

May 2017 Weather Digest



May 2017 Weather Summary

May was a relatively quiet month with very few wind storms (as the season normally is winding down), though with few, if any storms, the month ended up being quite dry. With the exception of the Black Range and the central Rio Grande Valley from Las Cruces to the lakes, the area received below normal precipitation. This prompted much of the area to go into the abnormally dry rating for the season, with much of the area west of the Continental Divide moving into the moderate drought category. Hopefully the summer monsoon will alleviate the beginnings of this drought.

Temperatures for the most part were a shade below normal for May. This interrupted a string of months going back to last September of above normal temperatures. El Paso airport's monthly average temperature was still a bit above normal but most other places reported a below normal May for temperatures.

The first wind storm of the month struck on the 16th as a strong Pacific upper trough moved across the area. Widespread blowing dust did not materialize, but a few areas of west Texas did experience the dust. Toward the end of the month, the area finally got a push of moist air in. Strong east winds beginning on the 29th, brought Gulf of Mexico moisture into the Borderland. This began a stretch of several days of thunderstorms. The storms were especially strong on the 30th, with several areas receiving moderate to large hail.

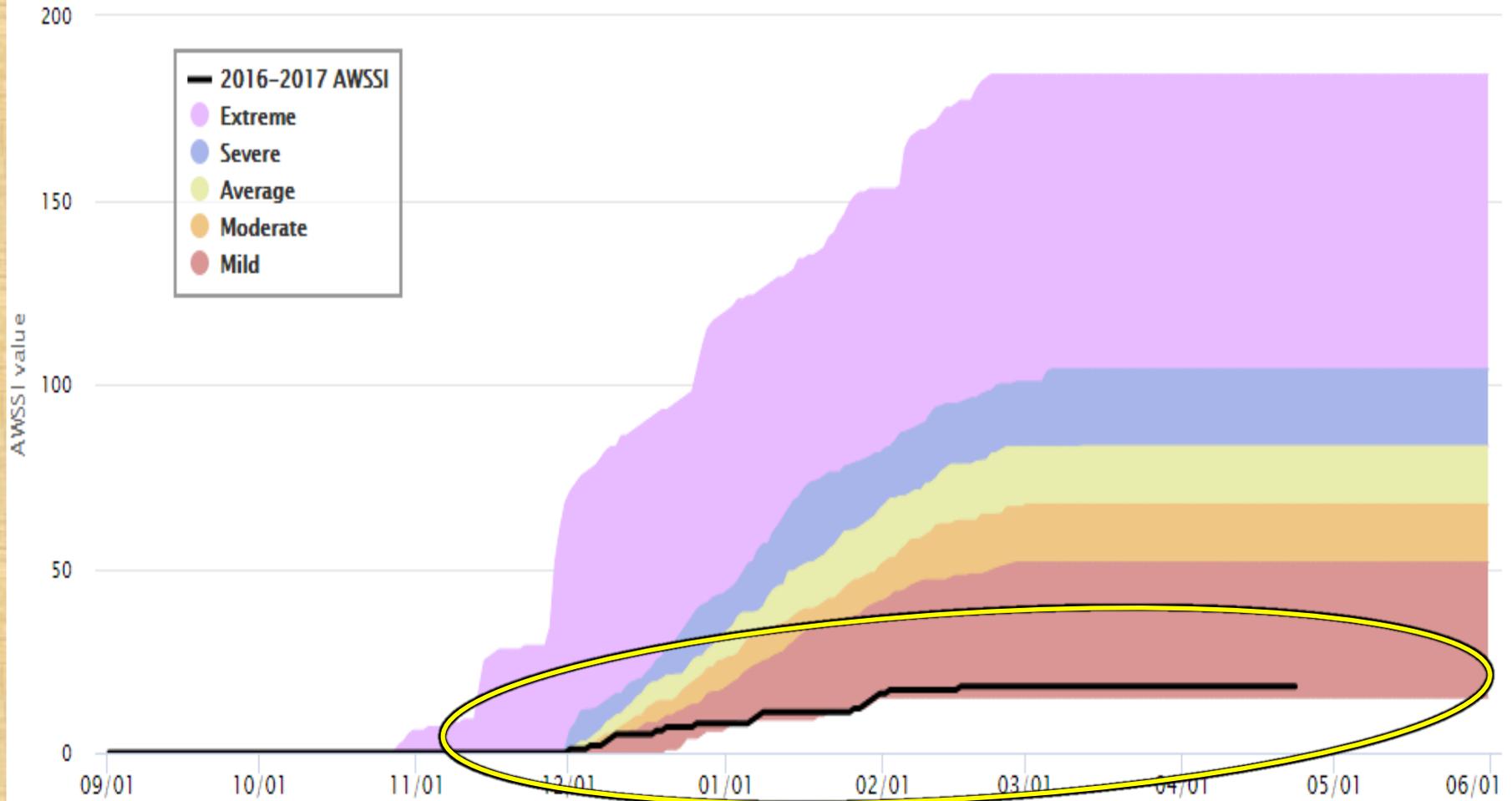
May 2017 Weather Summary (cont'd)

One last look at the 2016-2017 winter; A look at the graphs for El Paso and Cloudcroft (see below), show that this past winter was very mild, with above average temperatures and below normal snow fall. This correlates well with the La Niña weather pattern we experienced this winter.

Accumulated Winter Season Severity Index (AWSSI) shows very mild winter in El Paso

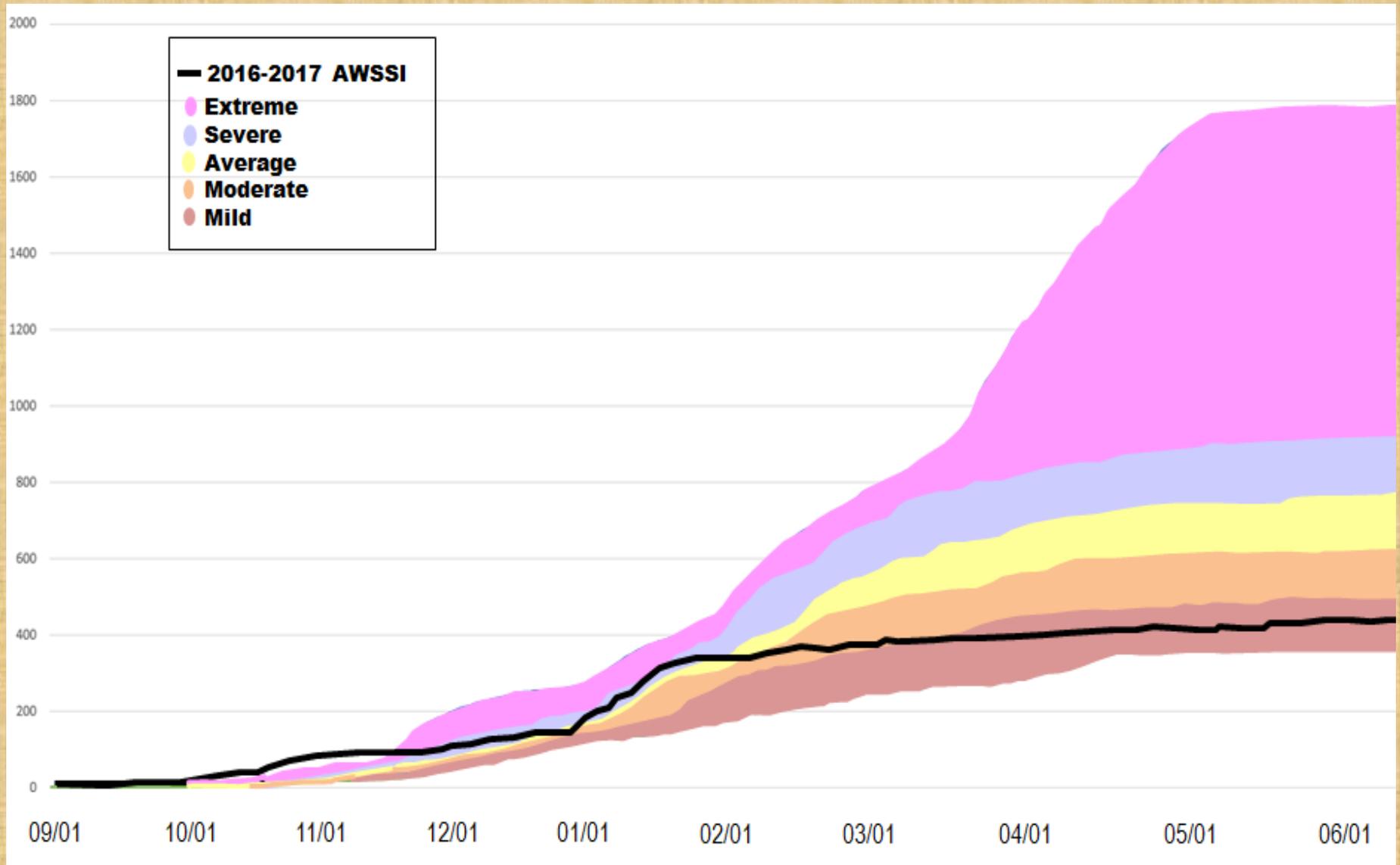
2016-2017 AWSSI: "TX - El Paso"

Season: 2016-12-01 to 2017-02-28, 90 days



(c) Midwestern Regional Climate Center

Accumulated Winter Season Severity Index (AWSSI) shows very mild winter in Cloudcroft



