

# June 2019 Weather Digest



*Mark Capurso*

# June 2019 Weather Summary

Overall, June turned out to be rather ordinary, with most sites reporting average temperatures within a degree of normal; while toward the very end of the month the summer monsoon pattern began to set up. The month started out with a bang, as an upper low pressure system remained nearly stationary just west of New Mexico. This allowed east winds near the surface to bring in moisture and fire off thunderstorms. Several severe storms developed and a small tornado occurred over northern Alamogordo on June 4<sup>th</sup>, with some damage reported. A possible tornado also formed north of Dell City on the 2<sup>nd</sup> according to Weather Service radar, but remained unconfirmed.

Much of the month saw above normal temperatures, but on the 10<sup>th</sup> a cold front swept through, ushering in couple of days of “cold” temperatures. Several sites, El Paso and Santa Teresa among them, set daily records for coolest high temperature. Both sites recorded 72 degrees on the 10<sup>th</sup> for the daily high.

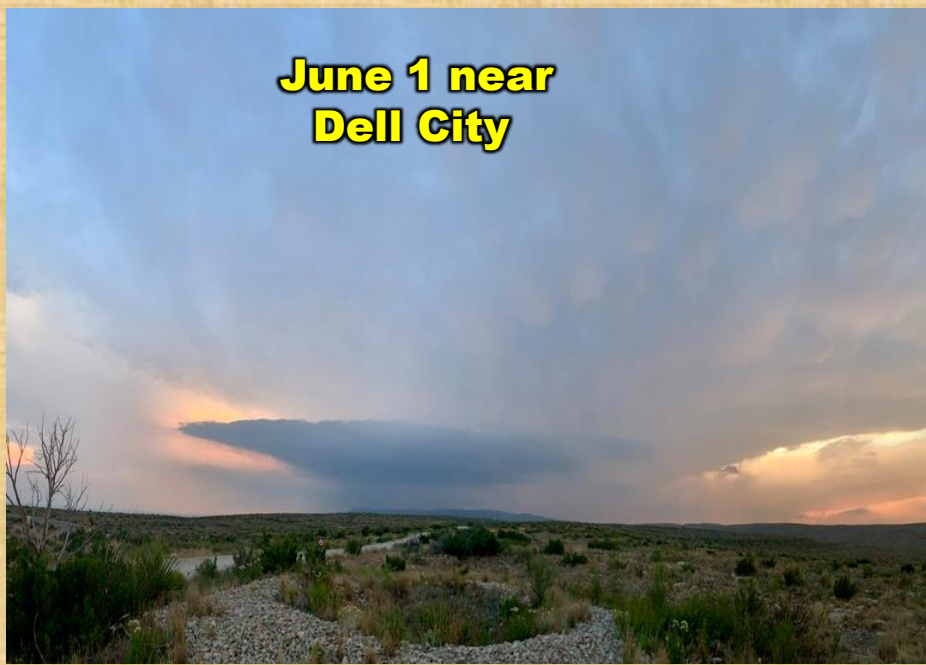
As for rainfall, much of the lowlands finished at or just slightly below normal, while the much of the mountain areas were significantly below normal, especially the Gila and Black Range areas of southwestern New Mexico.



# June 2019 Weather Summary cont'd.

Looking ahead to July, the month begins a very slow downward trend of daylight as we are now well past the summer solstice. The month starts out with 14 hours and 11 minutes of daylight and finishes the month 13 hours and 42 minutes of daylight. As for astronomical delights, most of the world will see a Lunar Eclipse on July 16<sup>th</sup>. However only right along the east coast will anybody in the U.S. be able to partially see the eclipse. There is also a Solar Eclipse on the 2<sup>nd</sup>, but only South America will be able to see that. The full moon for the month will occur on July 16<sup>th</sup>.

**June 1 near  
Dell City**



**June 2 Thunderstorm  
near Timberon**



**June 4 Thunderstorm  
El Paso**



**June 10 Thunderstorm  
Las Cruces**



**June 3  
Florida Mtns**



**June 3  
Haboob Las Cruces**



**June 10 Fog  
Transmountain Pass**



**June 10 Fog  
Transmountain Pass**





**June 13 Lightning El Paso**



**June 13 SW Park El Paso**



**June 26 Indian Peak Fire**



**June 21 Pine Lodge Fire**



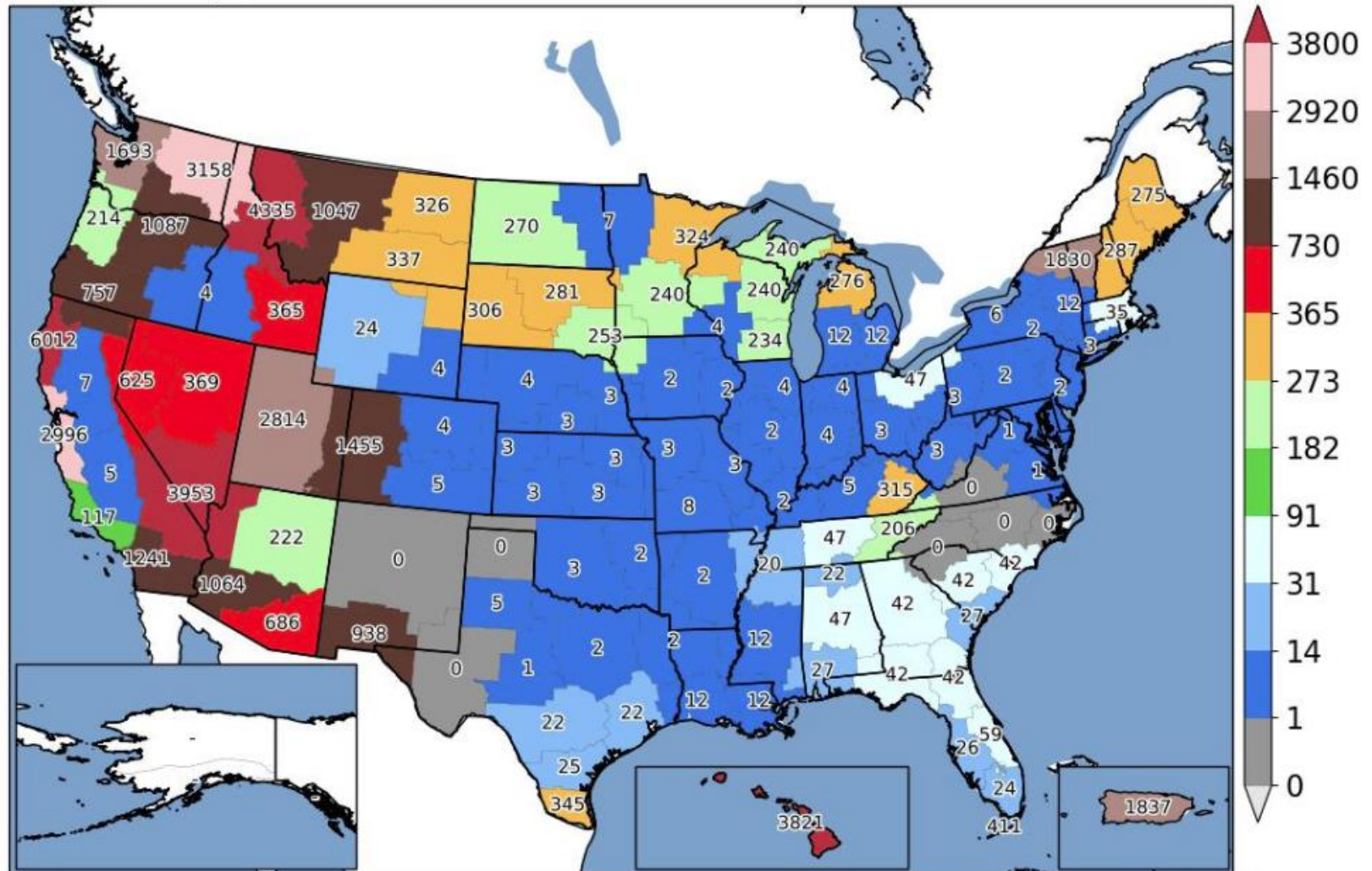


# It had been 938 days since NWS El Paso had last issued a tornado warning. Our office then issued a tornado warning June 2



## Days since Last Tornado Warning by NWS Office

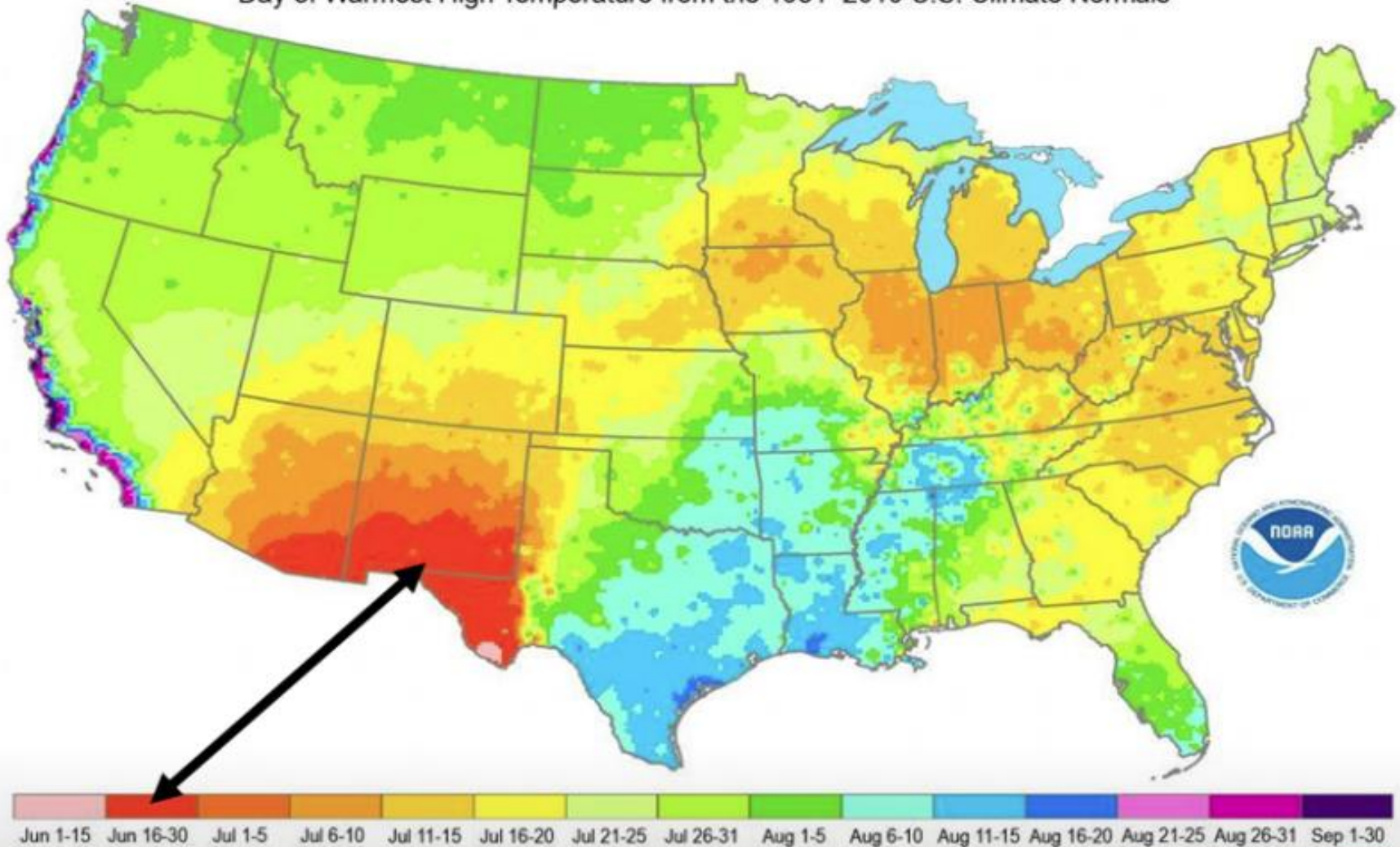
Valid 02 Jun 2019 0000 UTC



# Time of the year of occurrence of warmest day across the country

## Warmest Day of the Year

Day of Warmest High Temperature from the 1981–2010 U.S. Climate Normals





# June 4 Alamogordo Tornado Damage Survey

## Public Information Statement

National Weather Service El Paso Tx/Santa Teresa NM

1159 AM MDT Thu Jun 6 2019

...NWS DAMAGE SURVEY FOR 6/04/2019 TORNADO EVENT NEAR ALAMOGORDO...

