

# June 2023 Weather Digest



# June 2023 Weather Summary

**Summer heat came in full force during the latter half of June 2023 as a ridge of high pressure built over northern Mexico and slowly drifted toward west Texas over a two week period. Temperatures were consistently 5 to 10 degrees above climate normals. Triple-digit temperatures were common across the desert lowlands, with a 15-day streak of 100F+ highs in El Paso culminating with a high of 110F on June 26<sup>th</sup>.**

**Historically, late June is the hottest time of the year for the borderland. Despite the hot weather, very few daily record highs were broken during this year's heat wave. The event coincided with the extreme heat waves of 1994 and 1980, which are very difficult records to match. One exception was the night of June 30<sup>th</sup>, when a recorded low temperature of 85 degrees tied the all-time record high min at El Paso (144-Year POR).**

# June 2023 Weather Summary

Monsoon onset was nowhere to be found this June as high pressure dominated the weather pattern and precipitation totals remained below average, especially for areas west of the Rio Grande. Only a couple days of thunderstorm activity occurred, notably on June 6<sup>th</sup> when an influx of moisture from the northeast brought scattered thunderstorms to much of the high terrain and Rio Grande Valley. Precipitation totals ranged from 0.25-0.75” in the areas directly affected, but only 0.03” was measured at El Paso International and nothing at NWS Santa Teresa. This was the only notable thunderstorm event of the month. Windy conditions on 16<sup>th</sup> lead to a few significant reports as well. Much of western New Mexico missed out on precipitation this month, leading to high fire danger and the growth of the Pass and Rico Wildfires over the Gila National Forest.

Looking ahead to July, above normal temperatures and low precipitation are expected to continue. Monsoon onset has begun, but lack of moisture may limit most rainfall to area mountains. July begins the crucial stretch of the three wettest months of the year. With the summer solstice behind us, daylight begins to shrink. Daylight on July 1<sup>st</sup> is 14 hours, 11 minutes and decreases to 13 hours, 42 minutes on July 31. The full moon occurs on July 3<sup>rd</sup> and the new moon occurs on July 17<sup>th</sup>.

**June 6 Storm clouds east of El Paso**



**Jun 7 Storm clouds near Silver City**



**Jun 3 Virga at Emory Pass**



**Early June on the Mimbres River**



**Early June at the Pass fire**



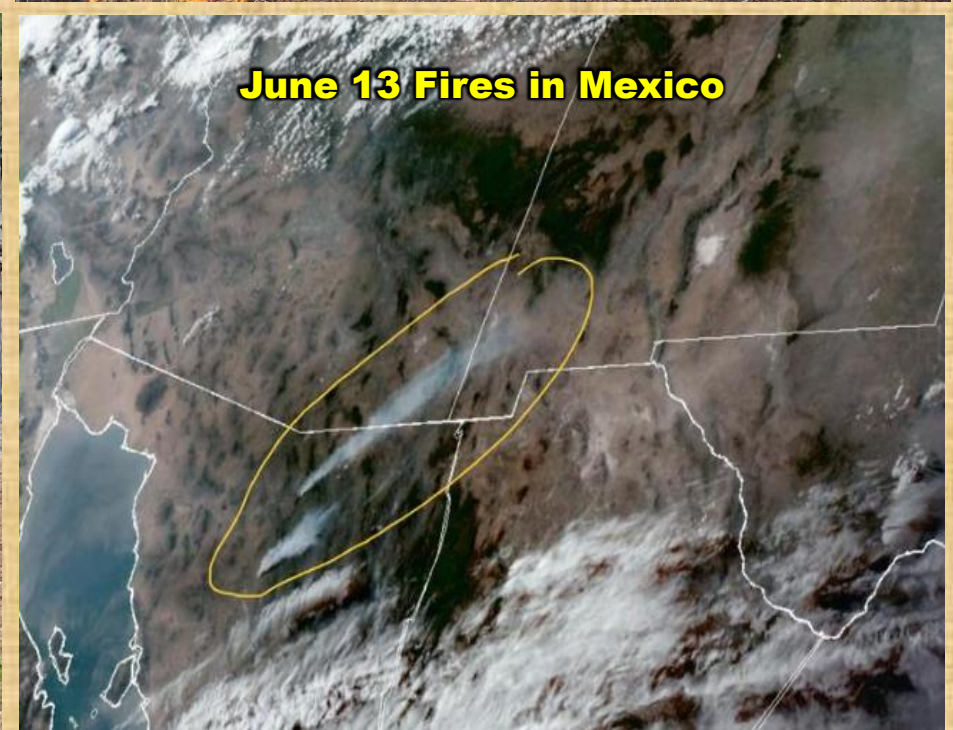
**Early June at the Pass fire**



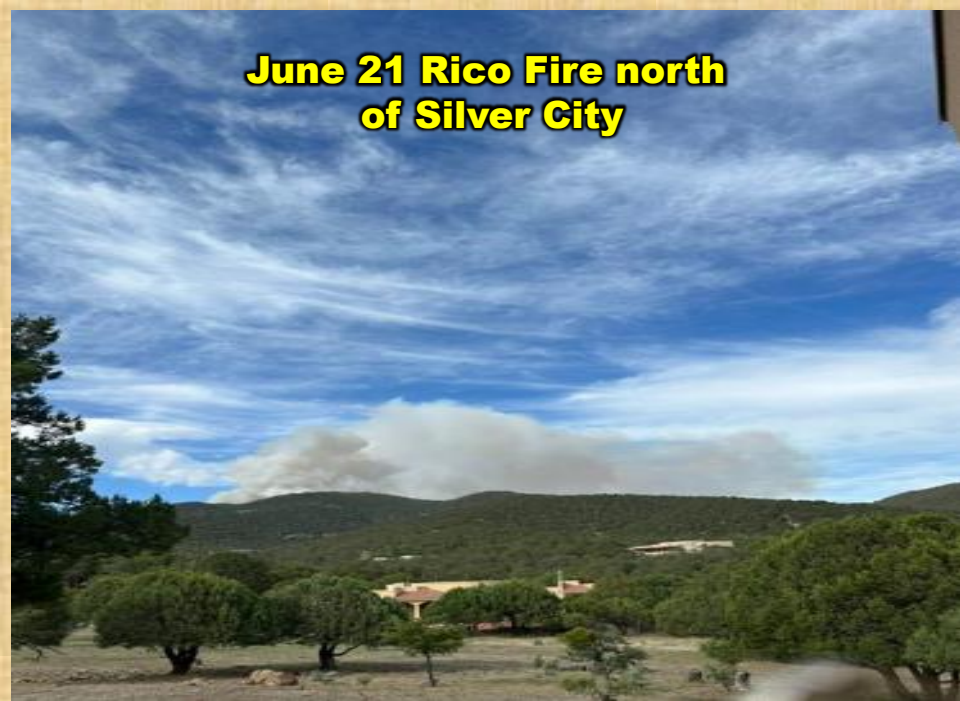
**Early June at the Pass fire**



**June 13 Fires in Mexico**



**June 21 Rico Fire north  
of Silver City**



**June 21 Rico Fire north  
of Silver City**



**June 26 sunrise over west Texas**



**June 21 on the Rico fire**



**June 22 the Moon and Venus shortly  
after the Summer Solstice**



**June 21 on the Rico fire**

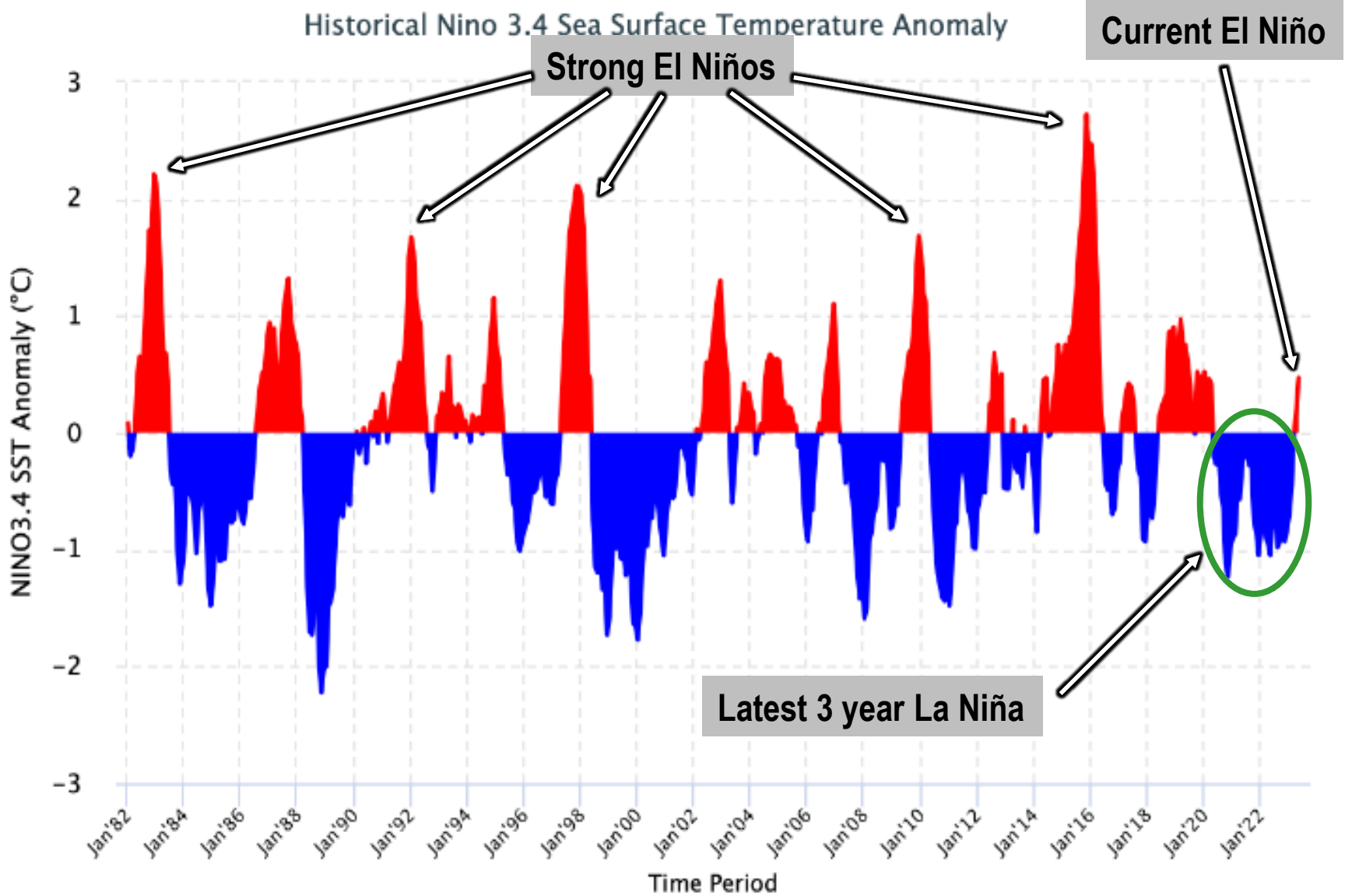
# **ENSO Alert System Status: El Niño Advisory is in Effect**

