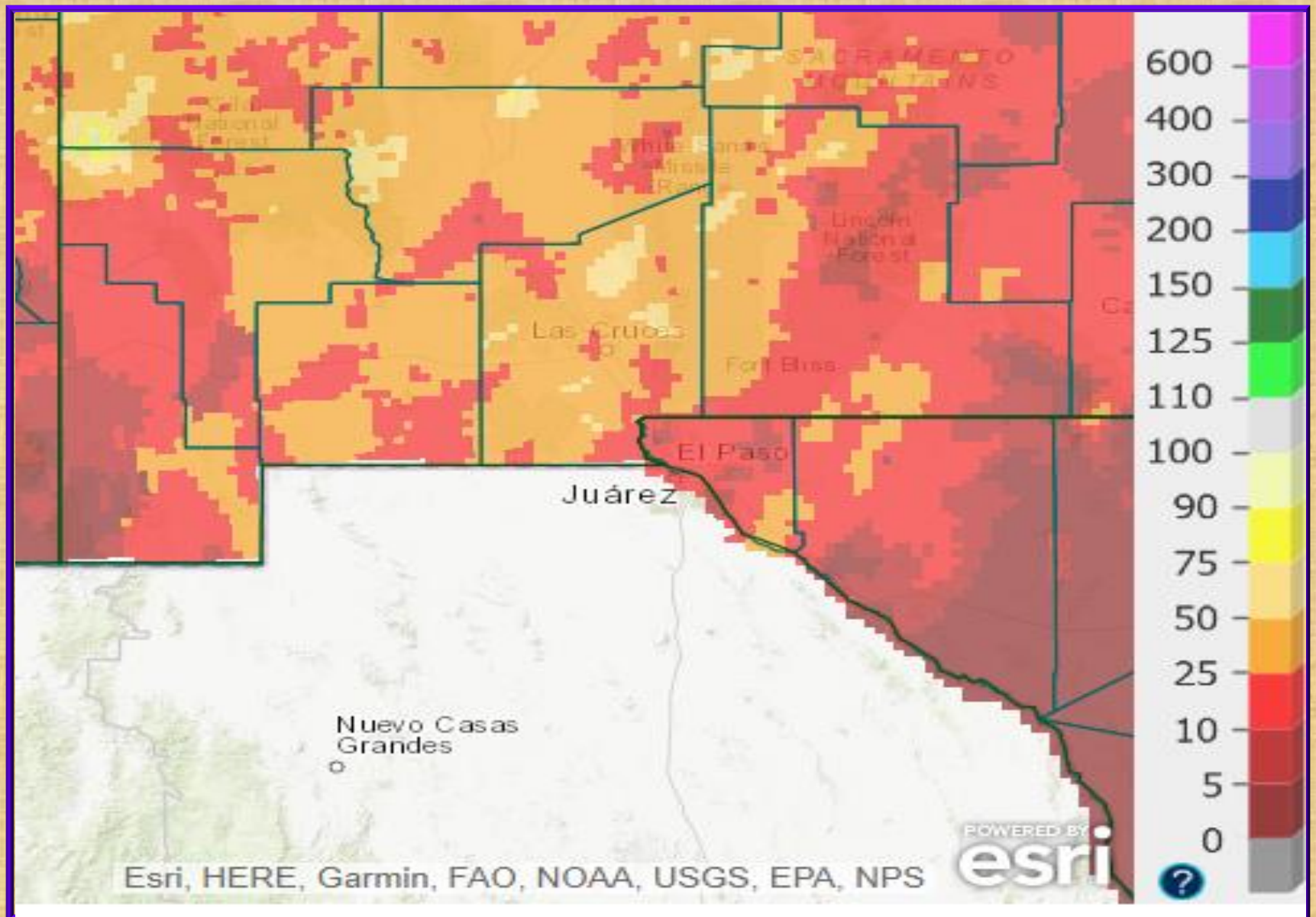
Created by the  
NWS Forecast Office  
El Paso, TX



