

October 2017 Weather Digest



October 2017 Weather Summary

October 2017 produced above normal temperatures, while precipitation was quite below normal in most areas except for around the mountains. Despite a fairly dry October, cumulative precipitation for the year remained at 7% above normal for El Paso, Texas.

A neutral ENSO pattern is slowly making a transition into a La Nina Pattern over the Pacific ocean this fall. The upper pattern favored a dominant, fairly strong high pressure system over the western United States, with fairly dry northwest flow aloft. This resulted in quite a few cold fronts moving in from the east (what we call back door fronts). A few of the stronger cold fronts moved in on the 10th (about 15 degree drop), 24th (10-15 degree drop), and the 27th (15-20 degree drop).

Our summer monsoon season in Southern new Mexico and far west Texas is traditionally flanked on both sides (late Spring and early Fall) by a higher potential for severe thunderstorms. This year was no exception when on Oct 19, Hillsboro reported hail to size of 1.75 inches in diameter.

October 2017 Weather Summary(Contd)

Looking ahead to November, the monthly outlook is for a good chance of drier than normal, and a decent chance of below normal precipitation. This is pretty typical of La Nina weather patterns, and indeed the official winter outlook for our area reflects these same tendencies (above normal temperatures, below normal precipitation). November sees the largest month change in normal high temperatures. El Paso decreases from an average high of 72 degrees on the 1st, to an average high of 60 degrees on the 30th.

November is when the lowland areas see their first freeze of the season, and quite often will see a bit of snow, at least near the end of the month.

Near Lordsburg Oct 8



Near Lordsburg Oct 8



Near Lordsburg Oct 9



Mexican Bats Oct 17



Deming Oct 19



I-10 Westbound View MP-11. 2017-10-08 MDT 15:23:03

Playa Dust near Lordsburg Oct 8

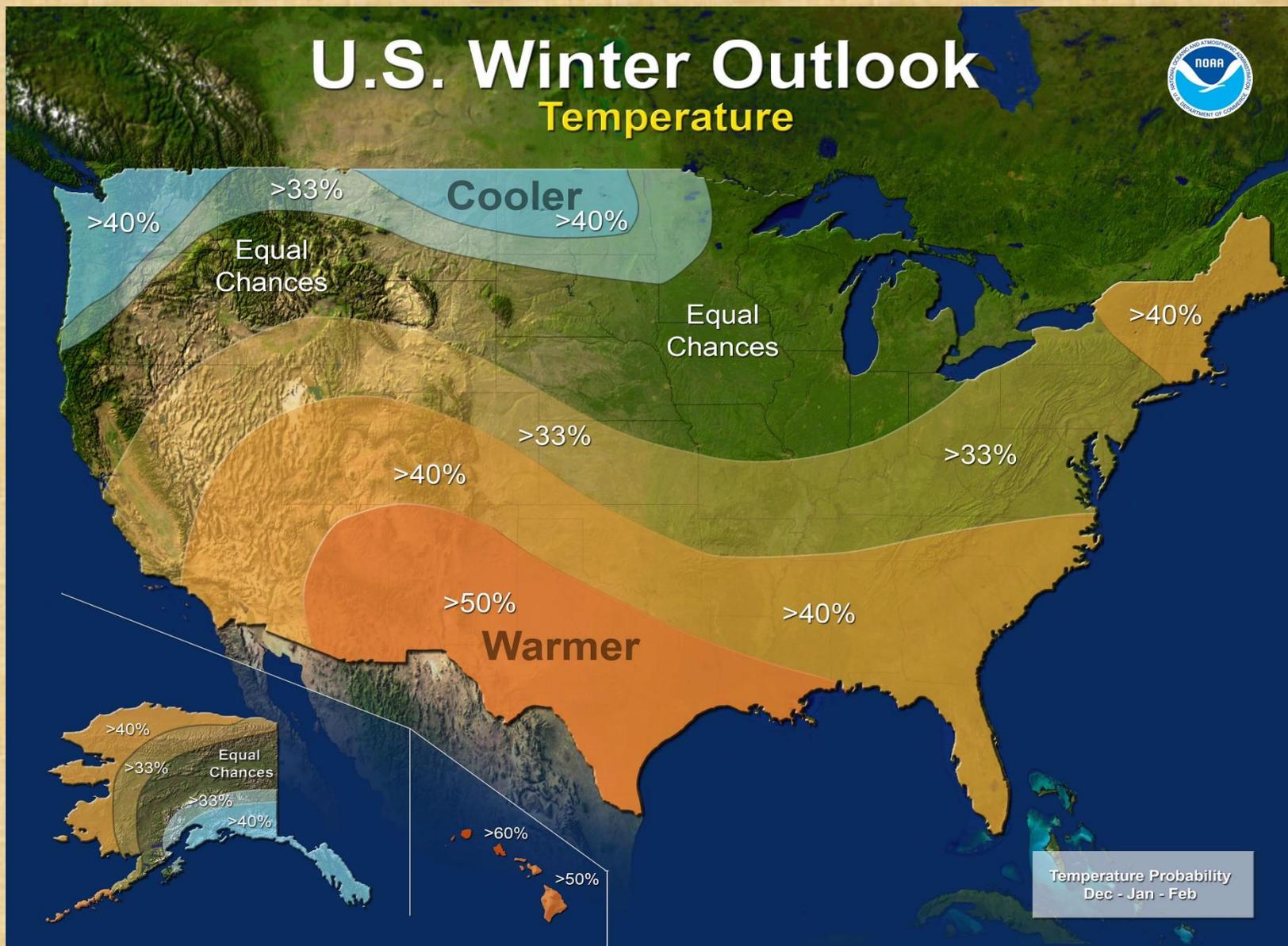


The NWS at Santa Teresa hosted the NMSU Ozone study this summer into October many of their Ozone radiosonde launches into the Atmosphere.