### .Overview...

Strong thunderstorms developed within a moderate shear environment across portions of Otero county NM during the afternoon hours of June 4, 2019. One such storm, located just west of Alamogordo, was associated with what appeared to be a substantial 60+ knot rear inflow jet that descended upon the town of Alamogordo with 60+ mph winds producing straight line wind damage throughout portions of the city, including significant tree damage at the local zoo.

A local spin-up, or what would be classified as a gustnado, occurred at the leading edge of the outflow boundary just north of Alamogordo in the vicinity of Ruby Lane at roughly 04:50 PM MDT. At the same time a significant updraft and associated CB was noted just north of this location. The circulation associated with the spin-up was quickly absorbed within the updraft vicinity, resulting in a short lived landspout type tornado.

### .2 South of La Luz, NM Tornado...

Rating: EF1  
Estimated Peak Wind: 105 mph  
Path Length /statute/: 700 feet  
Path Width /maximum/: 200 feet  
Fatalities: 0  
Injuries: 1

Start Date: 06/04/2019  
Start Time: 04:54 PM MDT  
Start Location: 2 S La Luz / Otero County / NM  
Start Lat/Lon: 32.9431 / -105.9487

End Date: 06/04/2019  
End Time: 04:57 PM MDT  
End Location: 2 S La Luz / Otero County / NM  
End Lat/Lon: 32.9443 / -105.9469

### Survey Summary:

The tornado remained confined to a relatively small area of approximately 5 acres along and just south of Ruby lane. This tornado was short lived, producing damage along its path for only about 3 minutes. In total 1 mobile home was completely destroyed with 3 other residences receiving moderate damage due mainly to flying debris. Several out buildings including sheds and barns were either completely destroyed or heavily damaged. One out building was shifted off its foundation and moved approximately 9 feet to the north. A metal silo used for storage was lifted off its foundation and travelled airborne for approximately 400 feet before striking one of the residential structures. One minor injury was reported to the resident of the destroyed mobile home.

EF Scale: The Enhanced Fujita Scale classifies tornadoes into the following categories:

EF0...Weak.....65 to 85 mph  
EF1...Weak.....86 to 110 mph  
EF2...Strong....111 to 135 mph  
EF3...Strong....136 to 165 mph  
EF4...Violent...166 to 200 mph  
EF5...Violent...>200 mph

### NOTE:

The information in this statement is preliminary and subject to change pending final review of the event and publication in NWS Storm Data.

# **El Niño Advisory 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.

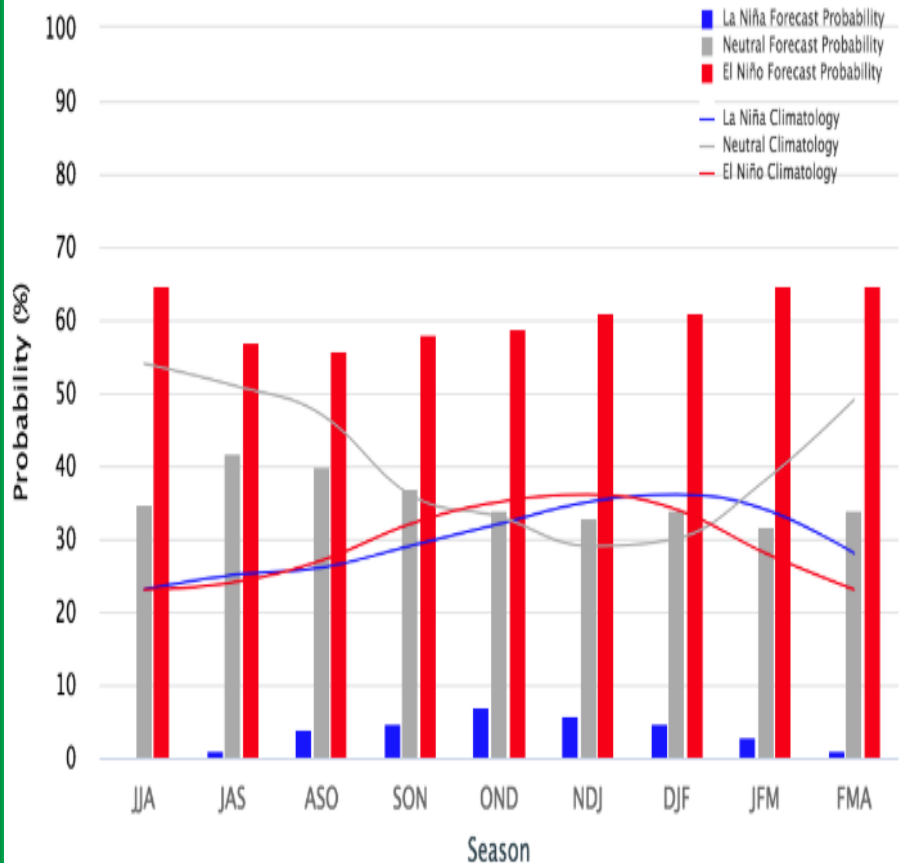


# ENSO Forecast

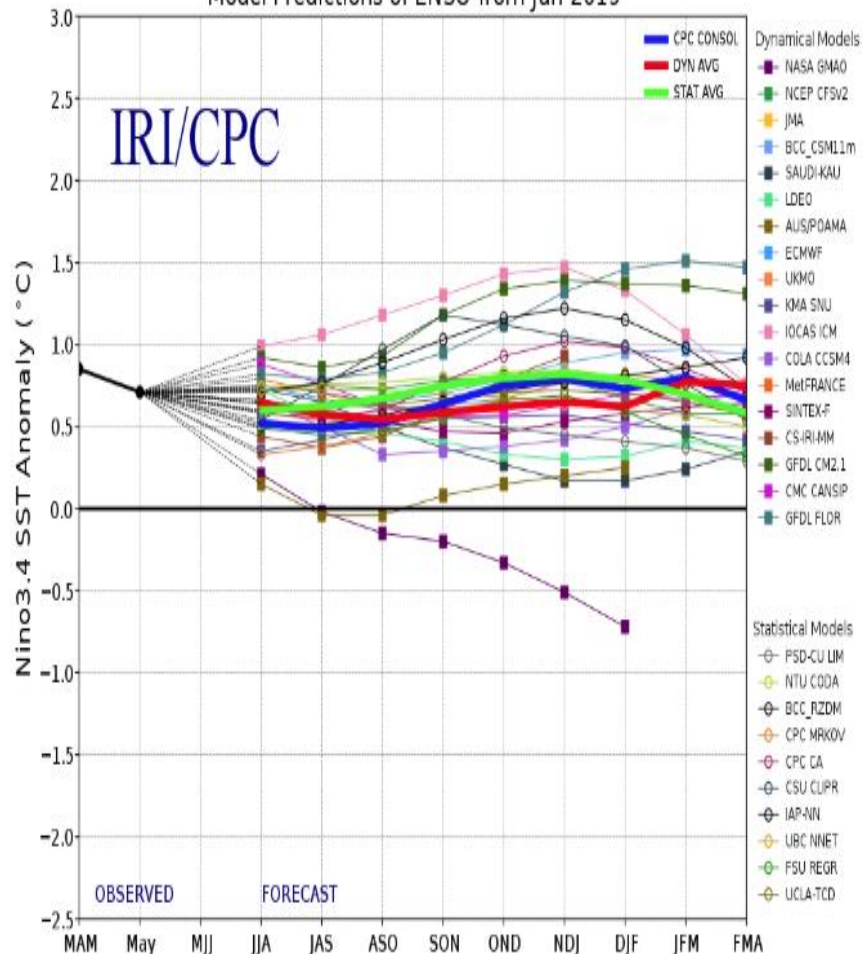
ENSO is now in a weak El Niño phase and could remain that way through much of this coming winter.