## **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 Activity

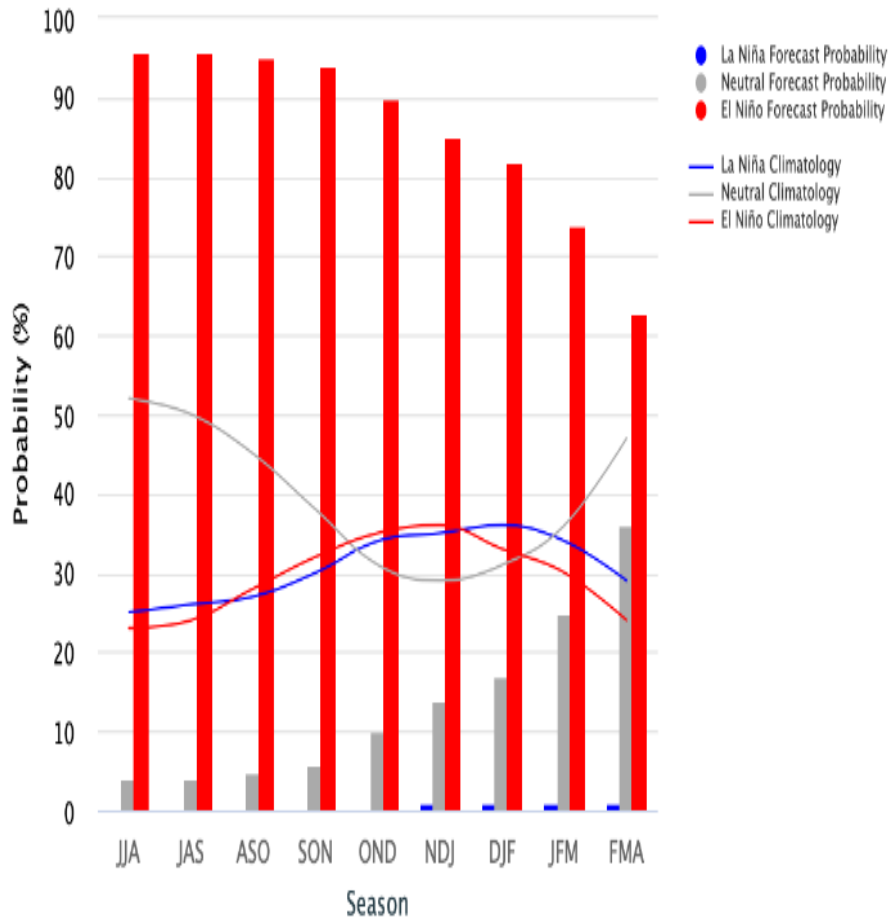


# ENSO Forecast

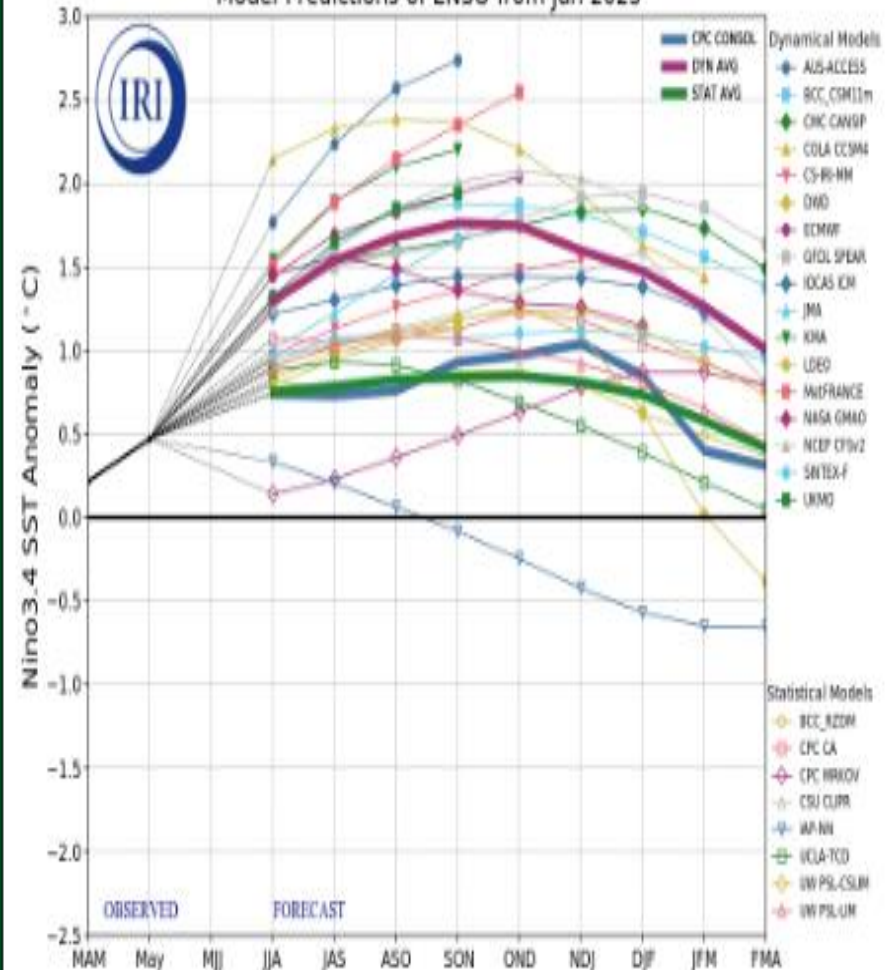
**ENSO is in a neutral status. Forecast shows neutral likely transitioning to El Niño over the next two months.**

Mid-June 2023 IRI Model-Based Probabilistic ENSO Forecasts

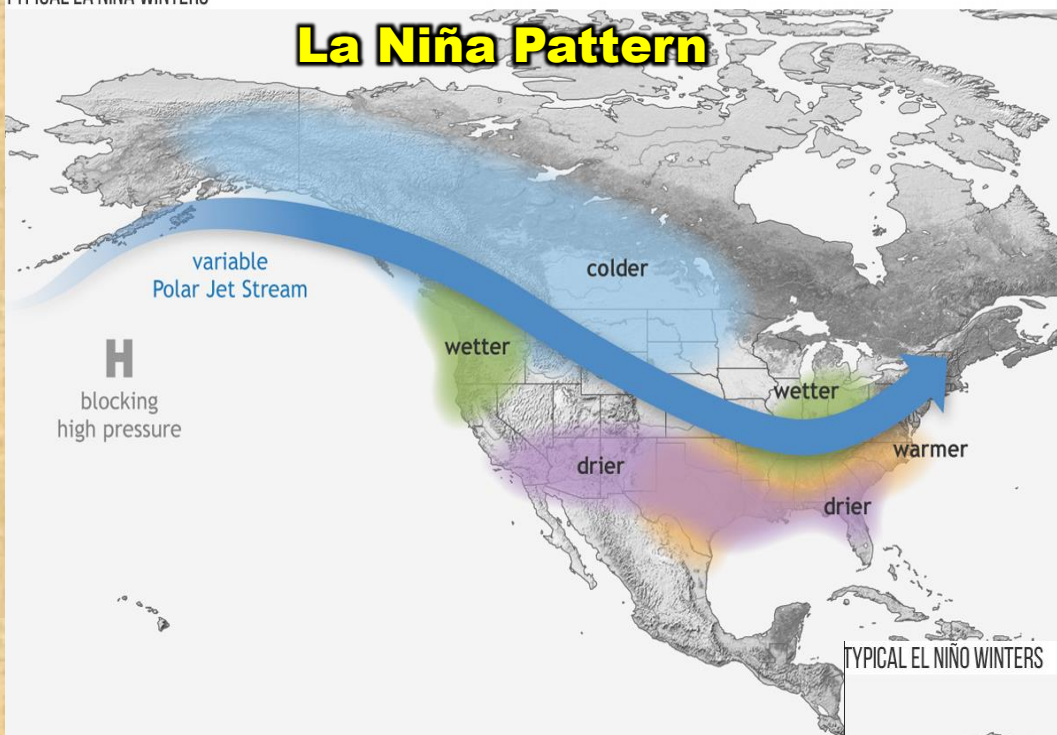
ENSO state based on NINO3.4 SST Anomaly Neutral ENSO:  $-0.5^{\circ}\text{C}$  to  $0.5^{\circ}\text{C}$



Model Predictions of ENSO from Jun 2023

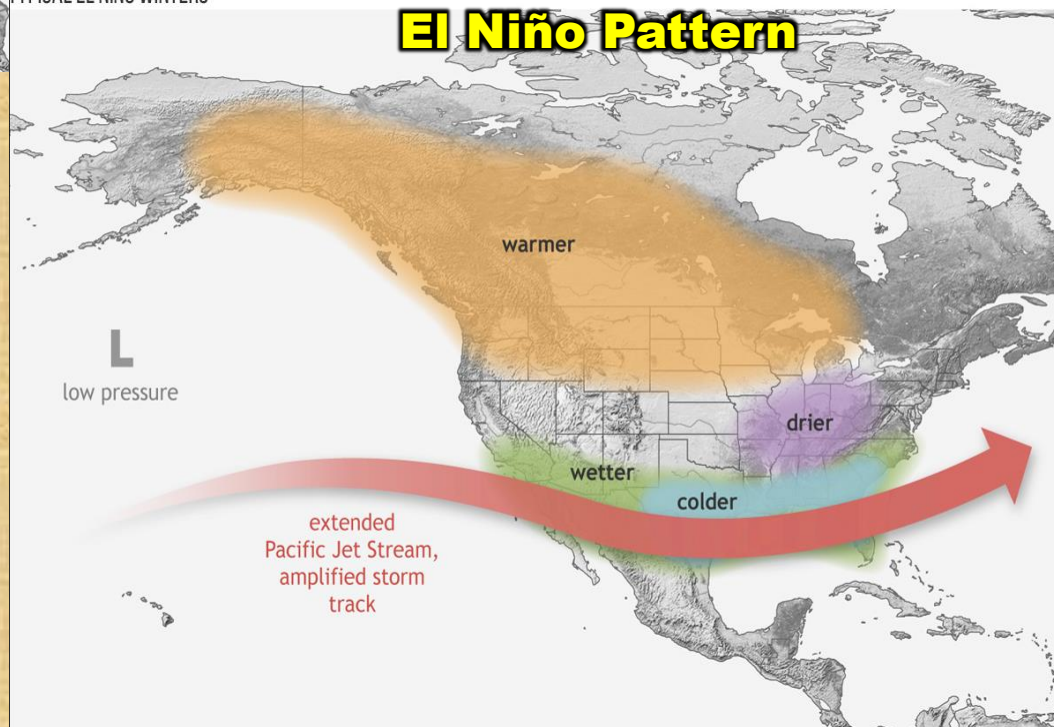


# La Niña Pattern



With a La Niña pattern, 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

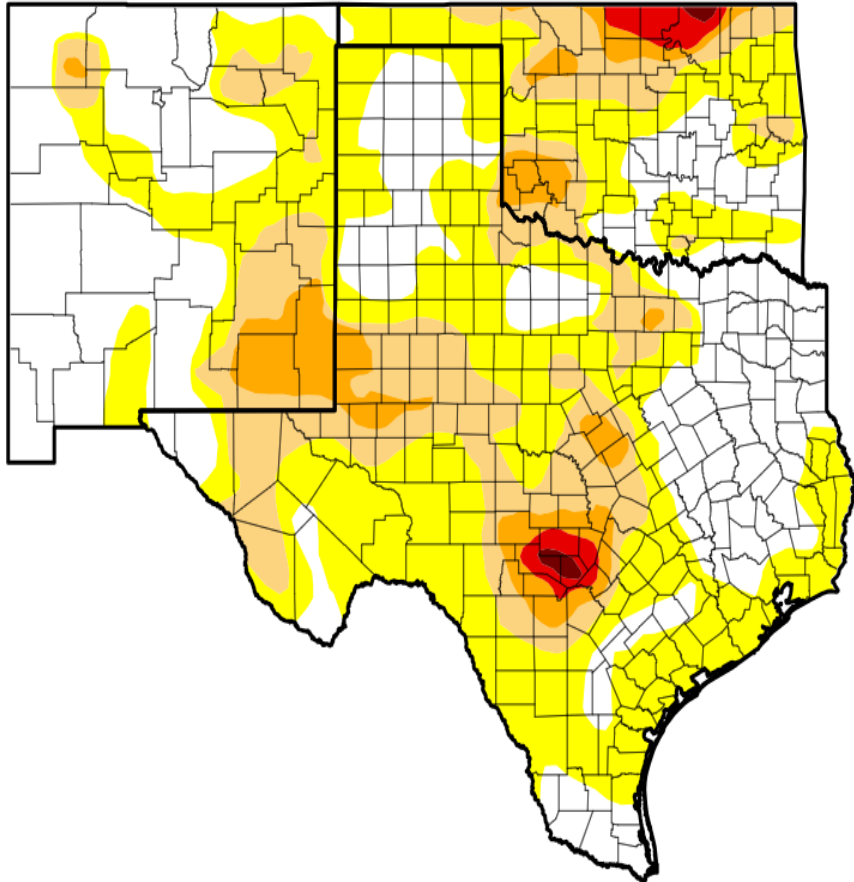


With El Niño, we often see the opposite pattern where the eastern Pacific ridge of high pressure is often weak or non-existent, allowing winter storms to sweep across the southern U.S. This typically will give the southwestern U.S. above normal precipitation.