# November 2020 radar rainfall estimate percent of normal



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

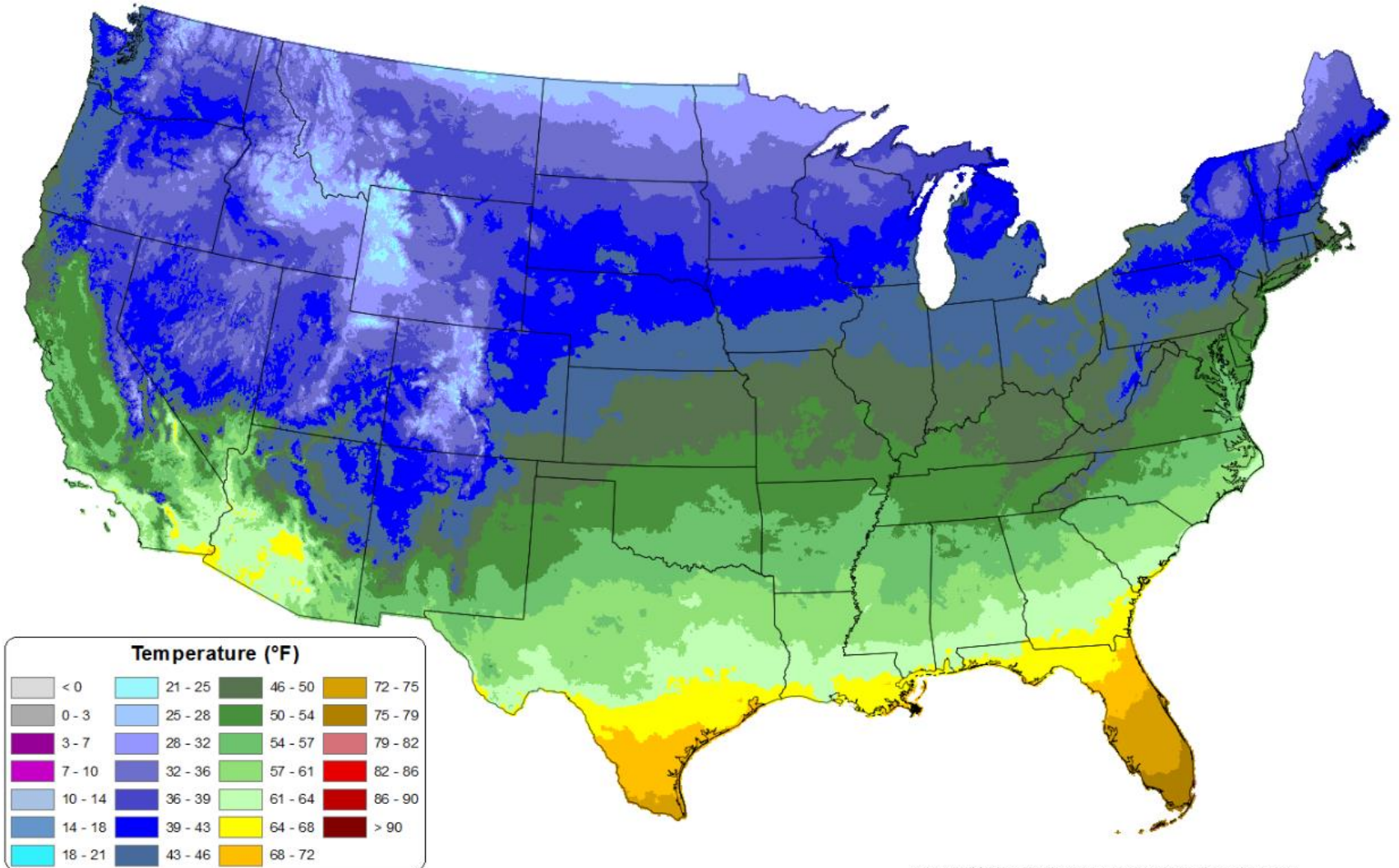


# Average Daily Mean Temperature for November 2020

Average Daily Mean Temperature: Nov 2020

Period ending 7 AM EST 30 Nov 2020

(Map created 02 Dec 2020)