Mid-June 2019 IRI/CPC Model-Based Probabilistic ENSO Forecasts

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



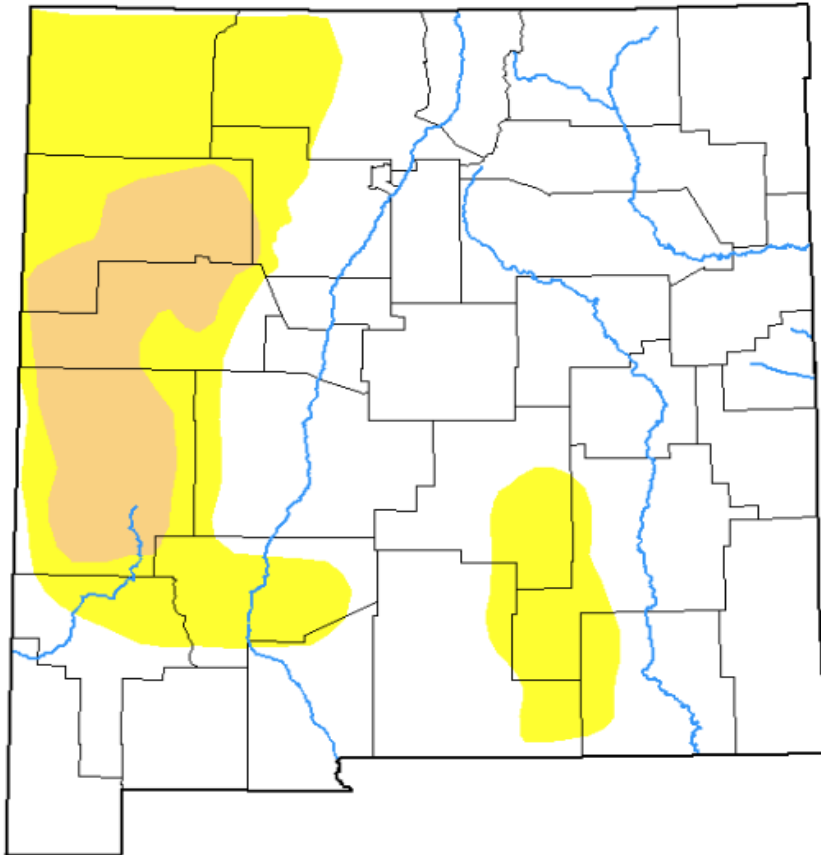
Model Predictions of ENSO from Jun 2019



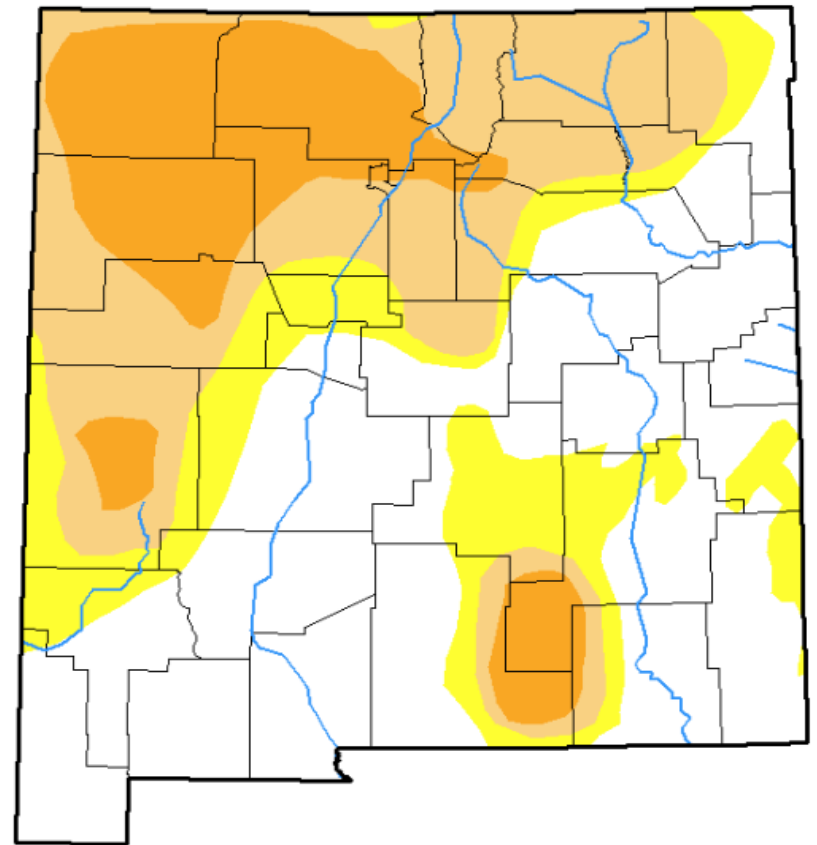
# Current drought conditions for New Mexico and 3 month change

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

**June 25, 2019**








**March 26, 2019**

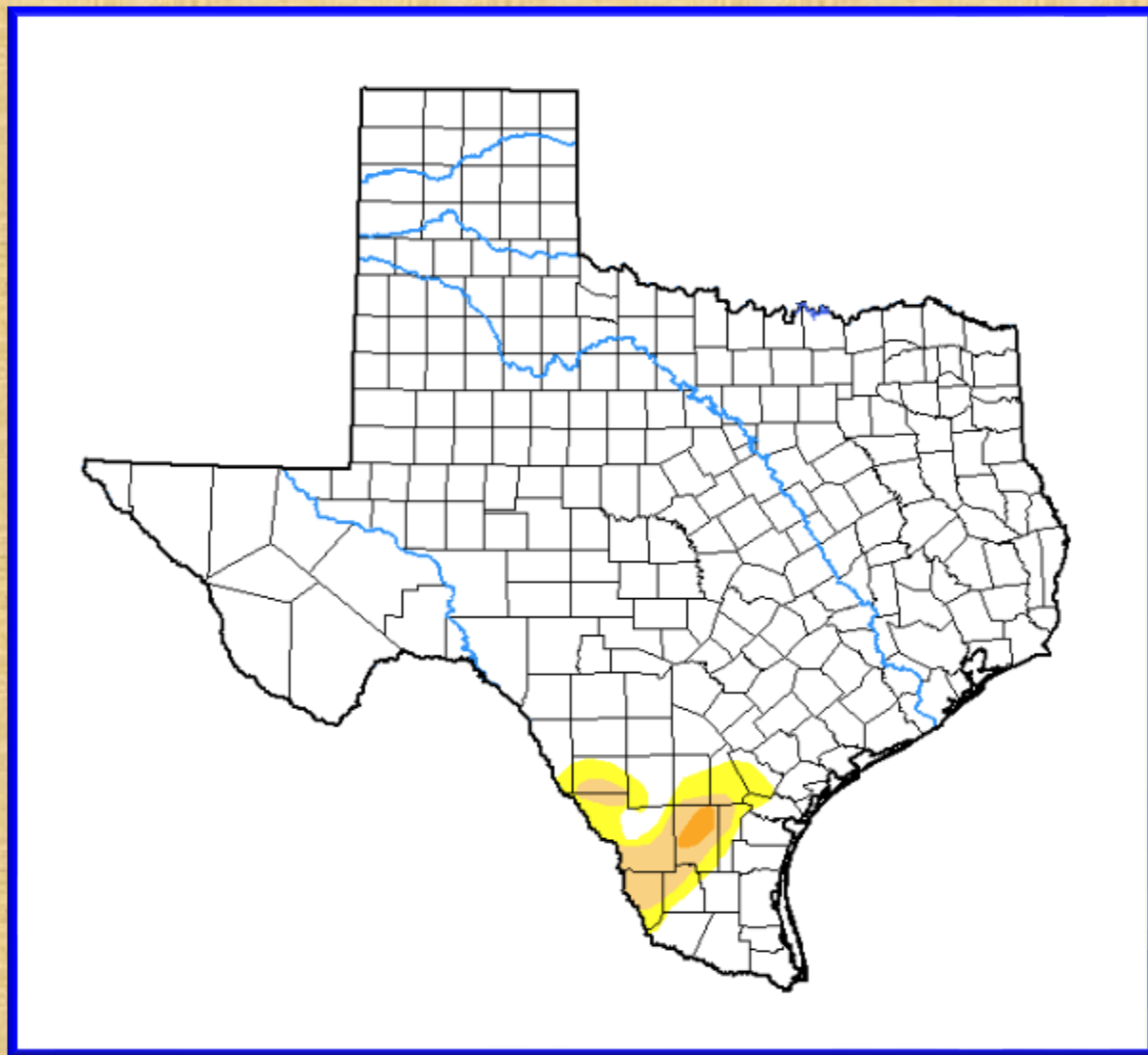




# Current drought conditions for Texas as of June 25, 2019

Intensity:

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



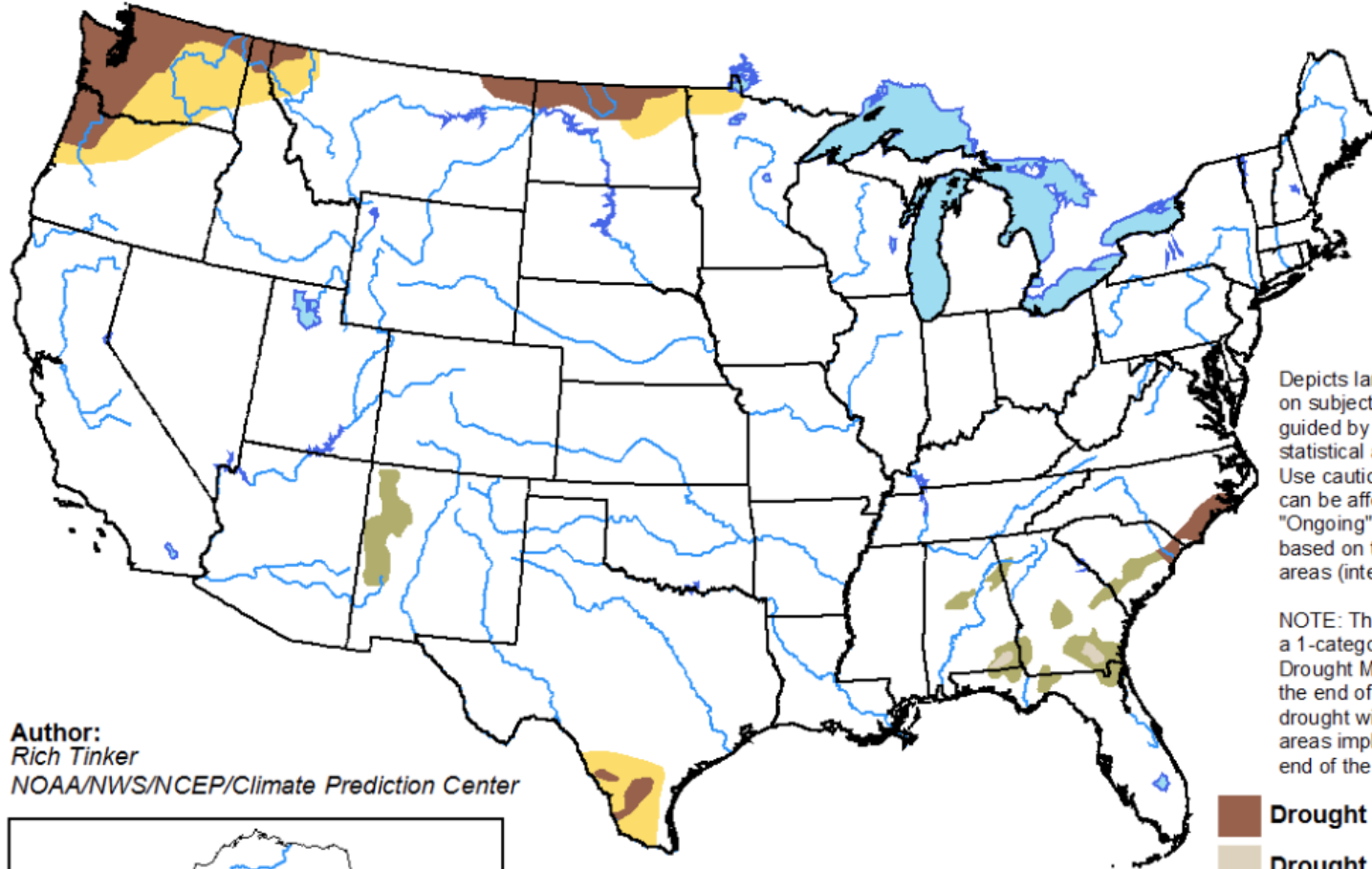
**Build your own custom slider maps here at:**