Dust at Santa Teresa NWS May 16

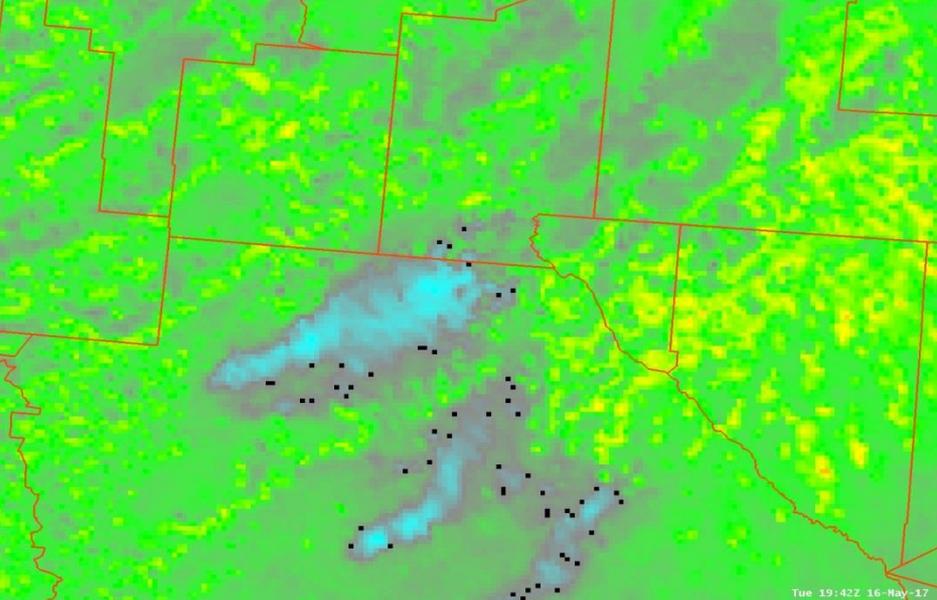


Lordsburg Dust near Lordsburg May 16

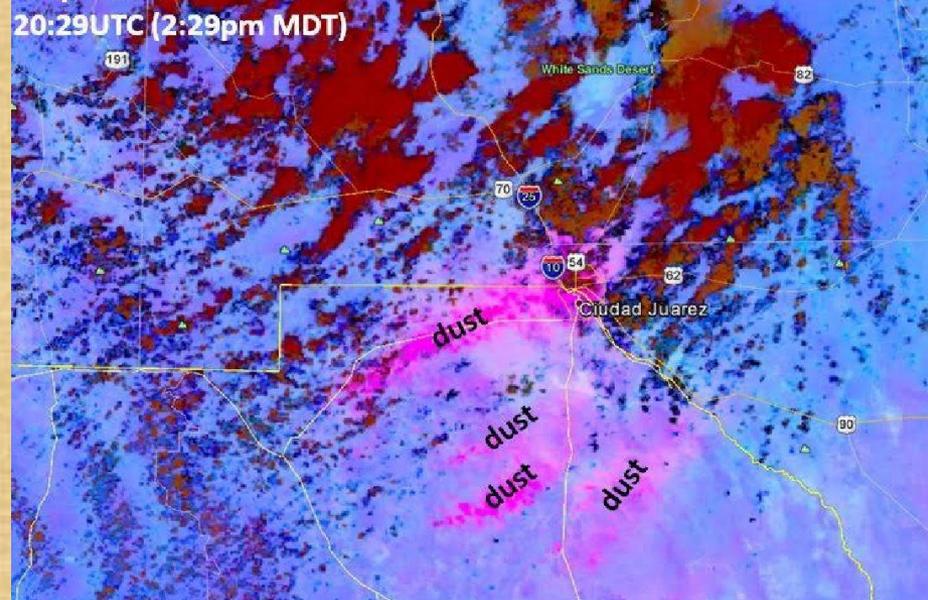
I-10 (MM 10)



Dust via Satellite May 16



NASA VIIRS PORT dust map May 16, 2017 20:29UTC (2:29pm MDT) Dust via Satellite May 16



Hail NE El Paso May 30



Hail NE El Paso May 30



Hail El Paso May 30



Hail El Paso May 30



Thunderstorm El Paso May 30



Minor flooding NE El Paso May 30



Thunderstorm El Paso May 30



Thunderstorm El Paso May 30



No Advisory in effect

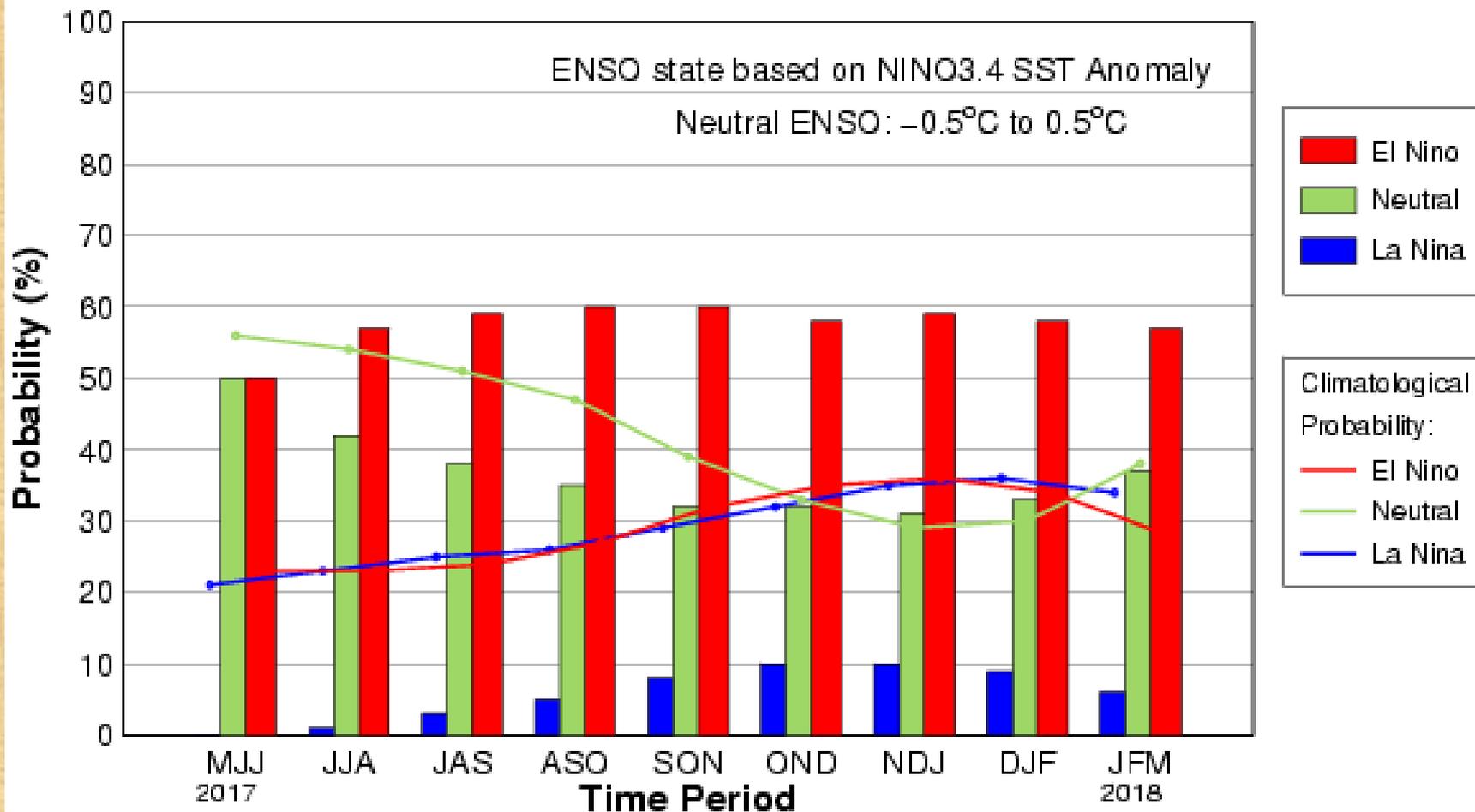
ENSO Alert System

- **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 from May into early winter of 2017

ENSO IS NOW IN A **NEUTRAL** PERIOD. FAVORING GOING TO EL NINO BY SUMMER

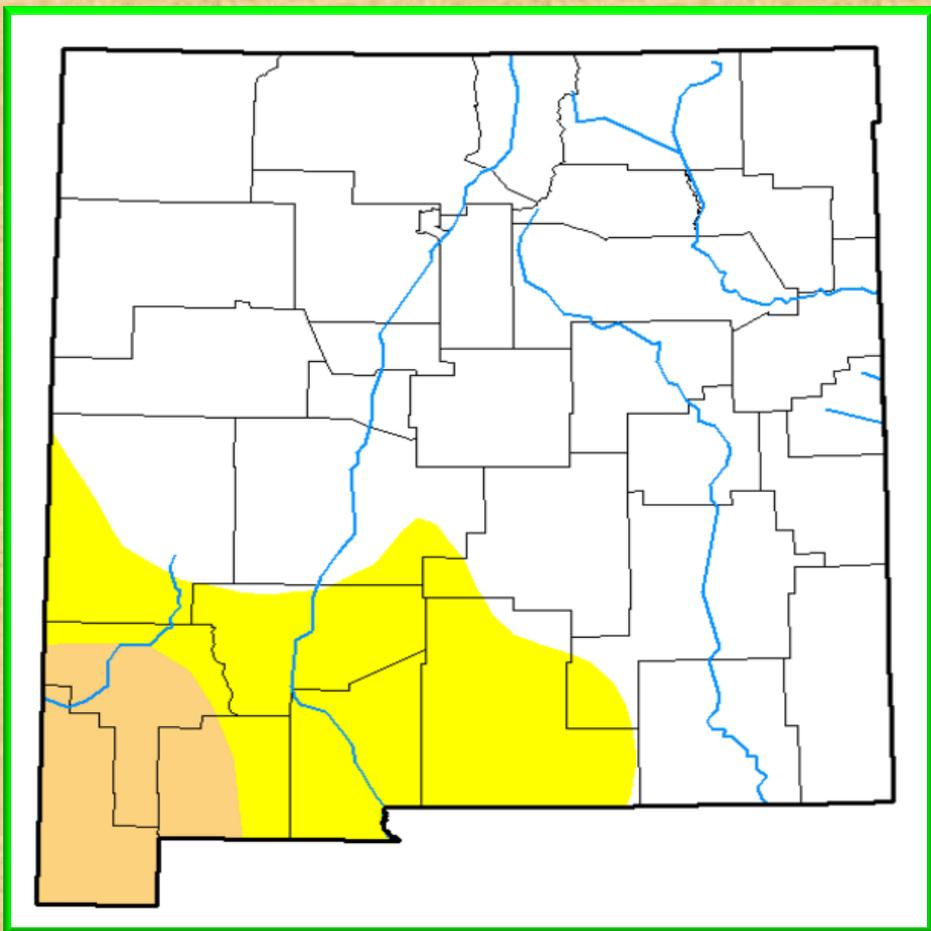
Mid-May IRI/CPC Model-Based Probabilistic ENSO Forecast