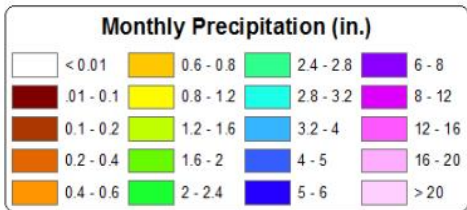
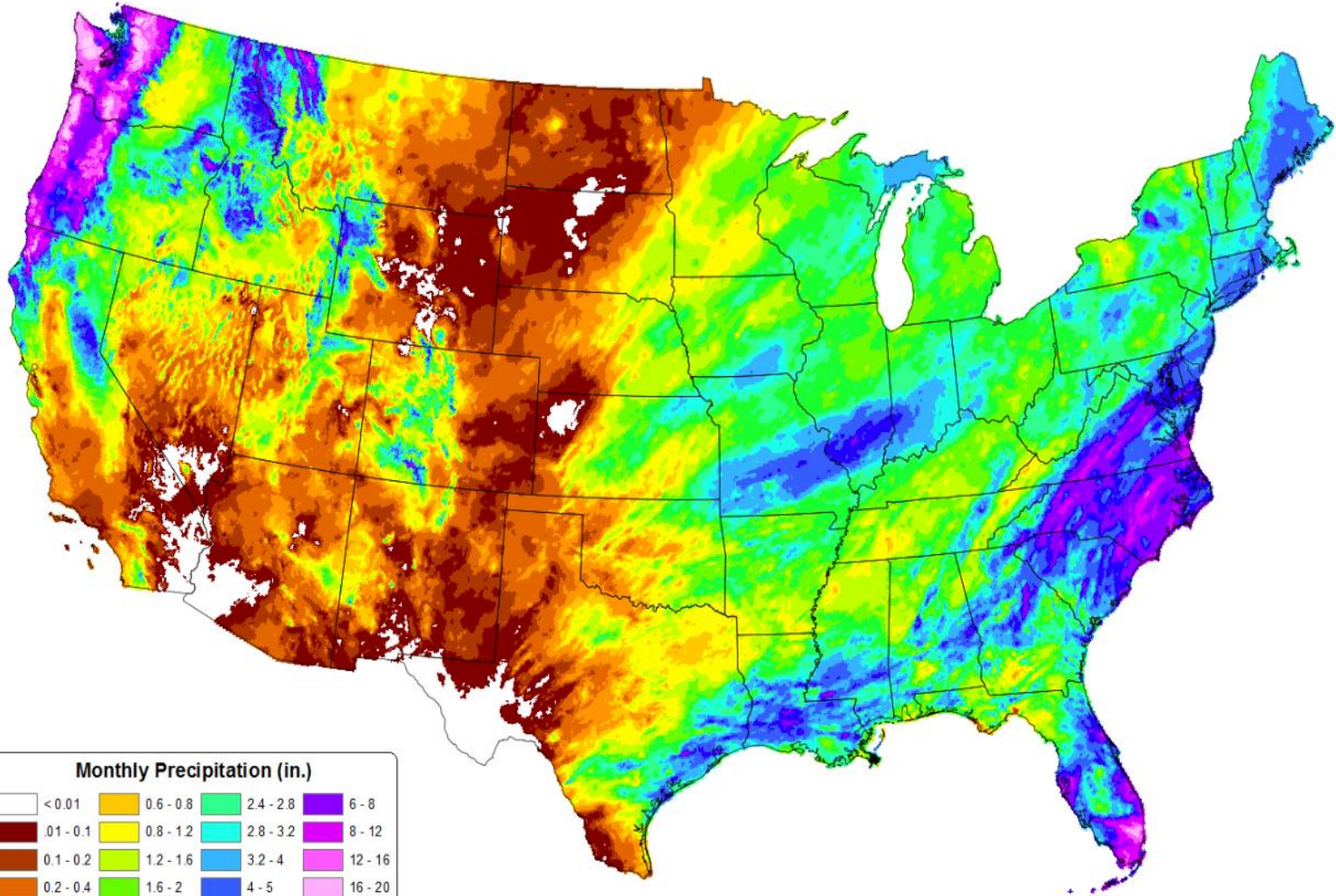




# Total Precipitation for November 2020

## Total Precipitation: Nov 2020

Period ending 30 Nov 2020  
(Map created 02 Dec 2020)



