July 2025 Weather Digest

July 2025 Weather Summary

July ended up as a wet month with most places receiving above normal rainfall. With the rain and clouds, the month ended up being near normal, seasonable, with average temperatures. Most areas east of the Continental Divide ranged from 125 to 300 percent of normal with respect to rainfall. Unfortunately, areas west of the Divide ended up rather dry with only 25 to 75 percent of normal rainfall. Thus, wildfires were able to continue, both existing fires and new fire starts, mainly in the Gila Wilderness area. In the wet areas, rainfall was fairly evenly distributed throughout the month, with very few days seeing sparse activity. Of course, with this abundant rain, flooding was an issue. Notably burn scars such as the Trout and Salt scars reported several events of flooding from arroyos leading out of the scars. Other areas reporting serious flooding were Mescalero (Tularosa Creek), Vado, and Columbus.

As far as temperatures, for the most part the Borderland reported few if any high temperature records. For the lowlands, triple digit temperatures were few and far between, and with the constant clouds and rain, we avoided any long stretches of heat like typical Julys often see.

July 2025 Weather Summary

Looking ahead to August, the month for many places is the wettest month of the year, just slightly ahead of July and September. The monsoon is still in full swing, and August contributes about 10-20 percent of the area's annual rainfall.

Daylight and temperatures continue to decrease as we get further away from the Summer Solstice and approach the Autumnal Equinox. At El Paso, the average high temperatures decrease from 95˚ on August 1 to 92˚ on August 31. Daylight continues to shrink, from 13 hrs, 40 mins on the 1st to 12 hrs, 49 mins on the 31st. Over the past 25 years El Paso has averaged 31 triple digit high temperatures per year, with 6 coming in August. The record high temperature for August at El Paso is 112˚, set in 2023.

For the sky gazers out there, August's full moon occurs on August 9, known as the Sturgeon Moon. It will coincide with the Perseid meteor shower, which peaks a few days later. The new moon occurs on August 23.