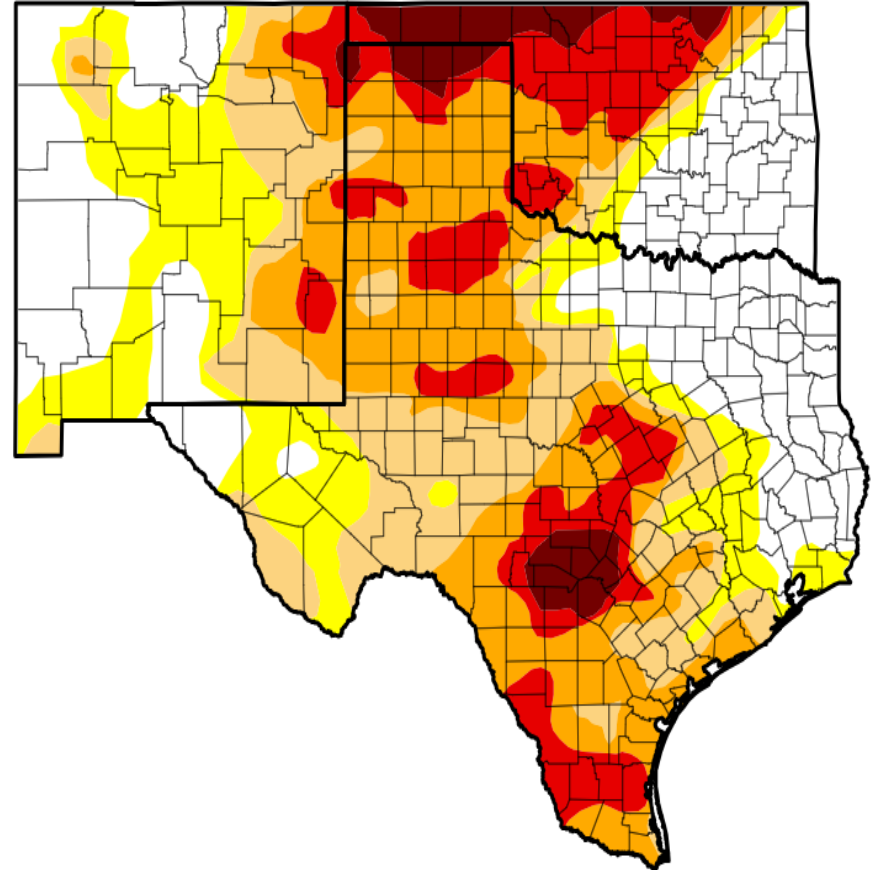
# Current drought conditions and 3 month change

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

**Jun 27, 2023**

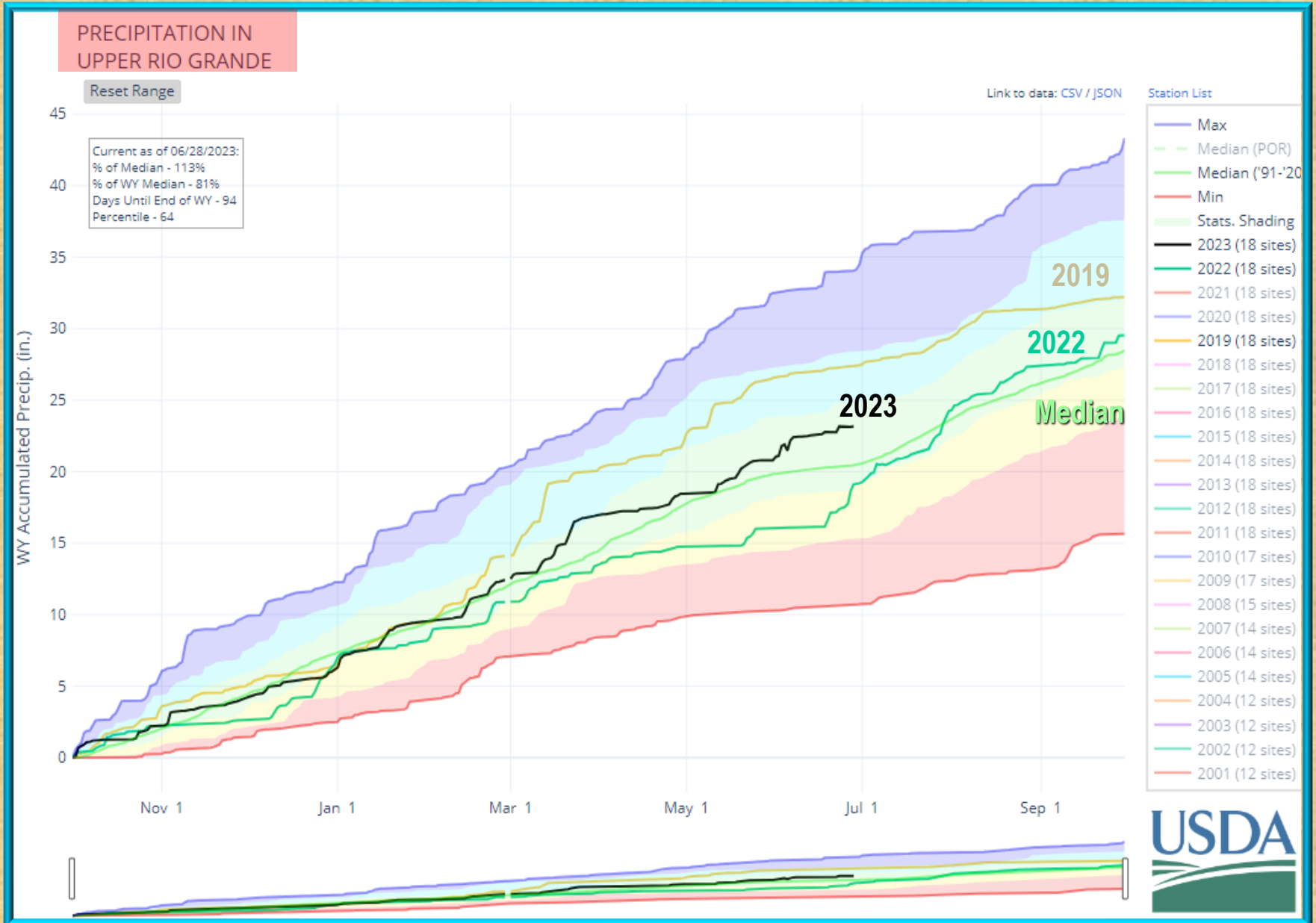


**Mar 28, 2023**



# Precipitation for the Water Year Oct 1 –Jun 30, 2023

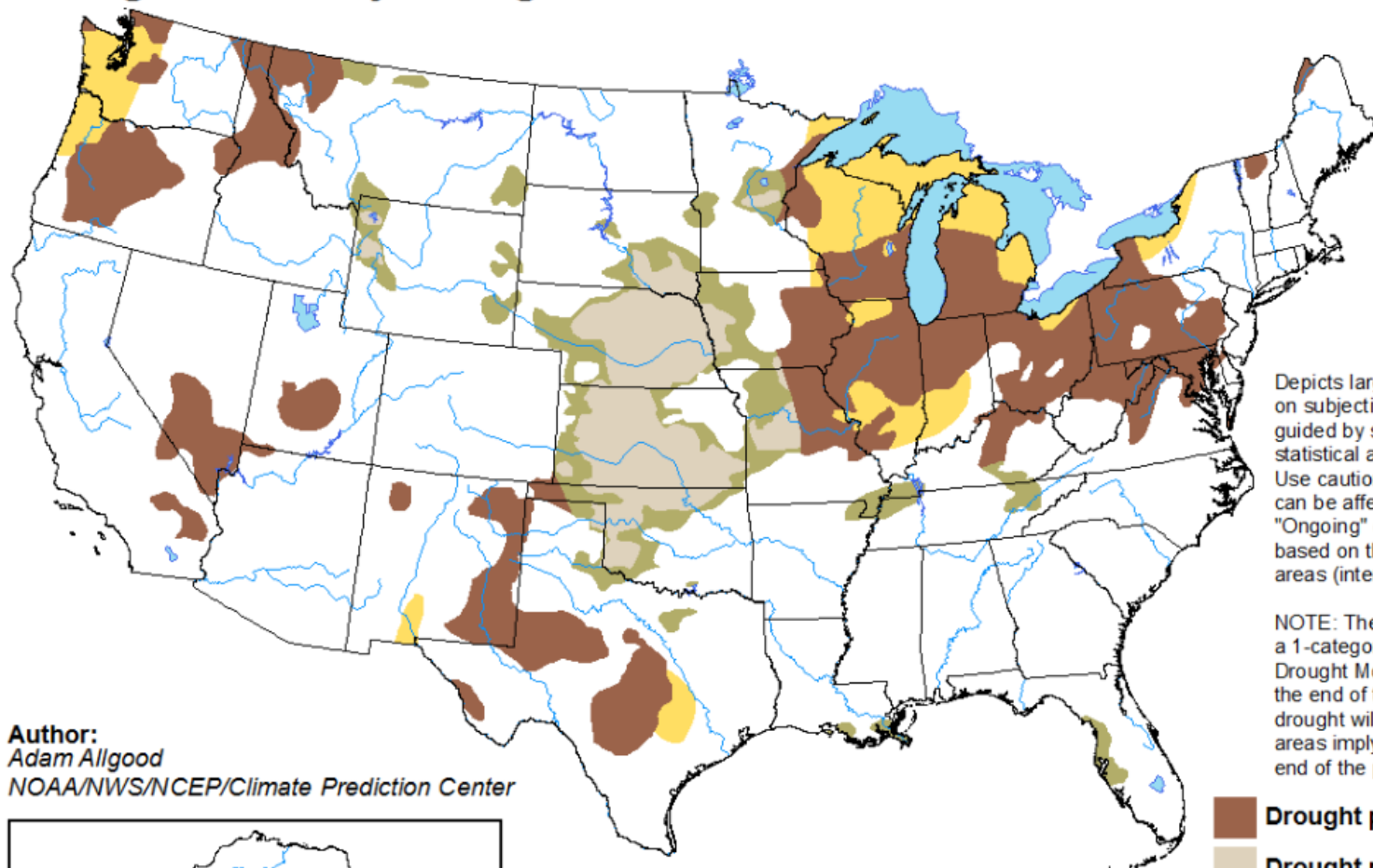
## Compare to last few years and average values



# U.S. Seasonal Drought Outlook

## Drought Tendency During the Valid Period





Valid for June 15 - September 30, 2023  
Released June 15

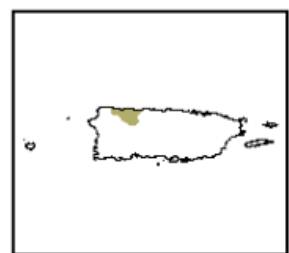
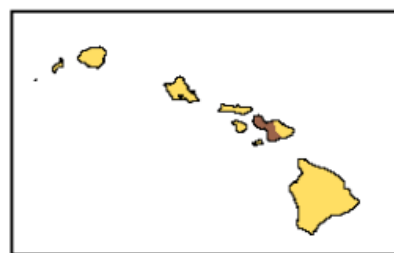
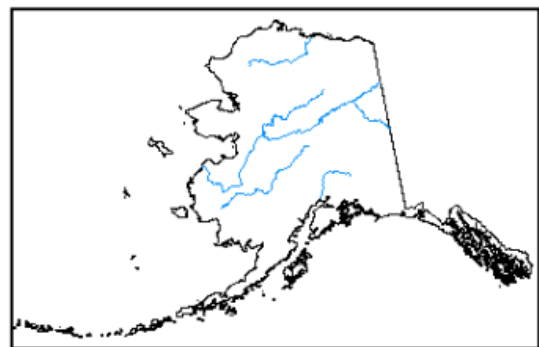