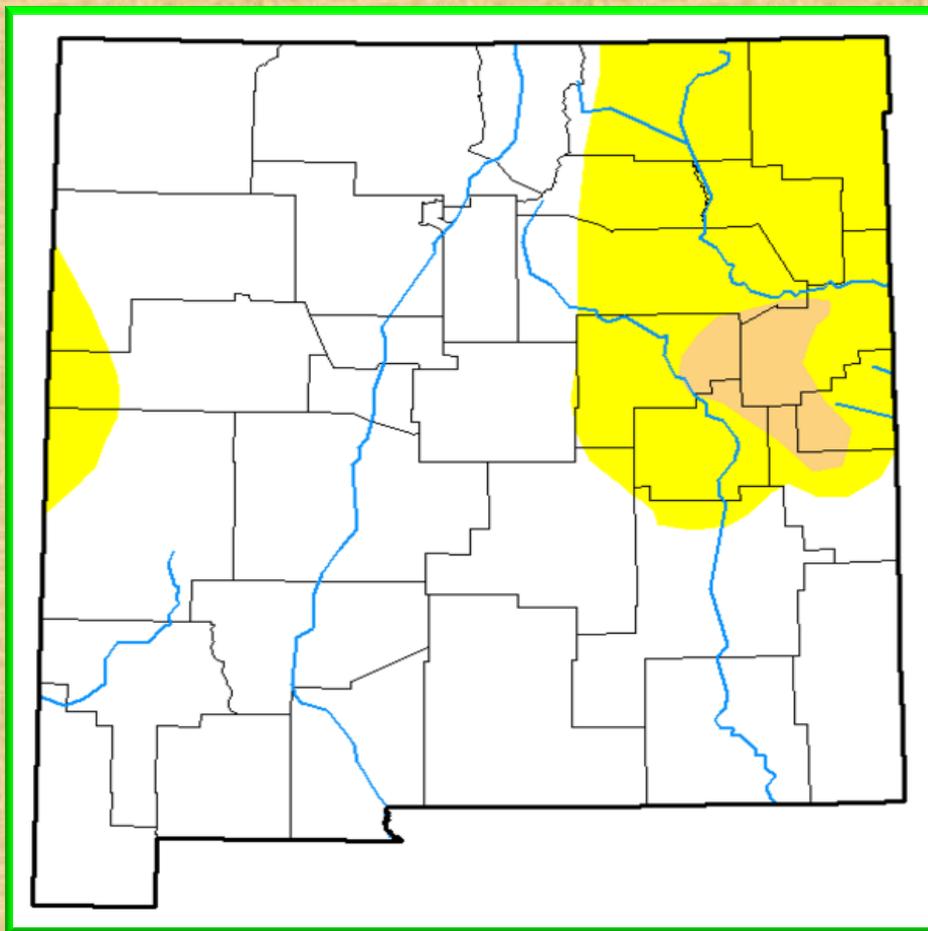
Current drought conditions for New Mexico and 3 month change

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

May 23, 2017



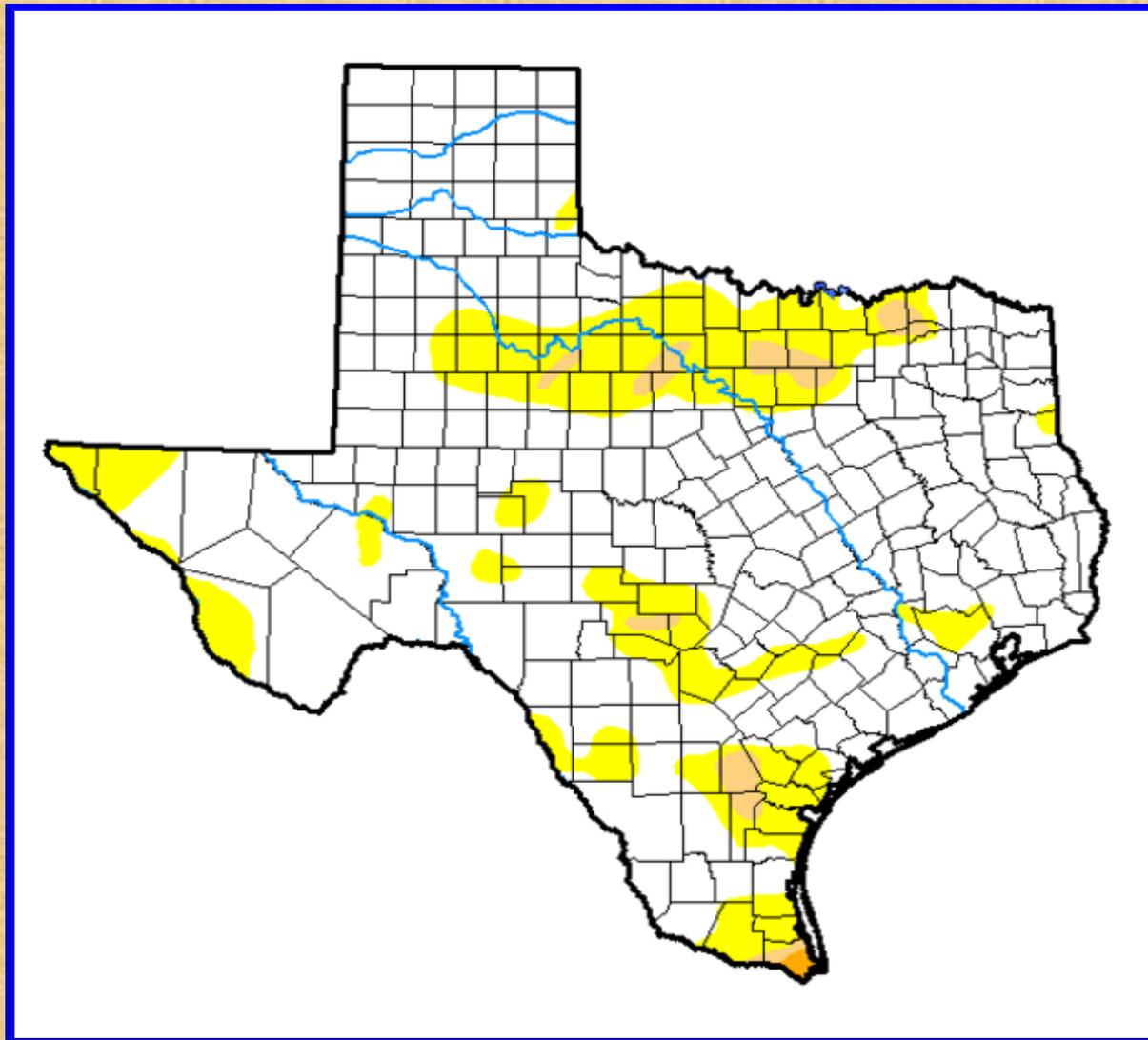
February 28, 2017



Current drought conditions for Texas as of May 23, 2017

Intensity:

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



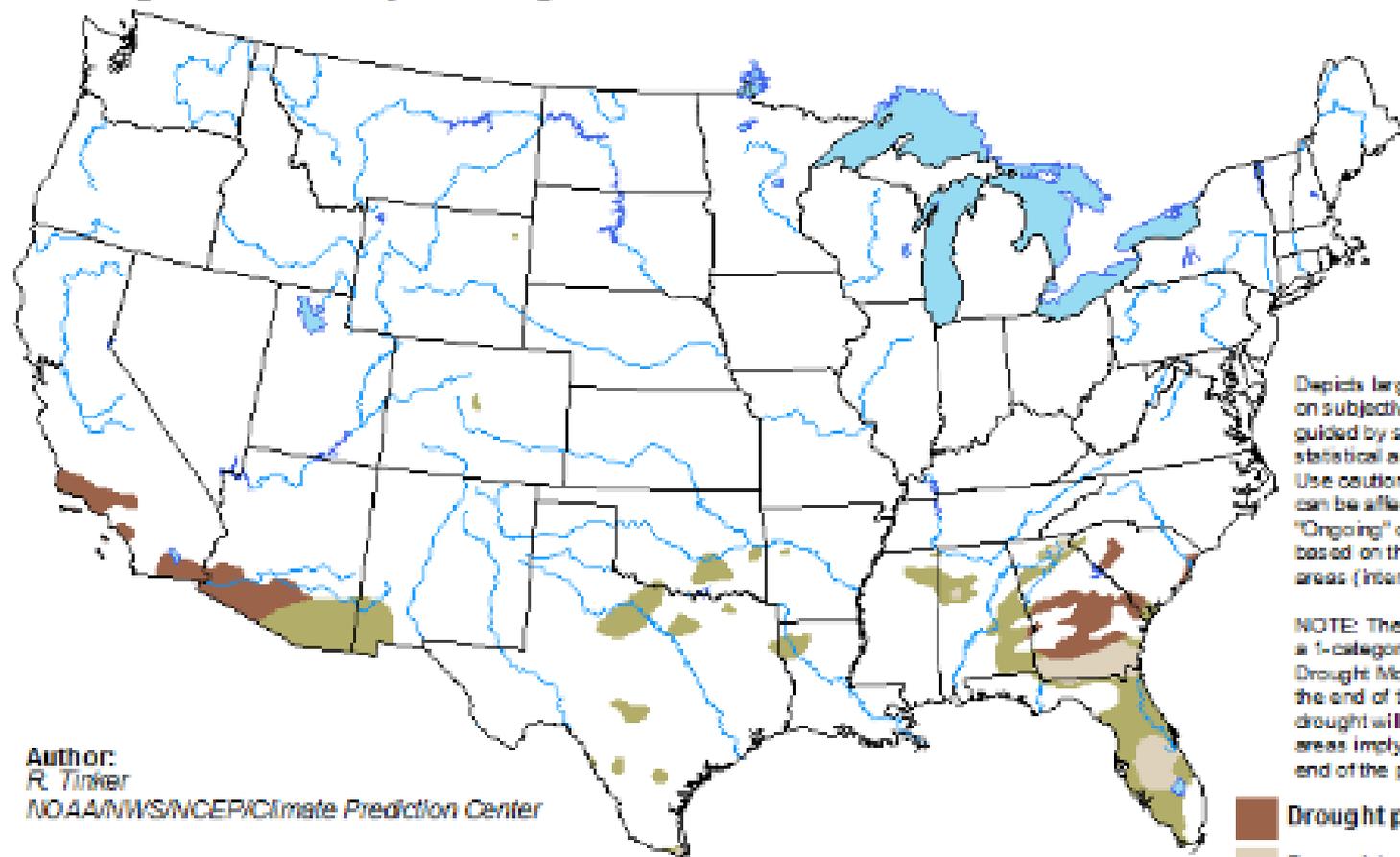
Build your own custom slider maps here at:

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

U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for May 18 - August 31, 2017
Released May 18, 2017

