

July 2019

Weather Digest



Mark Capurso

July 2019 Weather Summary

July turned out to be warm and relatively dry month-otherwise known as boring. While the main monsoon flow had set up by the end of June and beginning of July, the area never really got any extended period of moisture streaming up from the tropics. Thus we were left with below normal rainfall for most areas. This of course usually leads to warmer than normal temperatures, which was once again true for this July. Average daily temperatures around the area generally ran 2 to 4 degrees above normal. El Paso recorded 20 days of triple digit high temperatures for the month, well above the average of 8 days for the month. For the season, El Paso is at 28 days of triple digit heat, already surpassing the seasonal average of 22 days.

Looking at rainfall, most of the area was below normal (See radar maps), with most of the lowlands of El Paso, Dona Ana and Luna counties well below normal. Many parts of Hudspeth, Sierra and Hidalgo counties were a bit above normal, along with most of the Black Range and eastern Sacramento Mountains. Longer term, looking at the water year (Oct 1 to current), we are still sitting in a good spot. Most of the area east of the Continental Divide is above normal, except the Sacramento Mountains. West of the Divide, rainfall totals were still a bit below normal.

July 2019 Weather Summary cont'd.

Looking ahead to August, daylight continues to slowly erode away. The month starts out at 13 hours and 41 minutes on the 1st, shrinking to 12 hours and 50 minutes by the end of the month. The month will see two new moons on the 1st and 30th, while we will see a full moon on Aug 15th.

**July 11 Wind Damage
Alamogordo**



**July 16 Gustnado near
Lordsburg**



**July 17 Thunderstorm
near Las Cruces**



**July 30 Rainfall near
T or C**



July Lightning and Devil Show

July 18 Near Las Cruces



July 18 El Paso



July 28 Near El Paso



July 28 Dust Devil Near El Paso



El Niño Advisory in Effect

ENSO Alert System

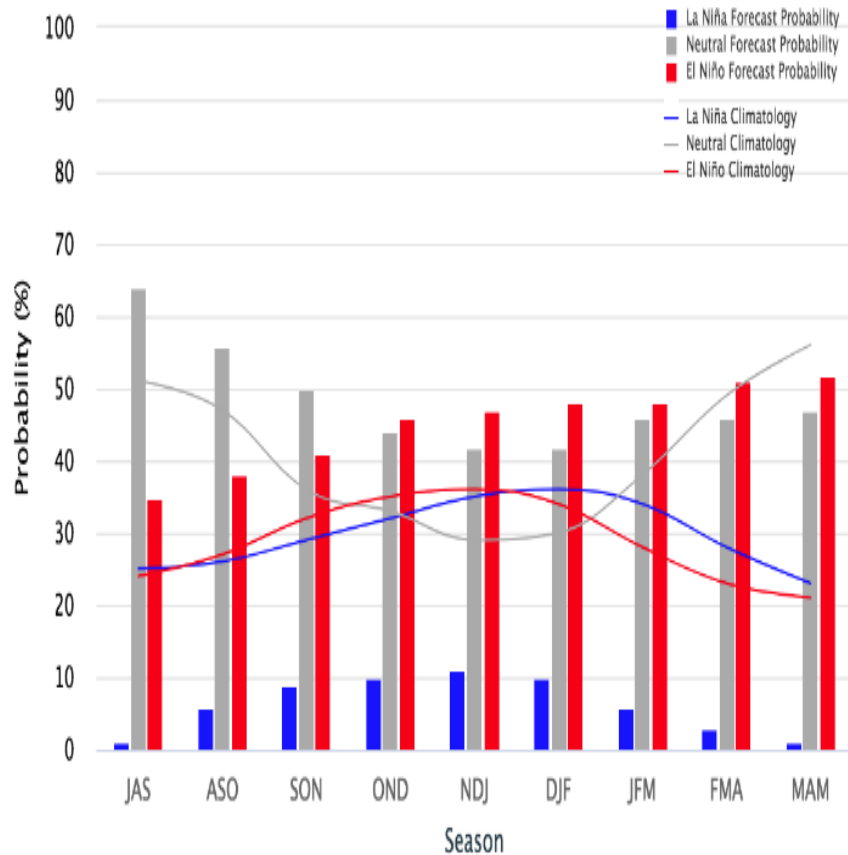
- **El Niño or La Niña Watch:** Issued when conditions are favorable for the development of El Niño or La Niña conditions in the next six months.
- **El Niño or La Niña Advisory:** Issued when El Niño or La Niña conditions are observed and expected to continue.

ENSO Forecast

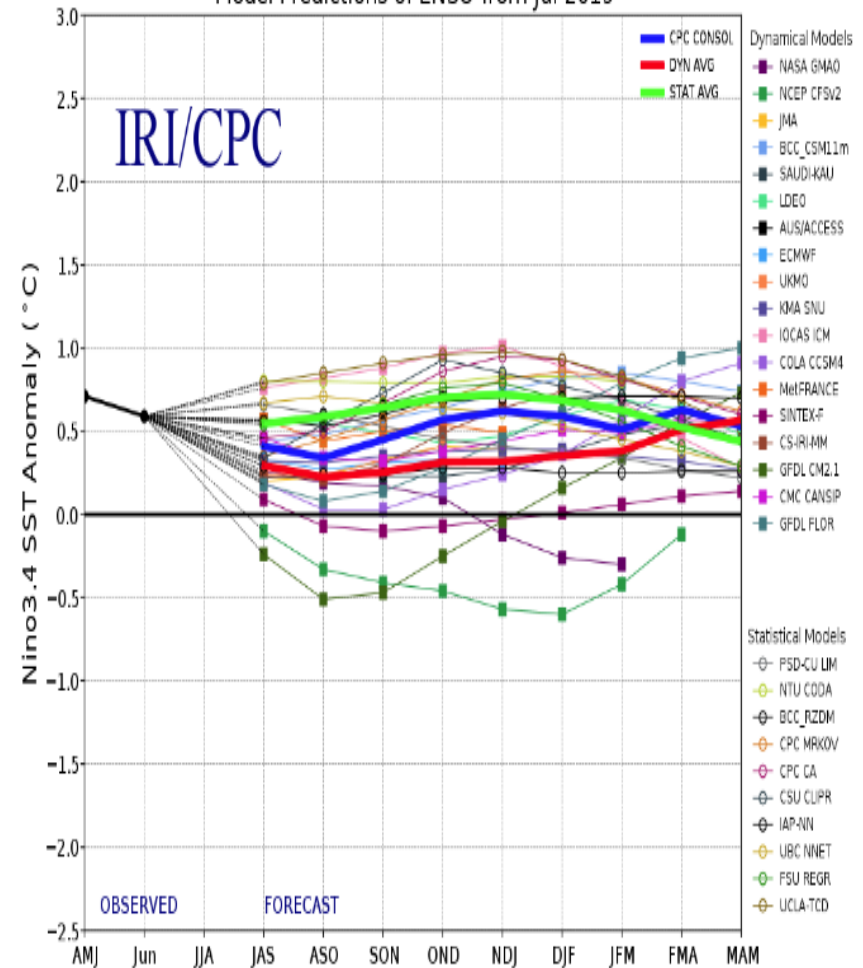
ENSO is now in a weak El Niño phase and could remain that way through much of this coming winter.