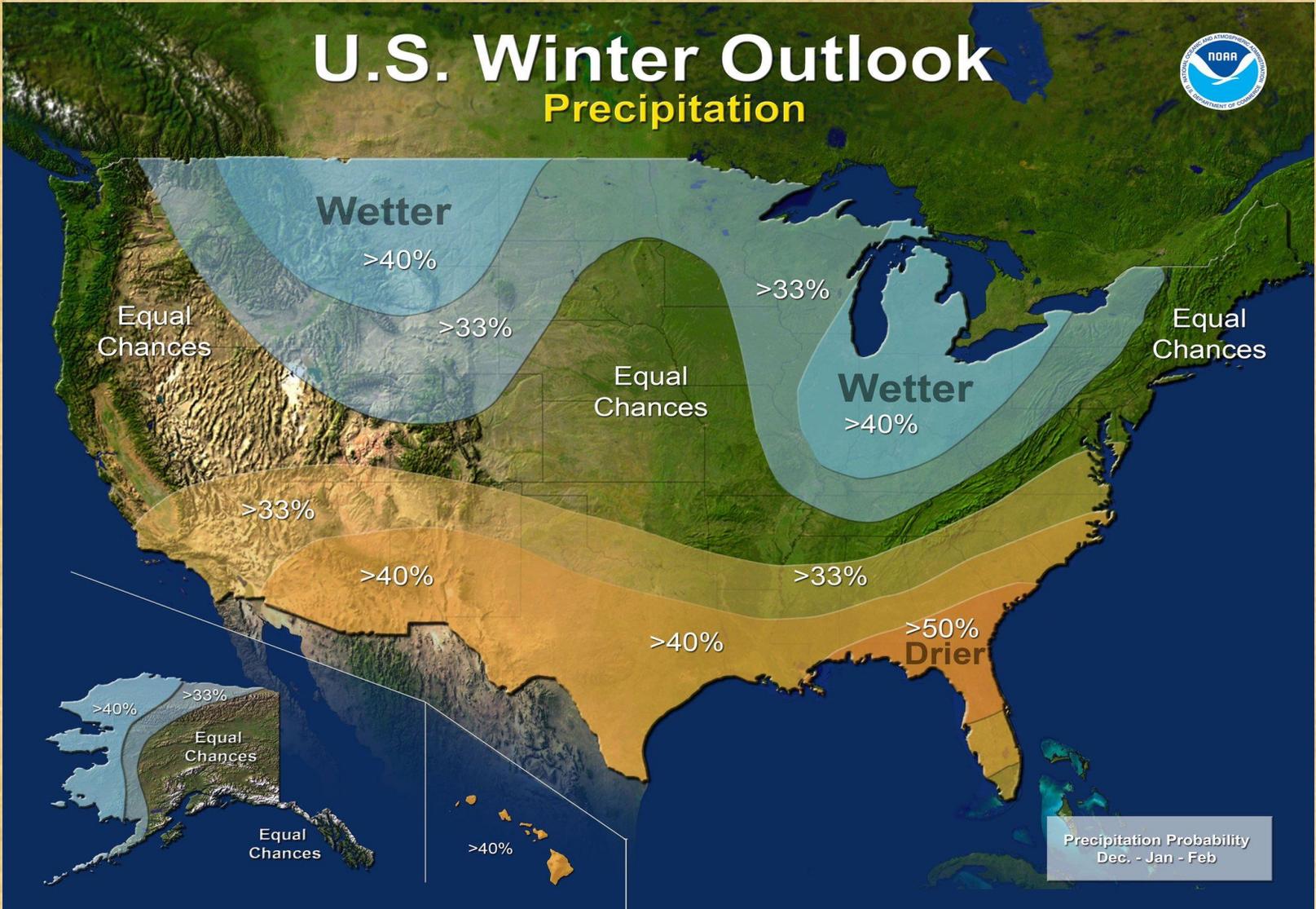
Winter Outlook for Temperatures

Good chance above normal temperatures



Winter Outlook for Precipitation

Slight chance below normal precipitation

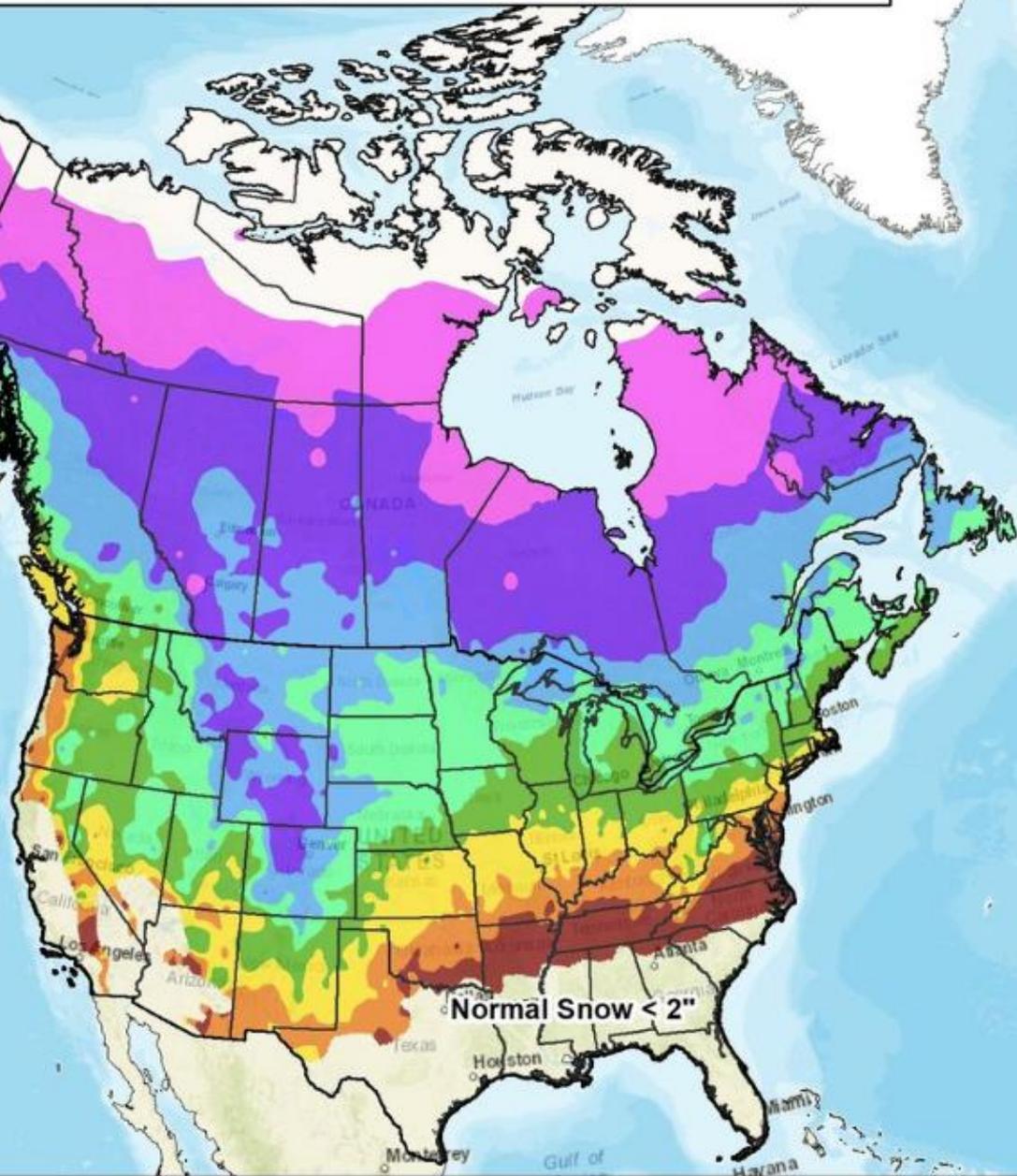


Median Date of the First Measurable Snowfall



Source: GHCN-D
Min 20 years between
1978 and 2017
n=4,367
[Does not include
mountain peaks]

© Brian Brettschneider



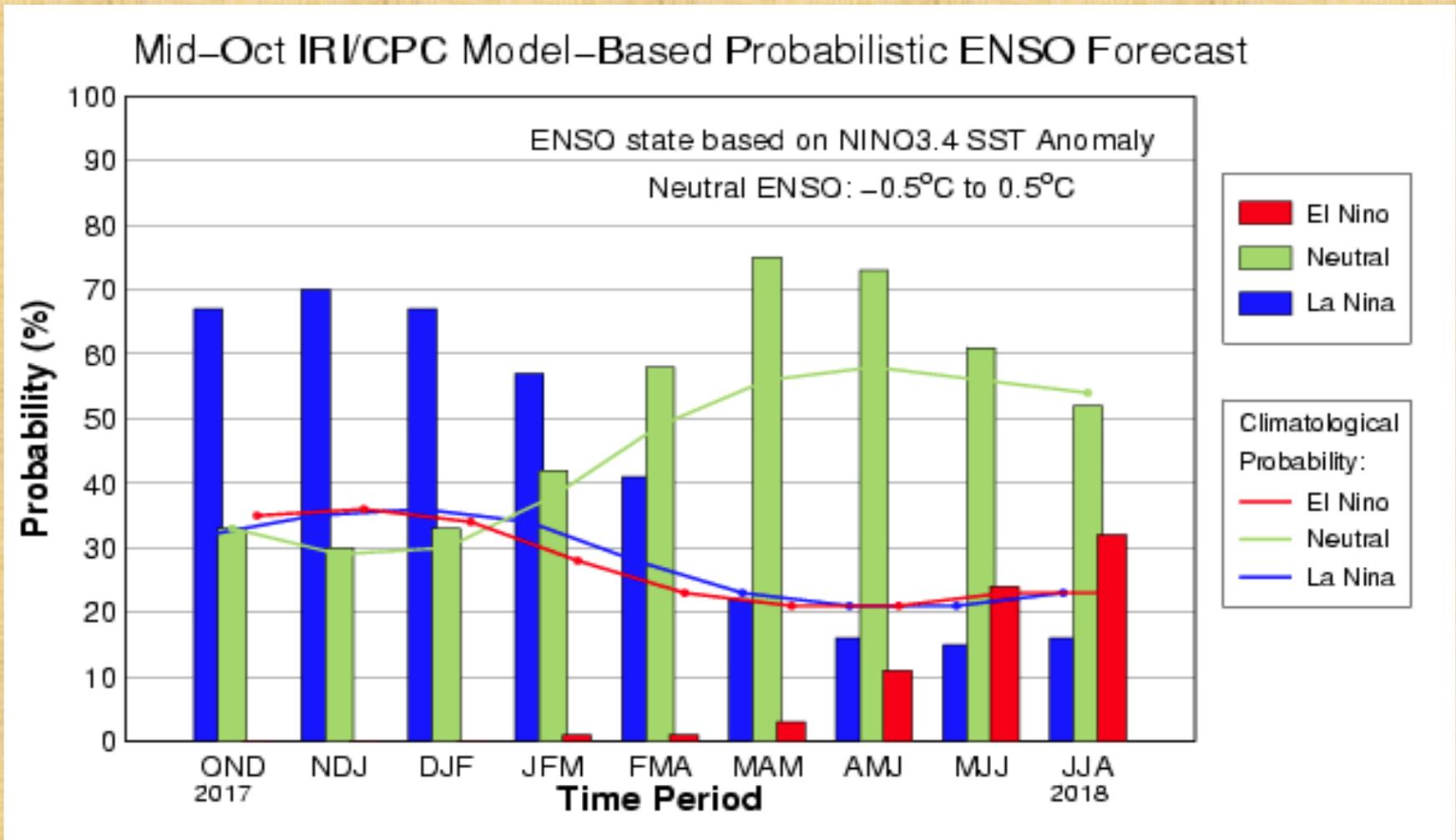
La Niña Watch in Effect

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 from October into Summer of 2018

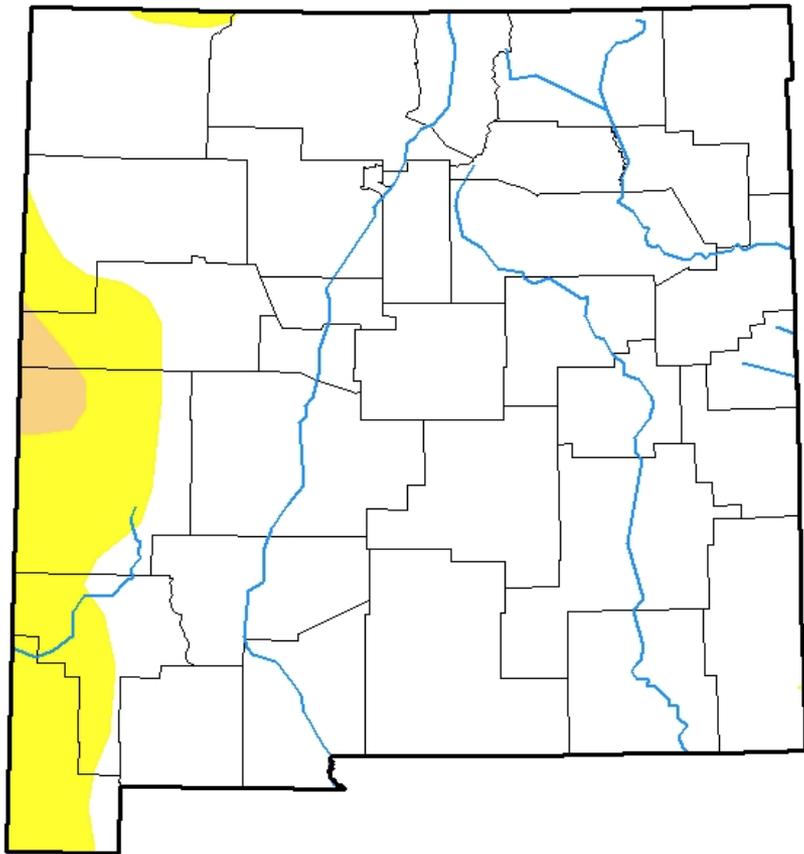
ENSO IS NOW NEUTRAL BUT HEADED FOR WEAK LA NIÑA THROUGH LATE WINTER; THEN LIKELY BACK TO NEUTRAL BY EARLY SUMMER