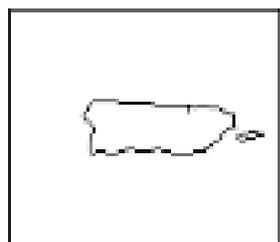
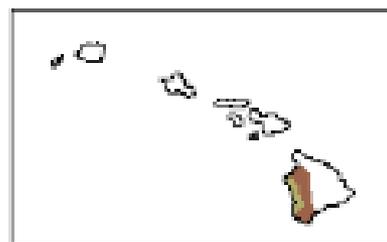
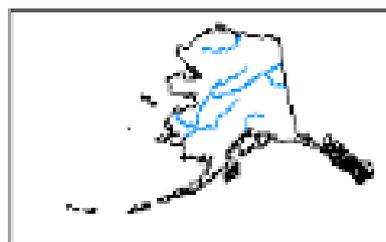


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensity of D1 to 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

Author:
R. Tinker
NOAA/NWS/NCEP/Climate Prediction Center

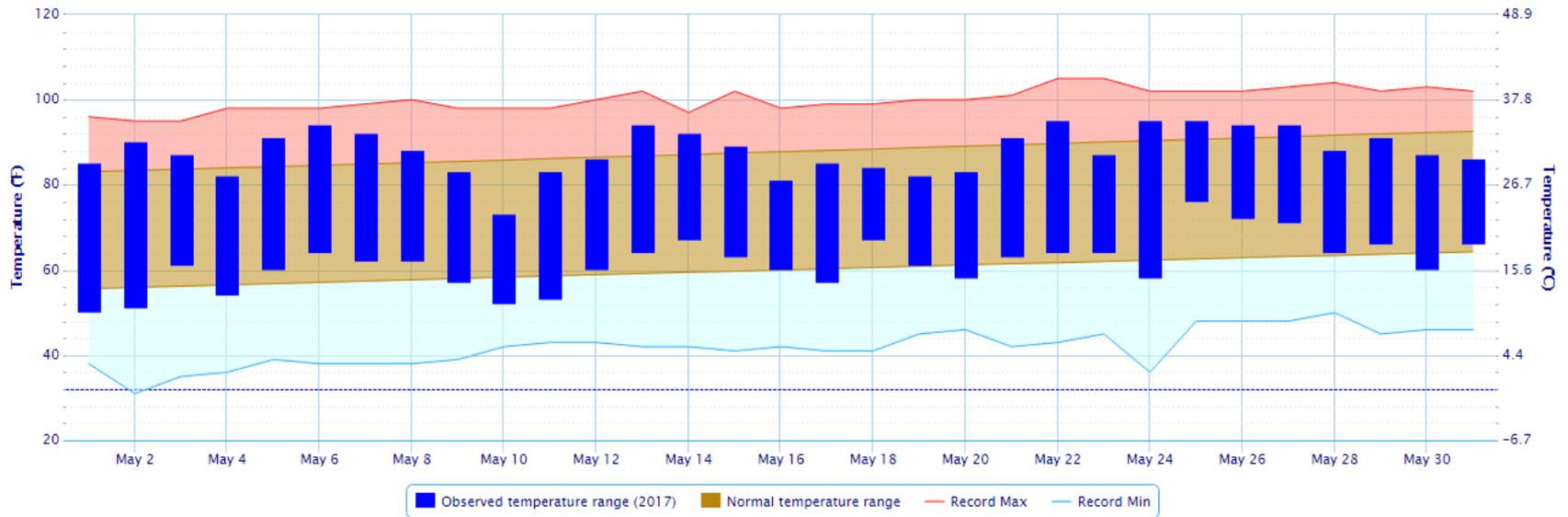


<http://go.usa.gov/3eZ73>

Temperature and precipitation data for May 2017 in El Paso

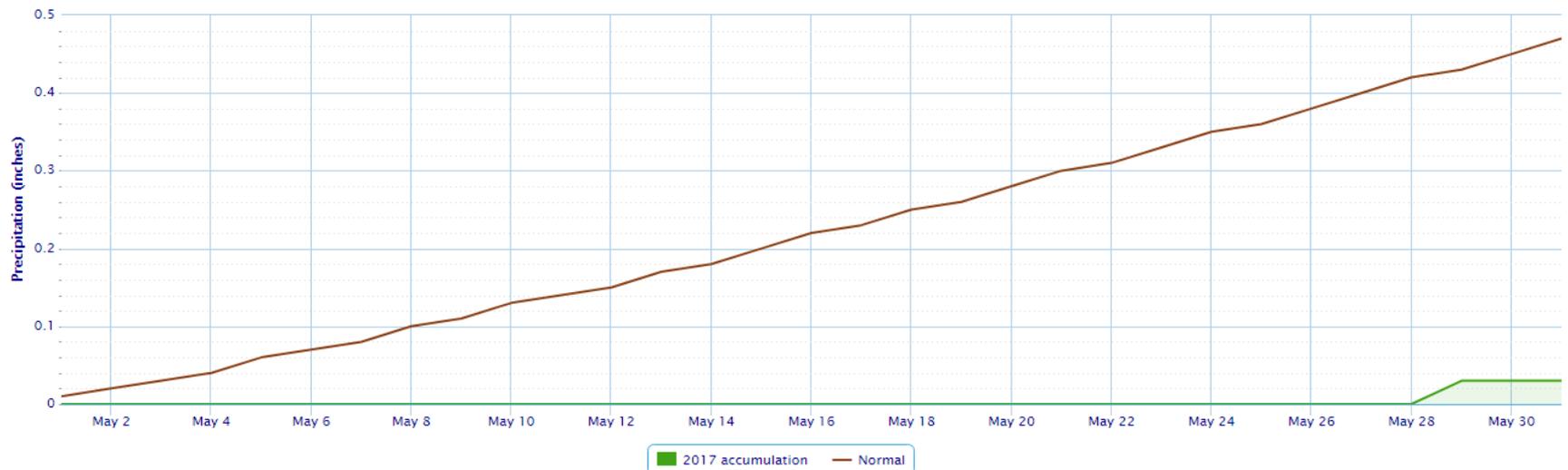
Daily Temperature Data – El Paso Area, TX (ThreadEx)

Period of Record – Max temperature: 1887-01-01 to 2017-06-01; Min temperature: 1879-01-01 to 2017-06-01. Normals period: 1981-2010. Click and drag to zoom chart.



Accumulated Precipitation – El Paso Area, TX (ThreadEx)

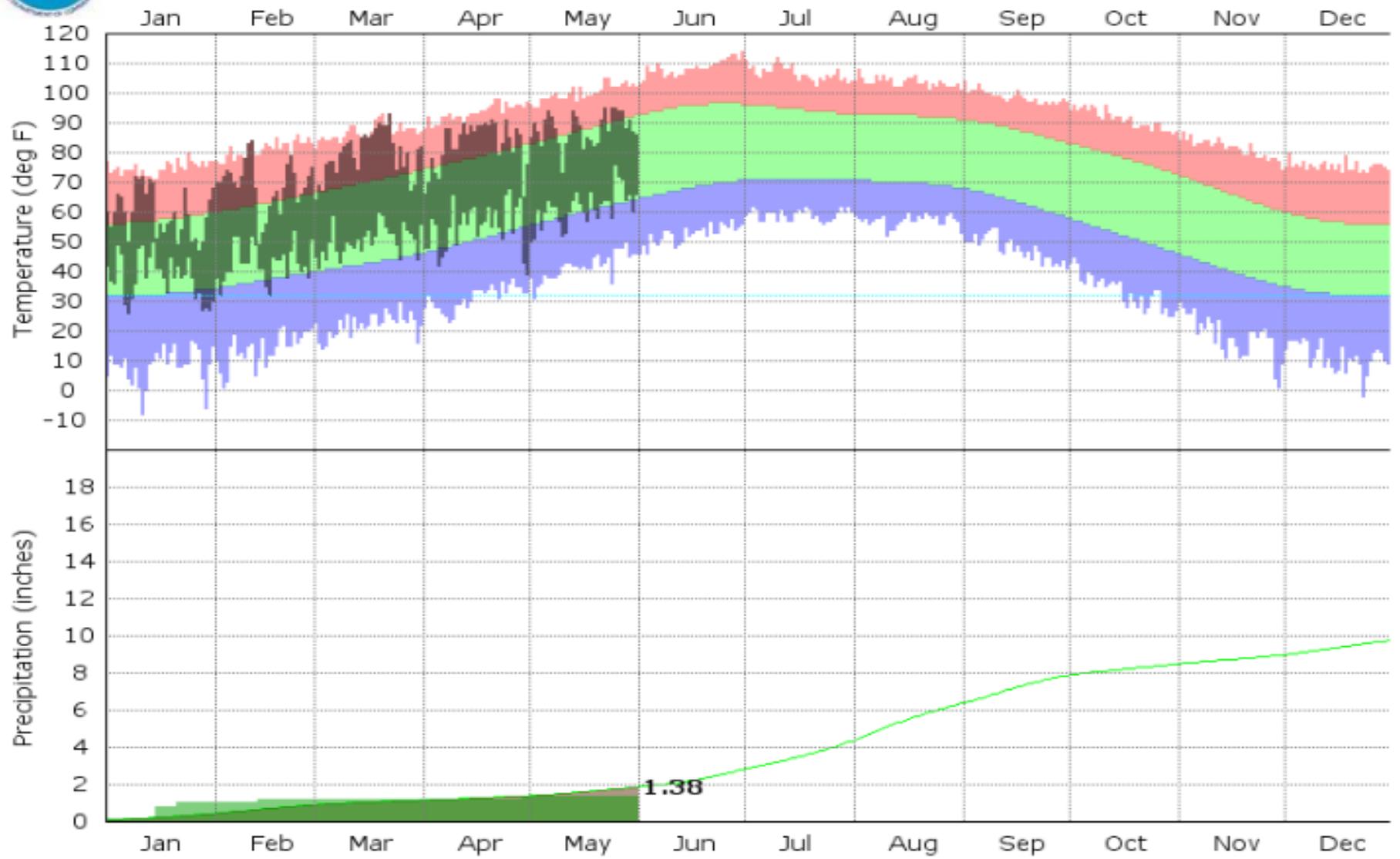
Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