# Special Features

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

Month: NOVEMBER

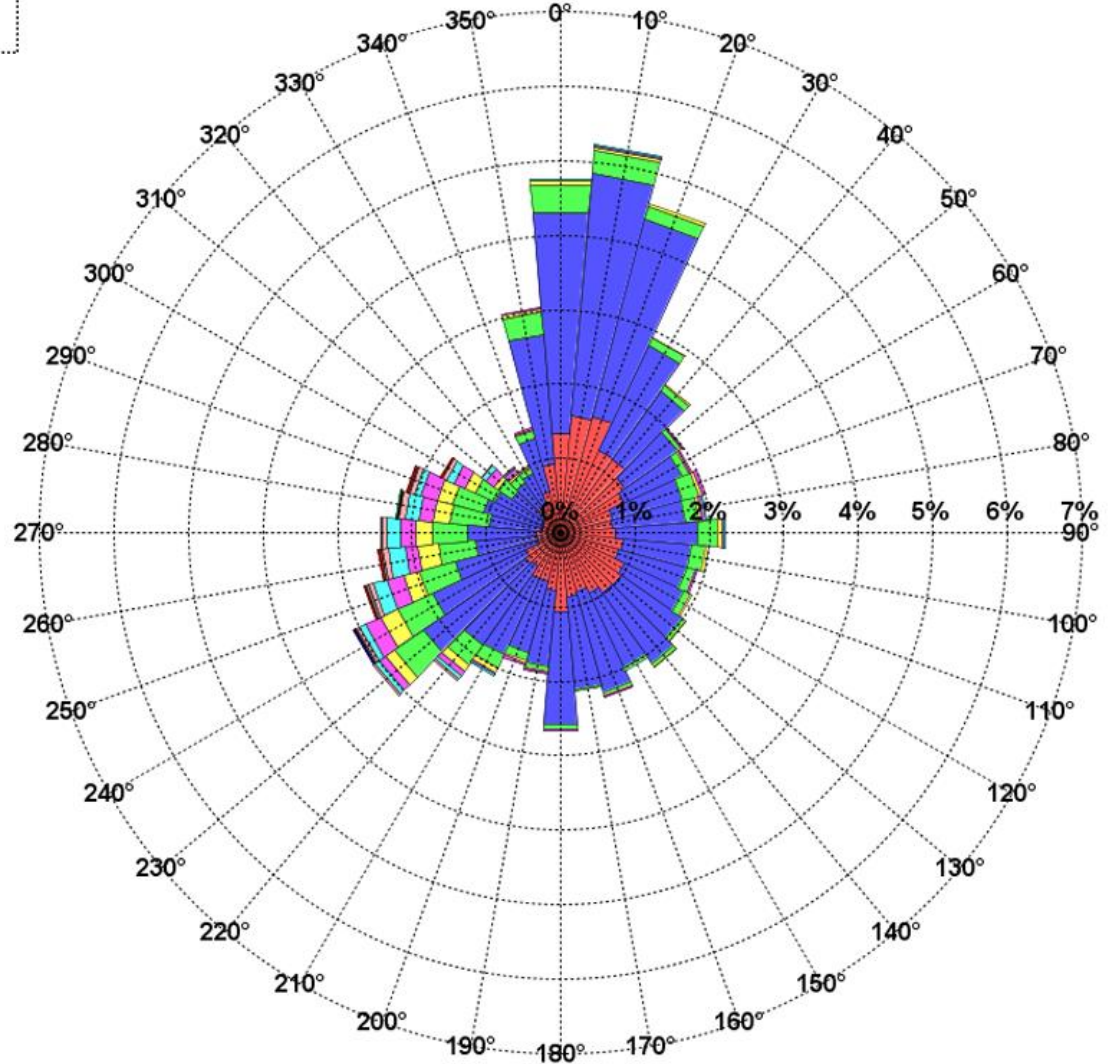
Calm: 12.23%

Variable: 2.30%

WindRose - KELP - EL PASO INTL

% Frequency of Wind Speed from a Direction

POR:19730101-20140602



# Selected weather reports November 2020

<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
NOVEMBER 14 1000 AM	ORGAN-DONA ANA	75 MPH PEAK WIND
NOVEMBER 14 1055 AM	WSMR MAIN POST-DONA ANA	55 MPH PEAK WIND
NOVEMBER 14 100 PM	LAS CRUCES W MESA-DONA ANA	48 MPH PEAK WIND
NOVEMBER 14 405 PM	EL PASO AIRPORT-EL PASO	45 MPH PEAK WIND
NOVEMBER 14 1031 AM	MAYHILL-OTERO	45 MPH PEAK WIND
NOVEMBER 14 1116 AM	DEMING AIRPORT-LUNA	41 MPH PEAK WIND
NOVEMBER 24 1050 AM	SAN AUGUSTIN PASS-DONA ANA	82 MPH PEAK WIND
NOVEMBER 24 746 AM	EL PASO NE-EL PASO	58 MPH PEAK WIND
NOVEMBER 24 1126 AM	DRIPPING SPRINGS-DONA ANA	54 MPH PEAK WIND
NOVEMBER 24 1240 AM	HACHITA VALLEY-HIDALGO	54 MPH PEAK WIND
NOVEMBER 24 335 AM	WSMR MAIN POST-DONA ANA	53 MPH PEAK WIND

# Selected weather reports November 2020

<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
NOVEMBER 24 1135 AM	LAS CRUCES AIRPORT-DONA ANA	48 MPH PEAK WIND
NOVEMBER 24 351 PM	EL PASO AIRPORT-EL APISO	47 MPH PEAK WIND
NOVEMBER 24 200 PM	CHAPARRAL-DONA ANA	46 MPH PEAK WIND
NOVEMBER 24 1159 AM	HIGH ROLLS-OTERO	46 MPH PEAK WIND
NOVEMBER 24 641 AM	MESCALERO-OTERO	44 MPH PEAK WIND
NOVEMBER 24 1053 AM	T OR C AIRPORT-SIERRAA	43 MPH PEAK WIND
NOVEMBER 24 146 PM	DELL CITY-HUDSPETH	43 MPH PEAK WIND
NOVEMBER 24 1030PM	MAYHILL-OTERO	41 MPH PEAK WIND
NOVEMBER 24 1259 PM	SANTA TERESA NWS-DON	40 MPH PEAK WIND

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

Enter Your City, ST or ZIP Code

Remember Me

[Privacy Policy](#)

**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 <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>	

**NWS DOPPLER RADAR  
WATCHING THE MONSOON SKIES  
OVER EL PASO 24/7**