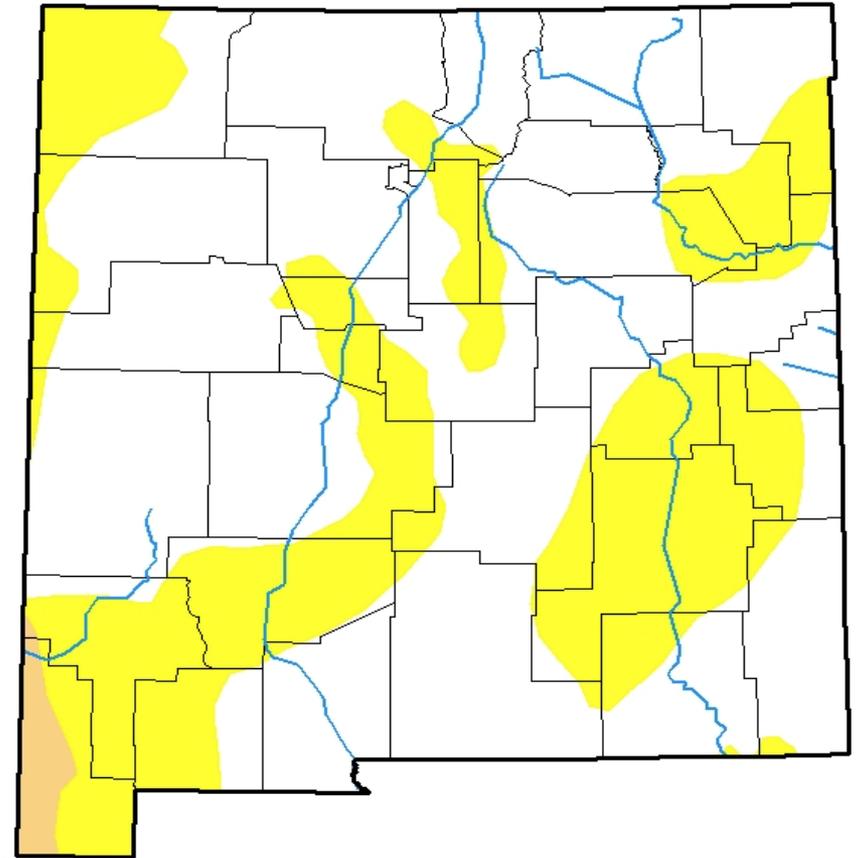
Current drought conditions for New Mexico and 3 month change

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

October 24, 2017



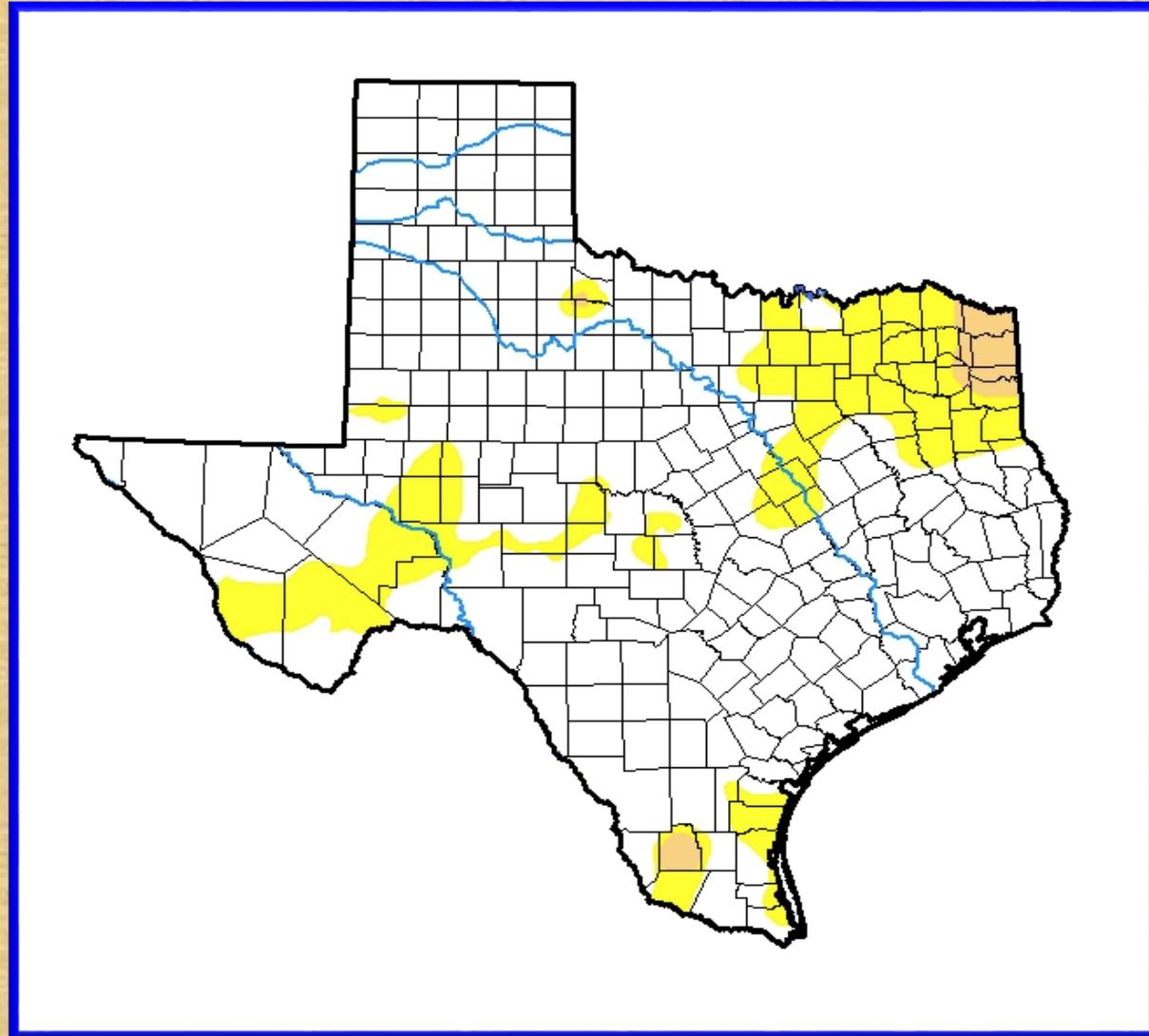
July 25, 2017



Current drought conditions for Texas as of October 24, 2017

Intensity:

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



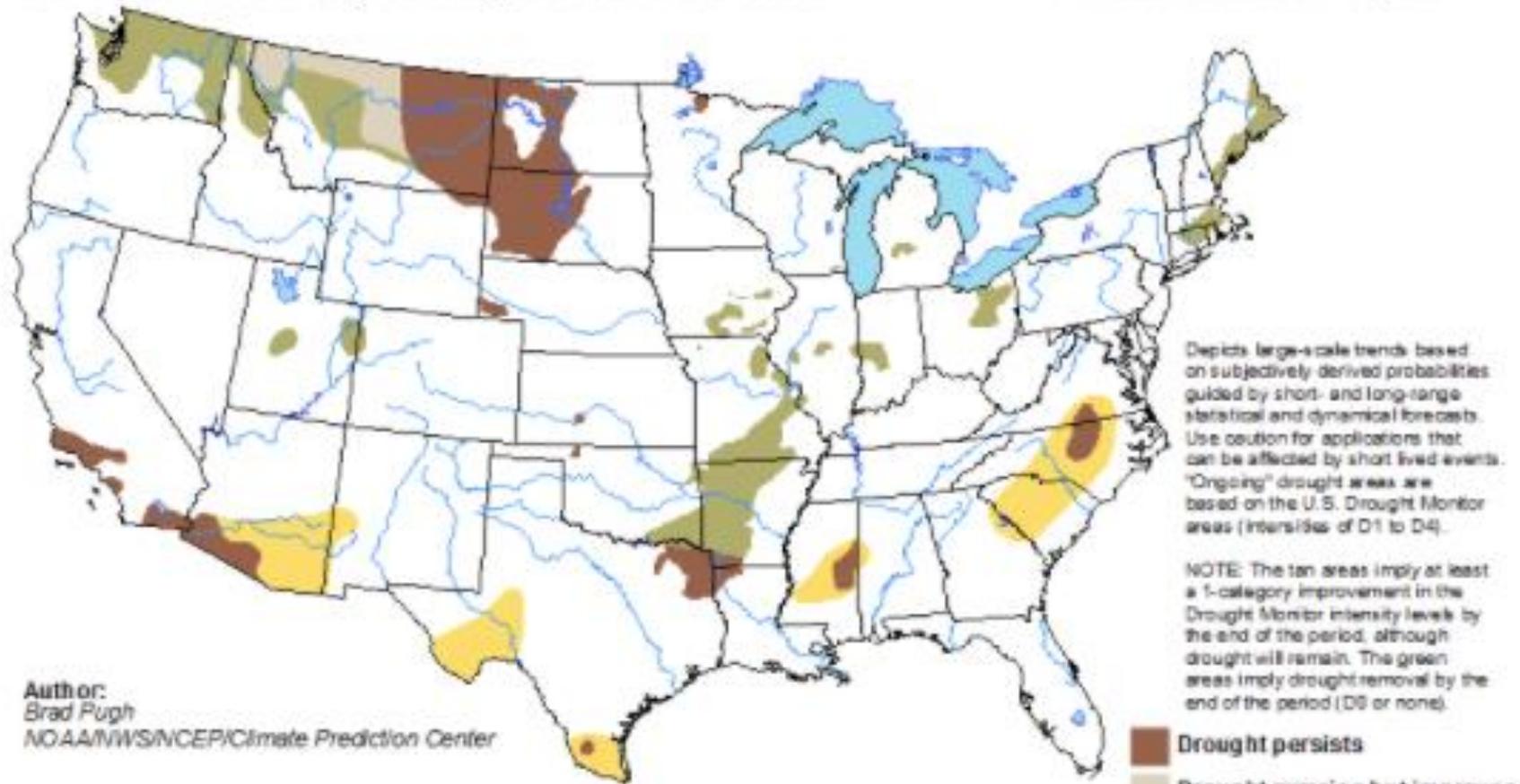
Build your own custom slider maps here at:

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

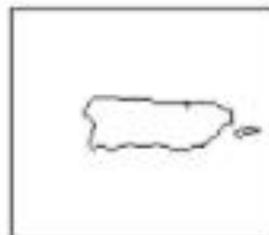
U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for October 19 - January 31, 2018
Released October 19, 2017



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

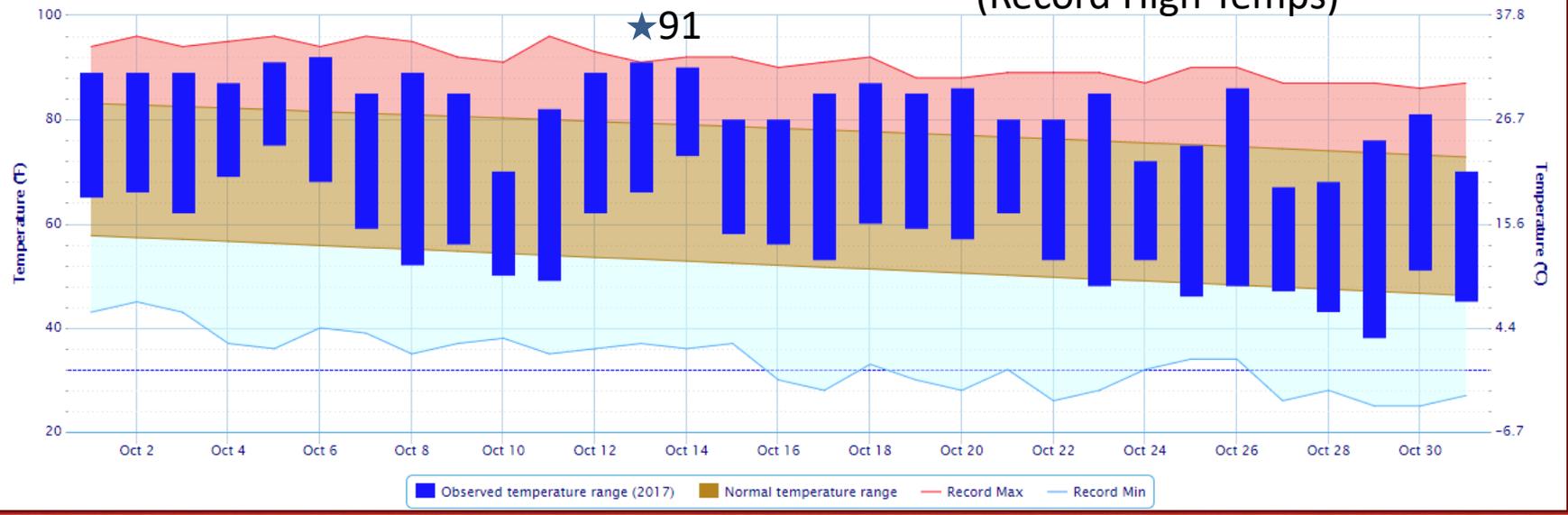


<http://go.usa.gov/3eZ73>

Temperature and precipitation data for October 2017 in El Paso

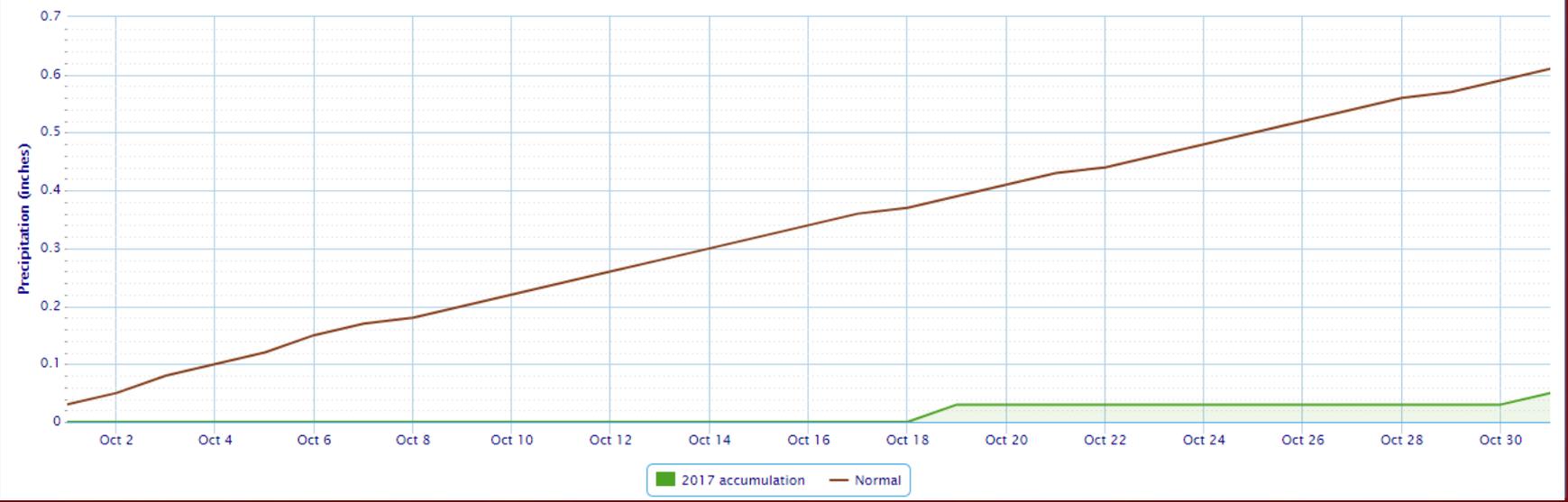
Daily Temperature Data - El Paso Area, TX (ThreadEx)

Period of Record - Max temperature: 1887-01-01 to 2017-10-31; Min temperature: 1879-01-01 to 2017-10-31 (Record High Temps)

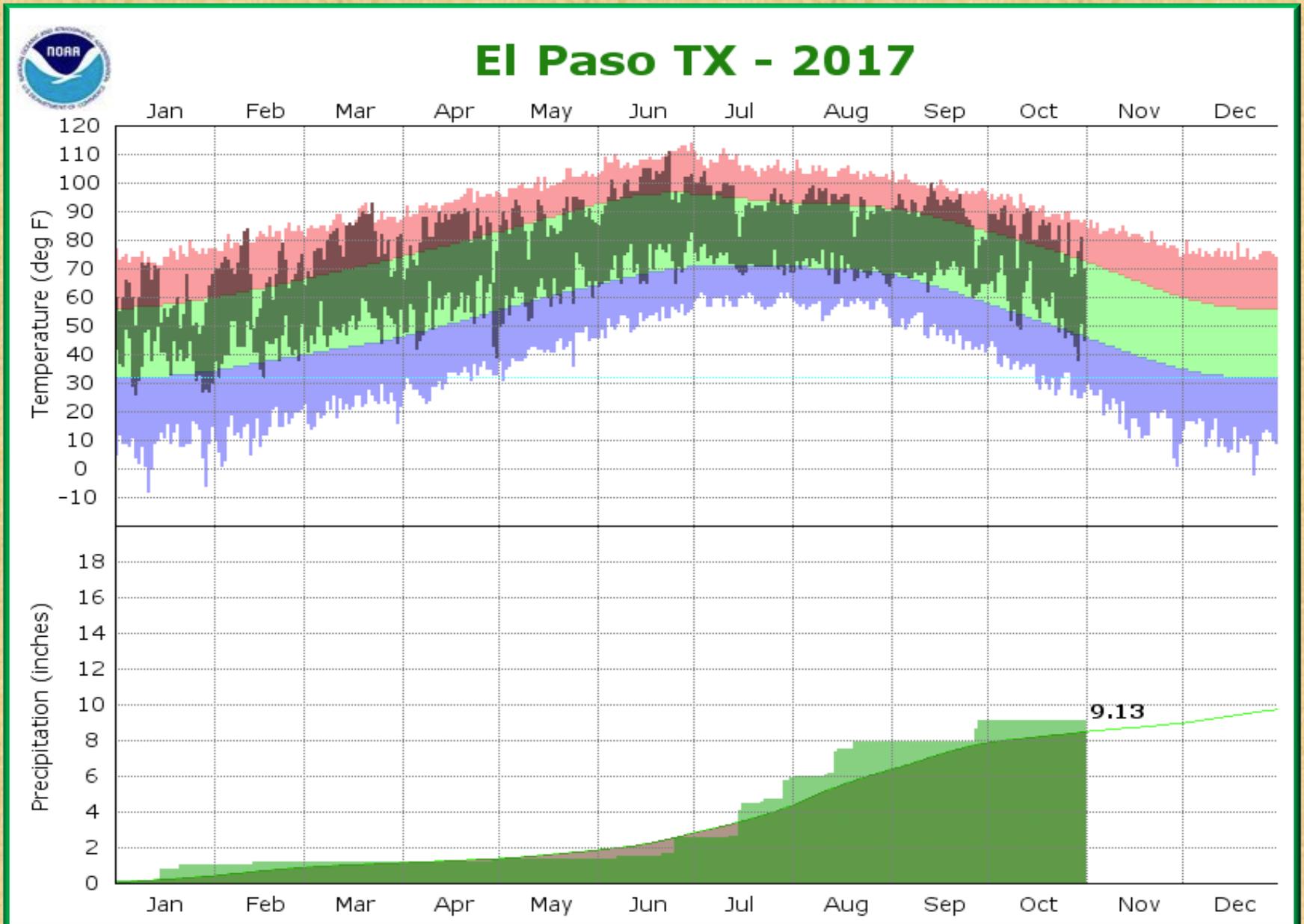


Accumulated Precipitation - El Paso Area, TX (ThreadEx)