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



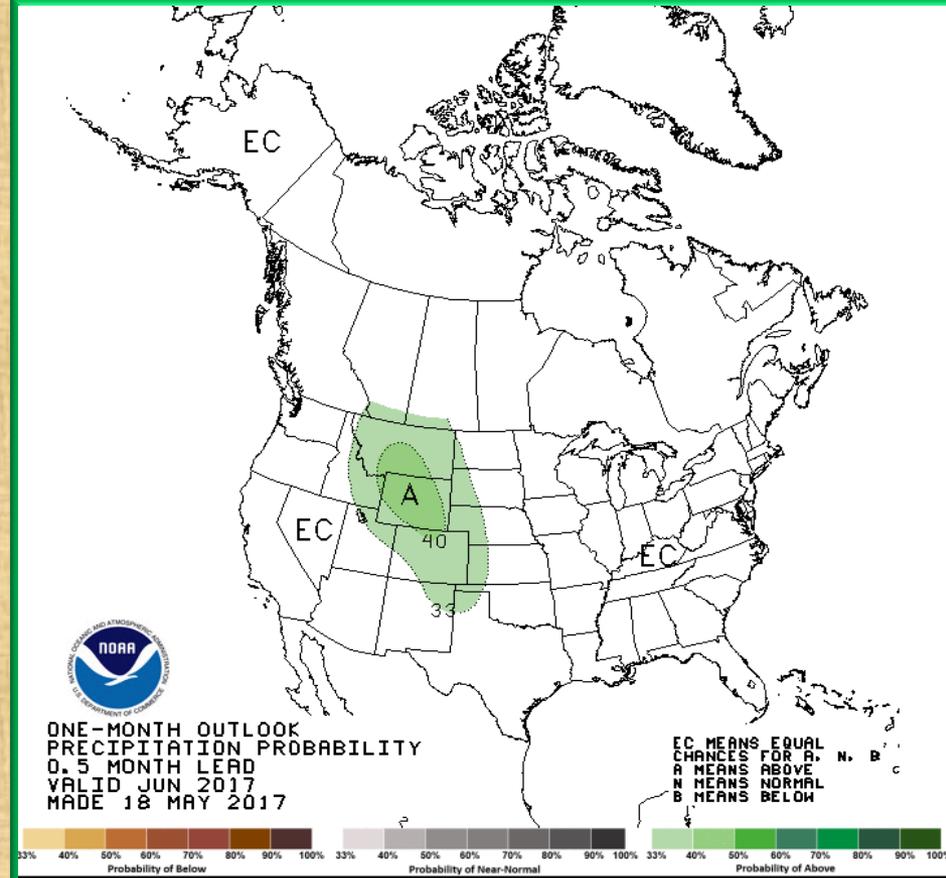
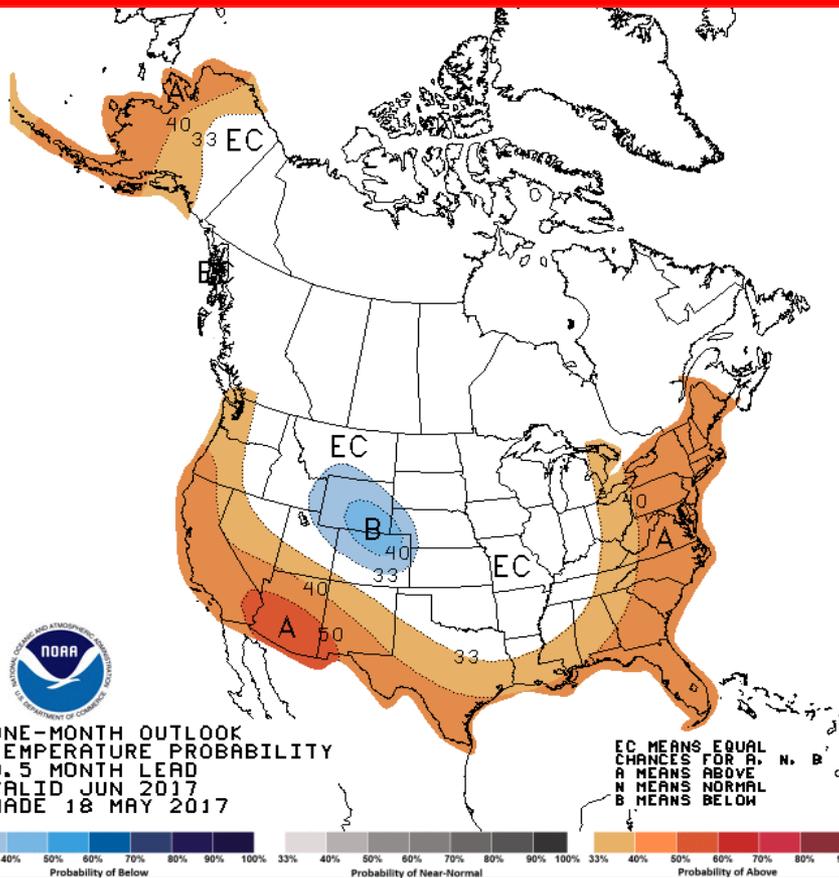
El Paso TX - 2017



Temperature and precipitation outlook for June 2017

Temperature

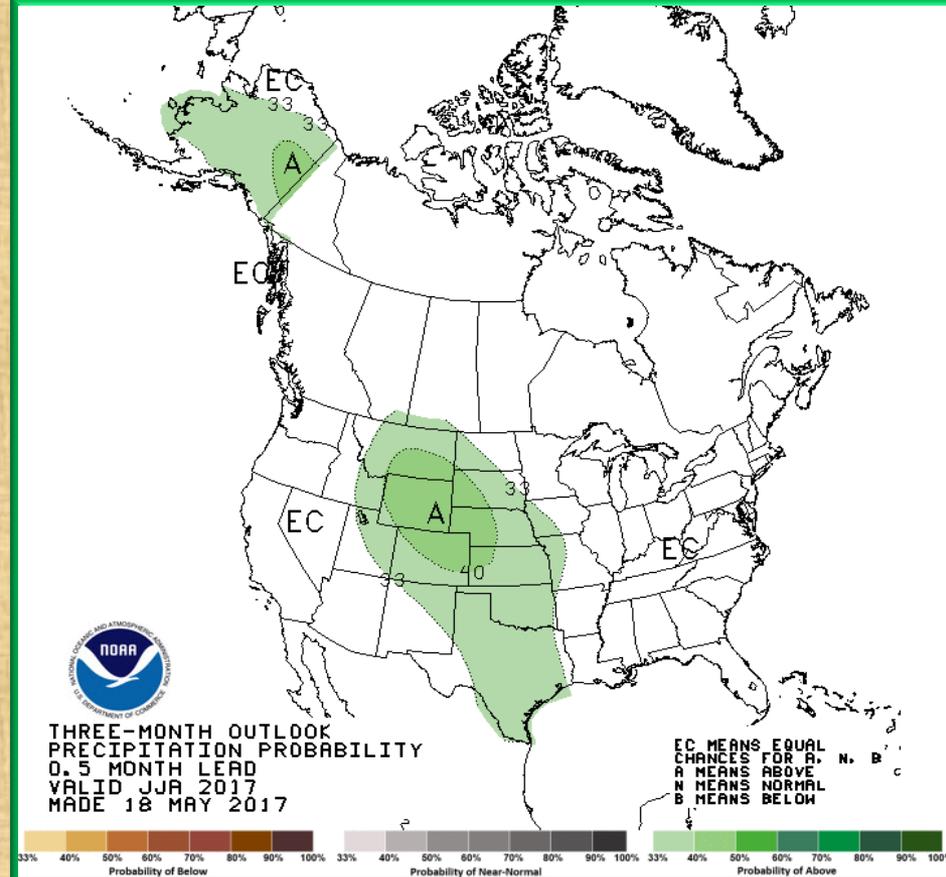
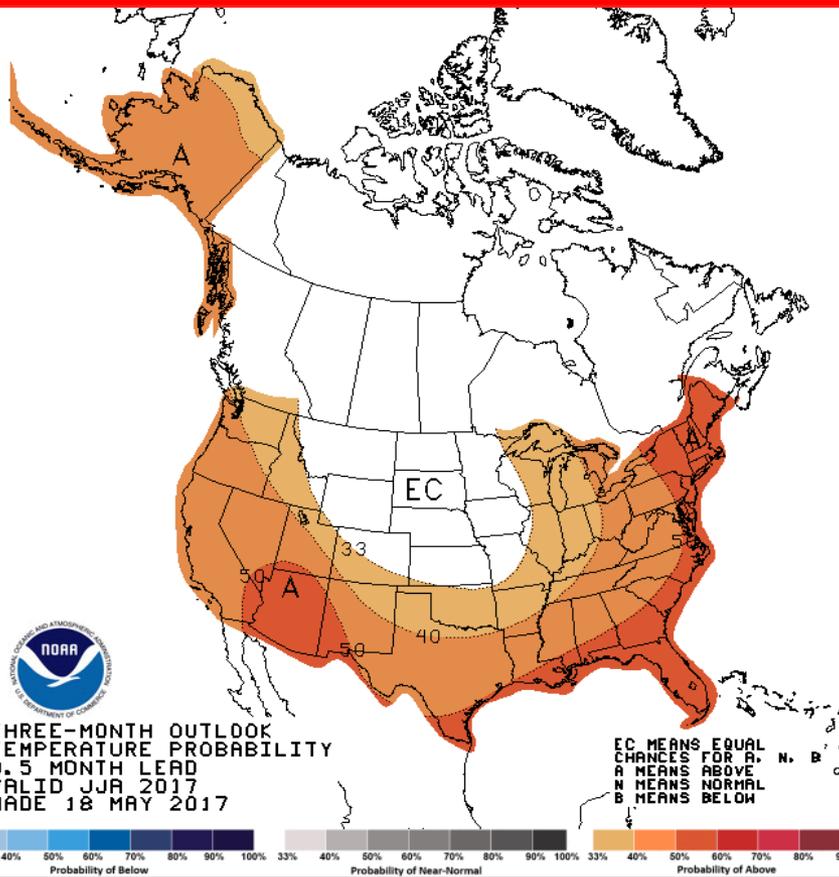
Precipitation