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

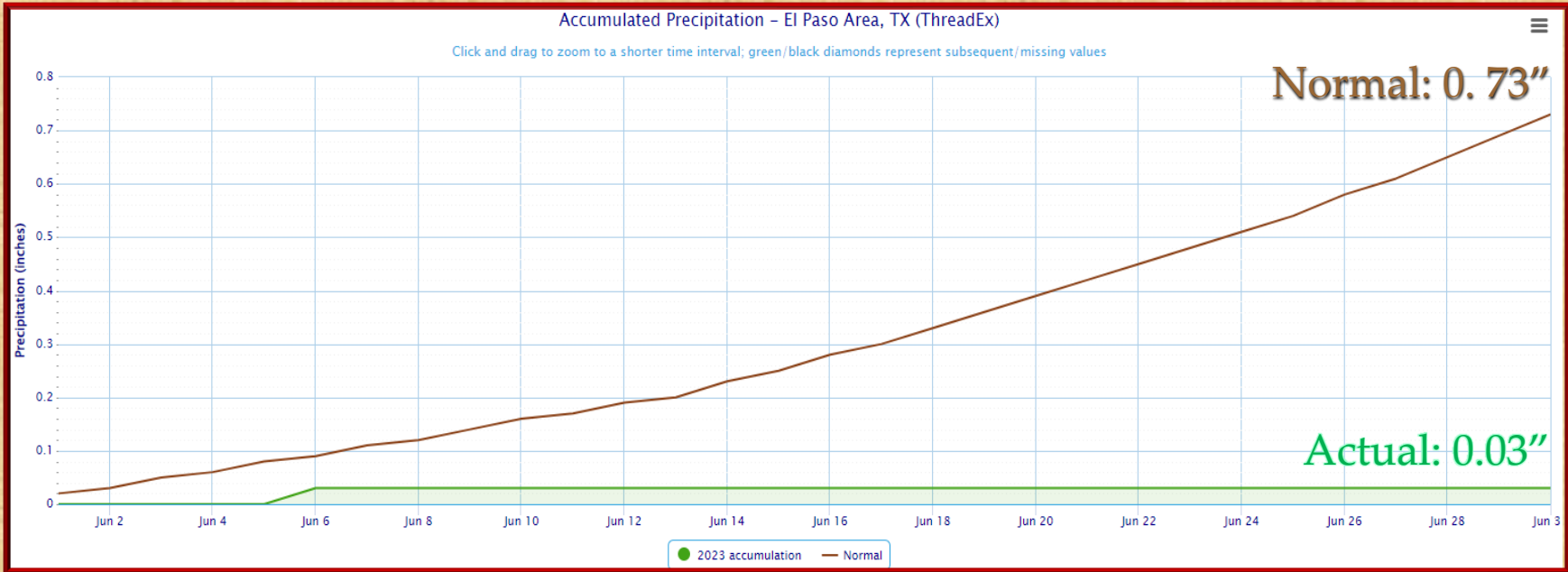
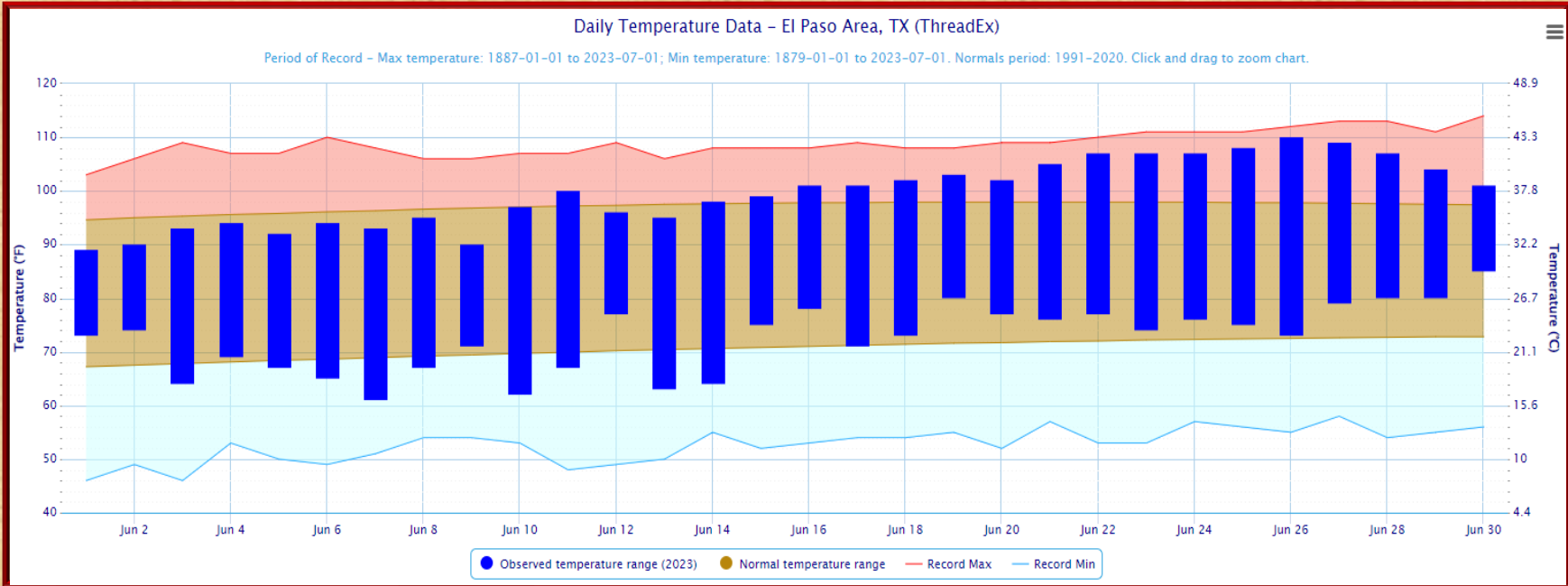
-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



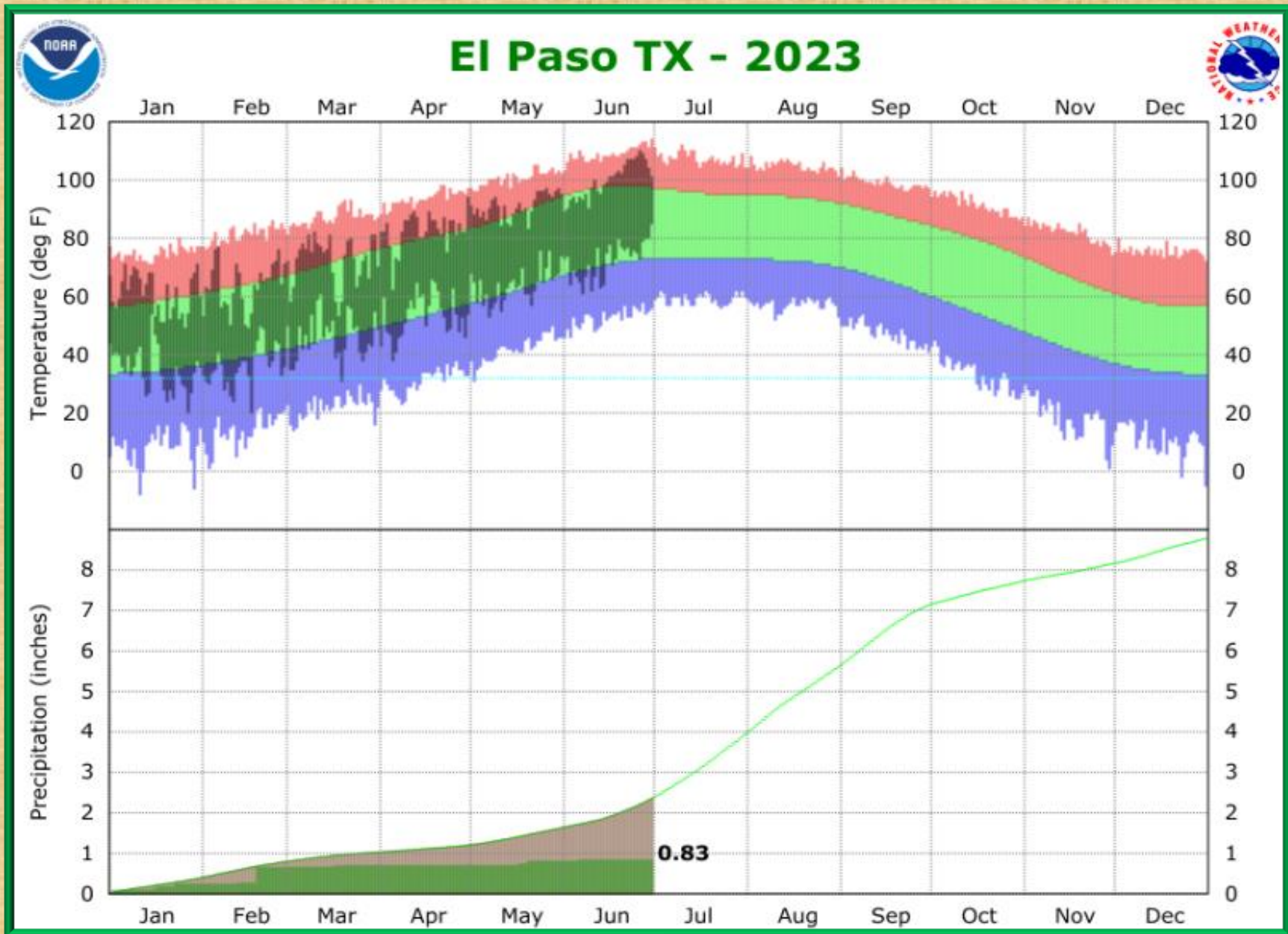
<http://go.usa.gov/3eZ73>

# Temperature and precipitation data for June 2023 in El Paso

○ = record



# Temperature and Precipitation for 2023 YTD for El Paso



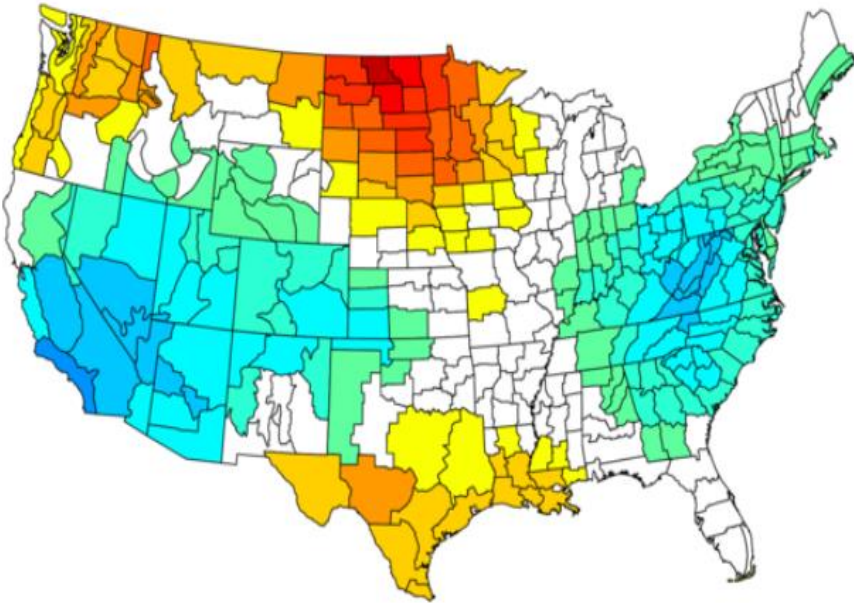


# June 2023 compared to June 1994

June 1994 was one of the two hottest months (average high temps) on record at El Paso Airport. These maps show high temperatures from both months compared to the 30 year mean. This June is somewhat misleading, in that the heat all came over the last half of the month.