Mid-July 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



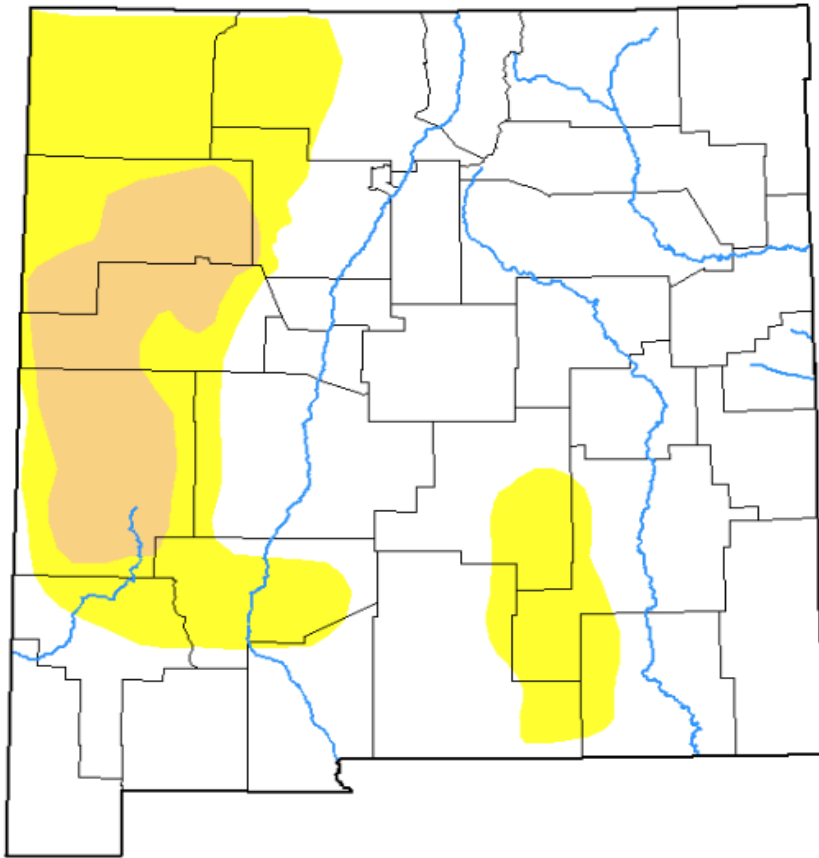
Model Predictions of ENSO from Jul 2019



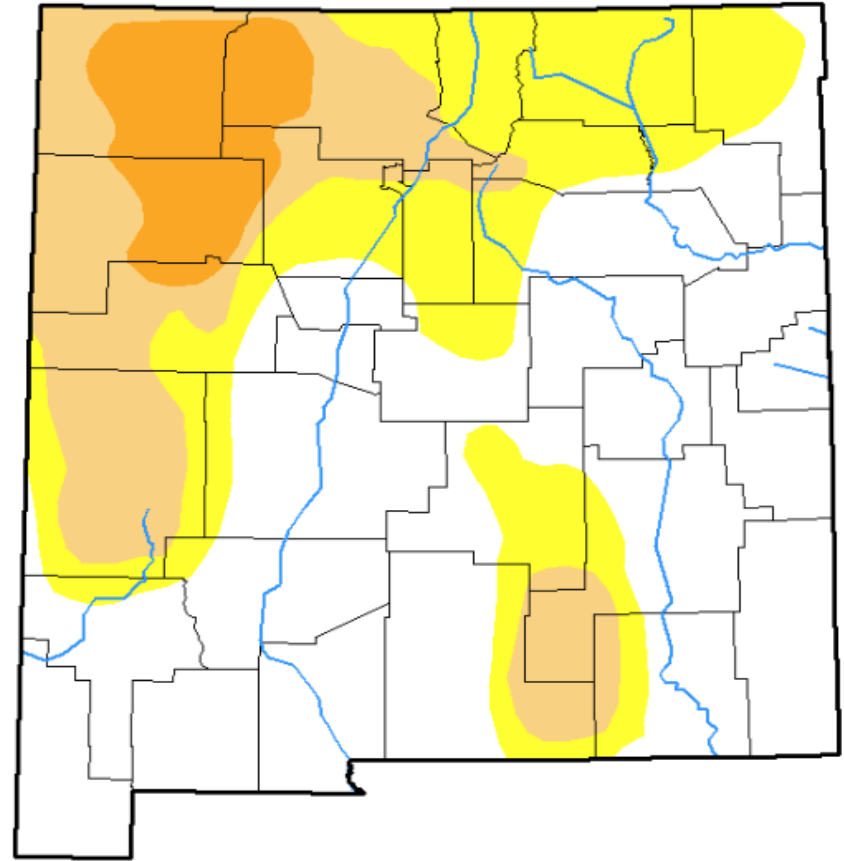
Current drought conditions for New Mexico and 3 month change

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

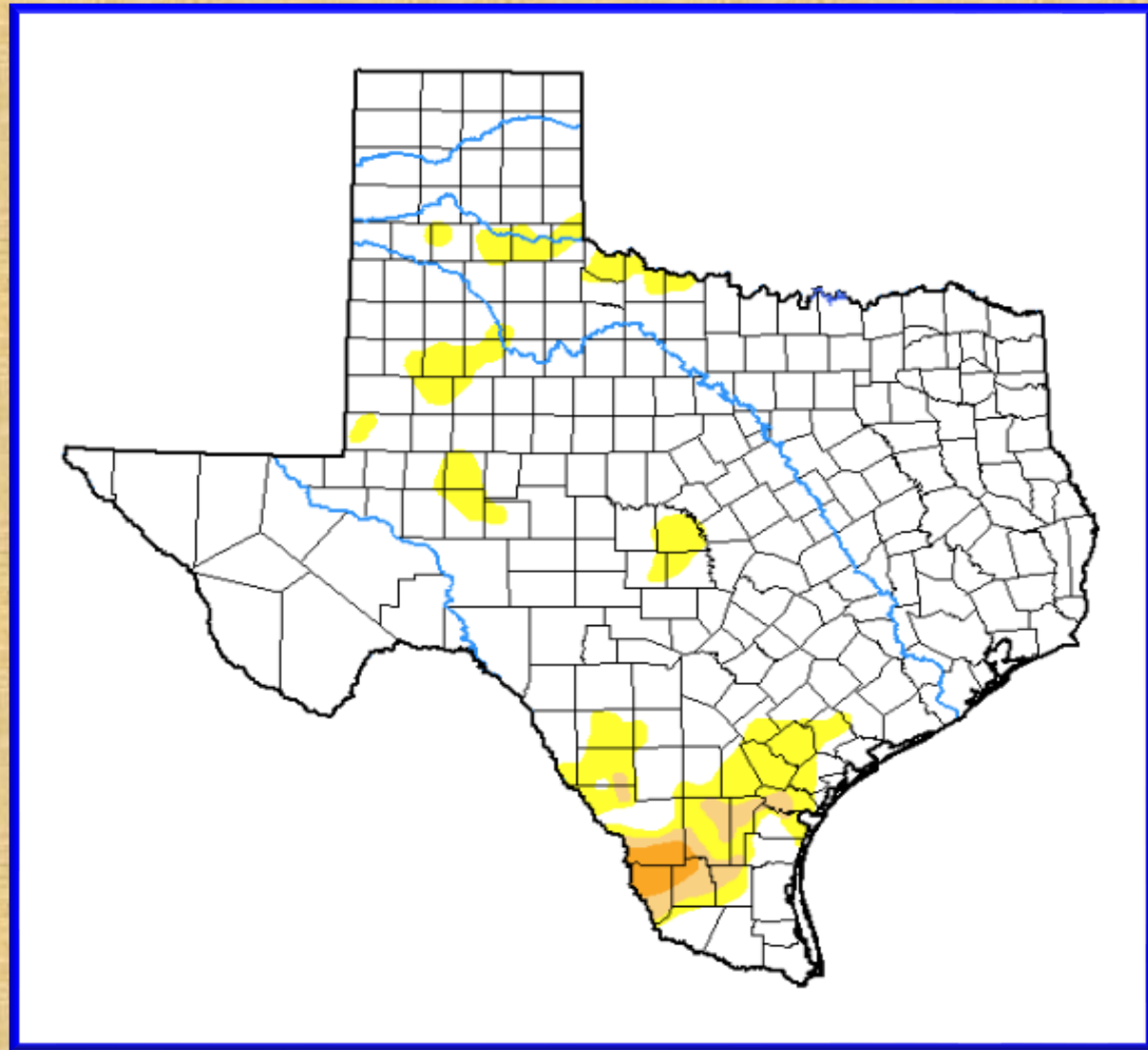
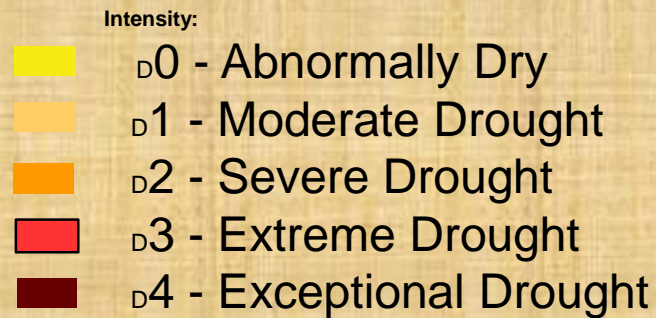
July 23, 2019