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

# U.S. Seasonal Drought Outlook

## Drought Tendency During the Valid Period




Valid for June 20 - September 30, 2019  
Released June 20

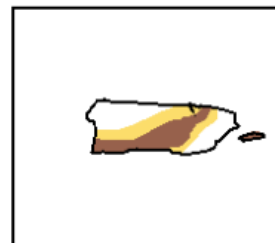


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

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



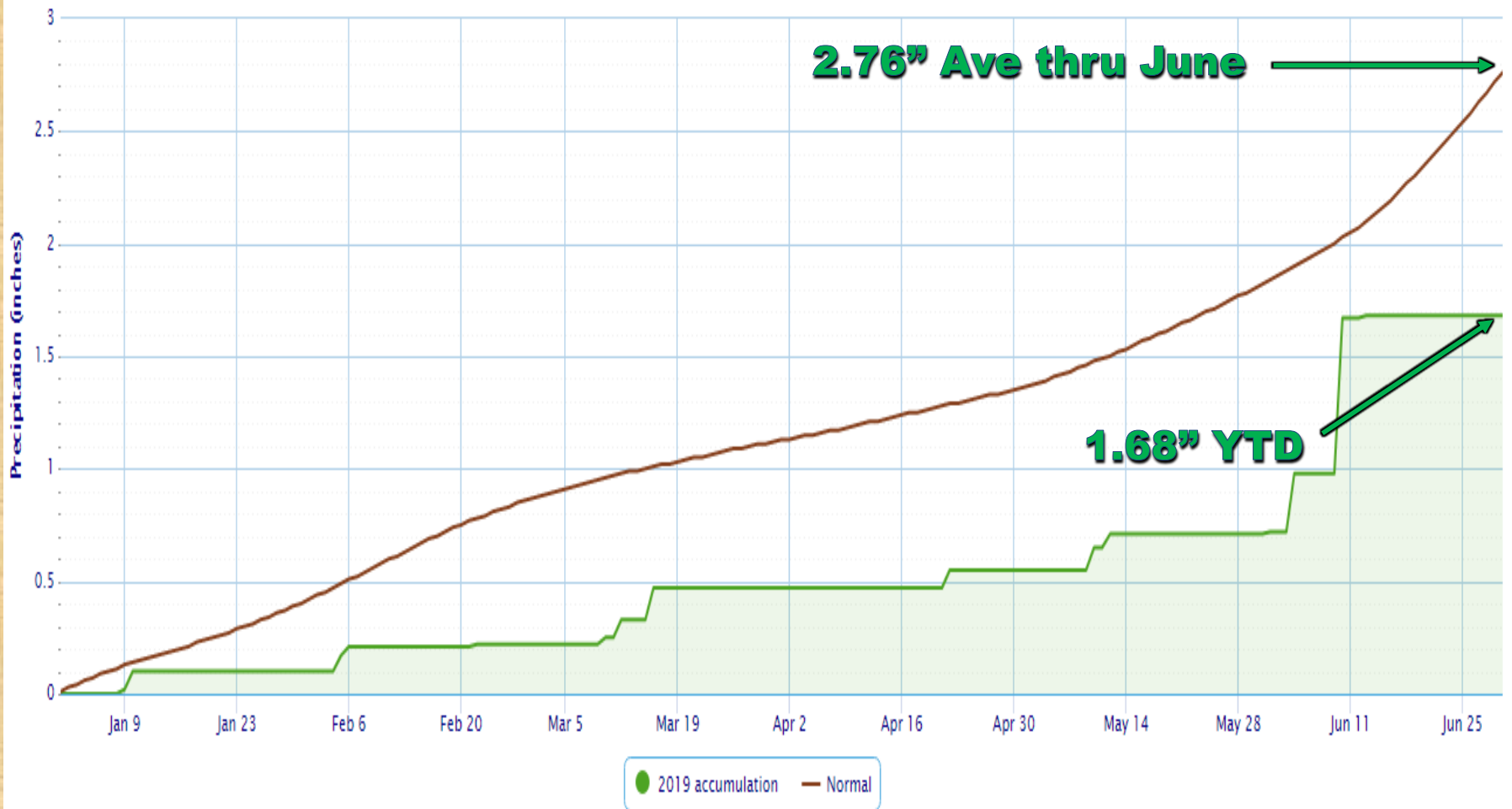
<http://go.usa.gov/3eZ73>



# So how are we doing so far this year? El Paso is 1.08" below normal—or about 60% of normal

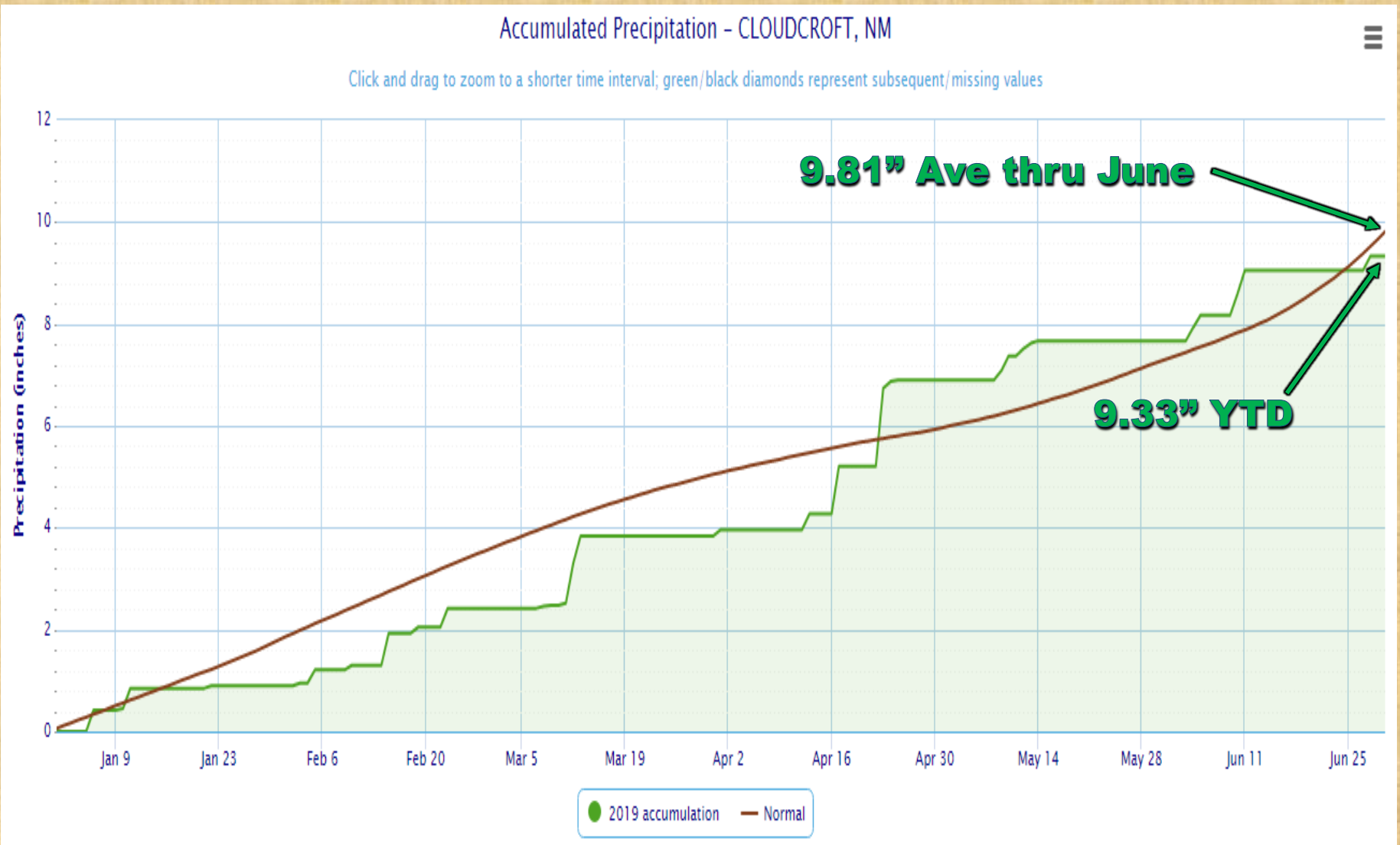
Accumulated Precipitation - El Paso Area, TX (ThreadEx)

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



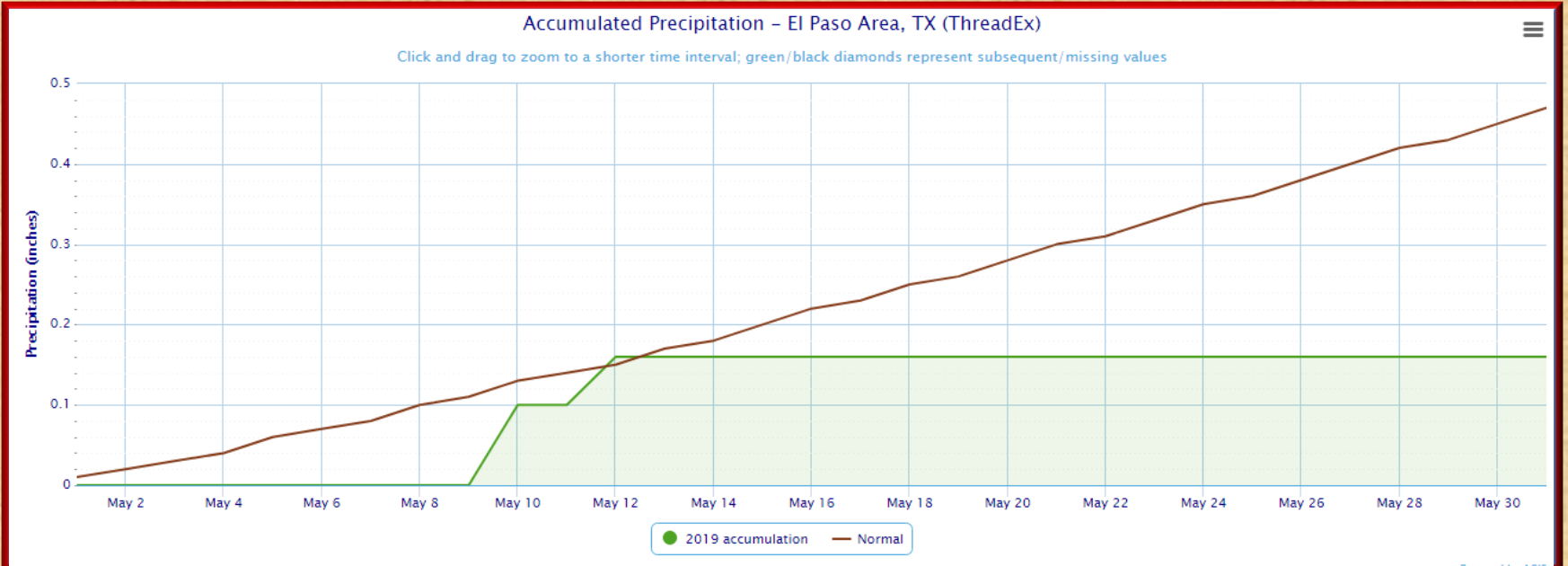
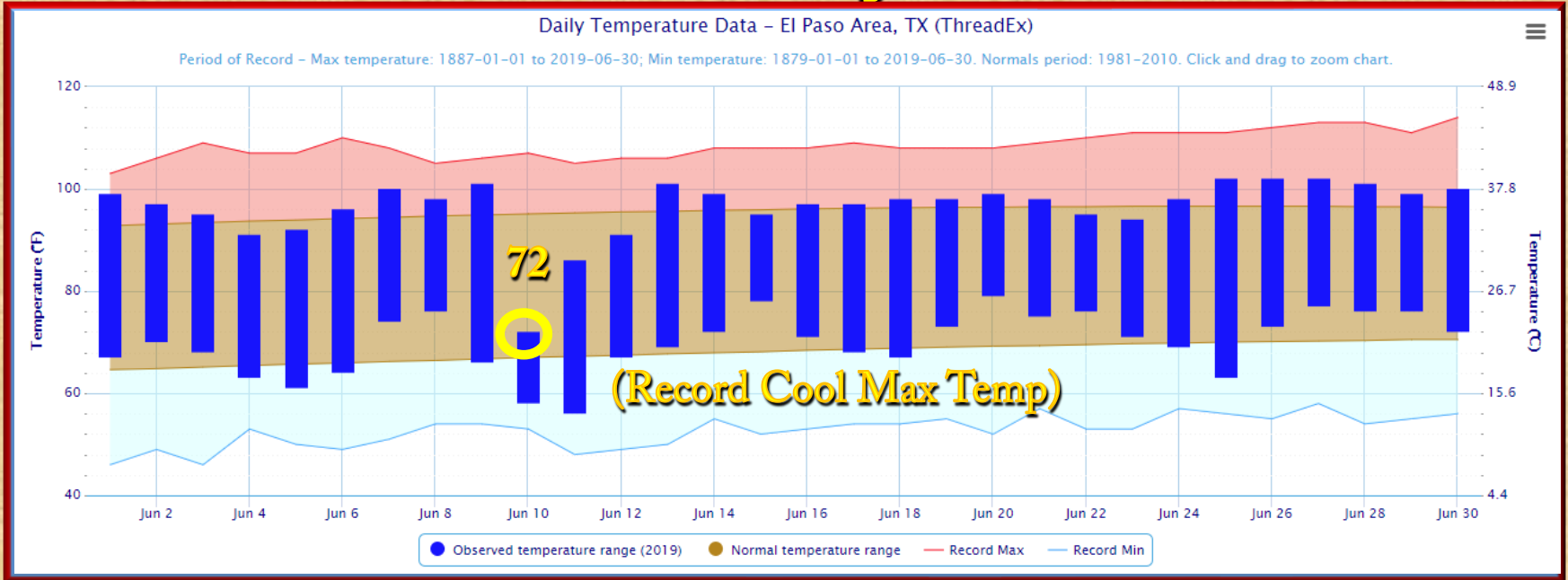
# So How Are We Doing so far This Year? (Part 2)