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



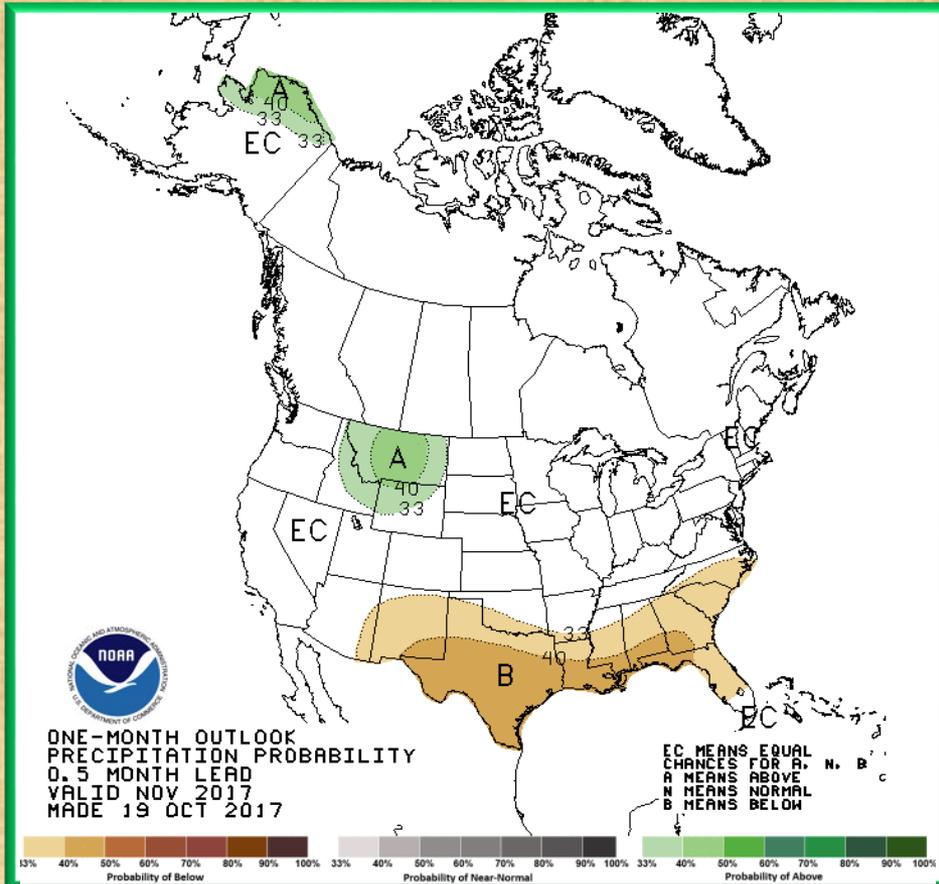
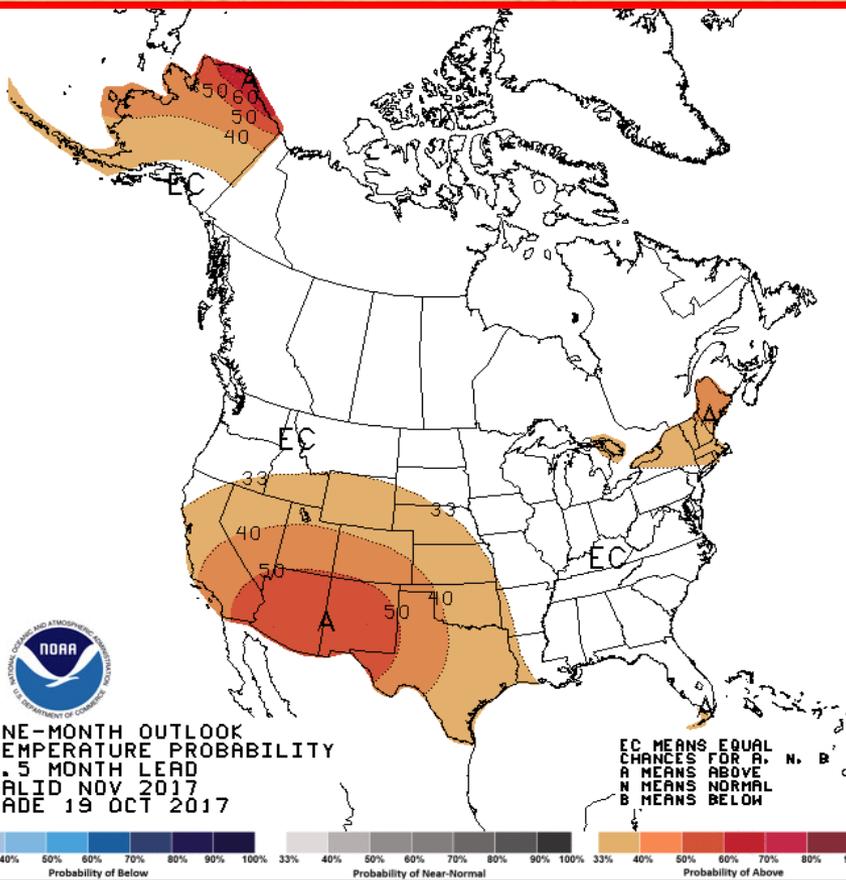
2017 year-to-date temperature and precipitation data El Paso



Temperature and precipitation outlook for November 2017

Temperature

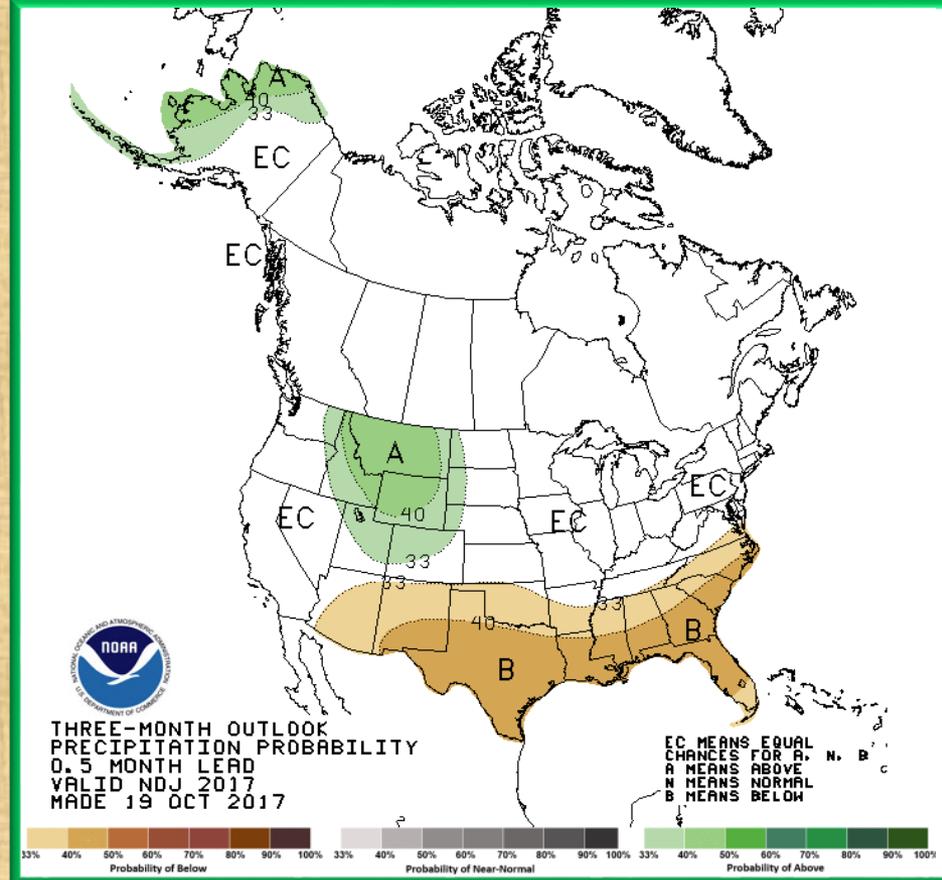
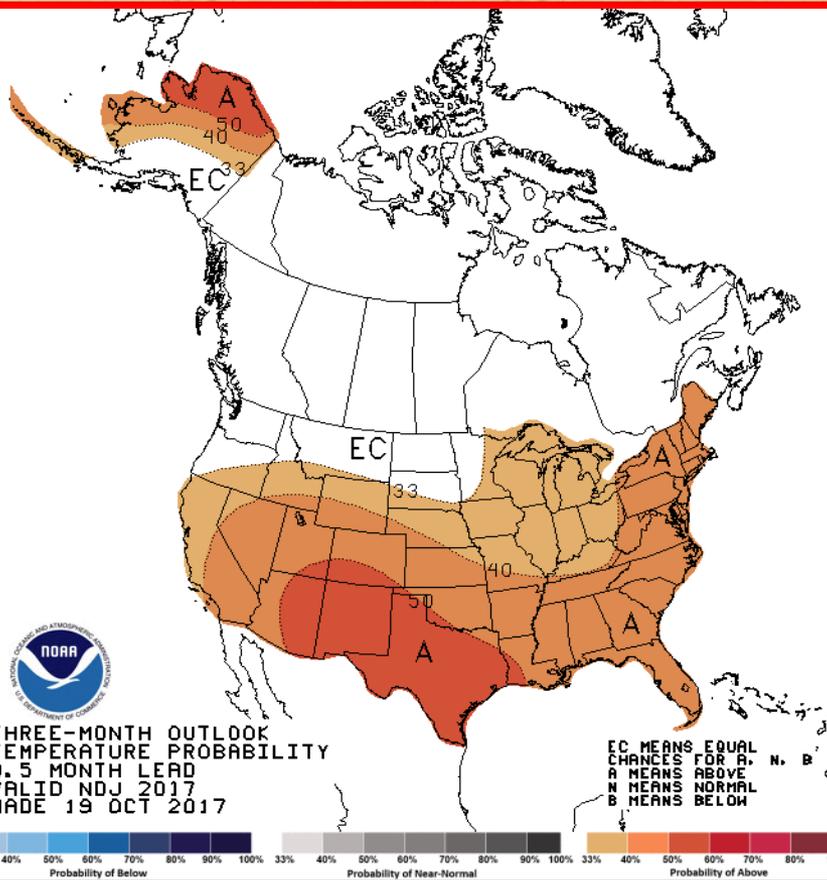
Precipitation