July 2 Flooding Hwy 35 near
Lake Roberts


July 3 Haboob Deming


July 2 near Deming


July 2 near Deming


July 2 near Silver City


July 2 near Silver City


July 8 Florida Mtns


July 15 near Mangas Springs


July 13 hail near Cloudcroft


July 13 hail near Cloudcroft

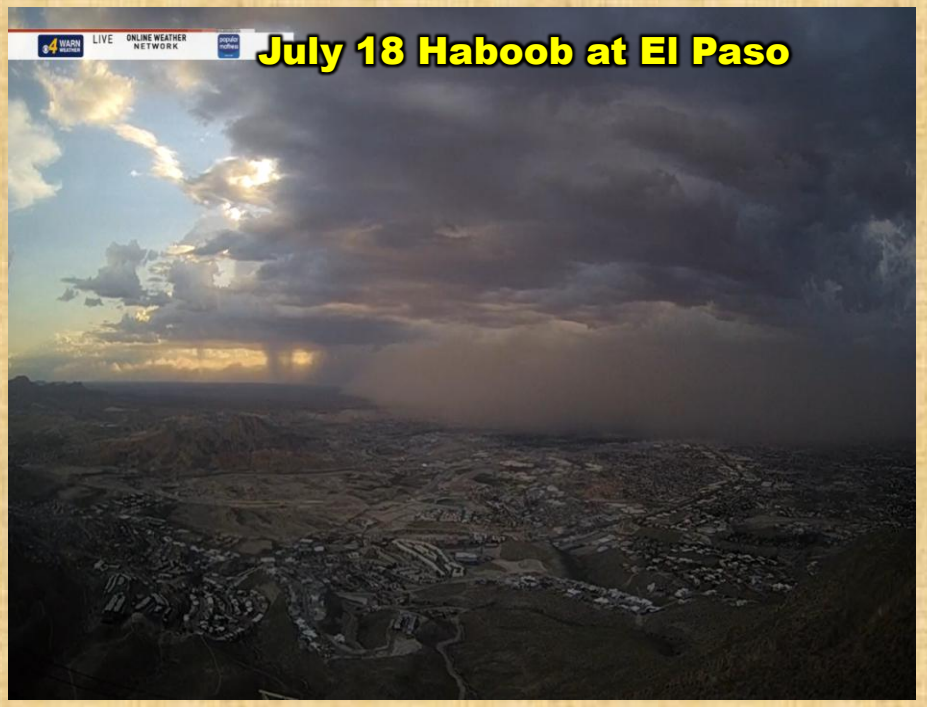

July 13 hail near Cloudcroft


July 13 hail near Cloudcroft


July 12 El Paso


July 12 El Paso


July 17 near Mangas Springs


LIVE
ONLINE WEATHER NETWORK