## Cloudcroft is .48" below normal—or about 95% of normal





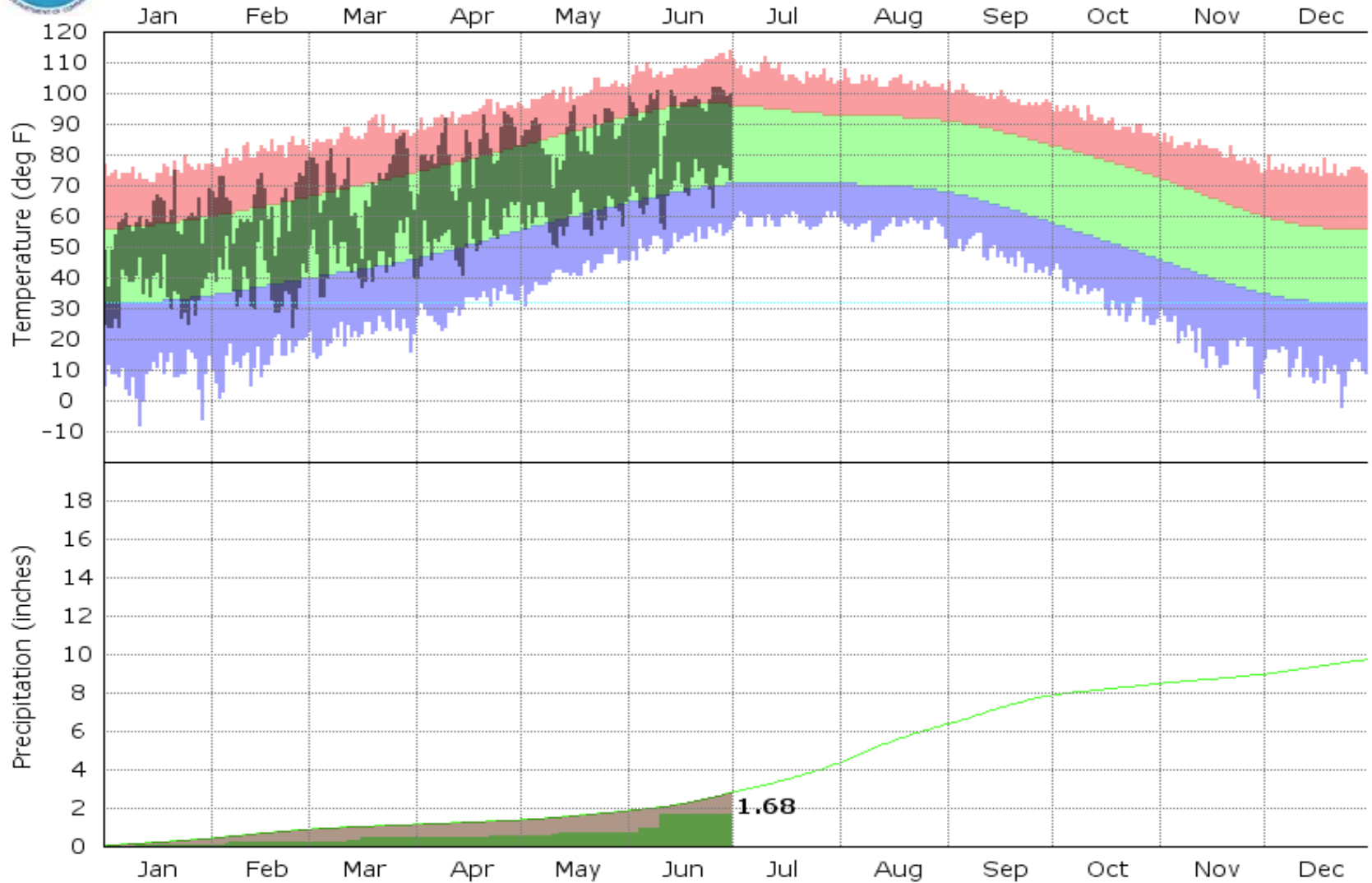
# Temperature and precipitation data for May 2019



# 2019 year-to-date temperature and precipitation data El Paso



## El Paso TX - 2019

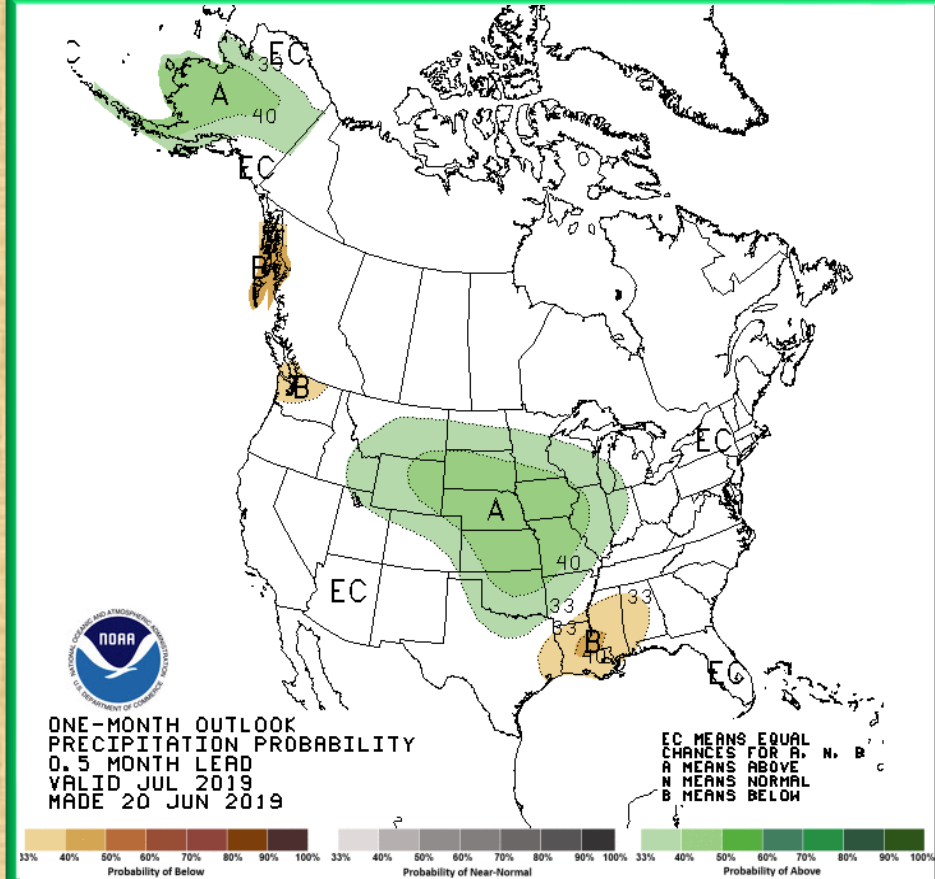
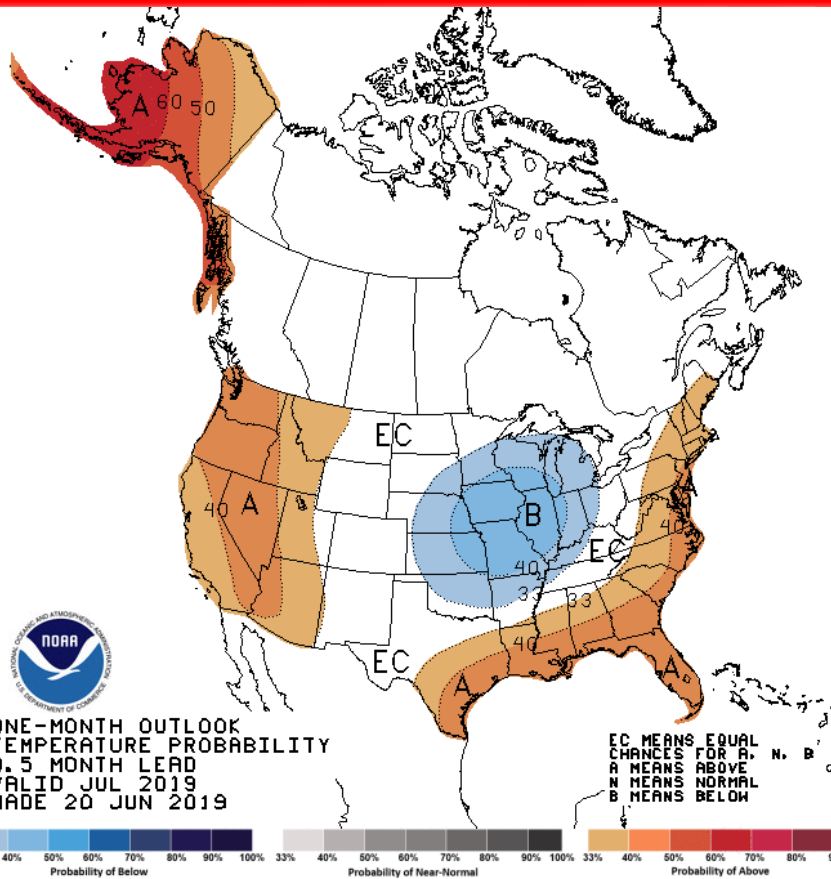