April 30, 2019



Current drought conditions for Texas as of July 23, 2019



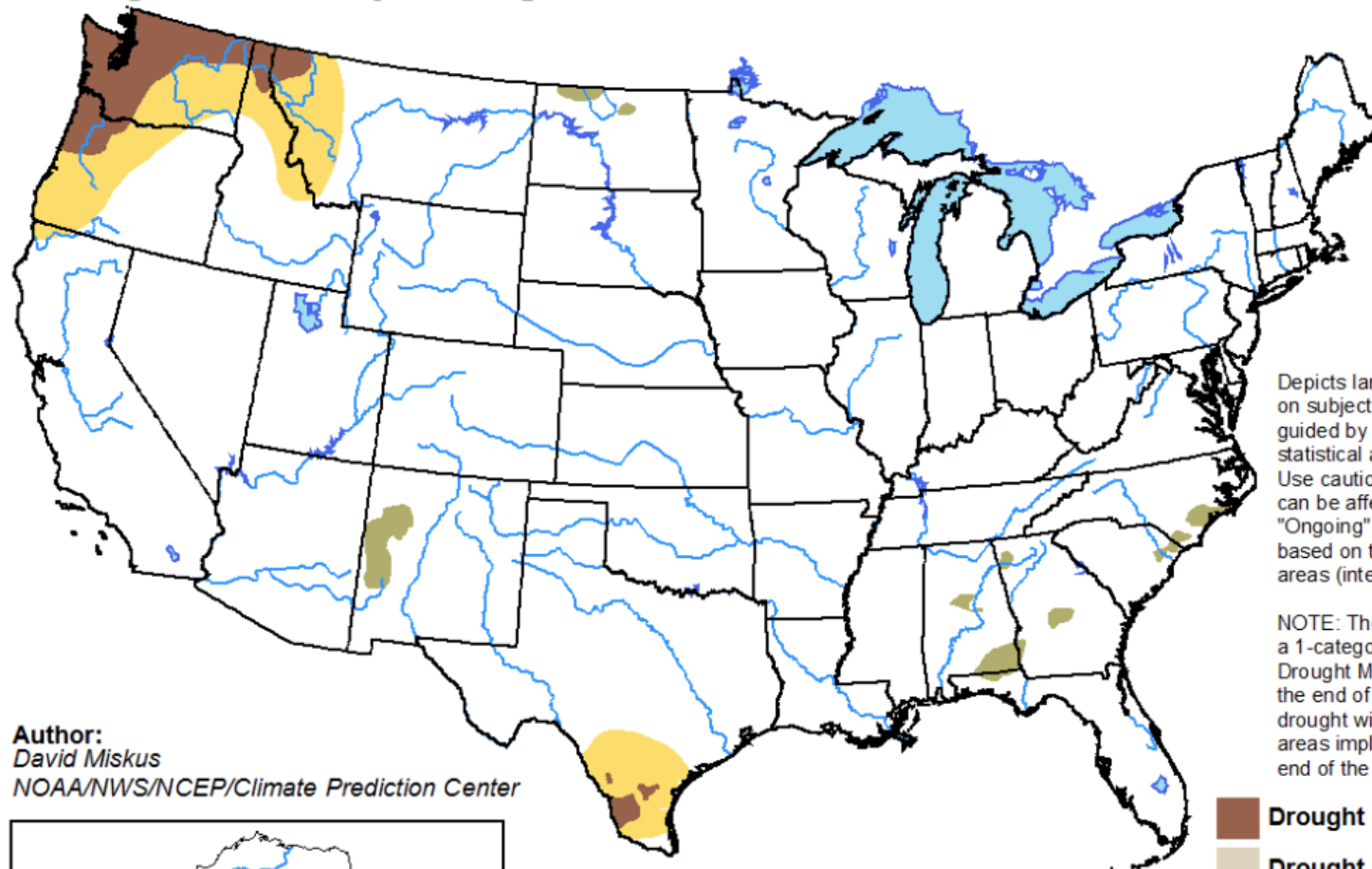
Build your own custom slider maps here at:

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

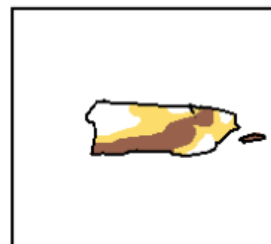
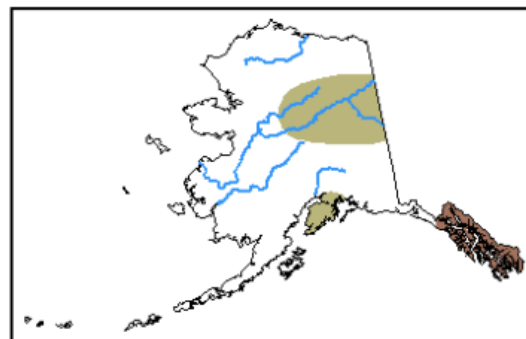
U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for July 18 - October 31, 2019
Released July 18







Author:
David Miskus
NOAA/NWS/NCEP/Climate Prediction Center



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).

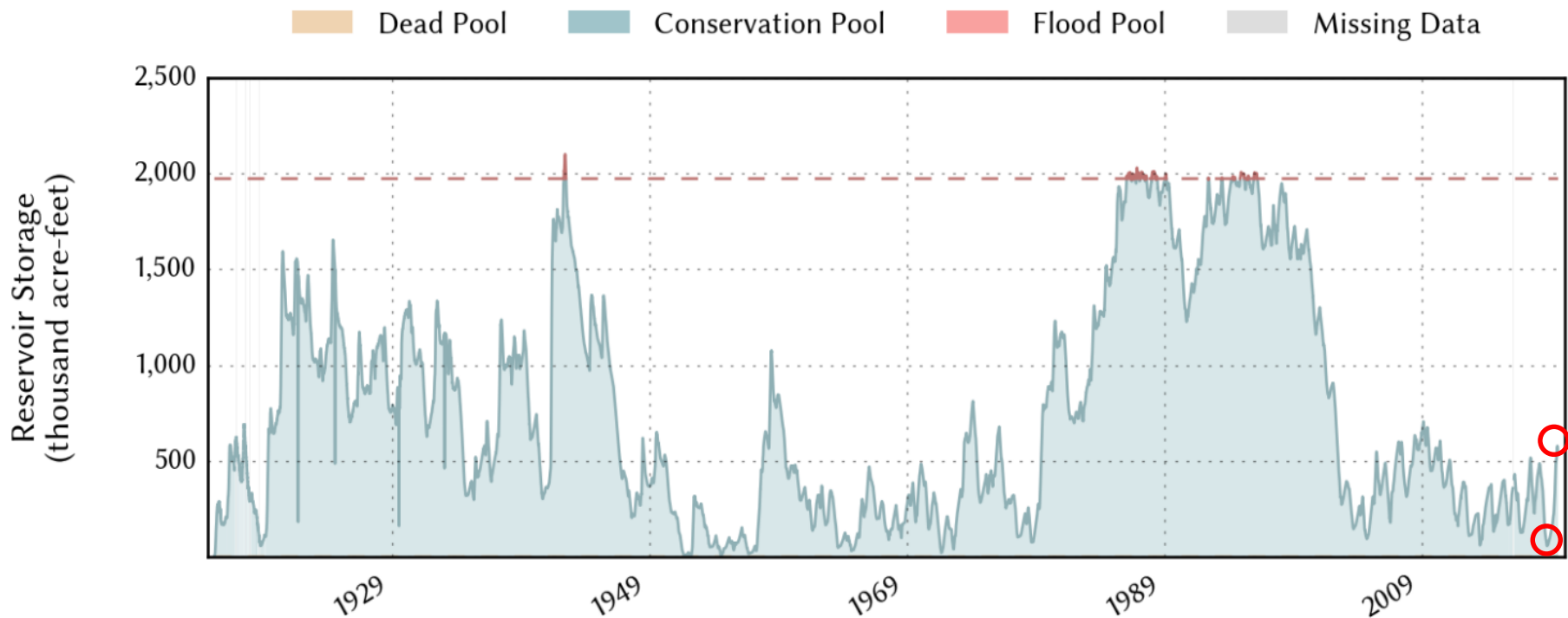
-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



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

A Look at Elephant Butte at Mid-Summer 2019

Elephant Butte Lake: 27.1% full as of 2019-08-04



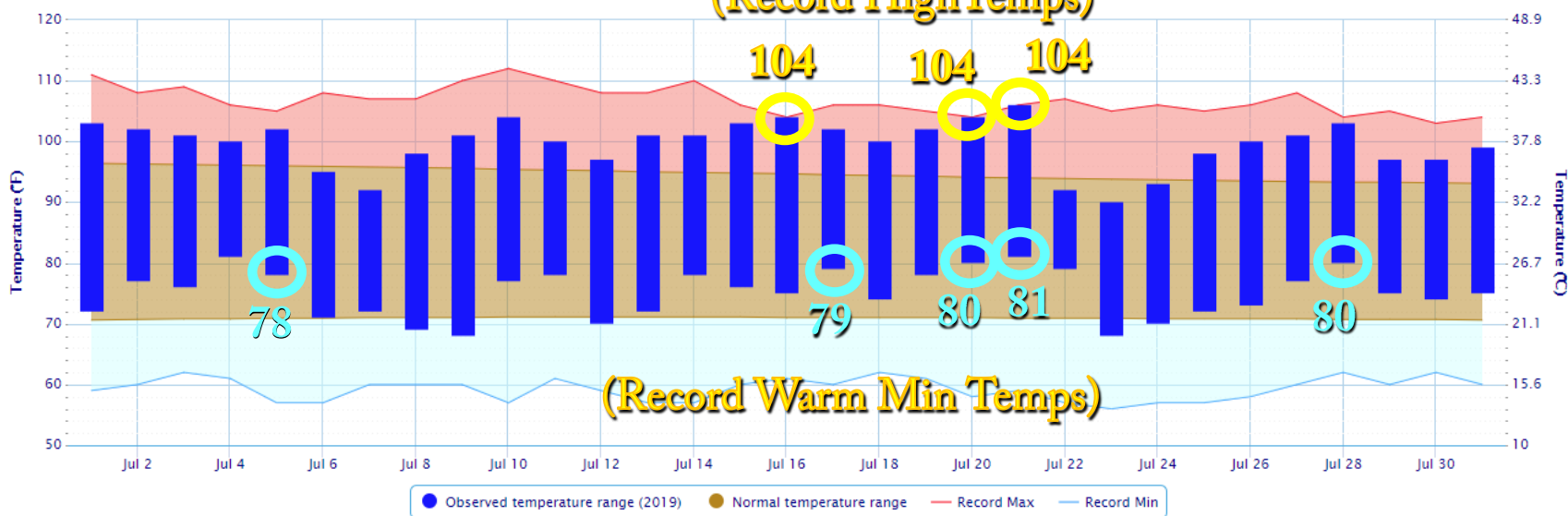
Historical Data

	Date	Percent Full	Mean Water Level (ft)	Reservoir Storage (acre-ft)	Conservation Storage (acre-ft)	Conservation Capacity (acre-ft)
Most recent	2019-08-04	27.1	4,343.22	534,219	534,219	1,973,358
1 day prior	2019-08-03	27.2	4,343.43	536,954	536,954	1,973,358
2 days prior	2019-08-02	27.3	4,343.62	539,659	539,659	1,973,358
1 week prior	2019-07-28	28.0	4,344.54	552,300	552,300	1,973,358
1 month prior	2019-07-04	28.3	4,345.05	559,387	559,387	1,973,358
3 months prior	2019-05-04	16.6	4,325.71	326,864	326,864	1,973,358
6 months prior	2019-02-04	7.4	4,303.18	145,490	145,490	1,973,358
1 year prior	2018-08-04	6.3	4,299.88	124,257	124,257	1,973,358