## June 2023

NOAA/NCEI Climate Division Temperature Anomalies (F)  
Jun 2023  
Versus 1991–2020 Longterm Average

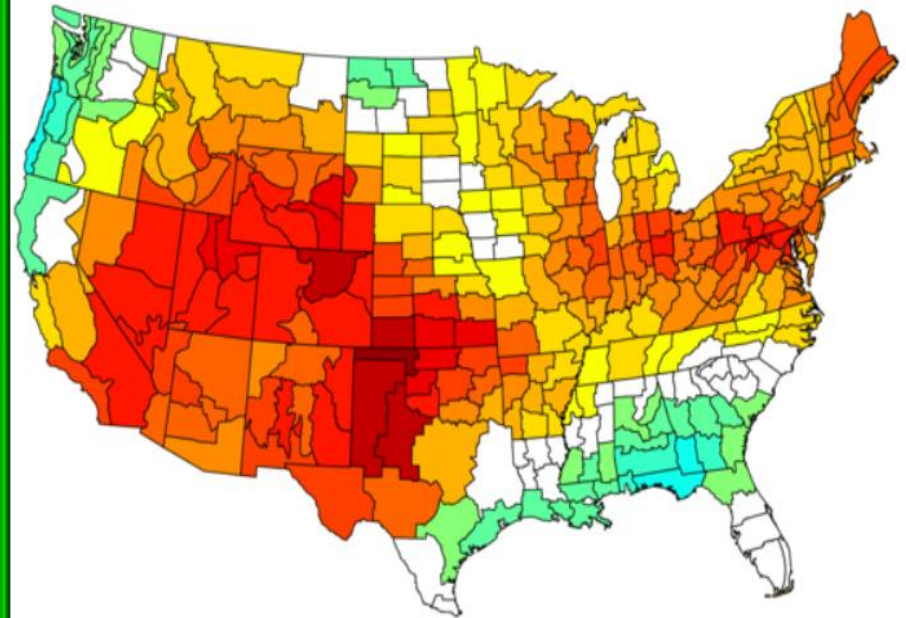


NOAA PSL and CIRES-CU



## June 1994

NOAA/NCEI Climate Division Tmax Anomalies (F)  
Jun 1994  
Versus 1991–2020 Longterm Average

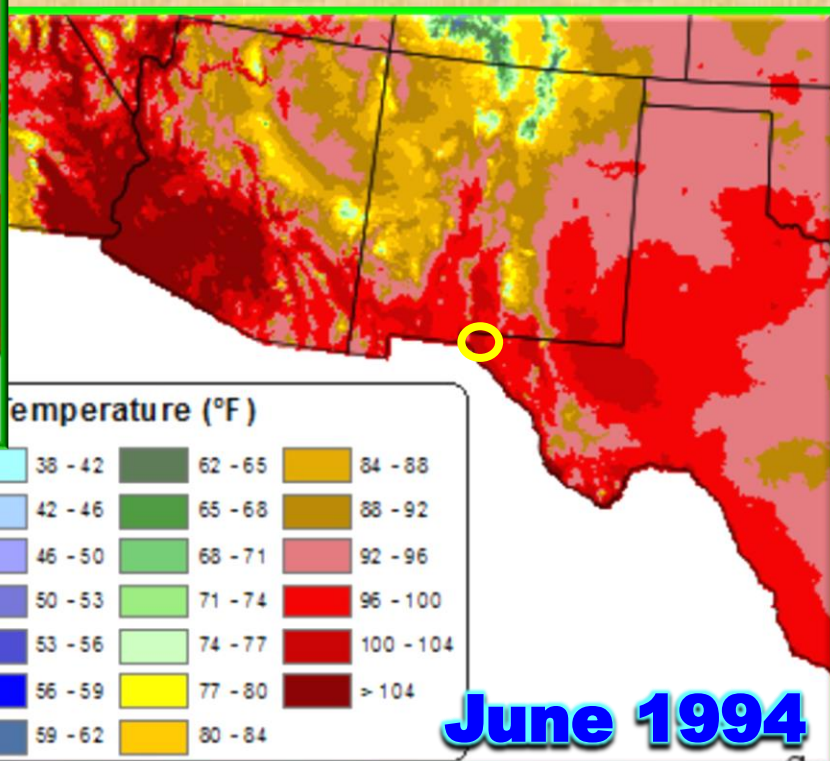
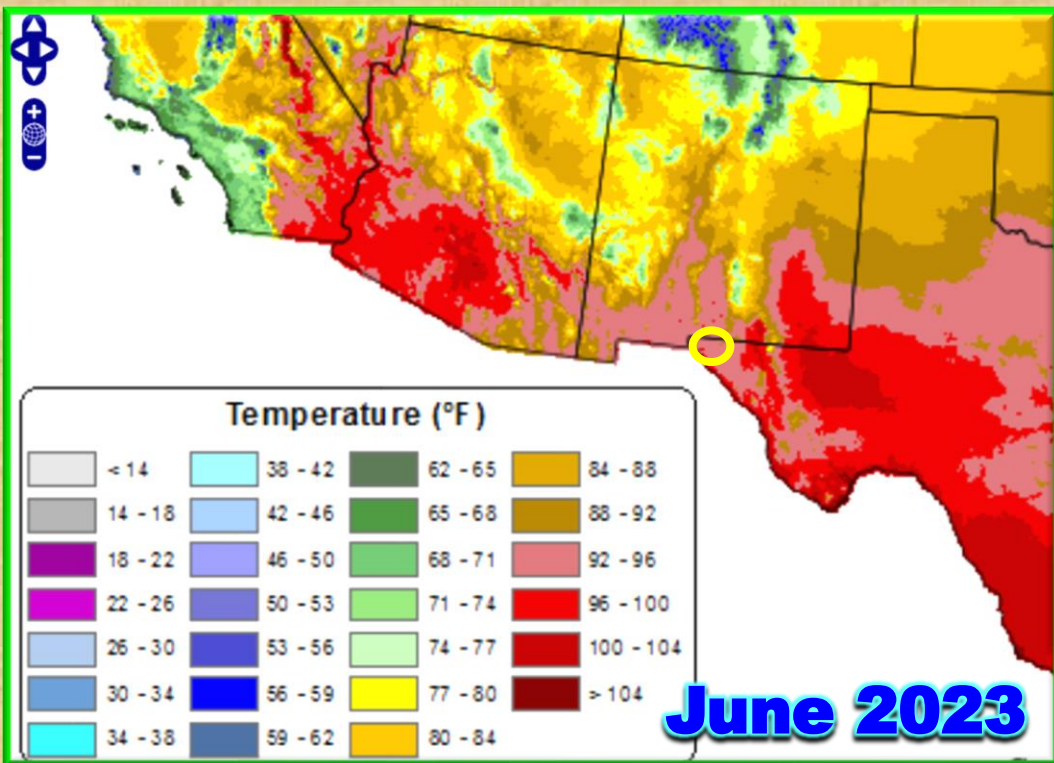