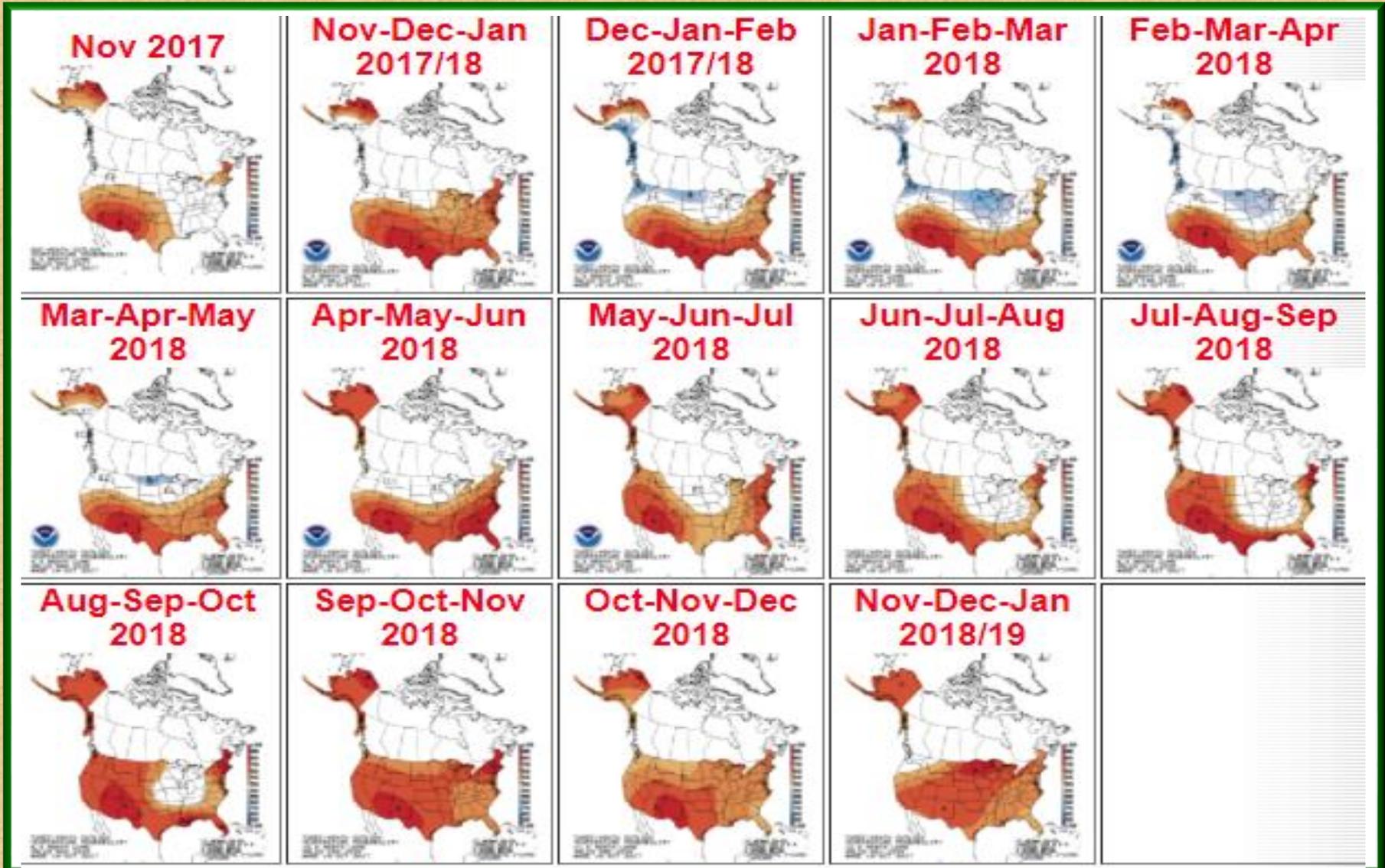
Temperature and precipitation outlook For November-January 2017-2018