Temperature and precipitation data for July 2019 in El Paso

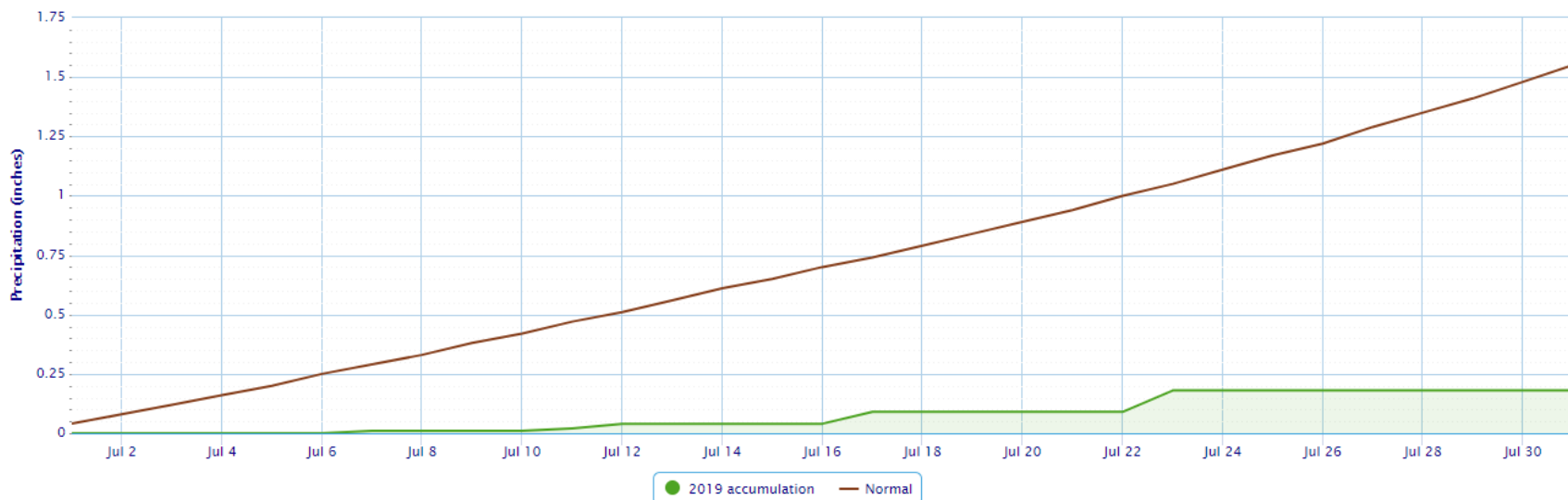
Daily Temperature Data – El Paso Area, TX (ThreadEx)

Period of Record – Max temperature: 1887-01-01 to 1919-07-31; Min temperature: 1981-2010. 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



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



El Paso TX - 2019

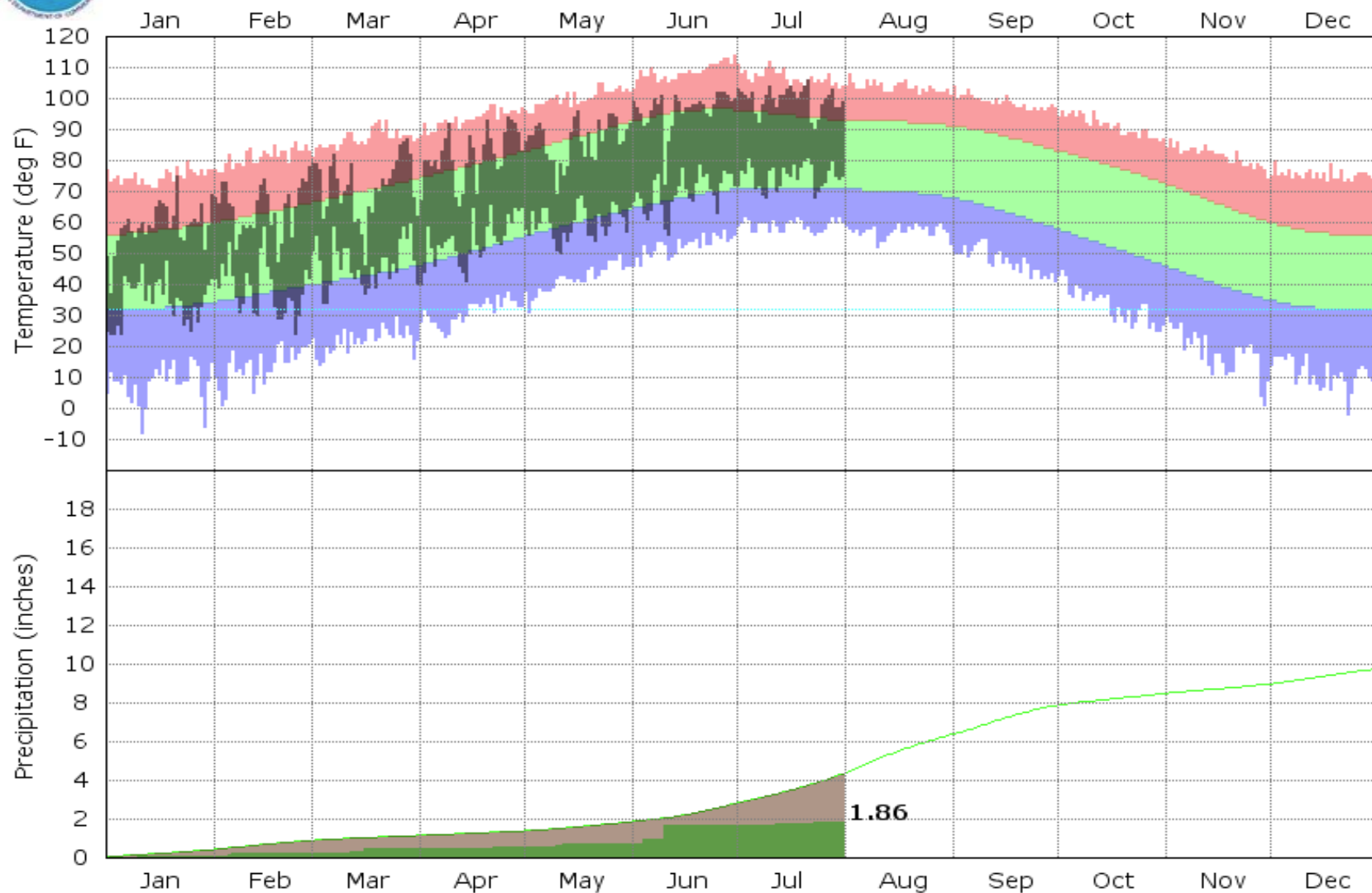
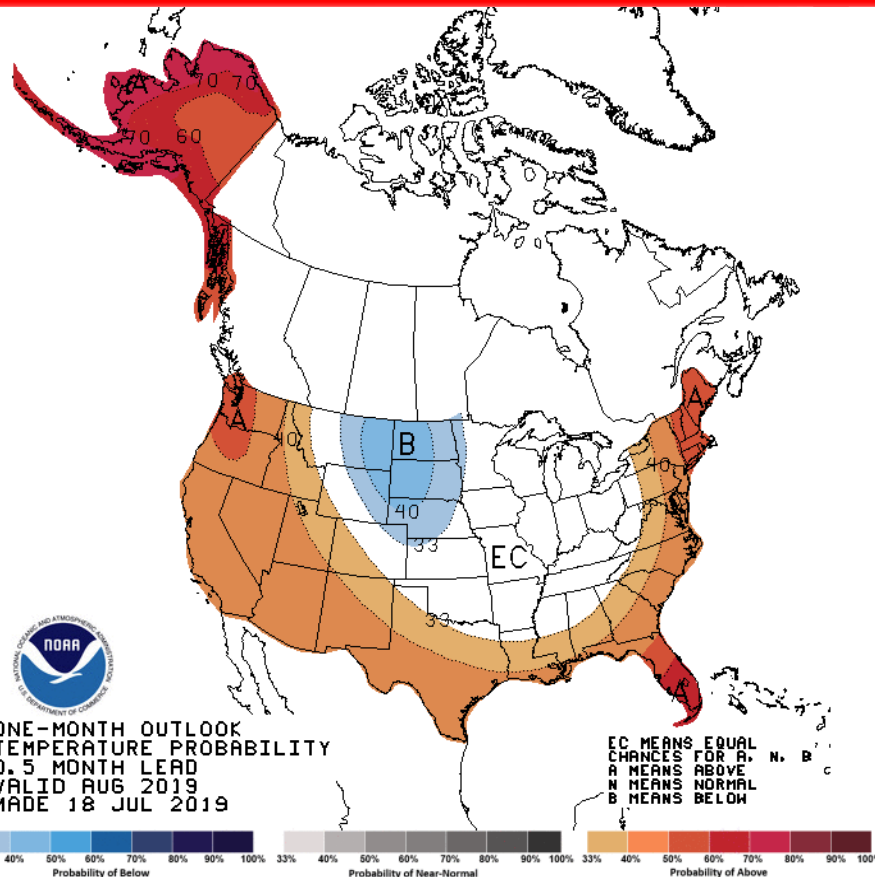