July 18 Haboob at El Paso


July 18 near Buckhorn


July 18 near Buckhorn


July 20 near Silver City


July 20 near Silver City


July 18 Flooding near the
Trout Fire Burn Scar


July 18 Flooding near the
Trout Fire Burn Scar


July 21 near El Paso


July 21 near El Paso


July 21 near El Paso


July 27 flooding at El Paso


July 22 near Vado

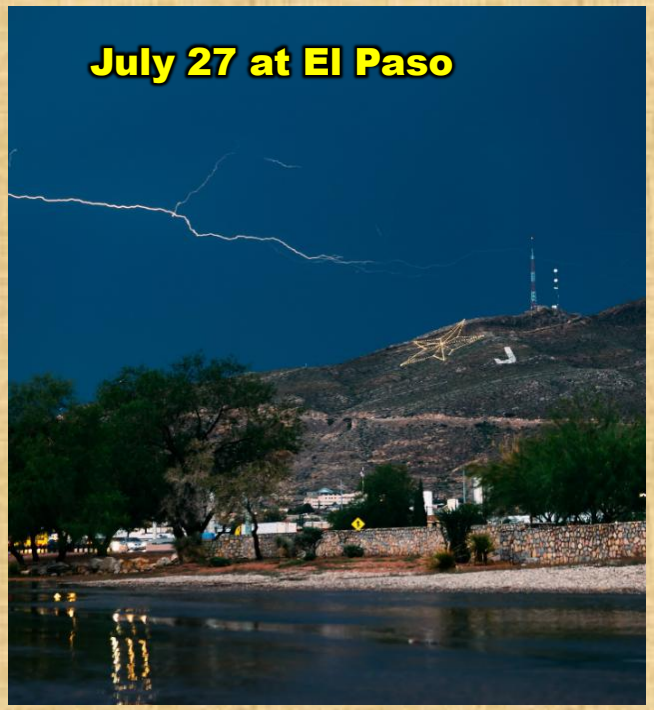

July 22 near Vado


July 22 near Vado


July 22 near Vado


July 22 near Silver City


July 22 near Silver City