NOAA PSL and CIRES-CU

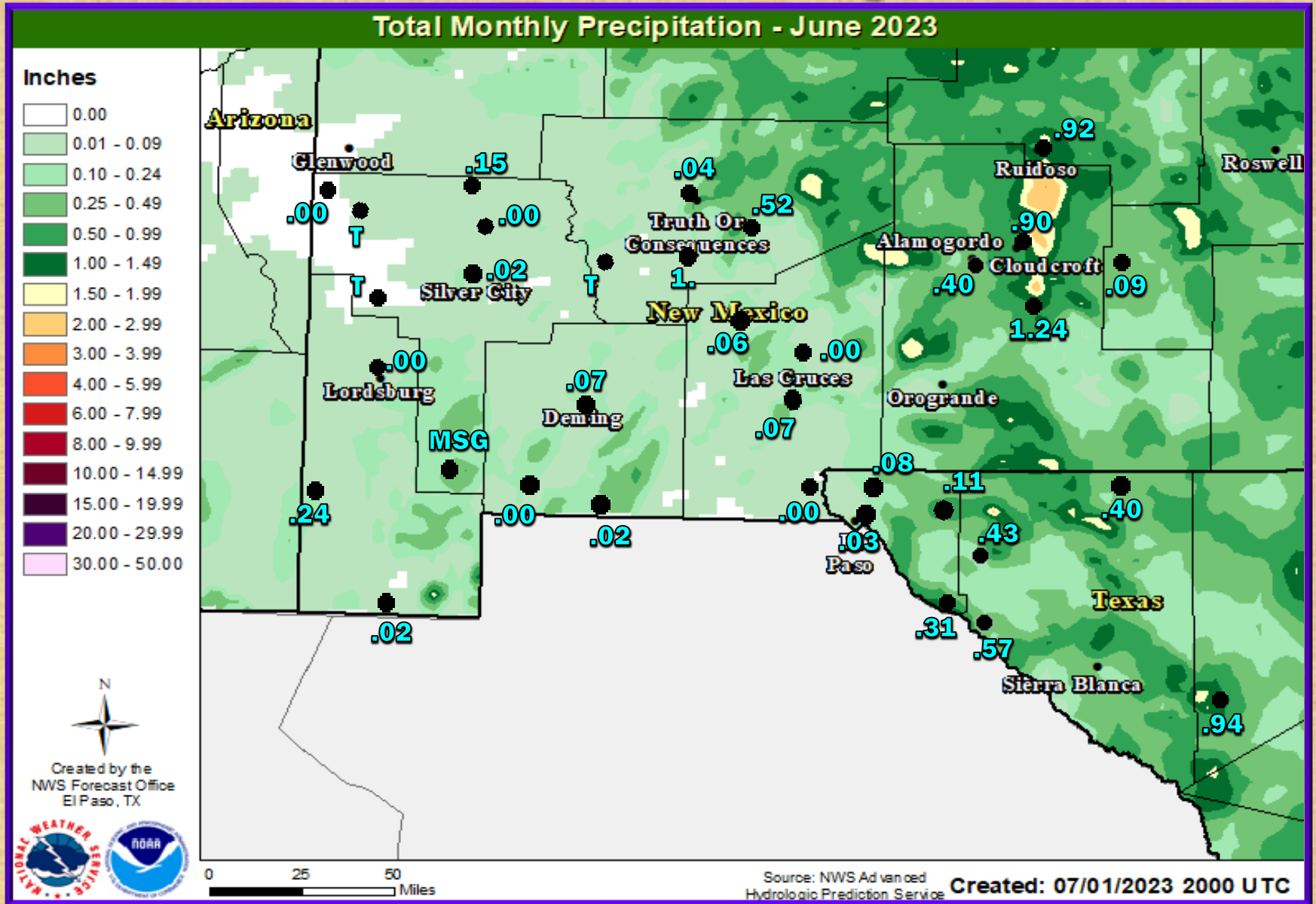


# June 2023 compared to June 1994

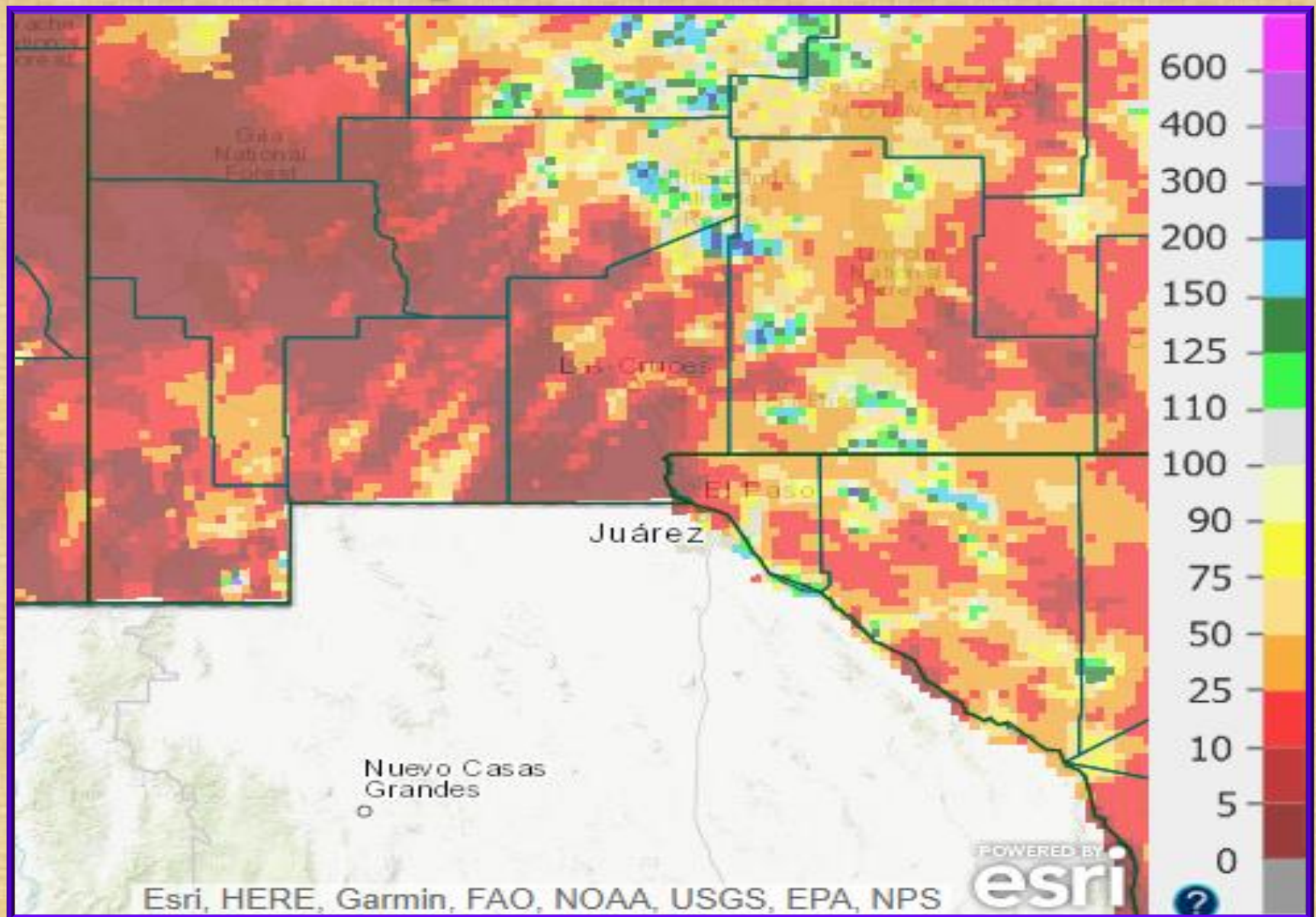
June 1994 was one of the two hottest months (average high temps) on record at El Paso Airport. These maps show the average daily high temperatures for the month of June for both years.



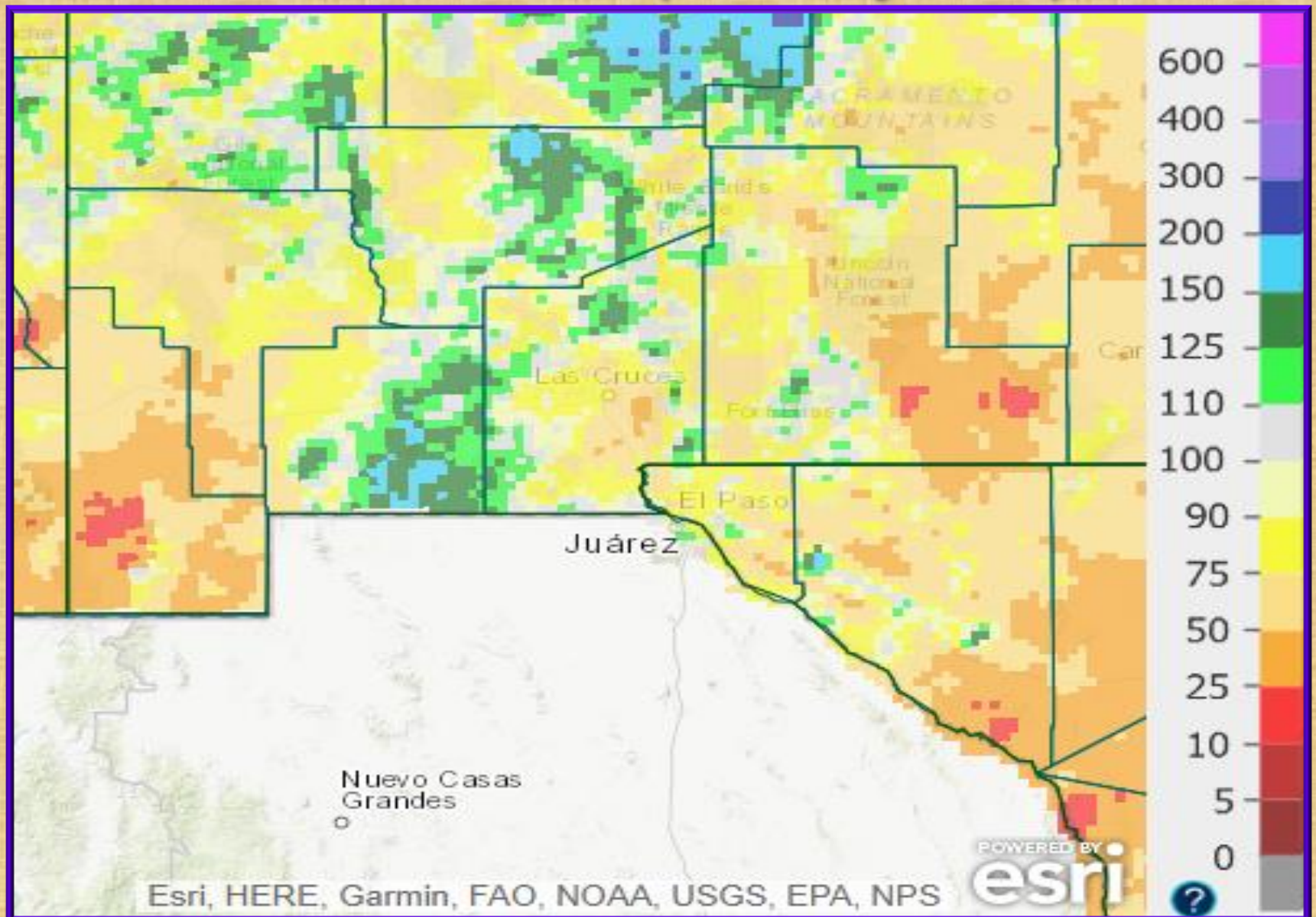
# June 2023 radar rainfall estimate with surface rainfall reports



# June 2023 rainfall estimate percent of normal



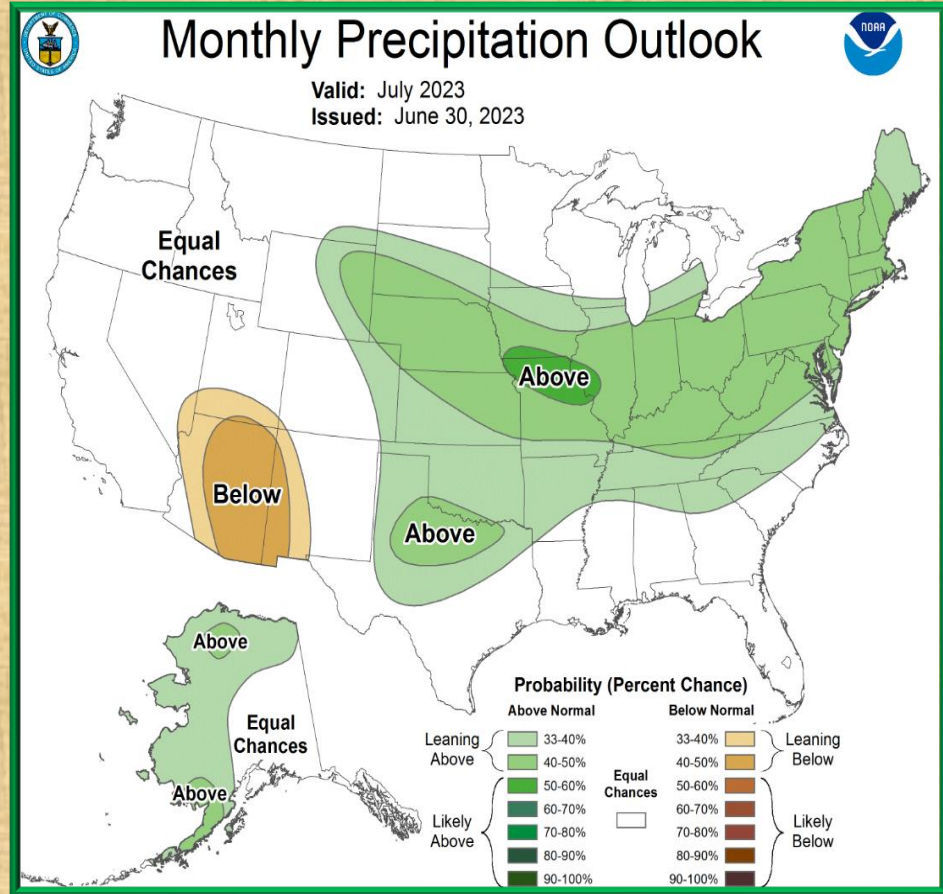
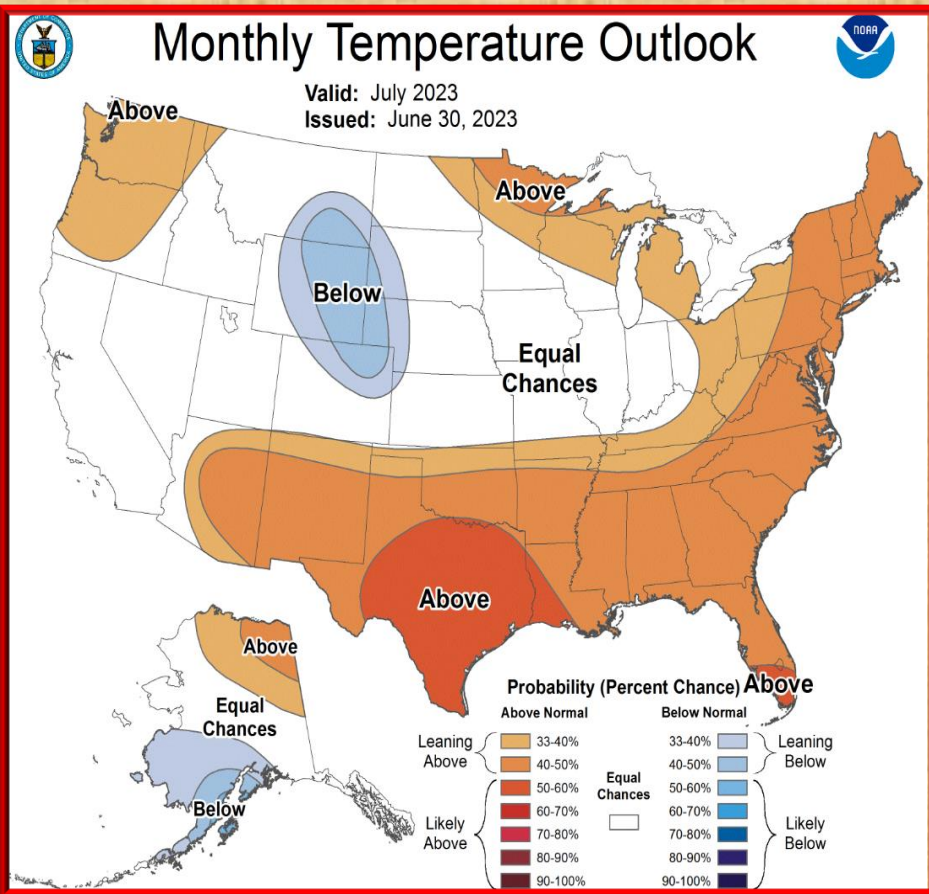
# Radar rainfall estimate percent of normal for the Water Year (Oct 1 – Jun 30)