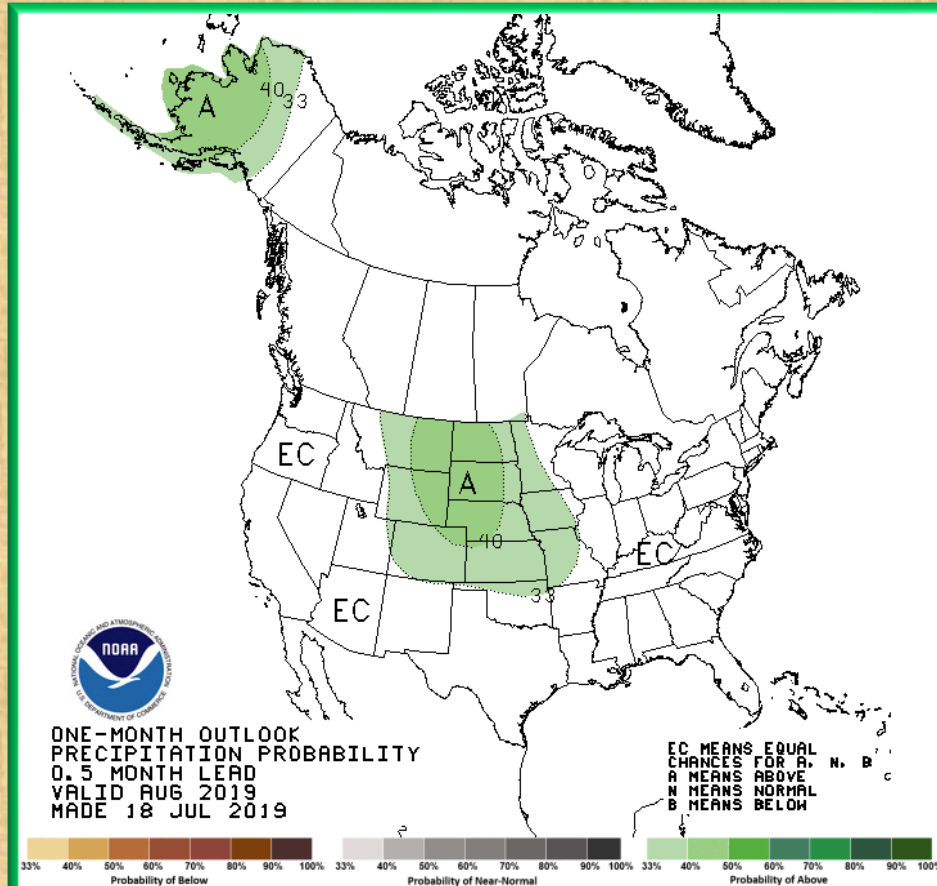
Image created: Fri, 2 Aug 2019 00:08 GM

Temperature and precipitation outlook for August 2019

Temperature

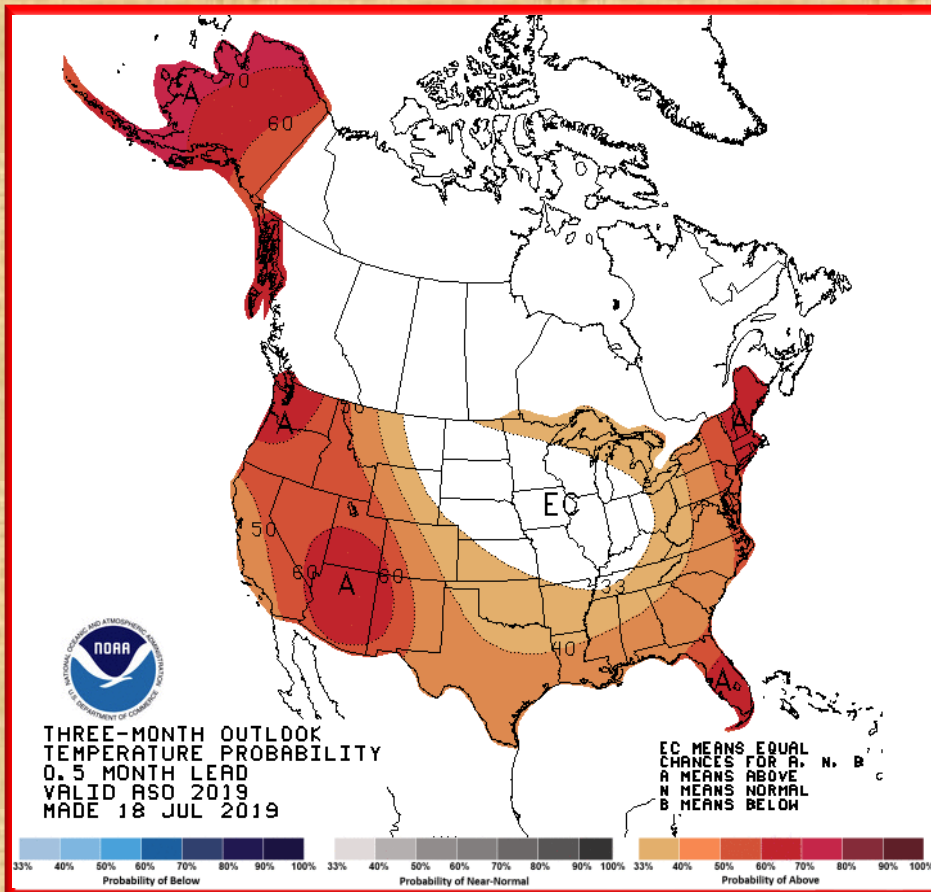


Precipitation

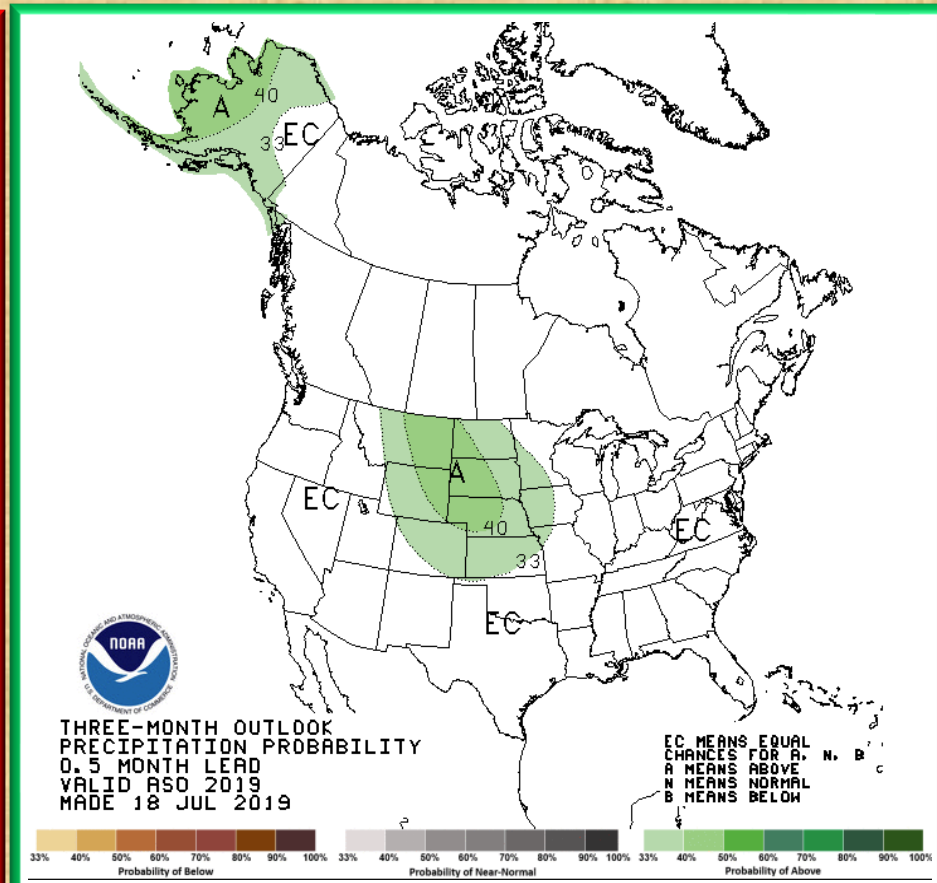


Temperature and precipitation outlook For August-October 2019

Temperature

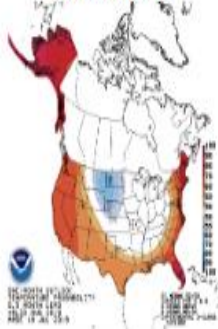


Precipitation

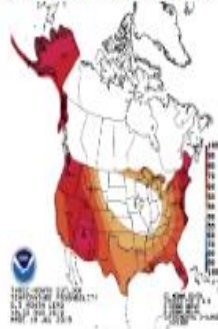


Temperature Outlook Through October 2020

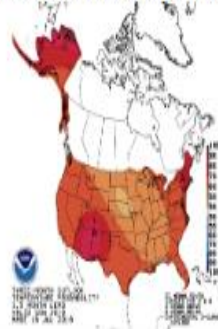
August 2019



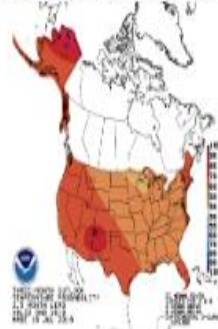
August-September-October 2019



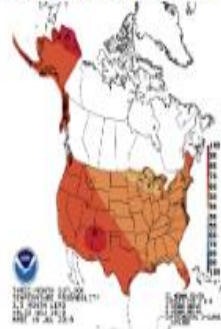
September-October-November 2019



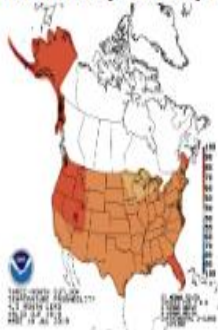
October-November-December 2019



November-December-January 2019/20



December-January-February 2019/20



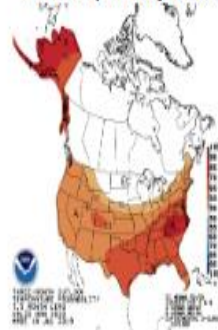
January-February-March 2020