Temperature

Precipitation

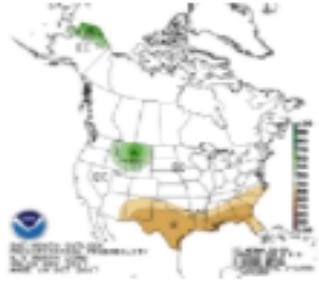


Temperature Outlook Through January 2019

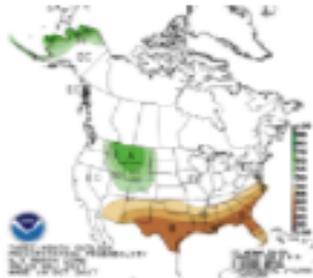


Precipitation Outlook Through January 2019

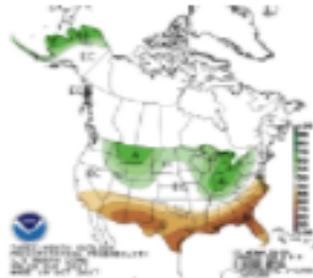
Nov 2017



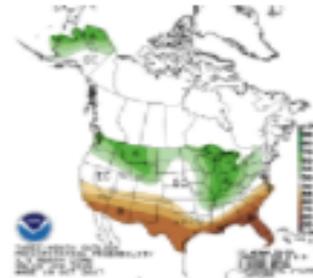
**Nov-Dec-Jan
2017/18**



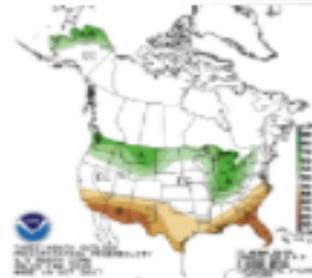
**Dec-Jan-Feb
2017/18**



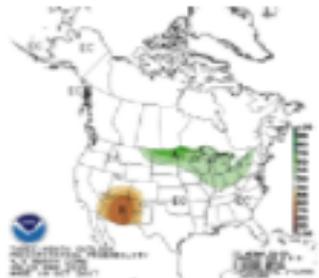
**Jan-Feb-Mar
2018**



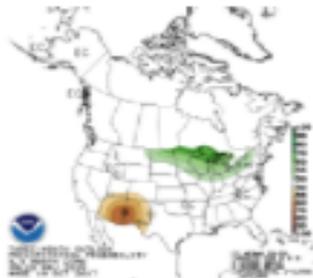
**Feb-Mar-Apr
2018**



**Mar-Apr-May
2018**



**Apr-May-Jun
2018**



**May-Jun-Jul
2018**



**Jun-Jul-Aug
2018**



**Jul-Aug-Sep
2018**



**Aug-Sep-Oct
2018**



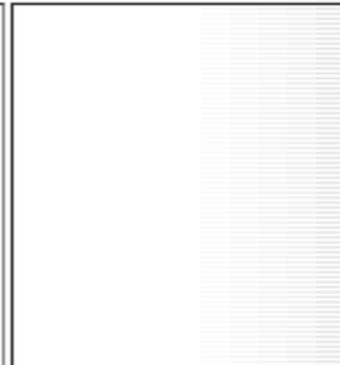
**Sep-Oct-Nov
2018**



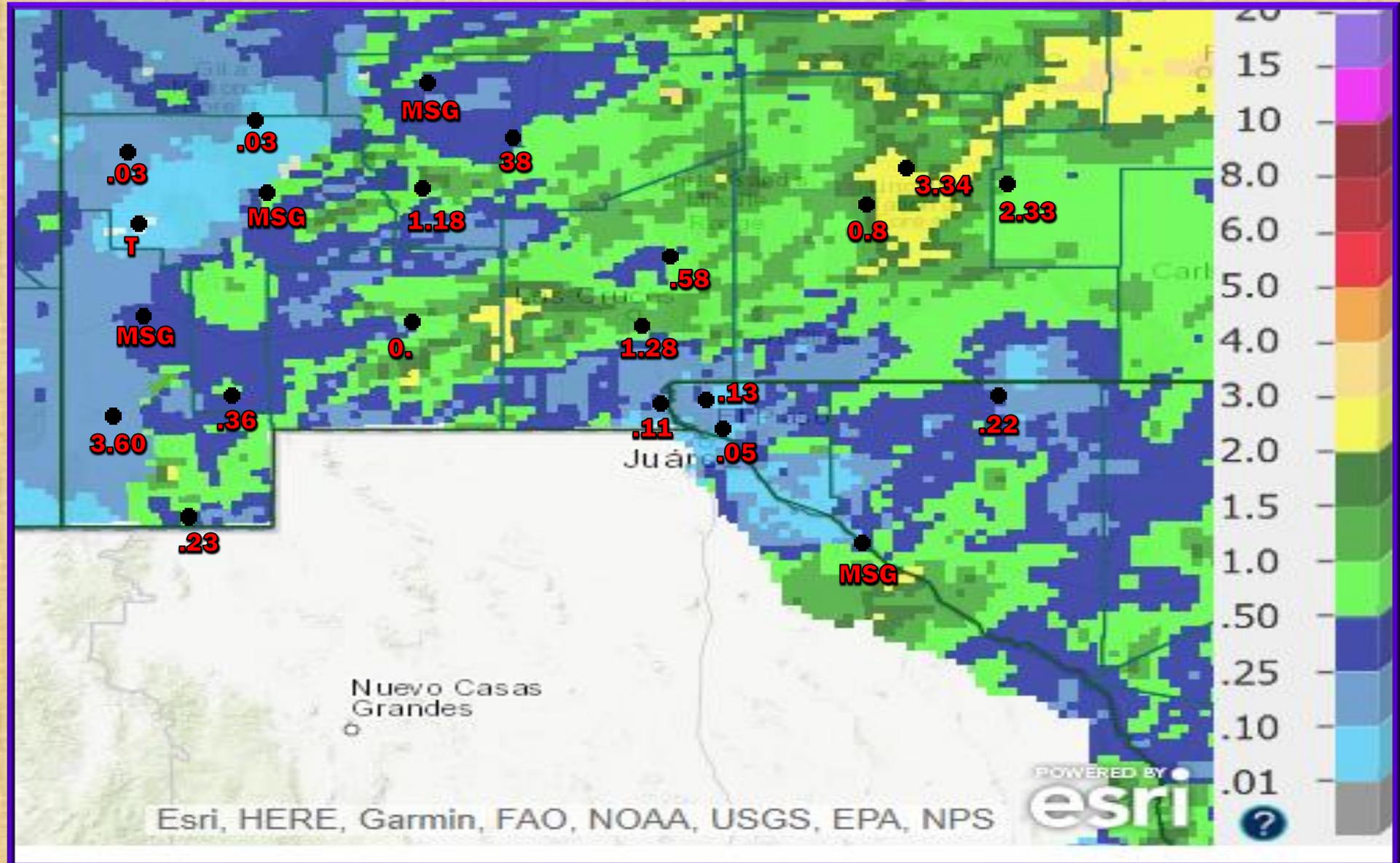
**Oct-Nov-Dec
2018**



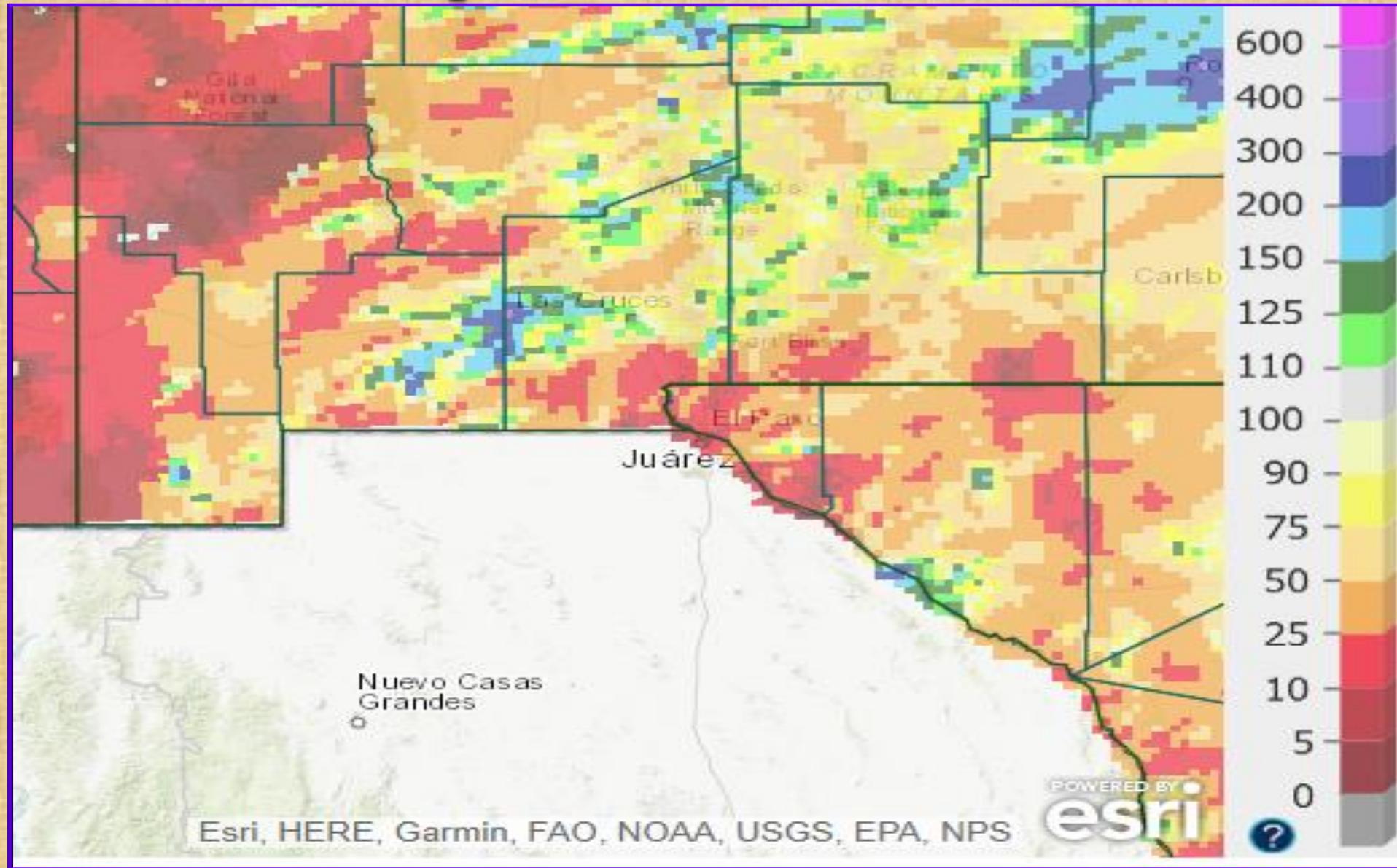
**Nov-Dec-Jan
2018/19**



October 2017 radar rainfall estimate with surface rainfall reports

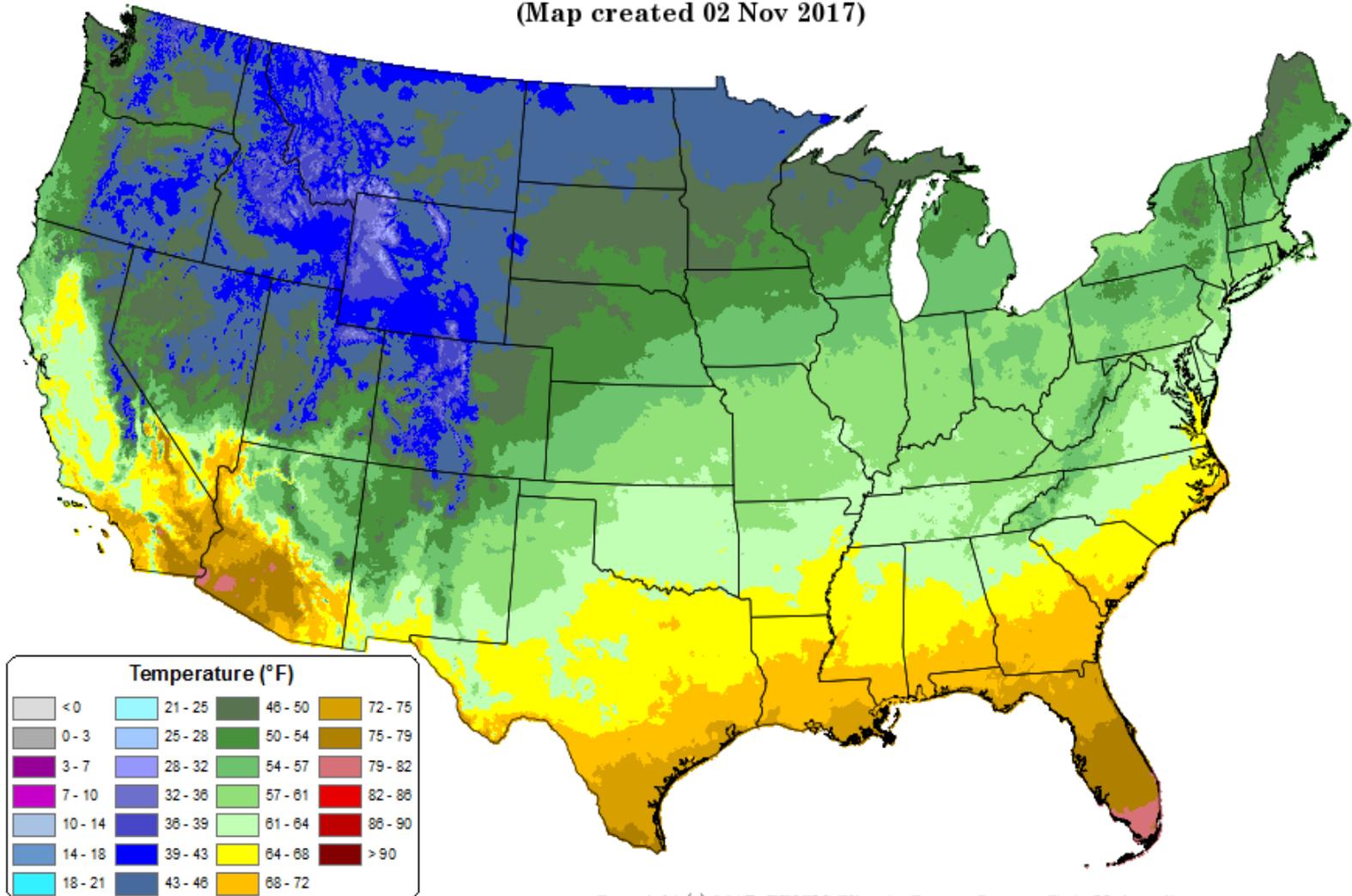


October 2017 radar rainfall estimate percent of normal



Average Daily Mean Temperature for October 2017

Average Daily Mean Temperature: October 2017
Period ending 7 AM EST 31 Oct 2017
(Map created 02 Nov 2017)