# Temperature and precipitation outlook for July 2019

## Temperature

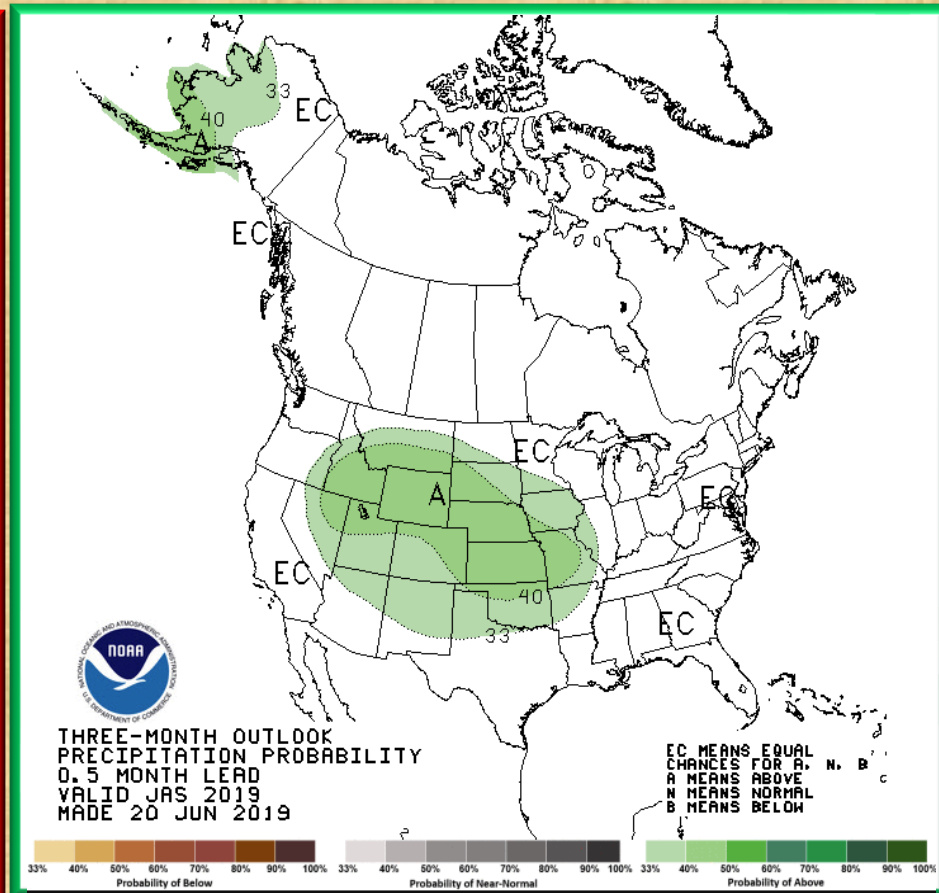
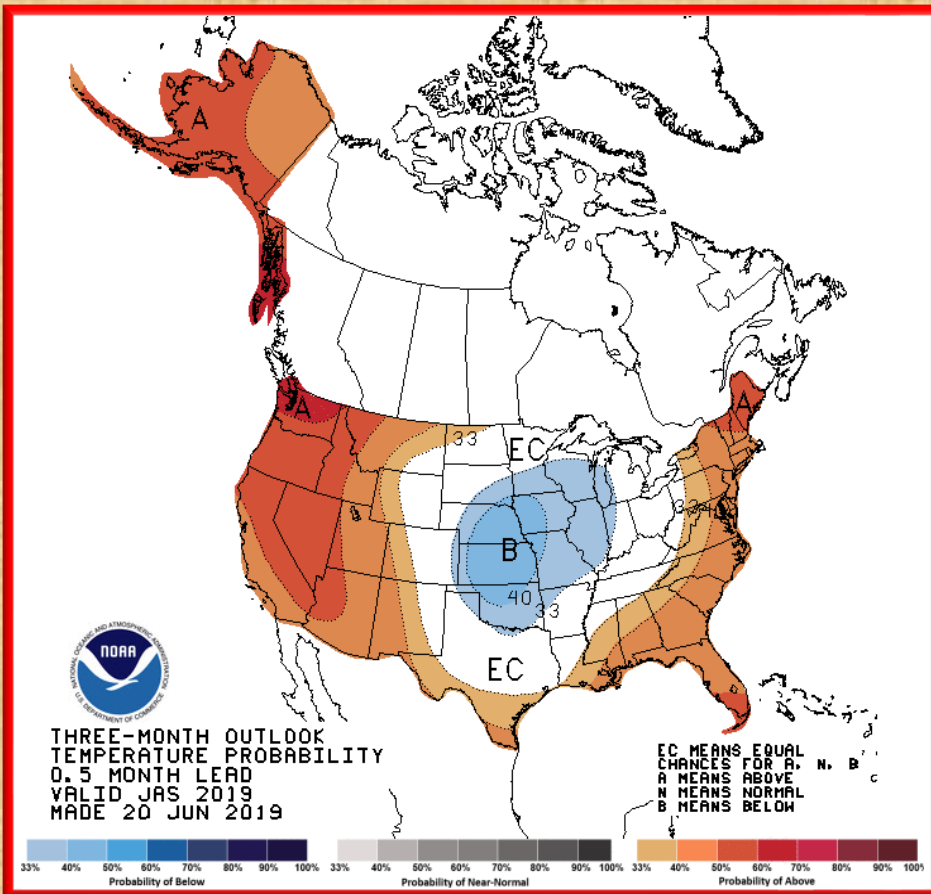
## Precipitation