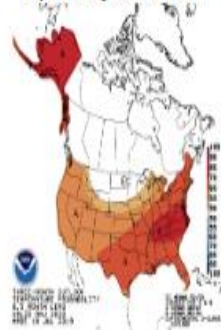
February-March-April 2020



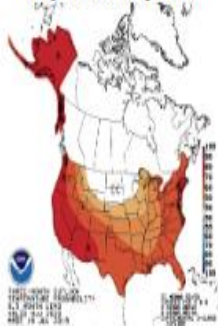
March-April-May 2020



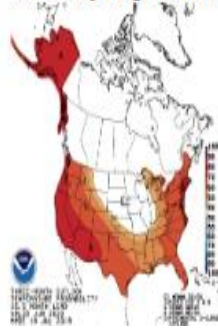
April-May-June 2020



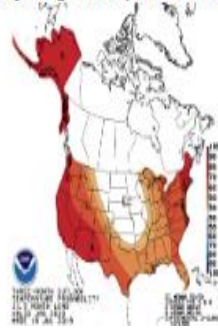
May-June-July 2020



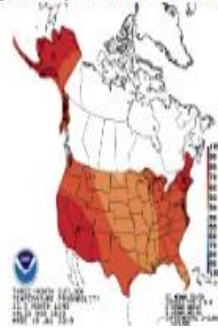
June-July-August 2020



July-August-September 2020

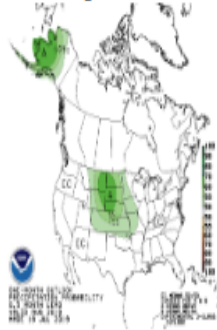


August-September-October 2020

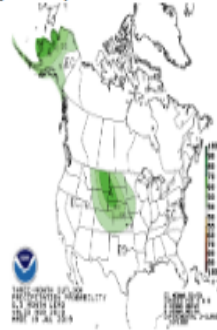


Precipitation Outlook Through October 2020

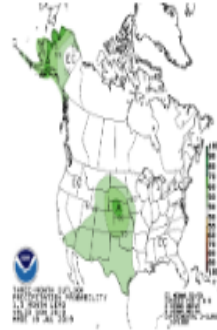
August 2019



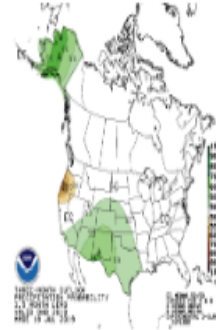
August-September-October 2019



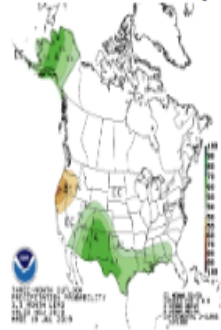
September-October-November 2019



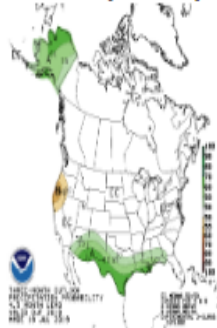
October-November-December 2019



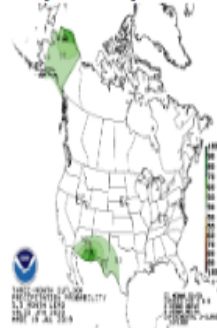
November-December-January 2019/20



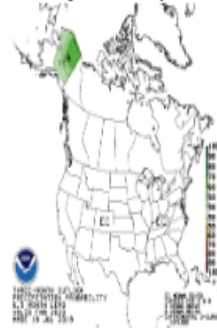