July 27 at El Paso


July 27 at El Paso

ENSO Alert System Status: Not Active

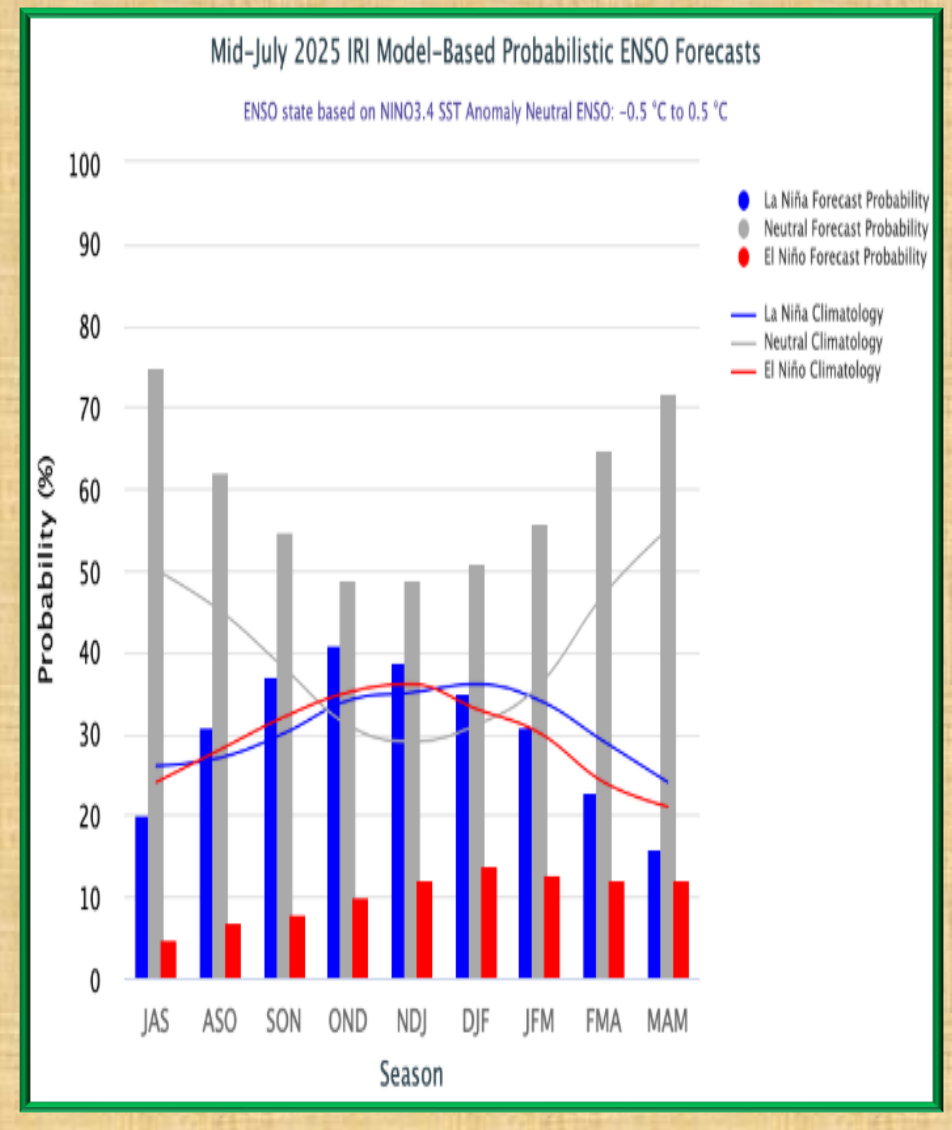
ENSO Alert System

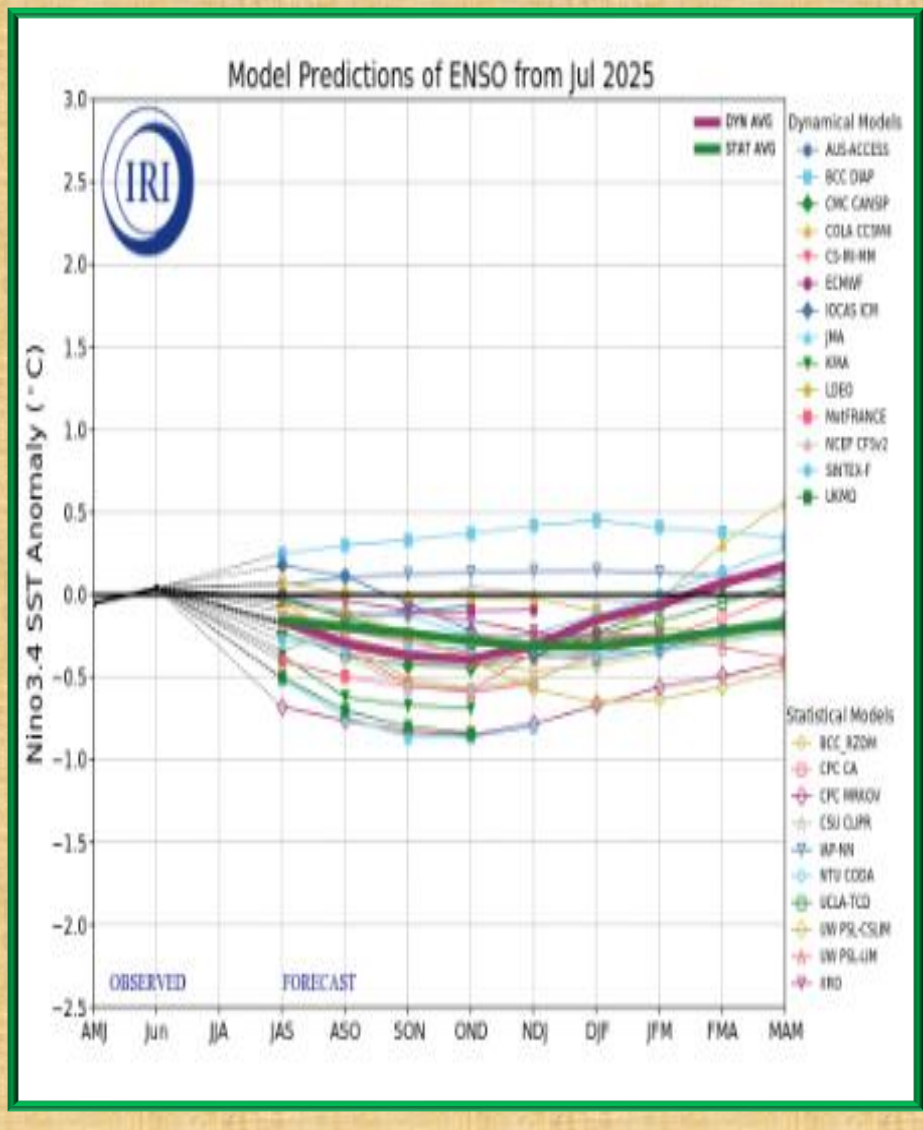
- El Niño or La Niña Watch: Issued when conditions are favorable for the development of El Niño or La Niña conditions in the next six months.

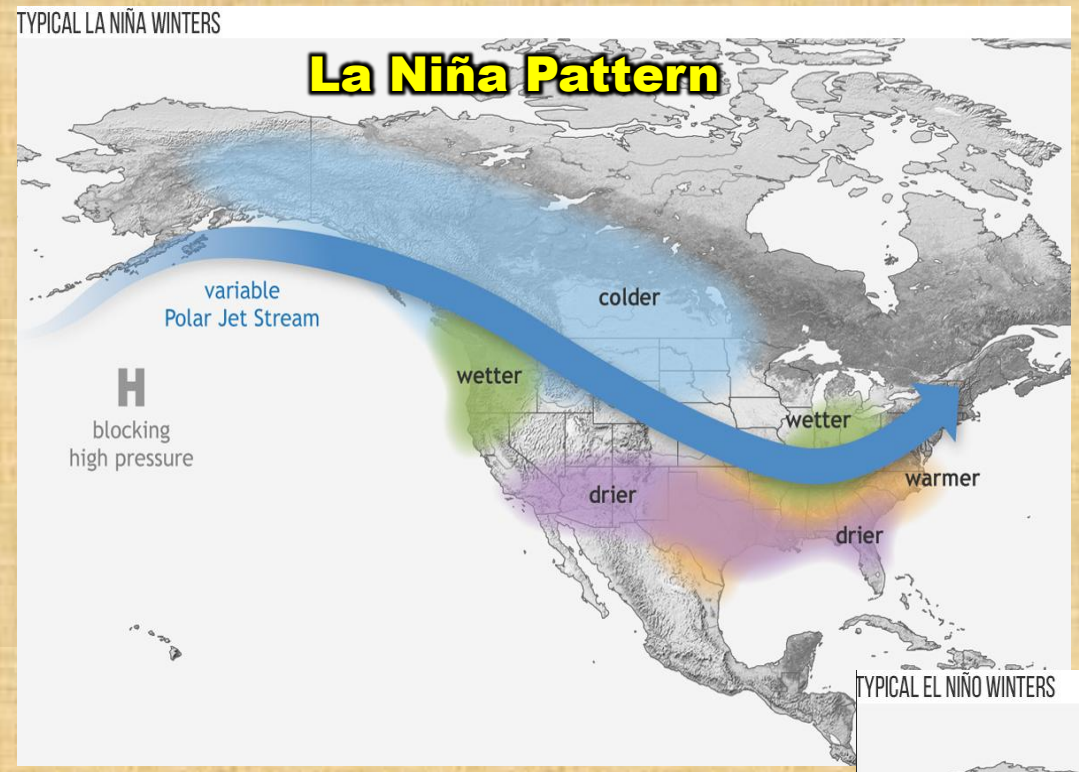
- El Niño or La Niña Advisory: Issued when El Niño or La Niña conditions are observed and expected to continue.