# Temperature and precipitation outlook For July-September 2019

## Temperature

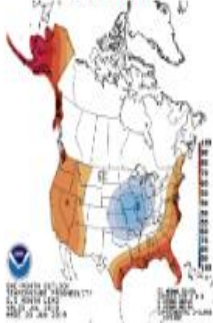
## Precipitation



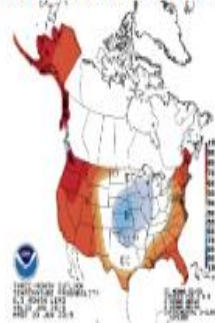


# Temperature Outlook Through September 2020

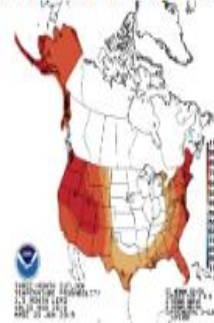
July 2019



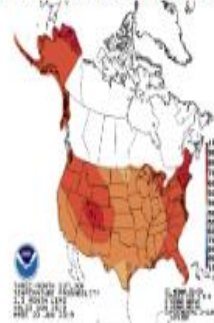
July-August-September 2019



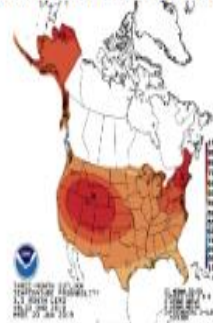
August-September-October 2019



September-October-November 2019



October-November-December 2019



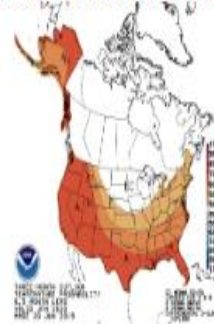
November-December-January 2019/20



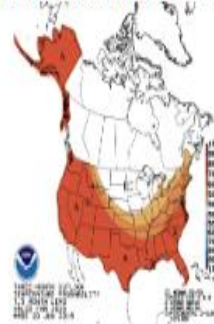
December-January-February 2019/20



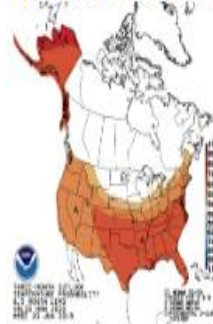
January-February-March 2020



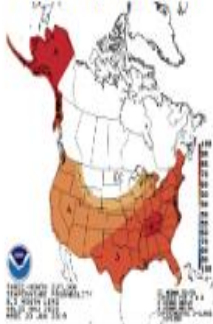
February-March-April 2020



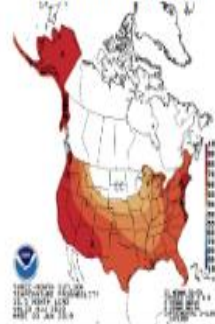
March-April-May 2020



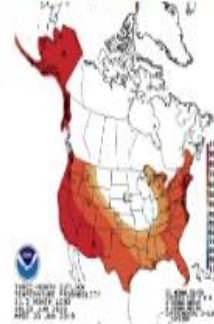
April-May-June 2020



May-June-July 2020



June-July-August 2020

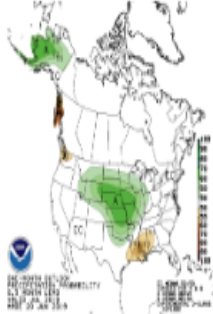


July-August-September 2020

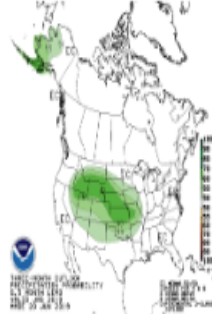


# Precipitation Outlook Through September 2020

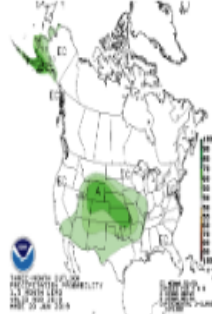
July 2019



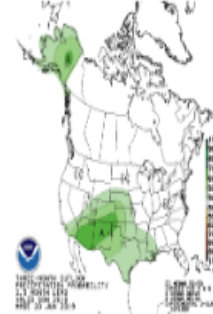
July-August-September 2019



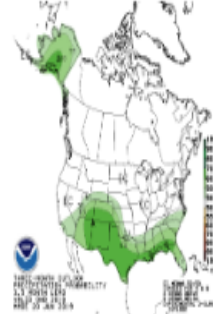
August-September-October 2019



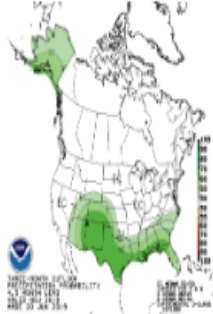
September-October-November 2019



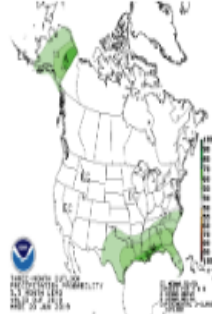
October-November-December 2019



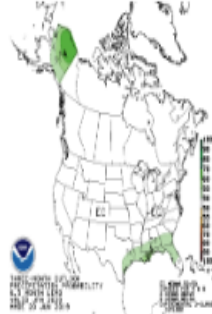
November-December-January 2019/20



December-January-February 2019/20