December-January-February 2019/20



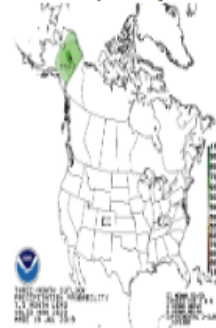
January-February-March 2020



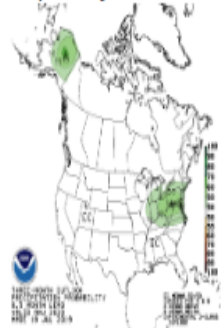
February-March-April 2020



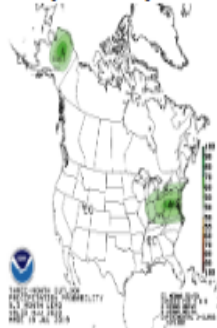
March-April-May 2020



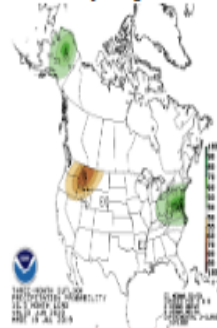
April-May-June 2020



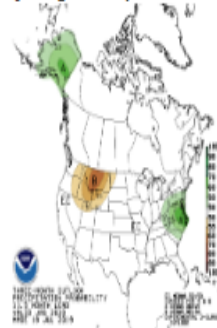
May-June-July 2020



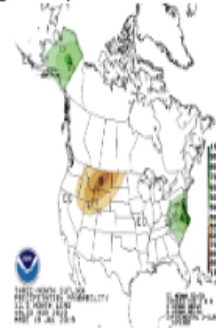
June-July-August 2020



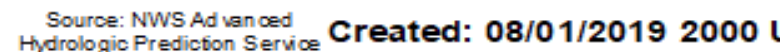
July-August-September 2020



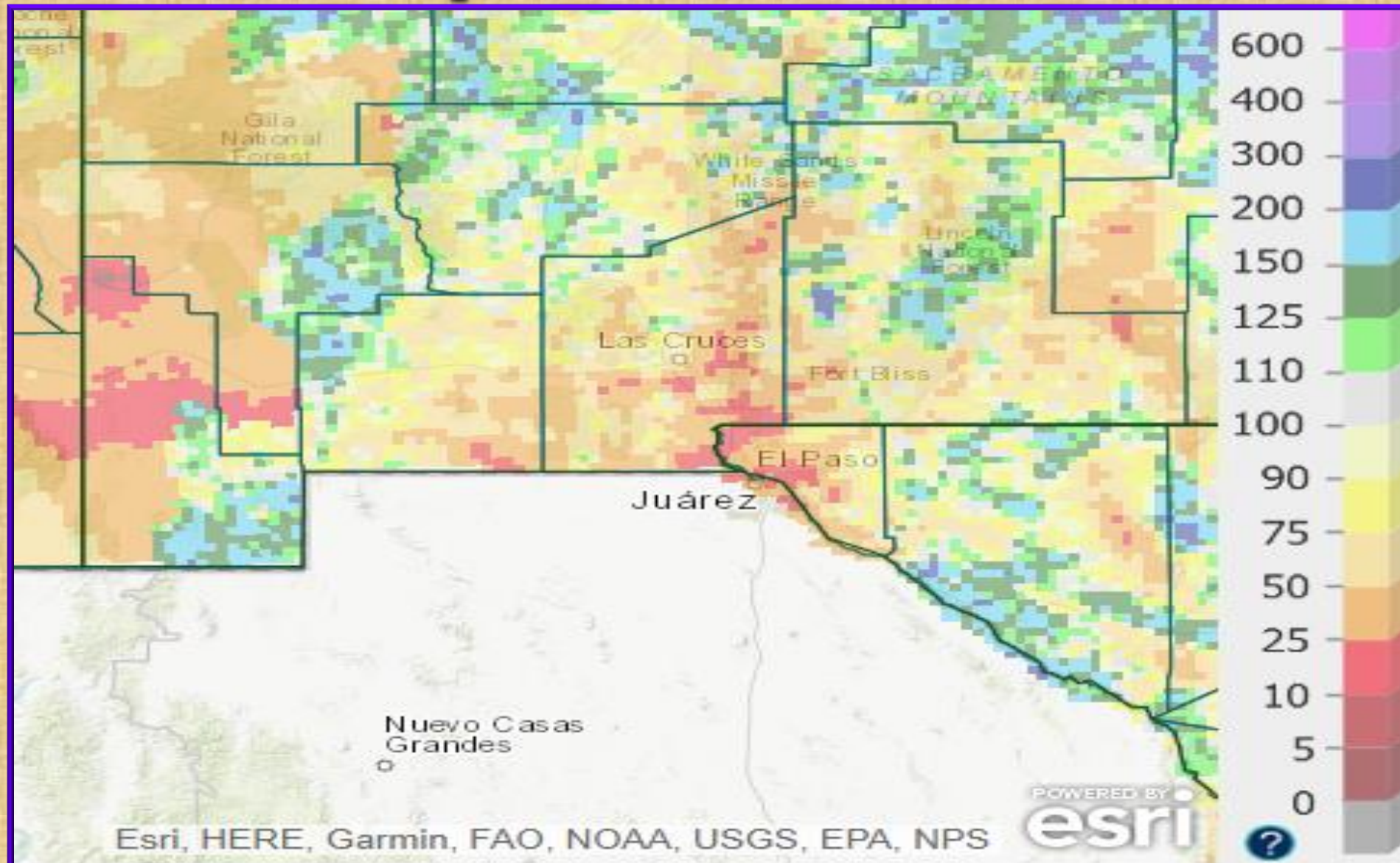
August-September-October 2020



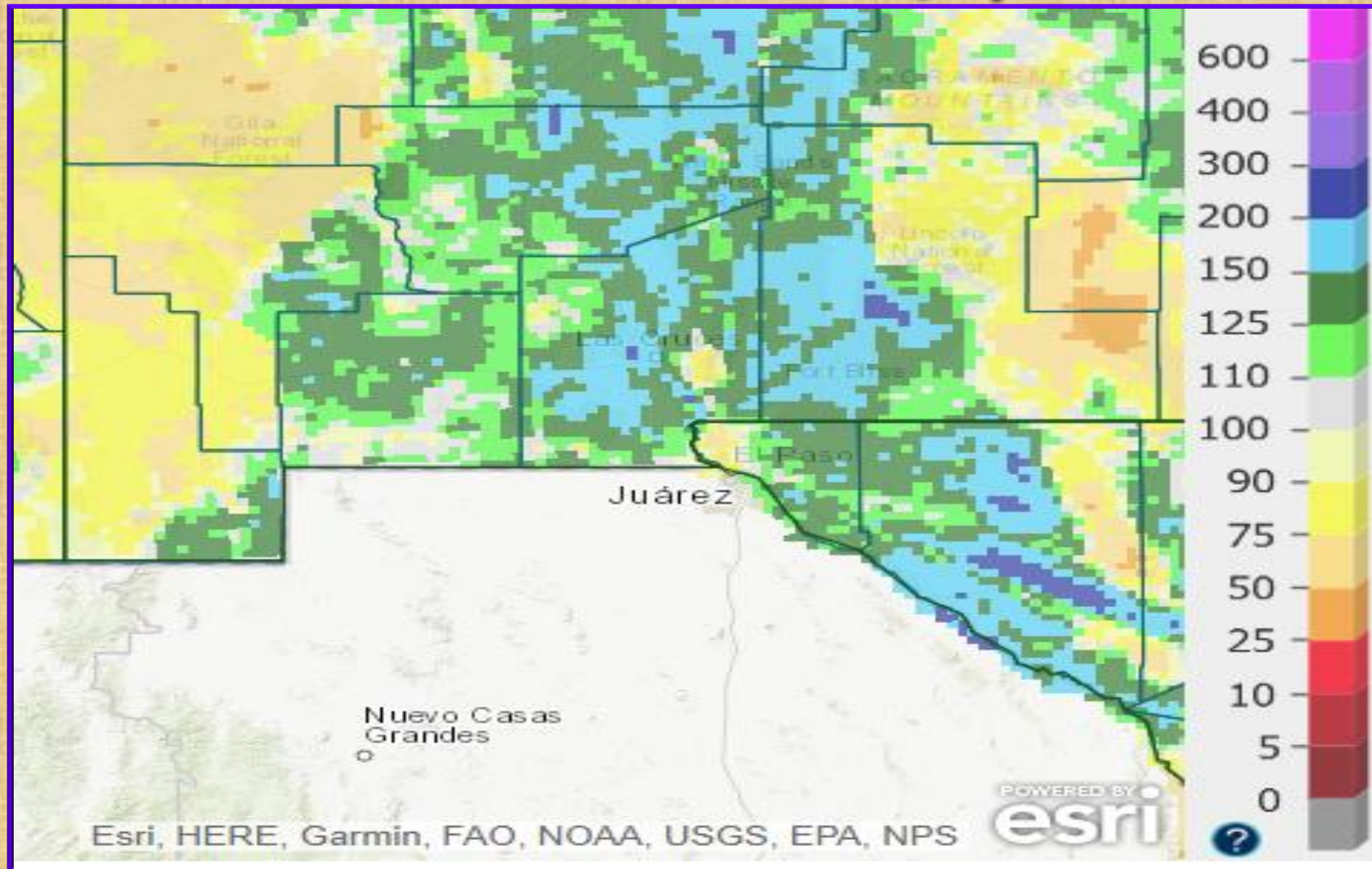
July 2019 radar rainfall estimate with surface rainfall reports



July 2019 radar rainfall estimate percent of normal



Radar rainfall estimate percent of normal for the Water Year (Oct 1 to July 31)



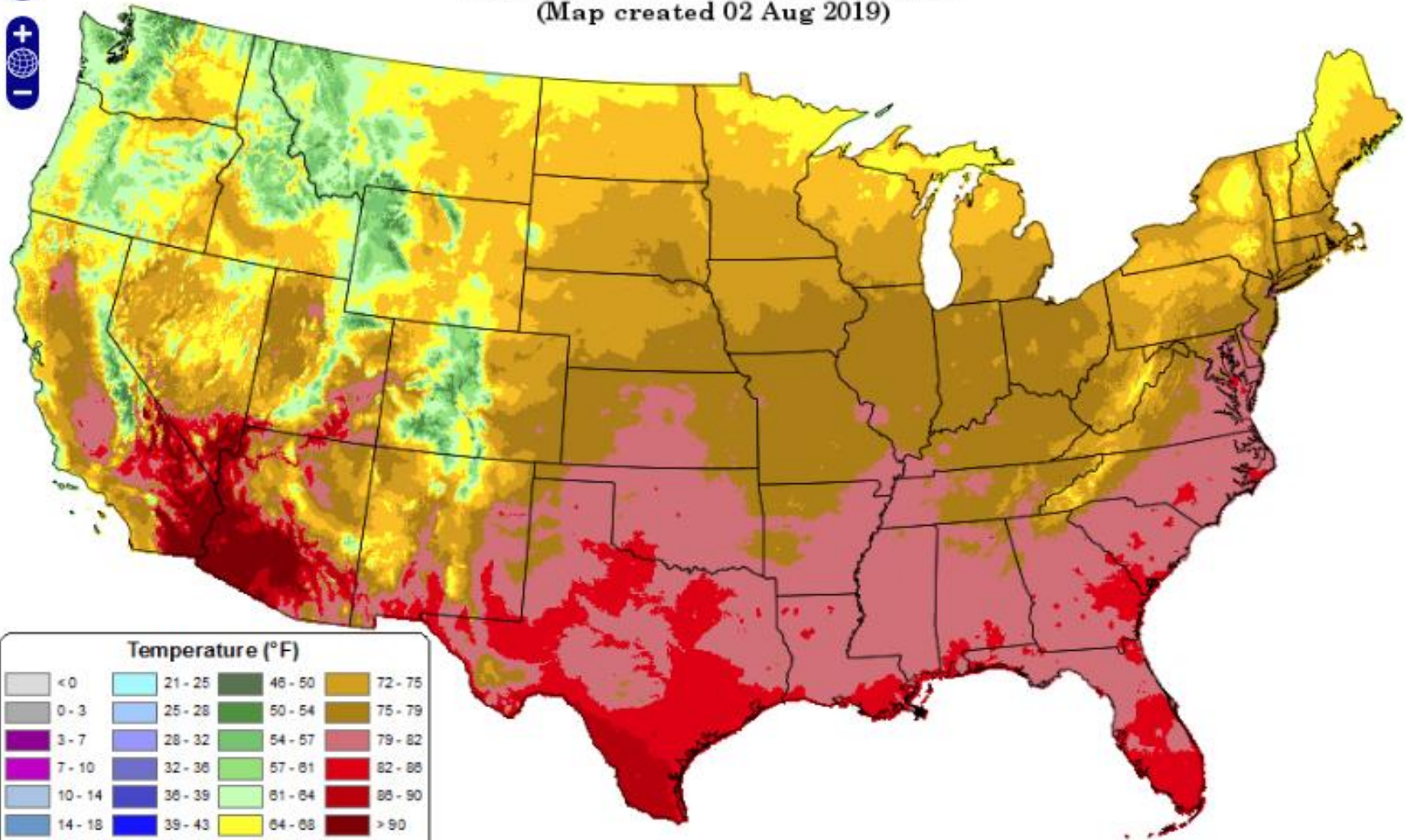
Average Daily Mean Temperature for July 2019