ENSO Forecast

ENSO is currently in neutral phase and likely to remain in neutral into this winter.

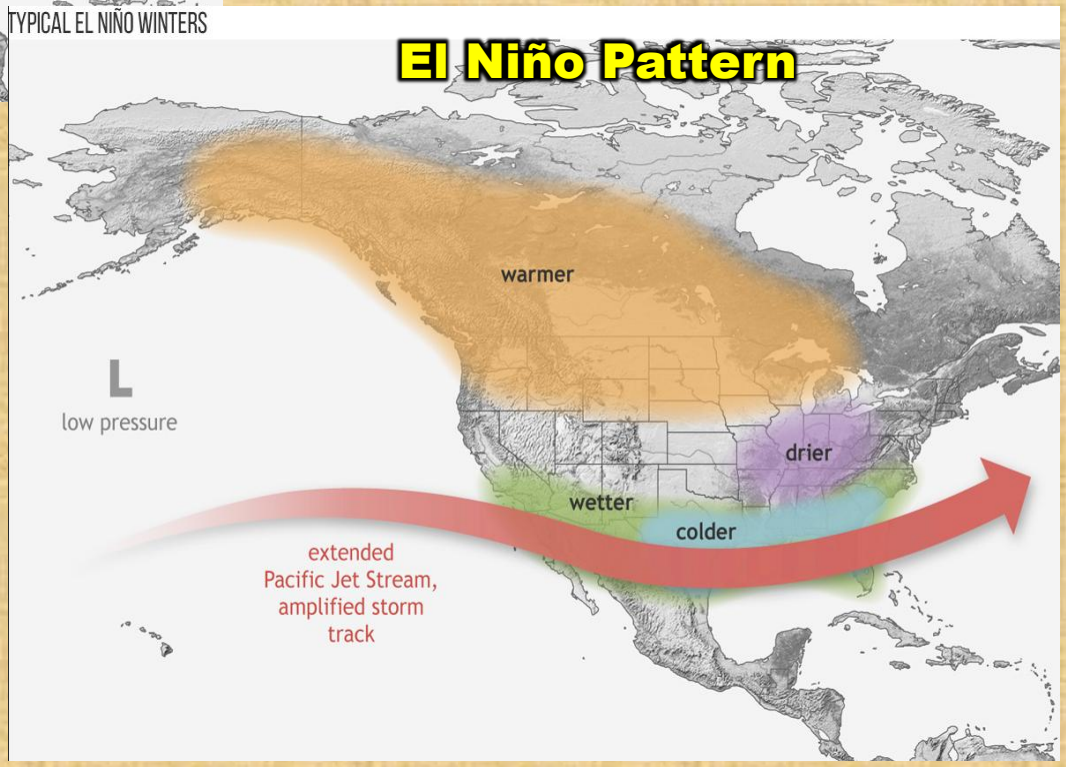






With a La Niña pattern, a ridge of high pressure tends to build off the west coast of the U.S., blocking most of our Pacific winter storm systems. These storms tend to end up moving across the northern Plains and down to the southeastern part of the country. Of course it is important to remember that these patterns are only what typically happens and are not guaranteed to occur.