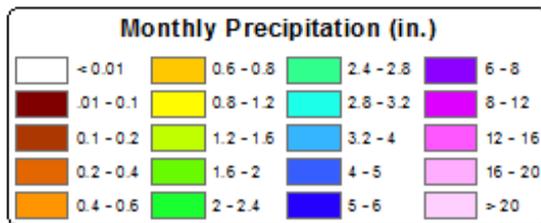
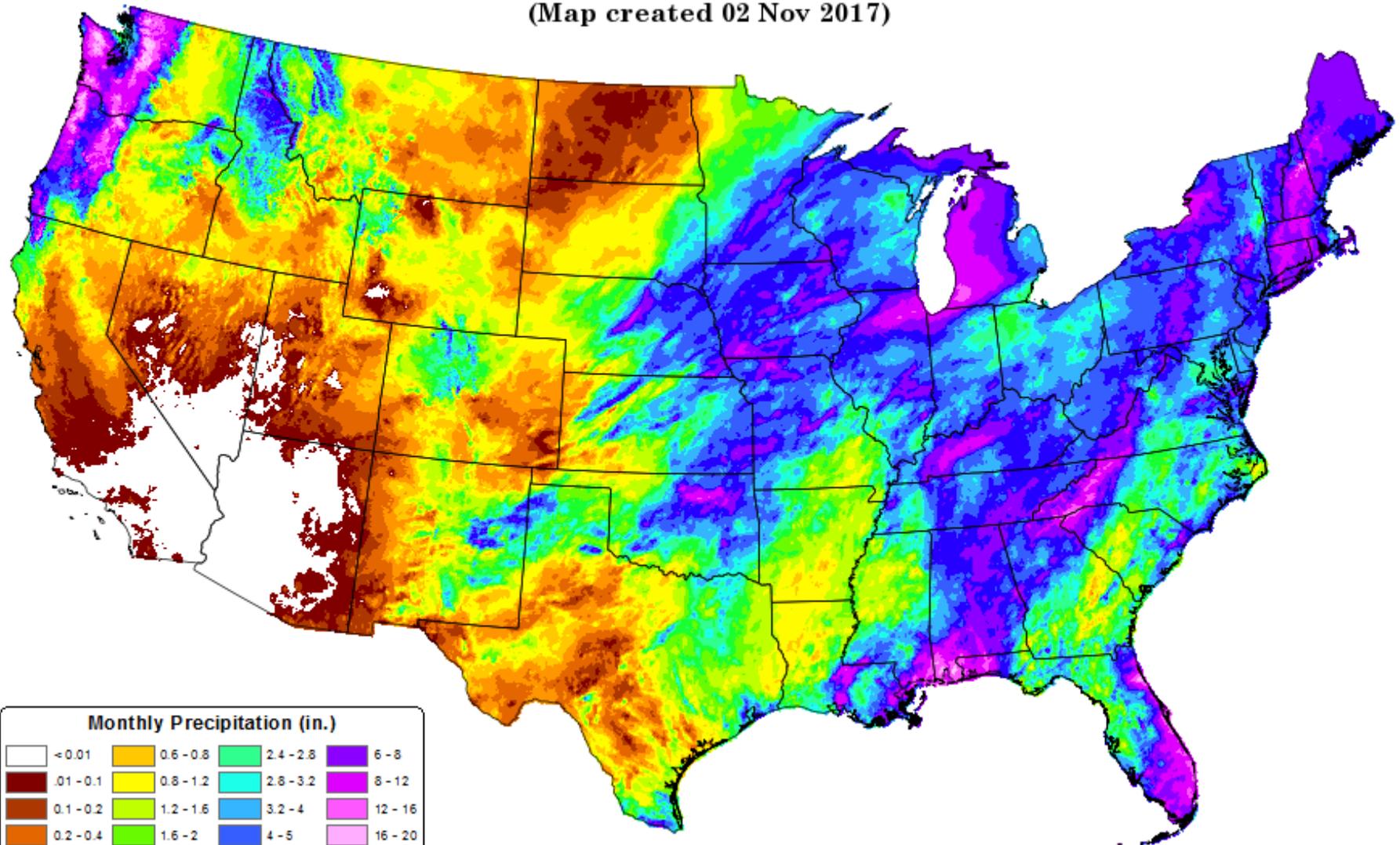


Total Precipitation for October 2017

Total Precipitation: October 2017

Period ending 31 Oct 2017

(Map created 02 Nov 2017)



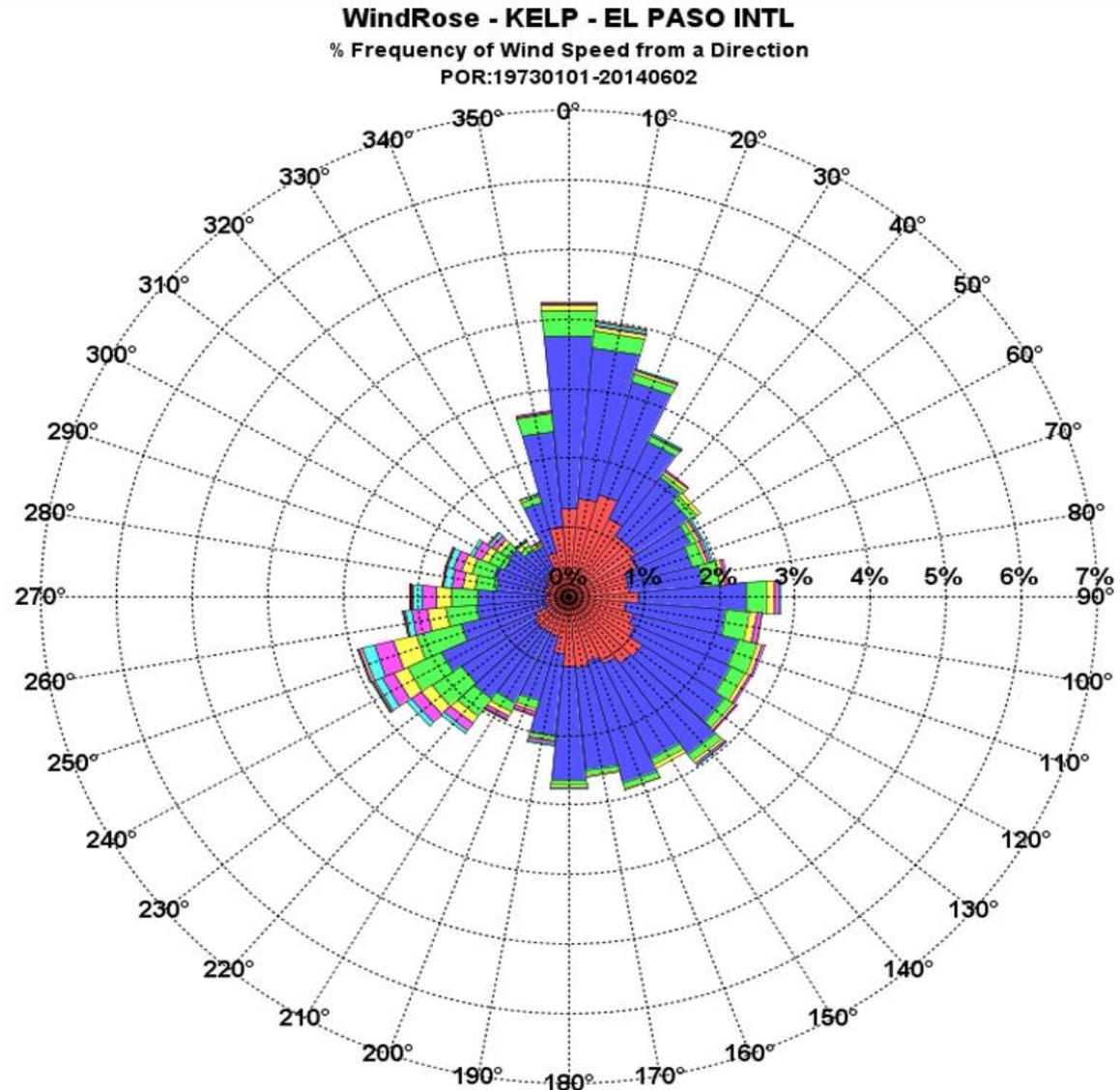
Special Features

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

Month: OCTOBER

Calm: 12.23%

Variable: 2.30%



Selected weather reports October 2017

Date/Time	Location (County)	Event
10/04/2017 900 PM	ANIMAS 3 ESE-HIDALGO	3.60 INCHES HEAVY RAIN
10/19/2017 149 PM	HILLSBORO-SIERRA	1.75 INCH HAIL



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Photo Credit: John Fausett

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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[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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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 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 <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.gov/epz](#)

OCTOBER SKIES OVER THE BORDERLAND