Average Daily Mean Temperature: Jul 2019

Period ending 7 AM EST 31 Jul 2019

(Map created 02 Aug 2019)



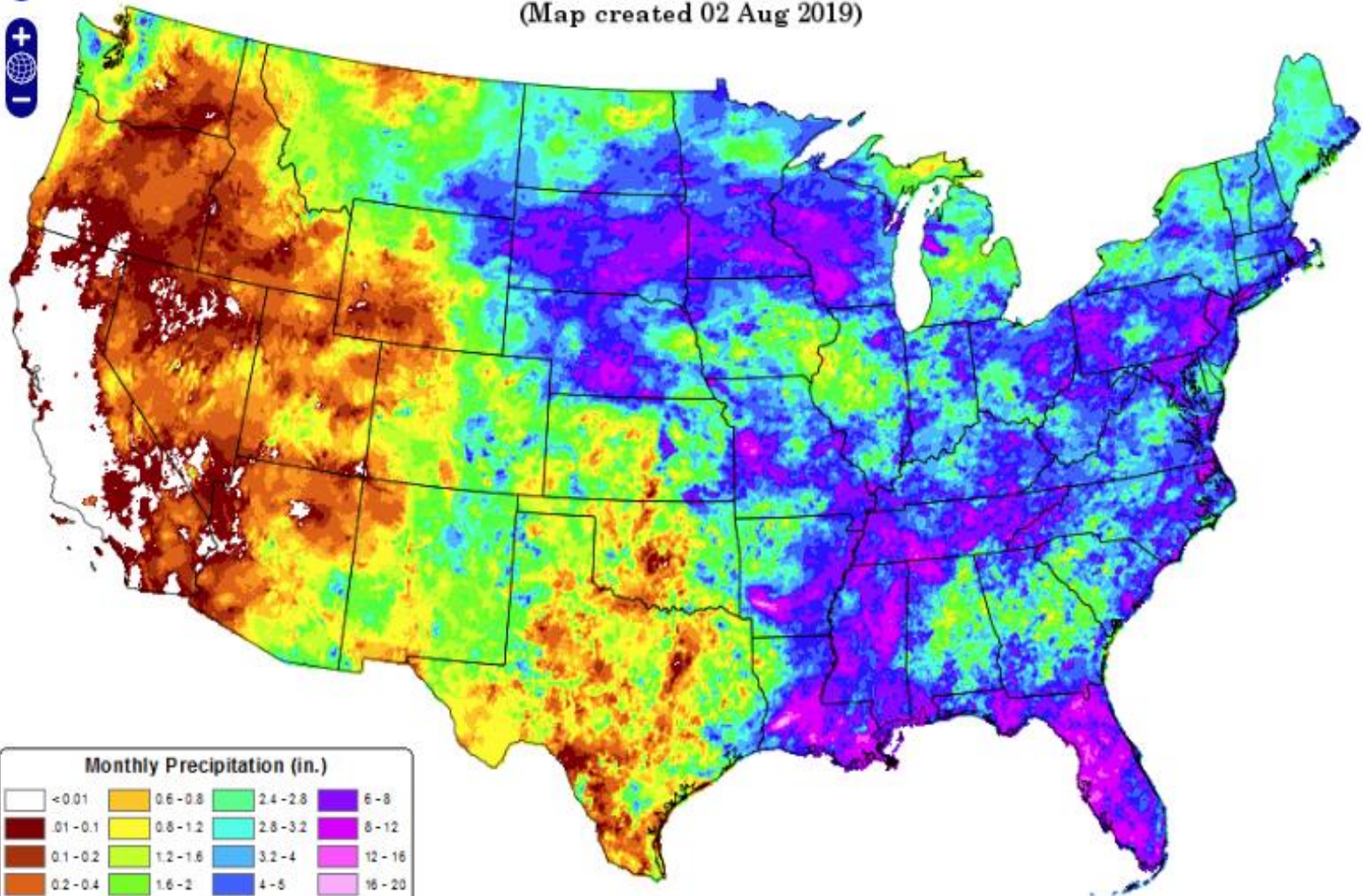
Total Precipitation for July 2019



Total Precipitation: Jul 2019

Period ending 31 Jul 2019

(Map created 02 Aug 2019)



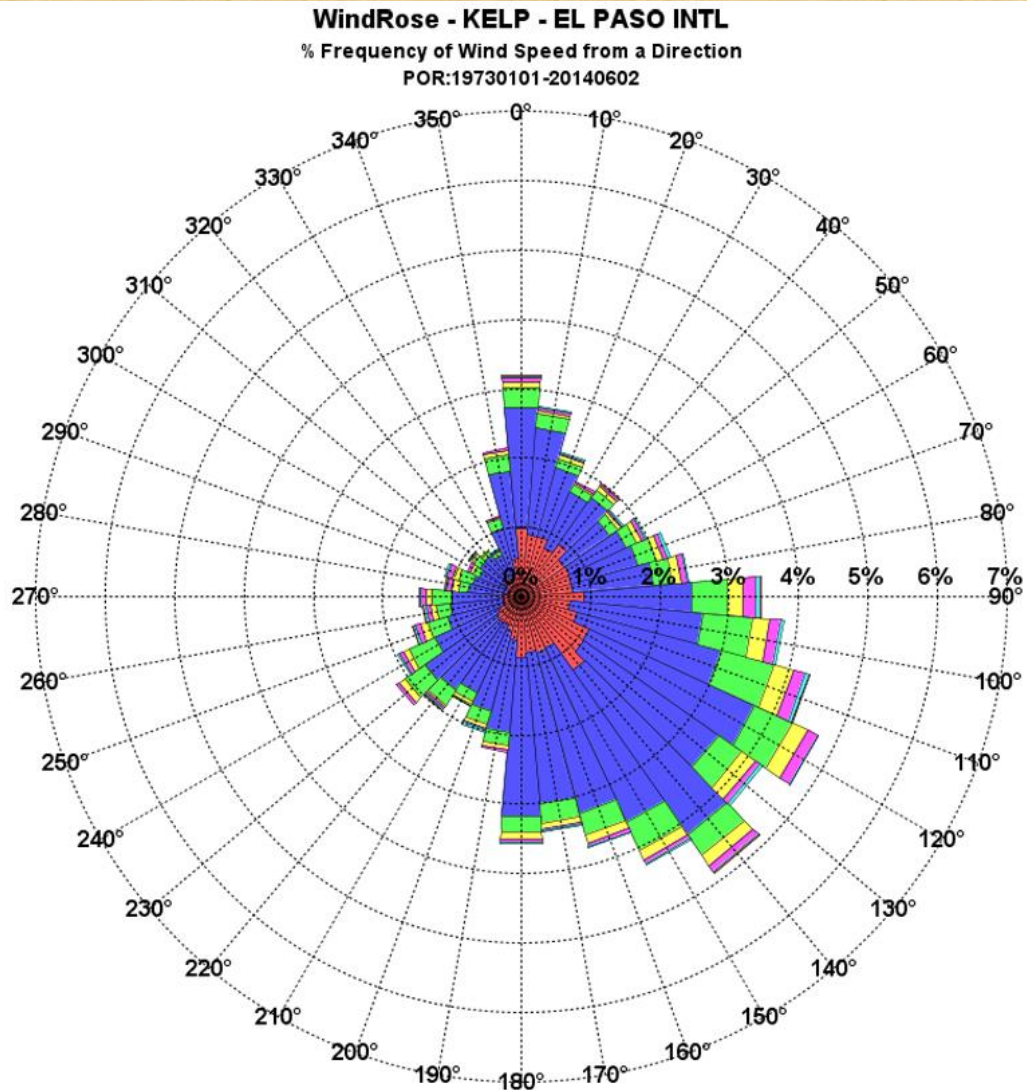
Special Features

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

Month: JULY


Calm: 9.05%

Variable: 4.23%



Selected weather reports July 2019

Date/Time	Location (County)	Event
JULY 1 640 PM	TULAROSA 9W-OTERO	60 MPH WIND GUST-TSTORM
JULY 2 500 PM	NORTHRUP STRIP-DONA ANA	53 MPH WIND GUST-TSTORM
JULY 2 535 PM	TULAROSA 20NW-OTERO	70 MPH WIND GUST-TSTORM
JULY 3 624 PM	ALAMOGORDO 1SE-OTERO	WIND DAMAGE-TREES



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Local forecast by "City, ST" or ZIP code

[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 >](#)

NWS El Paso

[Weather.gov > El Paso, TX](#)

El Paso, TX
Weather Forecast Office


[Current Hazards](#)
[Current Conditions](#)
[Radar](#)
[Forecasts](#)
[Rivers and Lakes](#)
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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

[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 >](#)

Monthly Weather Digest

[Weather.gov > El Paso, TX > Monthly Weather Digest](#)

El Paso, TX
Weather Forecast Office

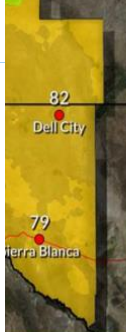
[Current Hazards](#)
[Current Conditions](#)
[Radar](#)
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[Rivers and Lakes](#)
[Climate and Past Weather](#)
[Local Programs](#)



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	



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.

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