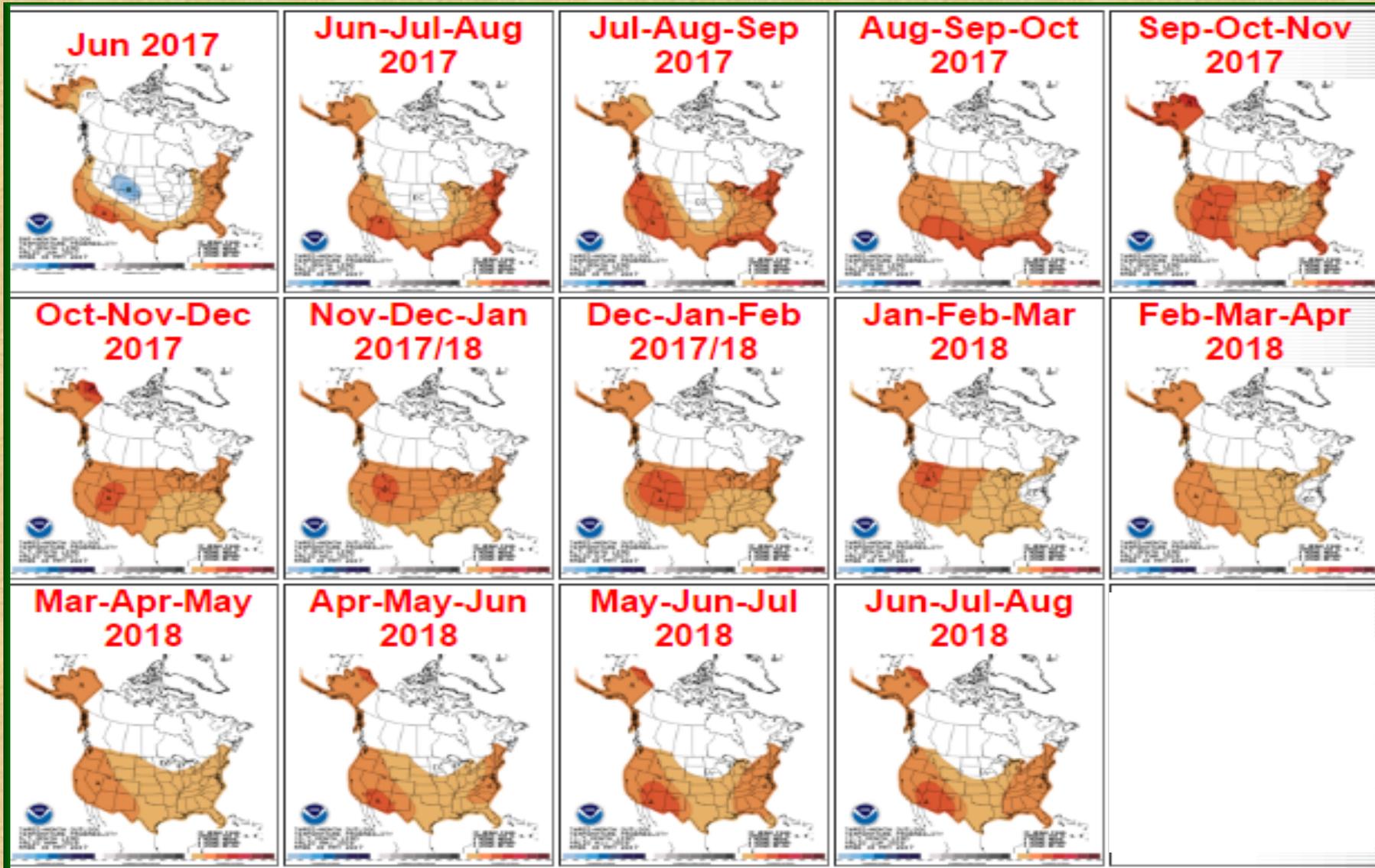
Temperature and precipitation outlook For May – Jul 2017