# Temperature and precipitation outlook For July 2023

## Temperature

## Precipitation



# Temperature and precipitation outlook for Jul-Sep 2023

## Temperature

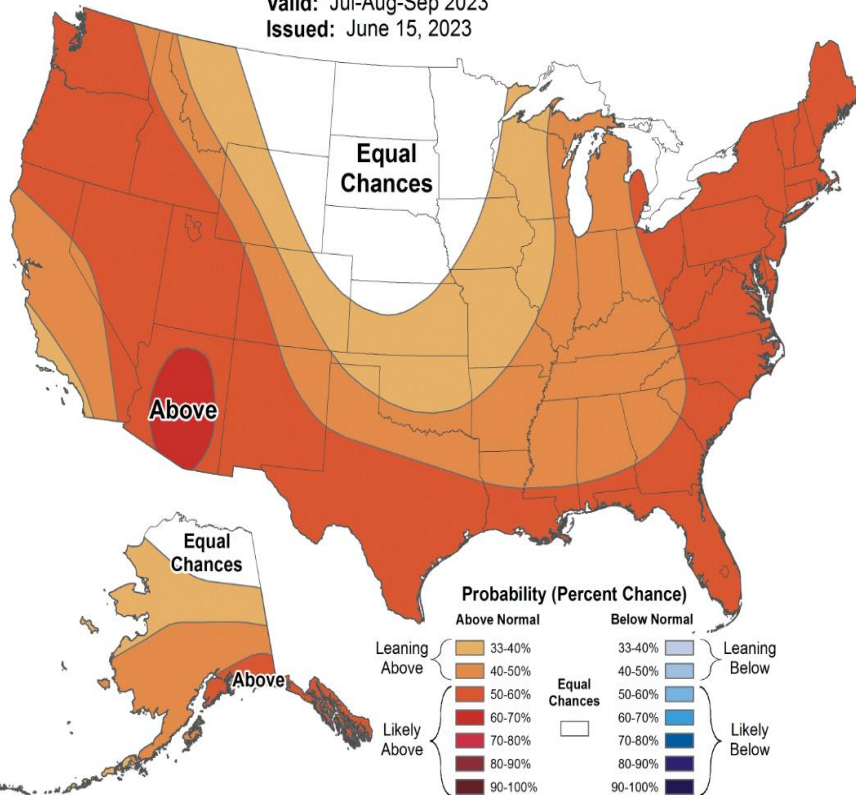
## Precipitation



### Seasonal Temperature Outlook



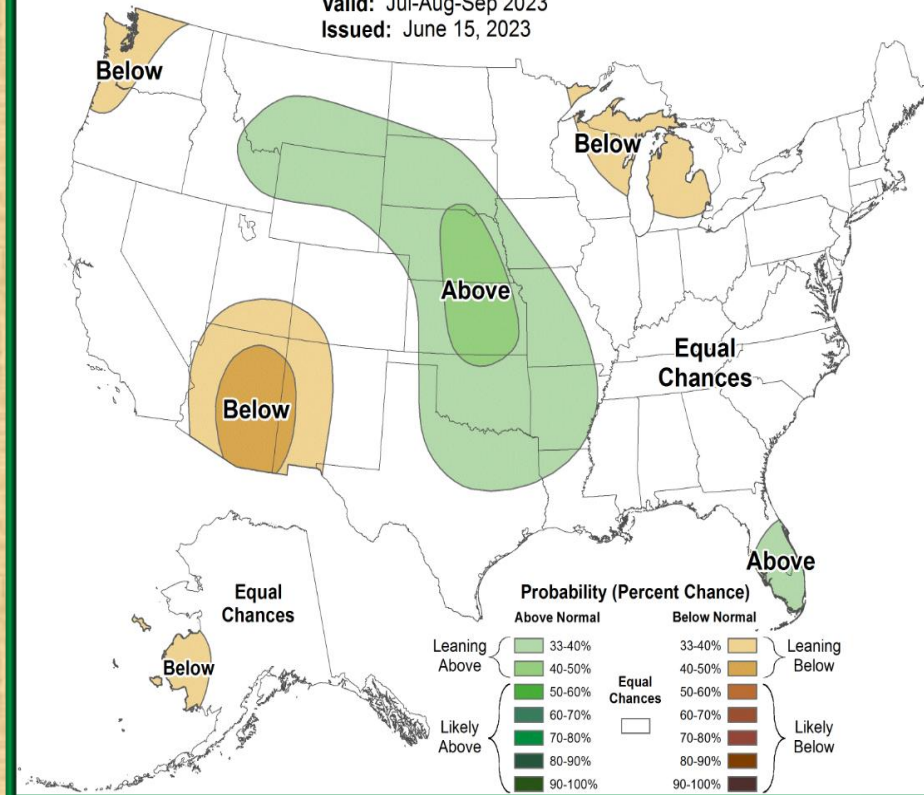
Valid: Jul-Aug-Sep 2023  
Issued: June 15, 2023



### Seasonal Precipitation Outlook



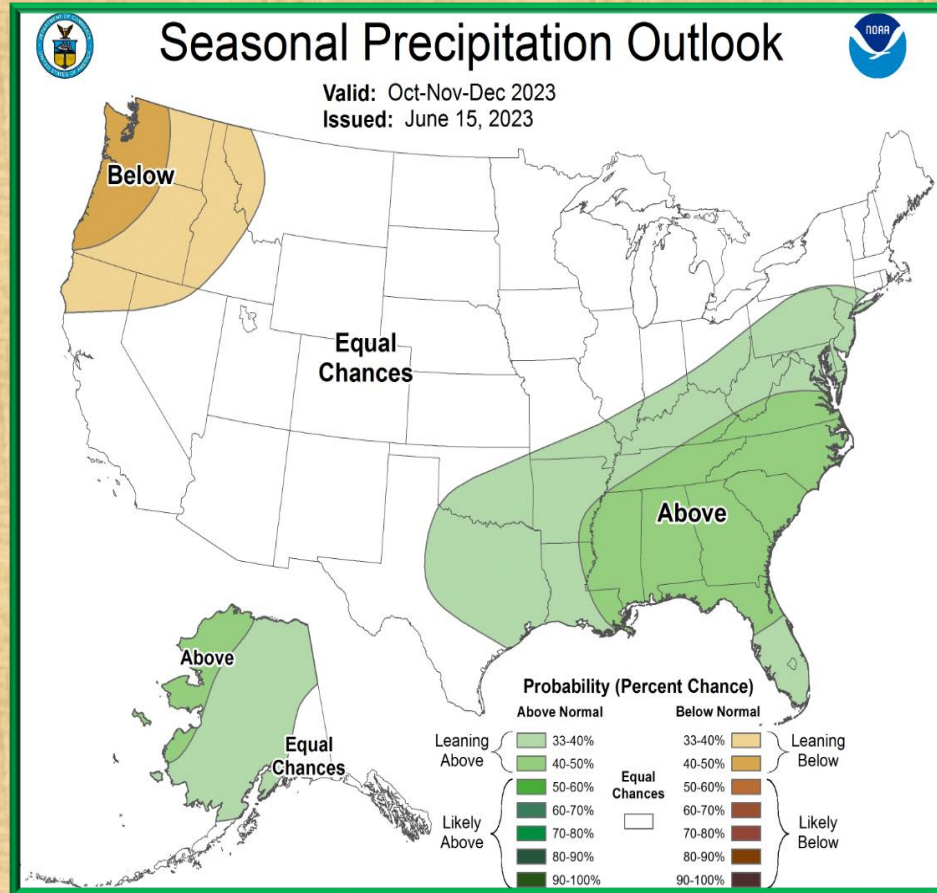
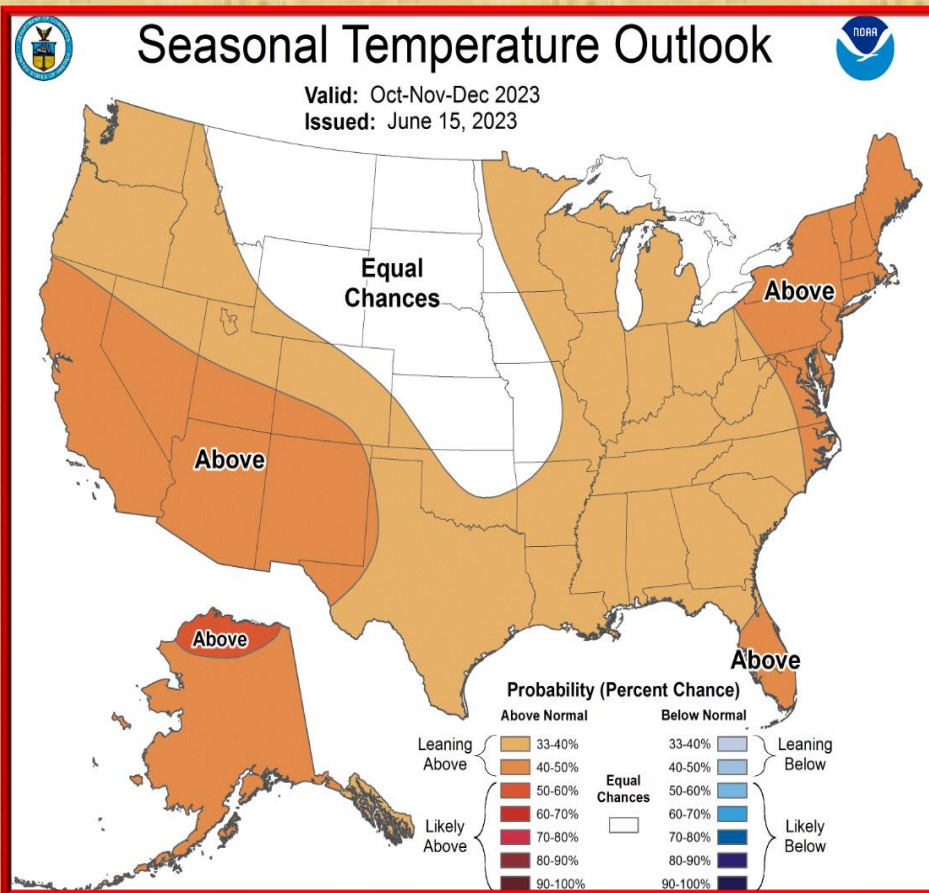
Valid: Jul-Aug-Sep 2023  
Issued: June 15, 2023