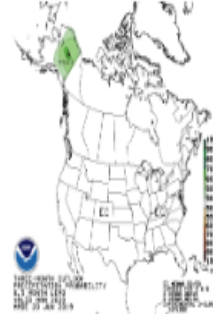
January-February-March 2020



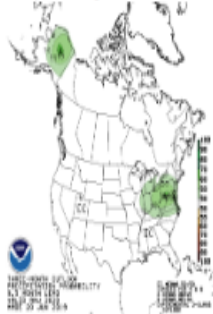
February-March-April 2020



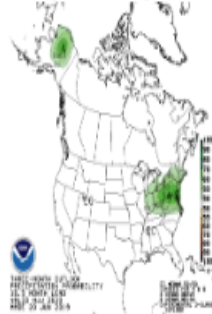
March-April-May 2020



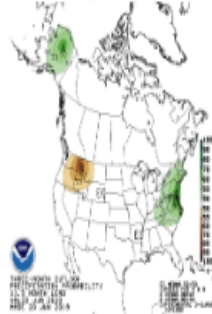
April-May-June 2020



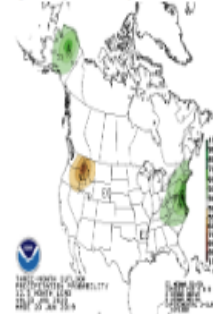
May-June-July 2020



June-July-August 2020

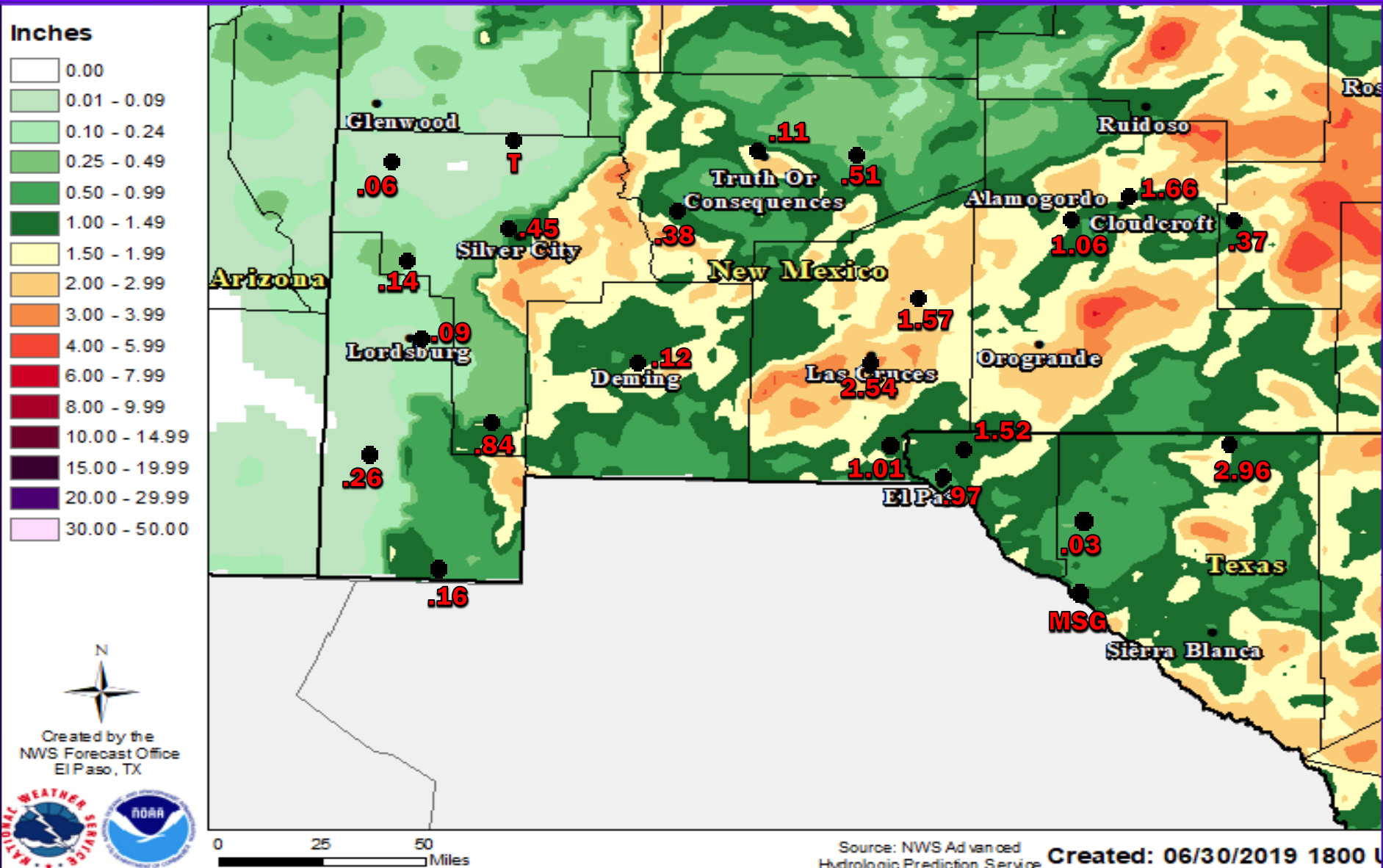


July-August-September 2020



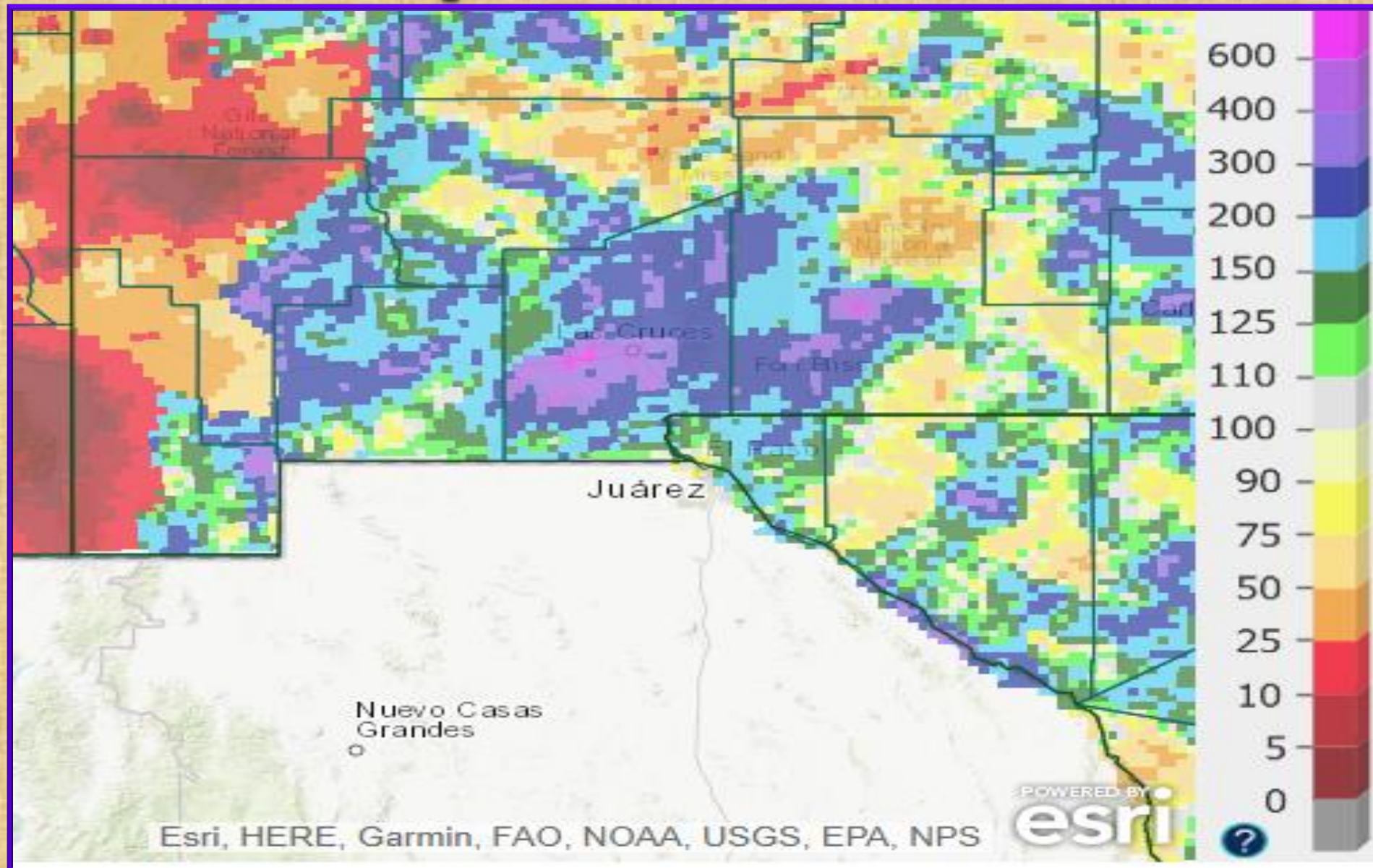


# June 2019 radar rainfall estimate with surface rainfall reports



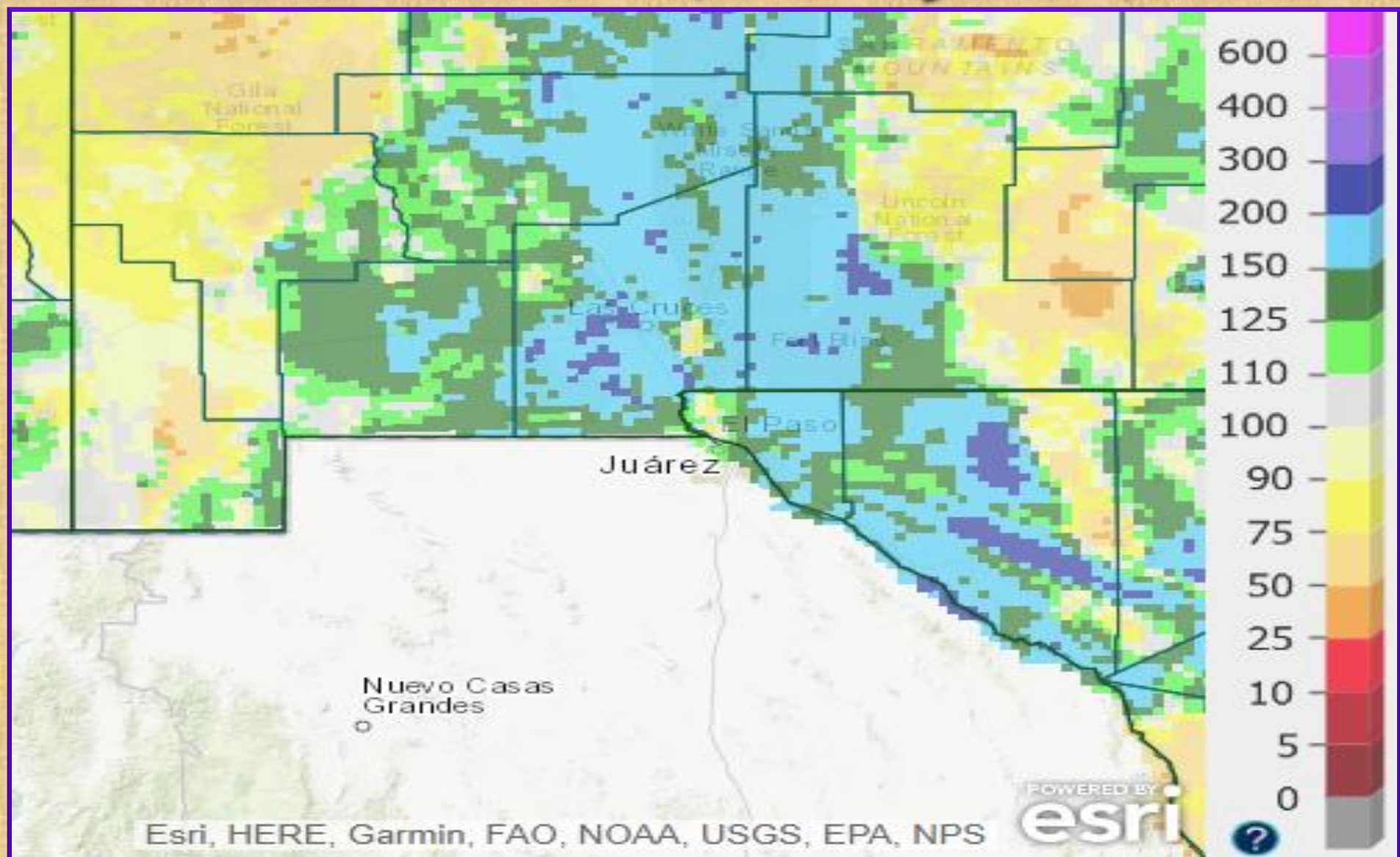


# June 2019 radar rainfall estimate percent of normal





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

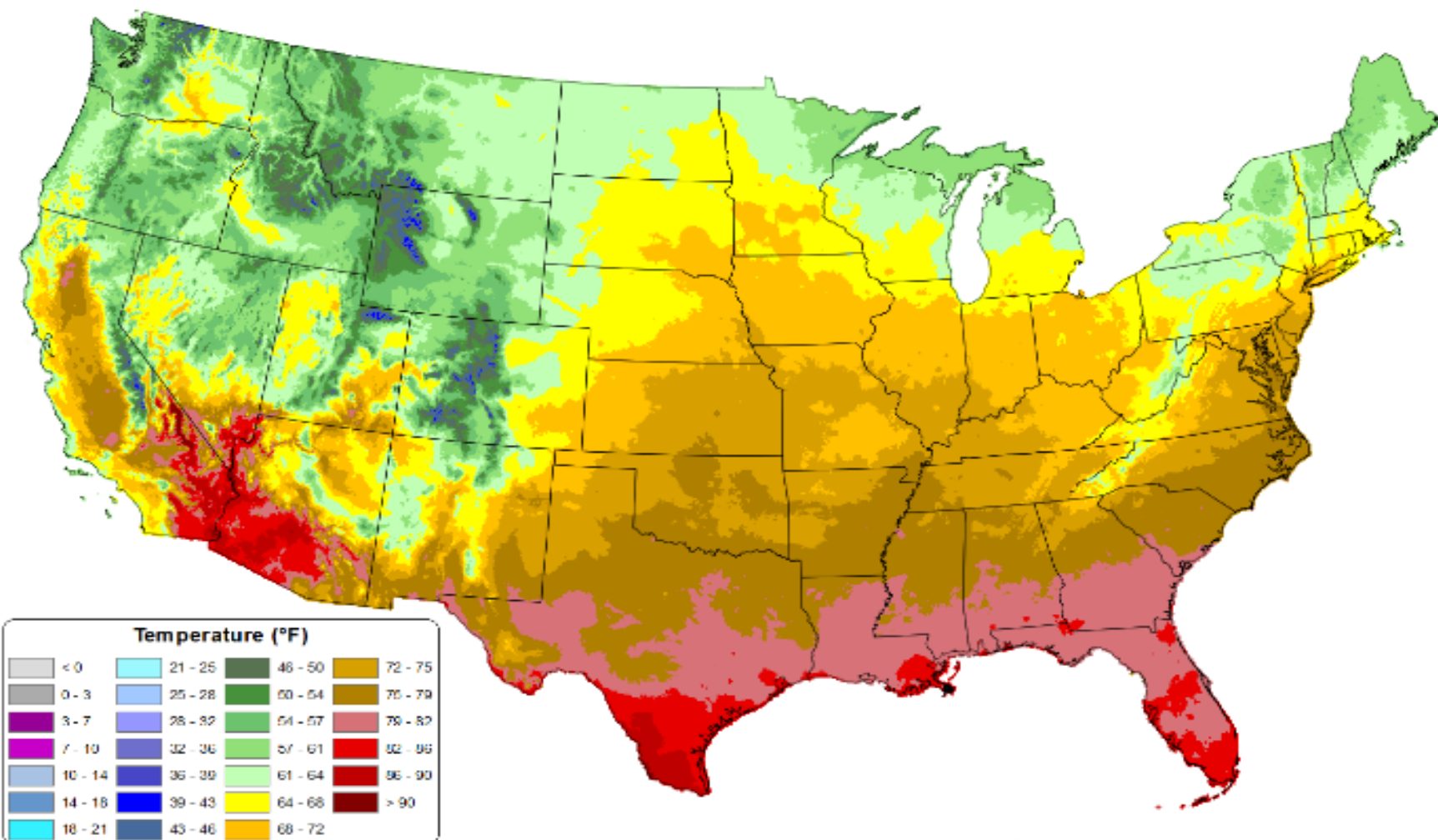


# Average Daily Mean Temperature for June 2019

**Average Daily Mean Temperature: Jun 2019**

Period ending 7 AM EST 30 Jun 2019

(Map created 02 Jul 2019)



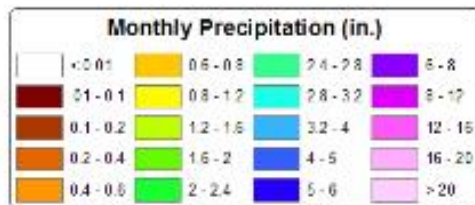
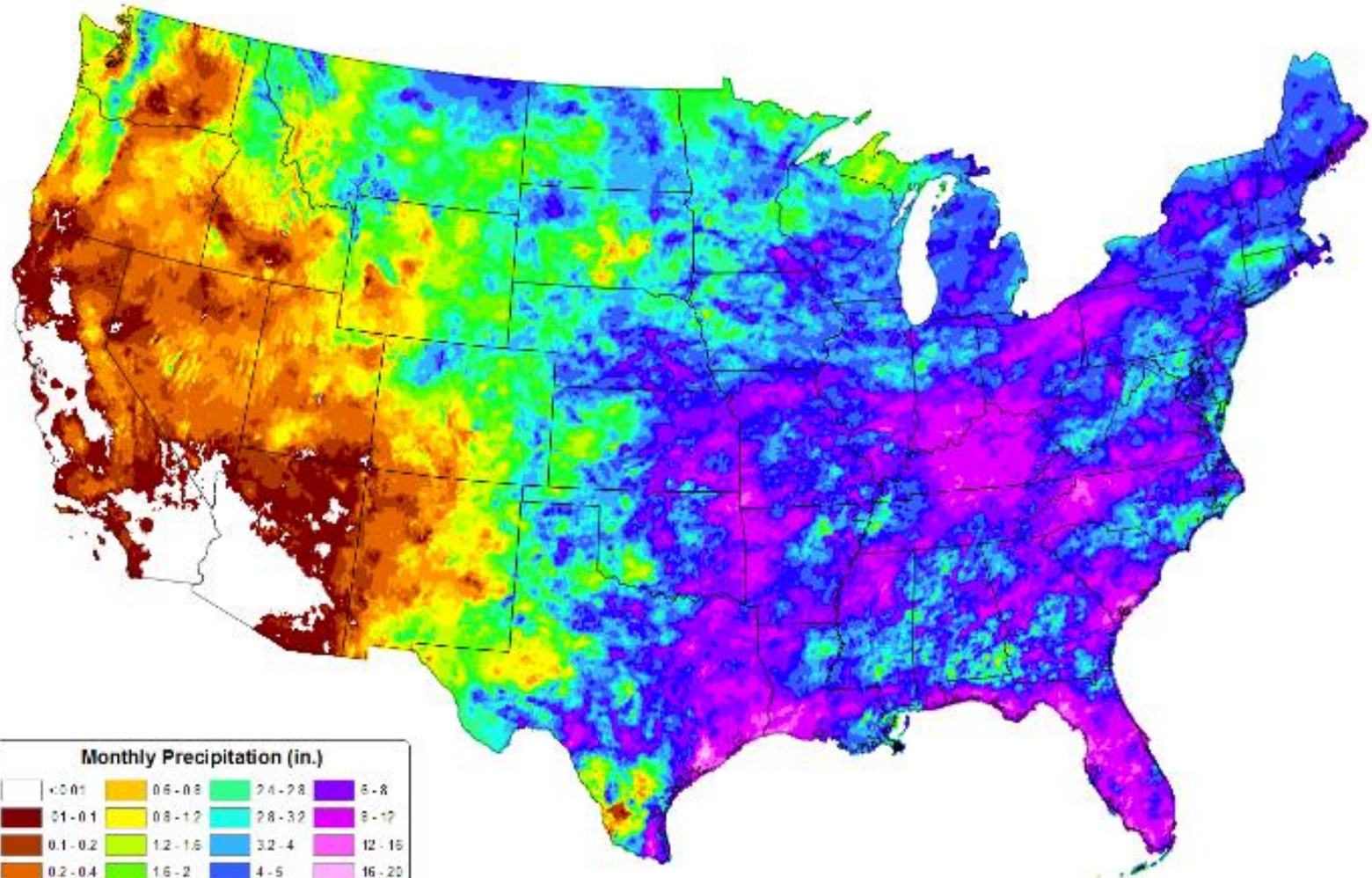


# Average Daily Mean Temperature for June 2019 Total Precipitation for June 2019

Total Precipitation: Jun 2019

Period ending 30 Jun 2019

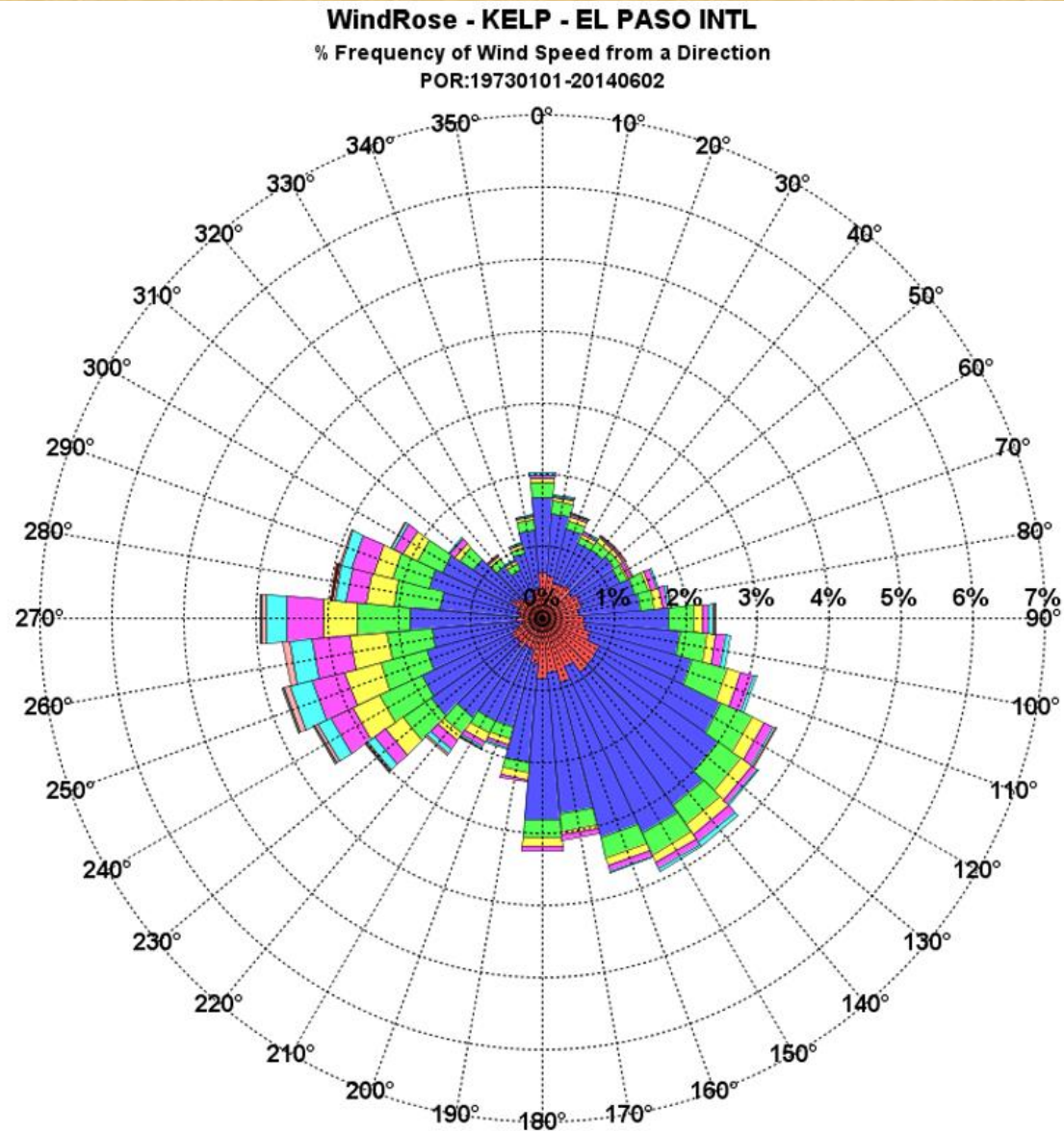
(Map created 02 Jul 2019)



# Special Features

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

Month: JUNE  
Calm: 8.00%  
Variable: 3.55%









# Selected weather reports June 2019

Date/Time	Location (County)	Event
MAY 21 345 PM	SAN AUGUSTIN PASS-DONA ANA	PEAK WIND 72 MPH

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

**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**