Temperature

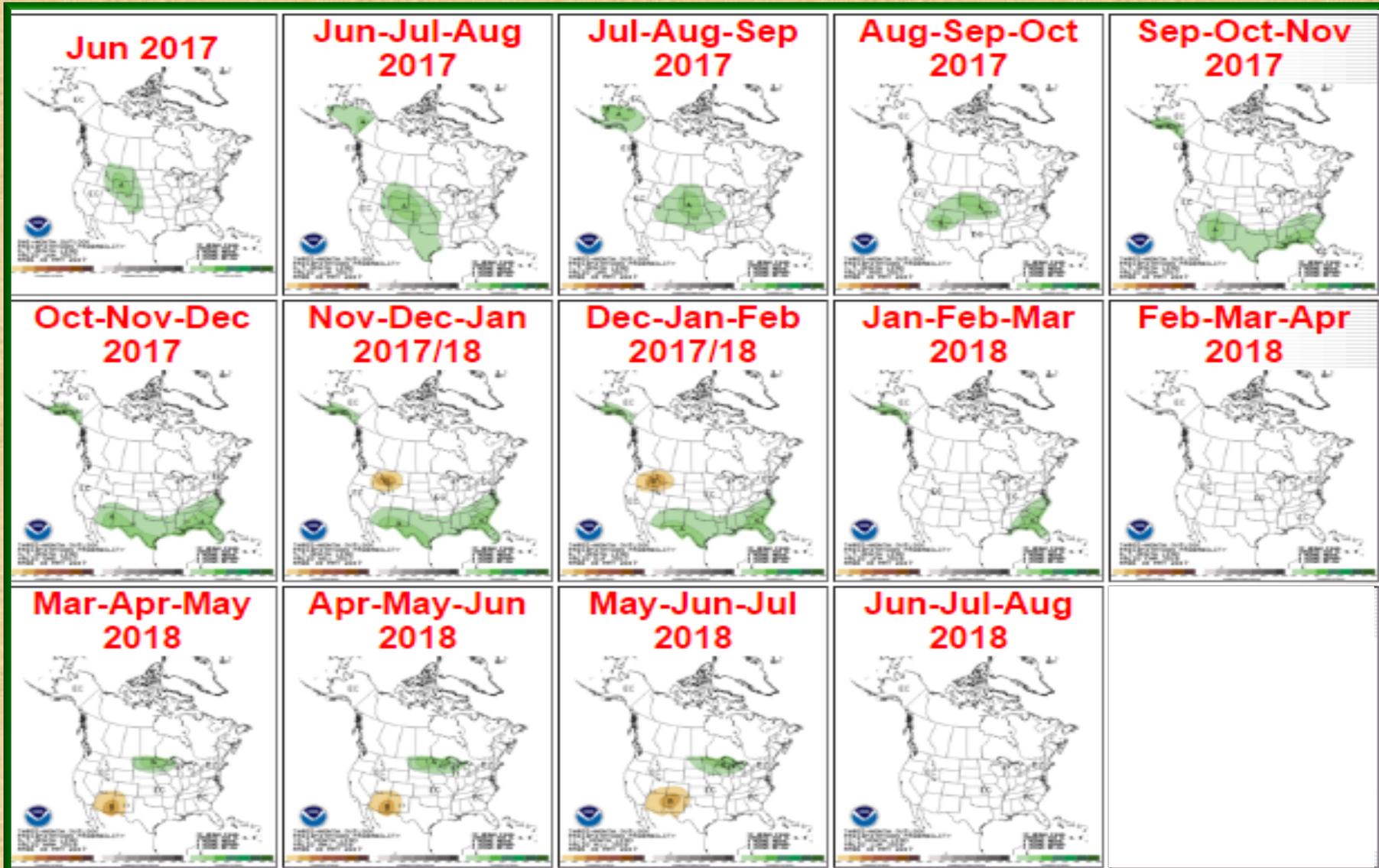
Precipitation



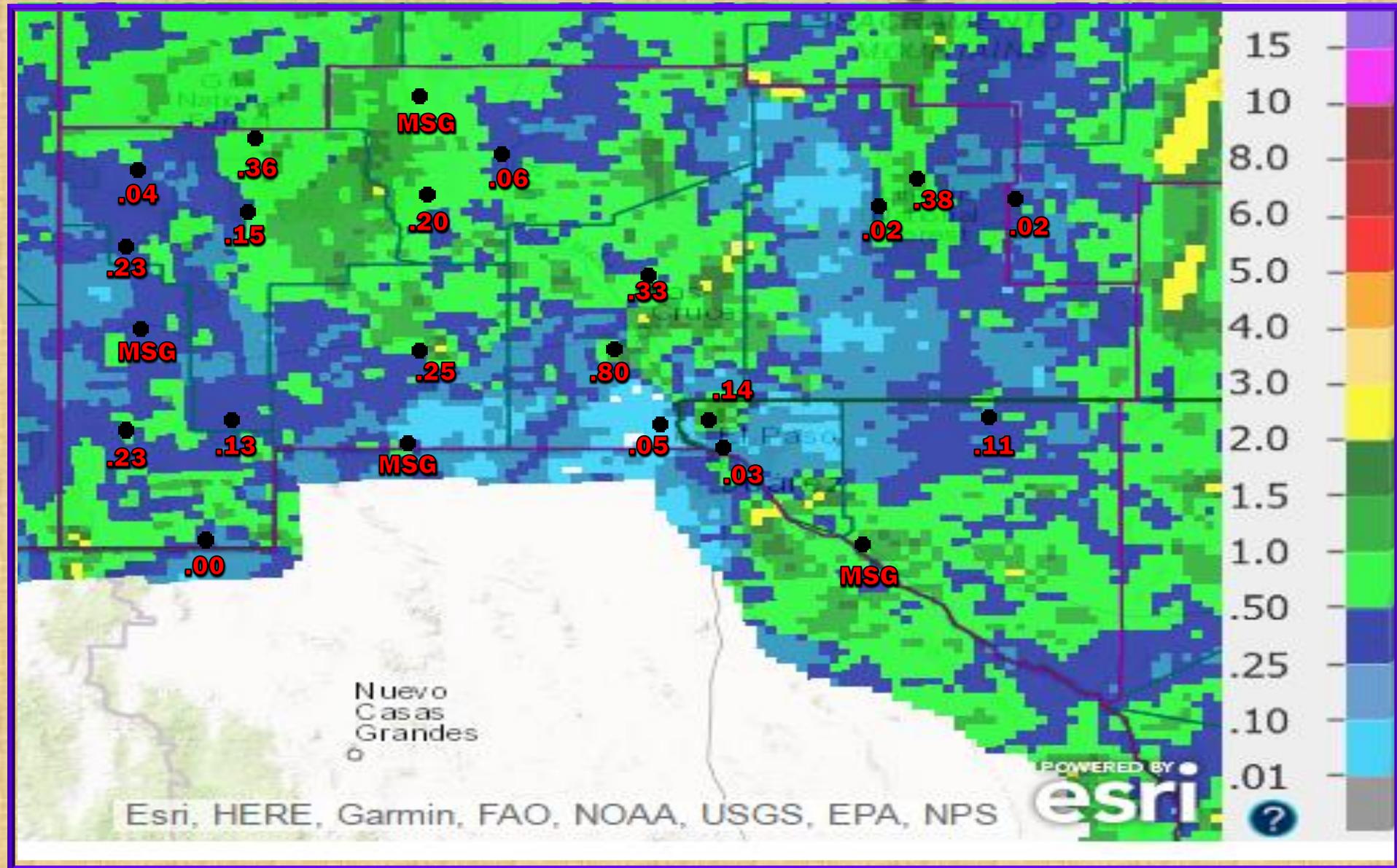
Temperature Outlook Through Aug 2018



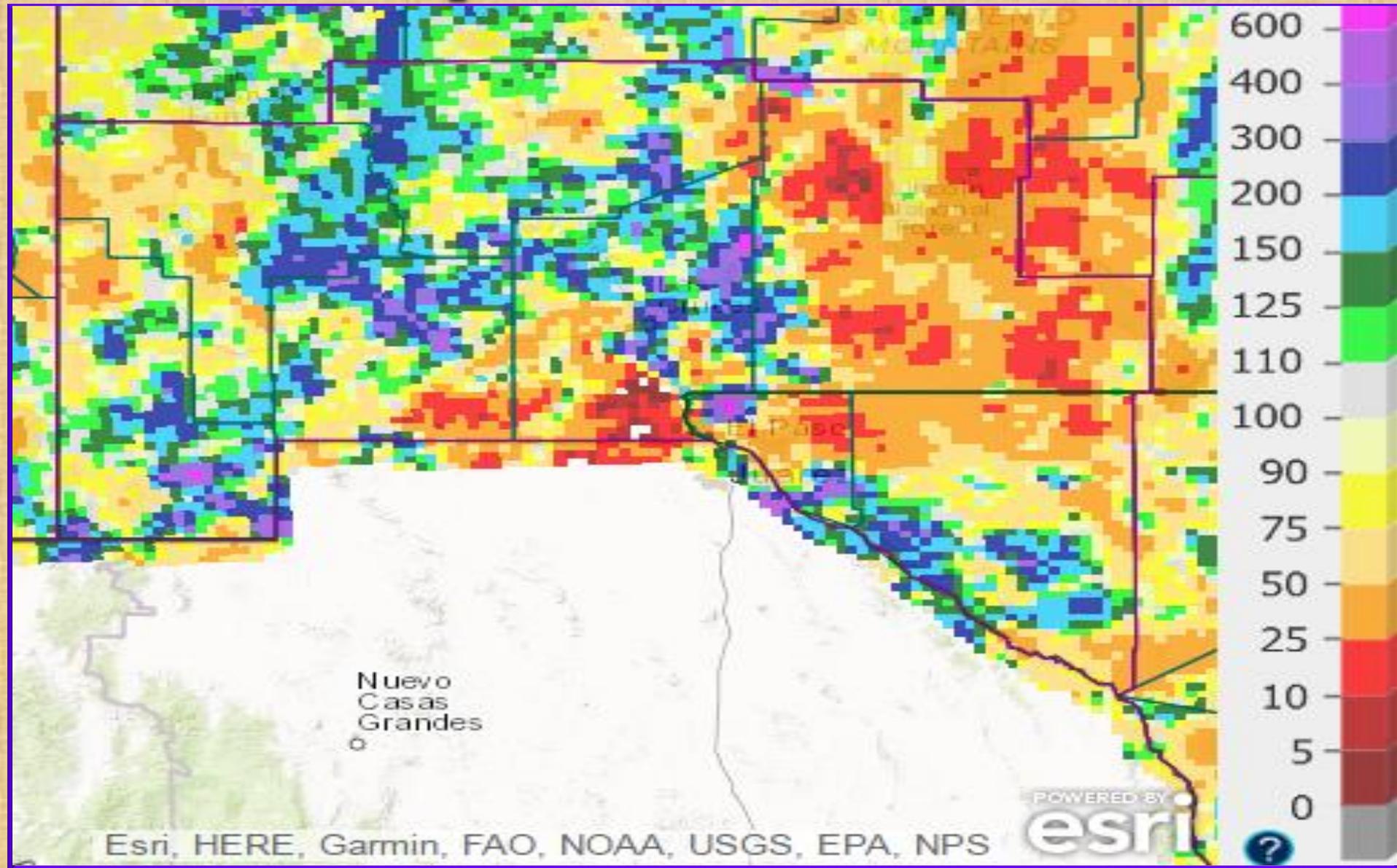
Precipitation Outlook Through Aug 2018



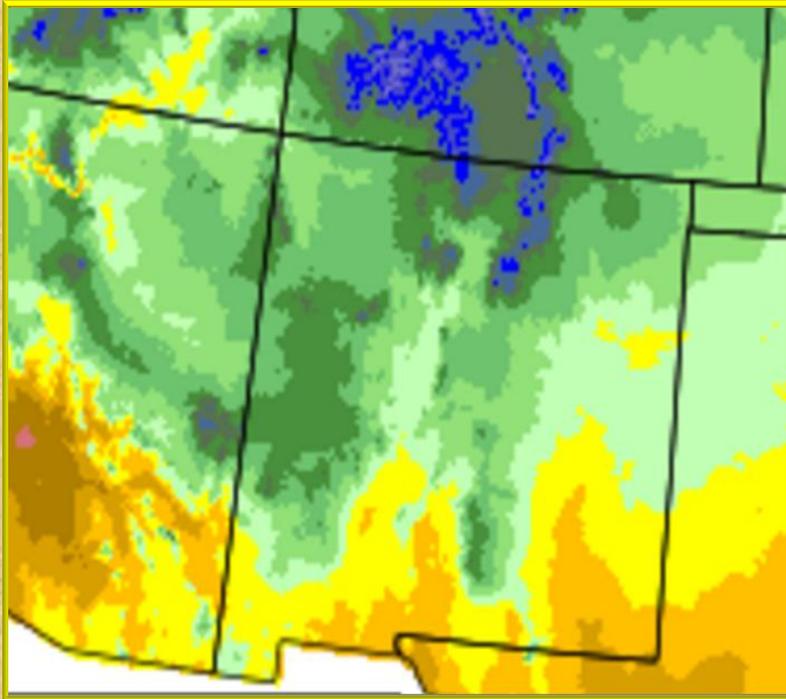
May 2017 radar rainfall estimate with surface rainfall reports



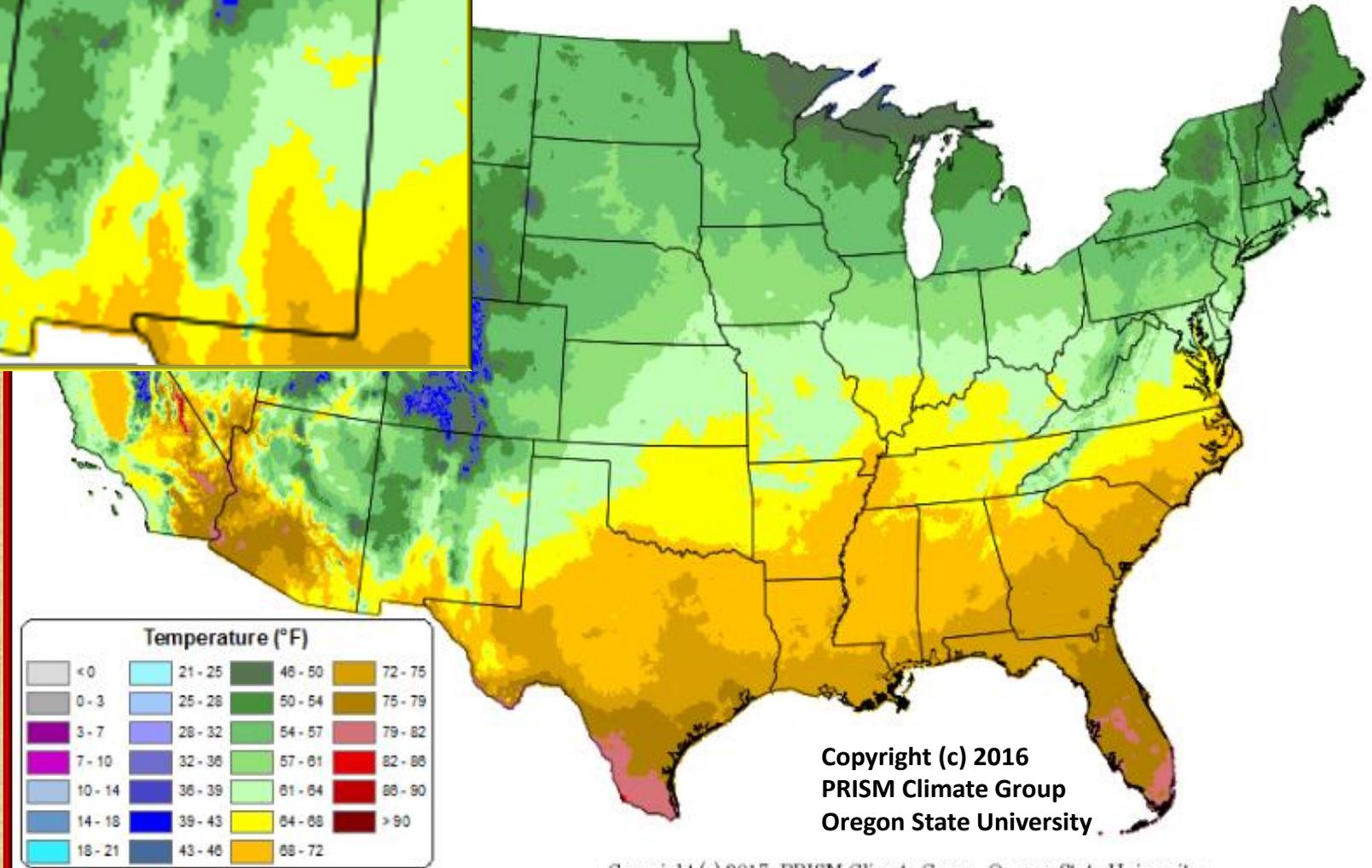
May 2017 radar rainfall estimate percent of normal



Average Daily Mean Temperature for May 2017



Average Daily Mean Temperature: May 2017
Period ending 7 AM EST 31 May 2017
(Map created 02 Jun 2017)