# Temperature and precipitation outlook for Oct-Dec 2023

## Temperature

## Precipitation



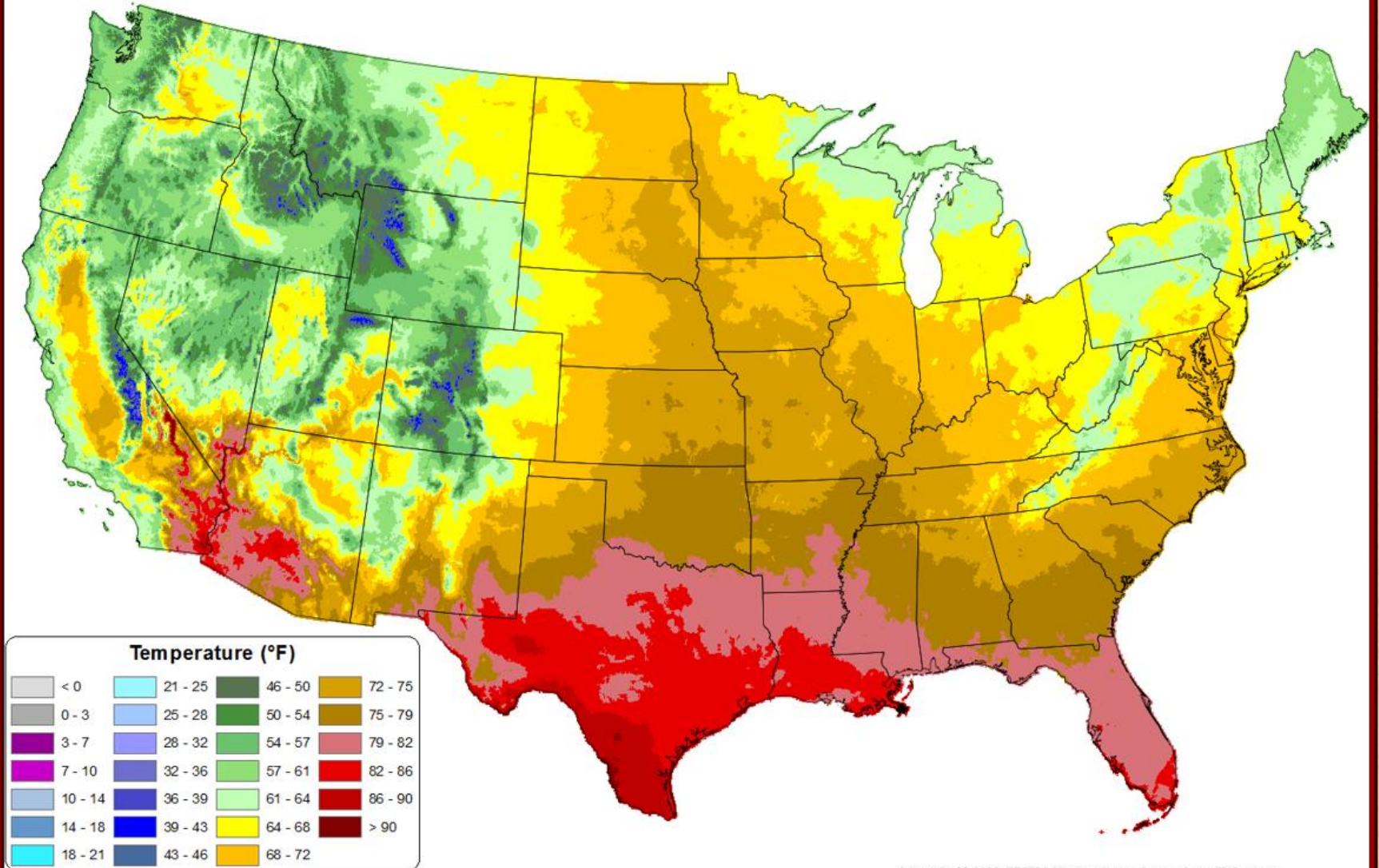


# Average Daily Mean Temperature for June 2023

Average Daily Mean Temperature: Jun 2023

Period ending 7 AM EST 30 Jun 2023

(Map created 02 Jul 2023)

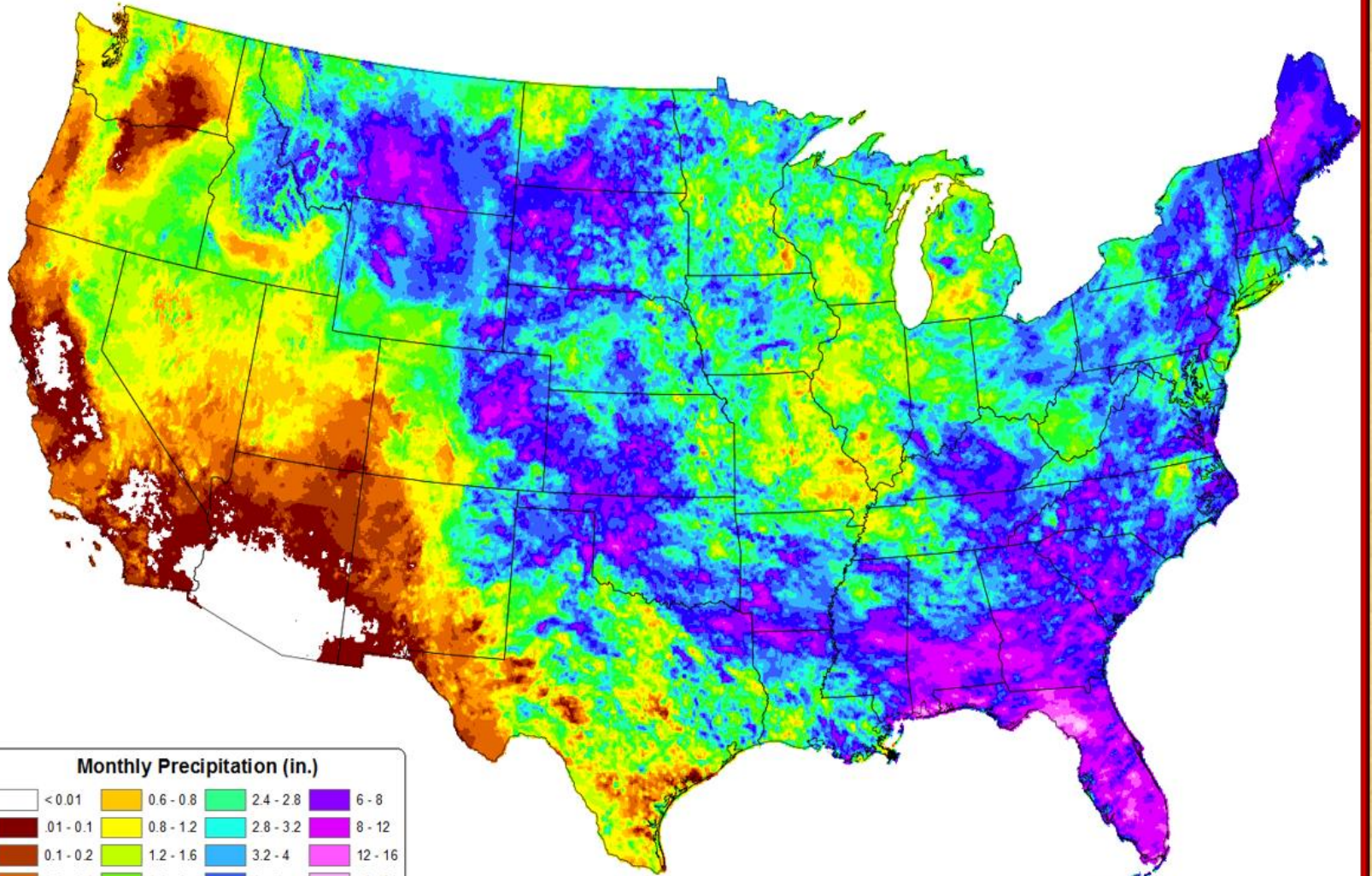


# Total Precipitation for June 2023

**Total Precipitation: Jun 2023**

Period ending 30 Jun 2023

(Map created 02 Jul 2023)



**Monthly Precipitation (in.)**

< 0.01	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

# Selected Weather Reports June 2023

<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
JUNE 6 525 PM	FABENS-EL PASO	63 MPH TSTM GUST
JUNE 6 326 AM	DRIPPING SPRINGS-DONA ANA	60 MPH TSTM GUST
JUNE 6 550 PM	EL PASO INTL AIRPORT-EL PASO	53 MPH TSTM GUST
JUNE 6 755 PM	ALAMOGORDO AIRPORT-OTERO	52 MPH TSTM GUST
JUNE 6 715 PM	LAS CRUCES AIRPORT-DONA ANA	51 MPH TSTM GUST
JUNE 6 620 PM	SANTA TERESA NWS-DONA ANA	47 MPH TSTM GUST
JUNE 6 919 PM	HIGH ROLLS-OTERO	46 MPH TSTM GUST
JUNE 6 635 PM	WSMR MUSEUM-DONA ANA	43 MPH TSTM GUST
JUNE 16 605 PM	WSMR MAIN POST-DONA ANA	61 MPH TSTM GUST
JUNE 16 726 PM	DRIPPING SPRINGS-DONA ANA	50 MPH TSTM GUST
JUNE 16 400 PM	LORDSBURG PLAYA MP 9	49 MPH TSTM GUST
JUNE 16 400 PM	DEMING AIRPORT-LUNA	47 MPH TSTM GUST

## Selected Weather Reports June 2023

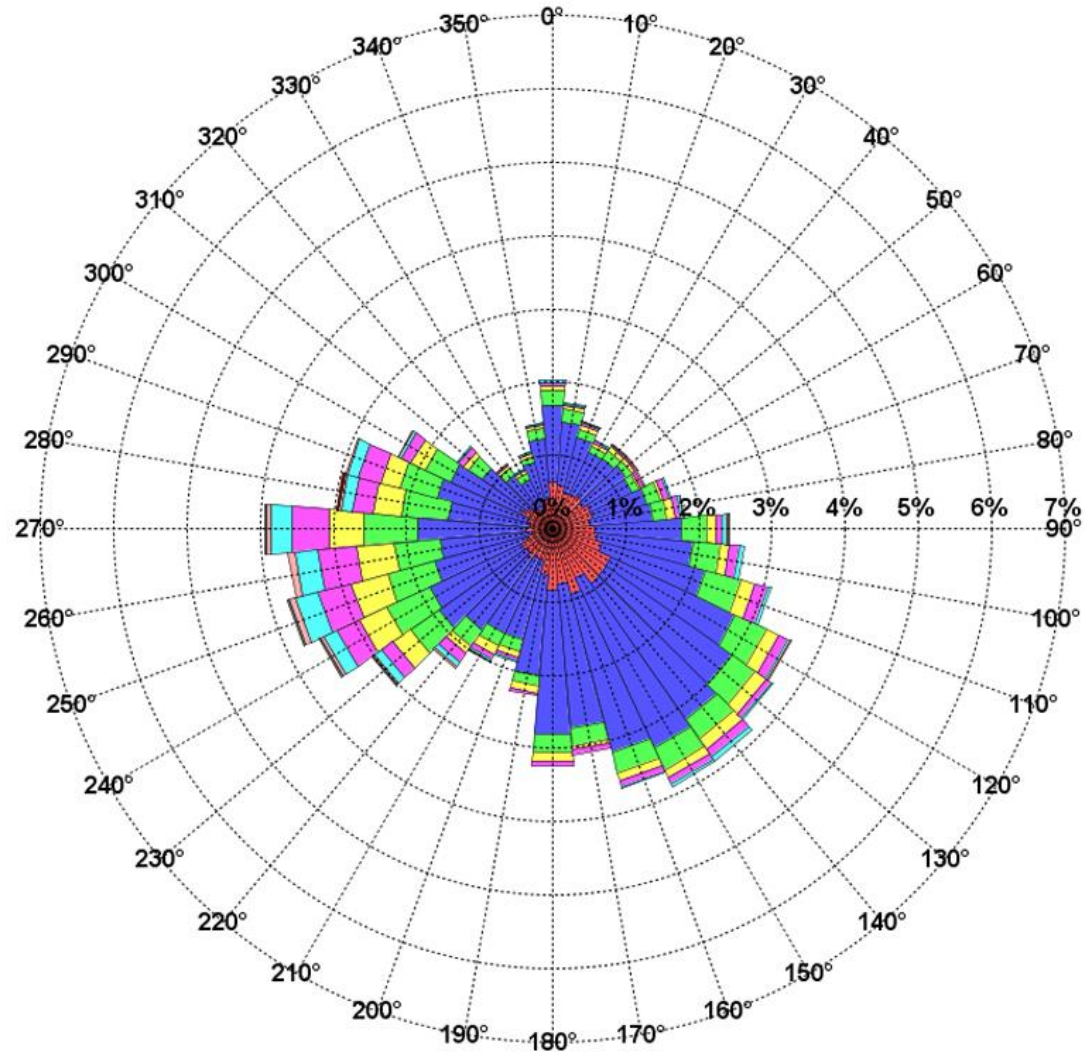
<b>Date/Time</b>	<b>Location (County)</b>	<b>Event</b>
JUNE 16 715 PM	EL PASO INTL AIRPORT- EL PASO	47 MPH TSTM GUST
JUNE 16 635 PM	LAS CRUCES AIRPORT- DONA ANA	46 MPH TSTM GUST
JUNE 16 515 PM	SILVER CITY AIRPORT-GRANT	45 MPH TSTM GUST
JUNE 16 335 PM	ALAMOGORDO AIRPORT-OTERO	45 MPH TSTM GUST
JUNE 16 248 PM	T OR C –SIERRA	45 MPH TSTM GUST
JUNE 27 526 PM	DEMING AIRPORT-LUNA	63 MPH TSTM GUST

# Special Features

[www.weather.gov/epz/elpwindrosedata](http://www.weather.gov/epz/elpwindrosedata)

Month: JUNE  
Calm: 8.00%  
Variable: 3.55%

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



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 [www.weather.gov/epz/](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>	