Temperature (°F)			
< 0	21 - 25	46 - 50	72 - 75
0 - 3	25 - 28	50 - 54	75 - 79
3 - 7	28 - 32	54 - 57	79 - 82
7 - 10	32 - 36	57 - 61	82 - 86
10 - 14	36 - 39	61 - 64	86 - 90
14 - 18	39 - 43	64 - 68	> 90
18 - 21	43 - 46	68 - 72	

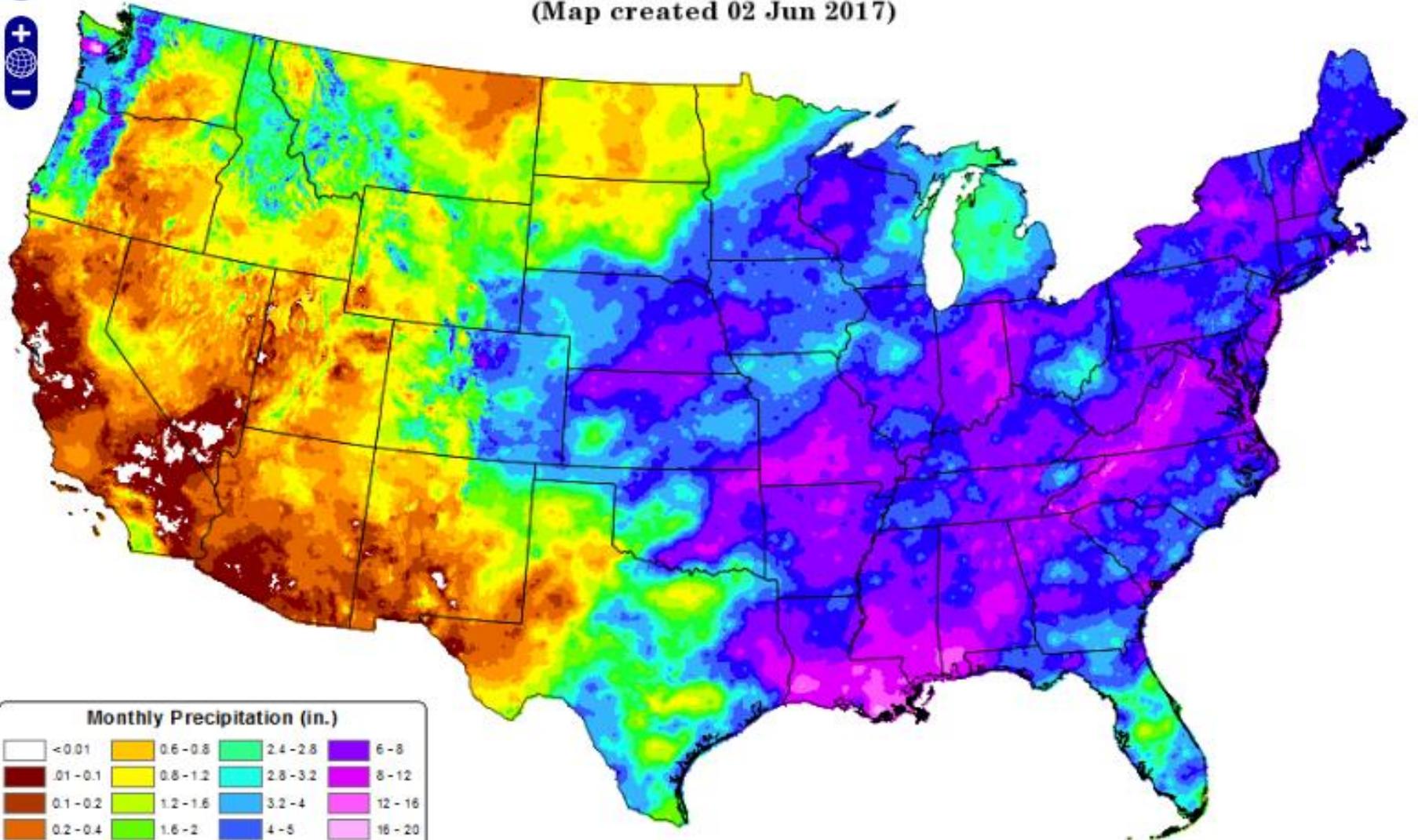
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PRISM Climate Group
Oregon State University

Total Precipitation for April 2017

Total Precipitation: May 2017

Period ending 31 May 2017

(Map created 02 Jun 2017)



Monthly Precipitation (in.)

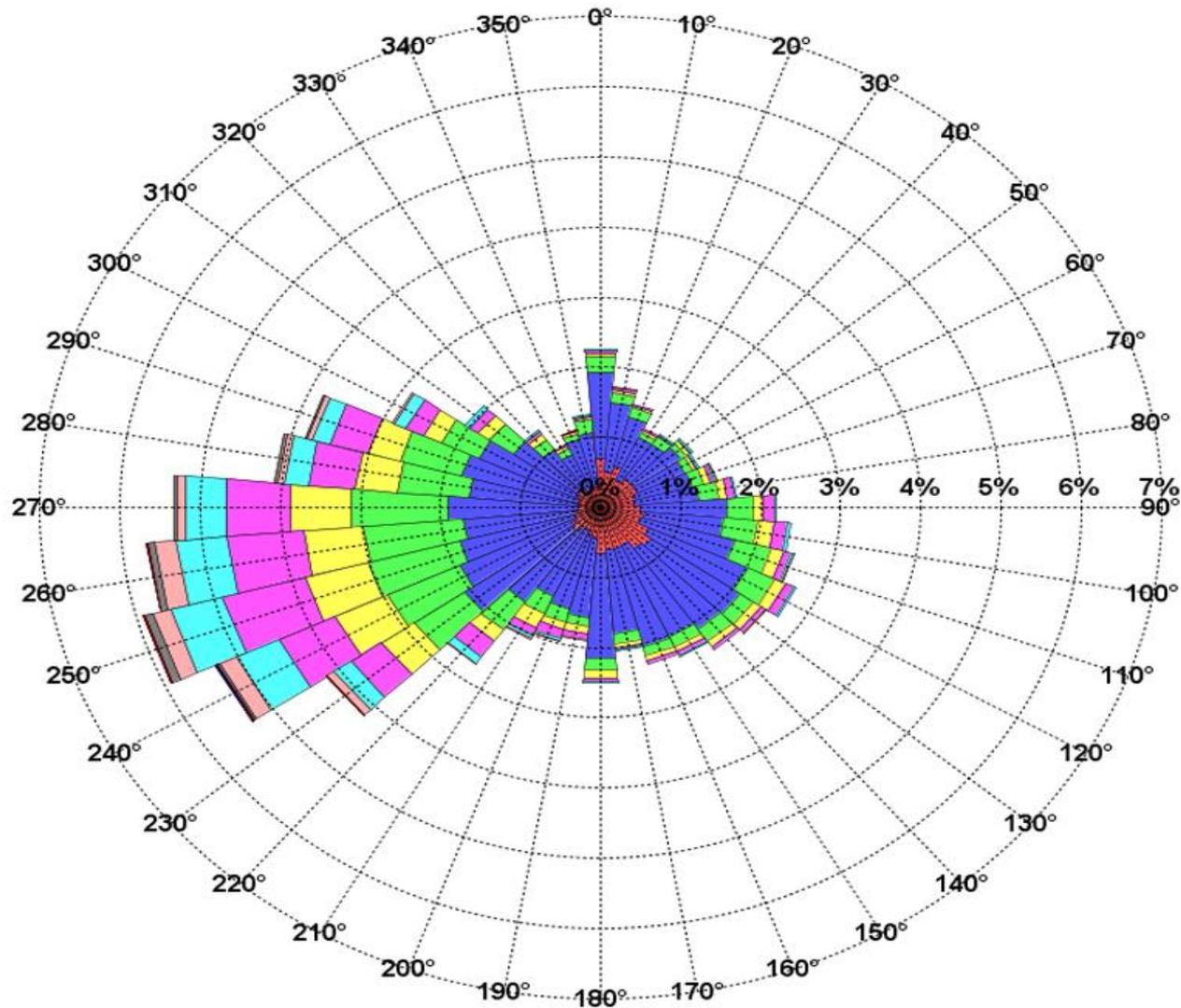
<math>< 0.01</math>	0.6-0.8	2.4-2.8	6-8
0.1-0.1	0.8-1.2	2.8-3.2	8-12
0.1-0.2	1.2-1.6	3.2-4	12-16
0.2-0.4	1.6-2	4-5	16-20
0.4-0.6	2-2.4	5-6	> 20

Special Features

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

Month: MAY
Calm: 6.44%
Variable: 2.66%

WindRose - KELP - EL PASO INTL
% Frequency of Wind Speed from a Direction
POR:19730101-20140602



Selected weather reports May 2017

Date/Time	Location (County)	Event
05/06/2017 616 PM	JORNADA RANGE-DONA ANA	68 MPH PEAK TSTM WIND GUST
05/16/2017 335 PM	SAN AUGUSTIN PASS-DONA ANA	75 MPH PEAK WIND GUST
05/16/2017 105 PM	TULAROSA 19 NW-OTERO	65 MPH PEAK WIND GUST
05/16/2017 737 PM	OROGRANDE 28 NE-OTERO	59 MPH PEAK WIND GUST
05/16/2017 613 PM	EL PASO 5 NE-EL PASO	59 MPH PEAK WIND GUST
05/16/2017 609 PM	SUNSPOT-OTERO	58 MPH PEAK WIND GUST
05/16/2017 745 PM	EL PASO AIRPORT-EL PASO	58 MPH PEAK WIND GUST
05/16/2017 335 PM	SPACEPORT-SIERRA	57 MPH PEAK WIND GUST
05/16/2017 305 PM	SANTA TERESA 5 NW-DONA ANA	56 MPH PEAK WIND GUST
05/16/2017 605 PM	LAS CRUCES 4 NE-DONA ANA	53 MPH PEAK WIND GUST
05/16/2017 232 PM	DEMING AIRPORT-DONA ANA	53 MPH PEAK WIND GUST
05/16/2017 242 PM	RODEO-HIDALGO	51 MPH PEAK WIND GUST
05/16/2017 655 PM	DELL CITY-HUDSPETH	49 MPH PEAK WIND GUST
05/16/2017 1135 AM	FAYWOOD-GRANT	48 MPH PEAK WIND GUST
05/16/2017 526 PM	DRIPPING SPRINGS-DONA ANA	48 MPH PEAK WIND GUST



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Photo Credit: John Fausett

Local forecast by "City, St" or ZIP code
 Enter location ...
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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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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.gov/epz

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.