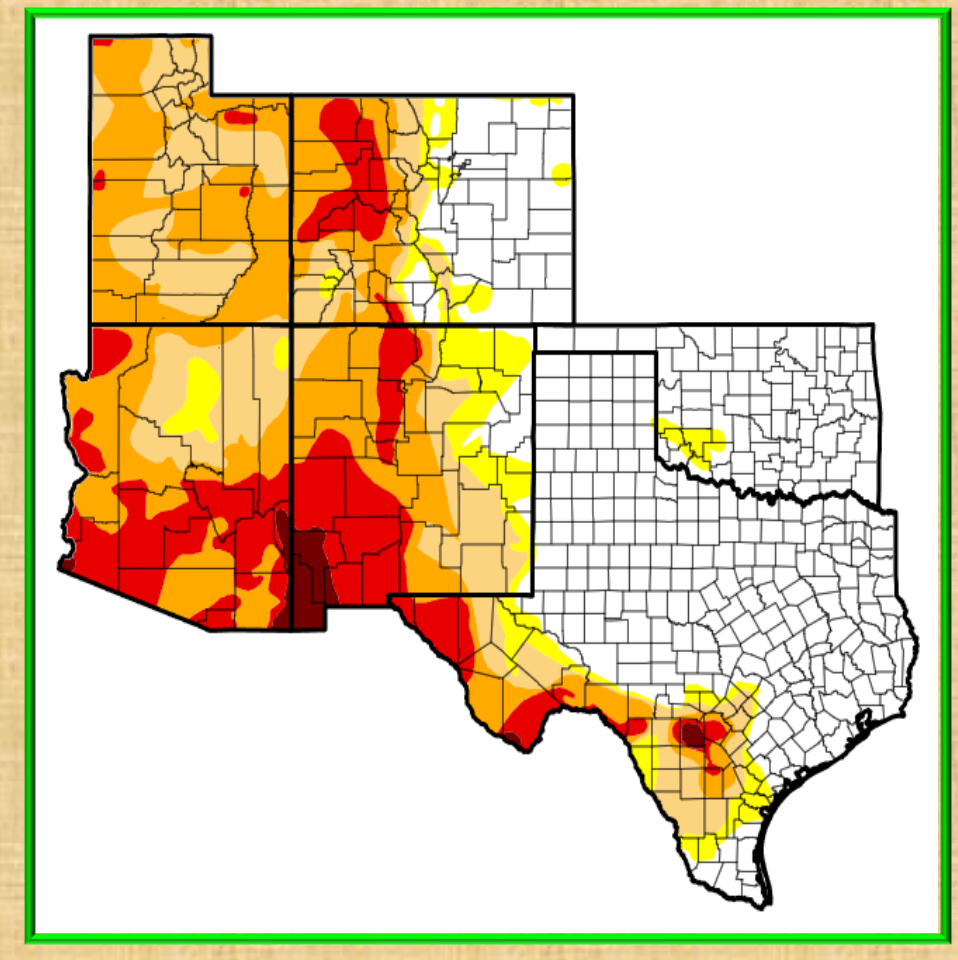
With El Niño, we often see the opposite pattern where the eastern Pacific ridge of high pressure is often weak or non-existent, allowing winter storms to sweep across the southern U.S. This typically will give the south-western U.S. above normal precipitation.



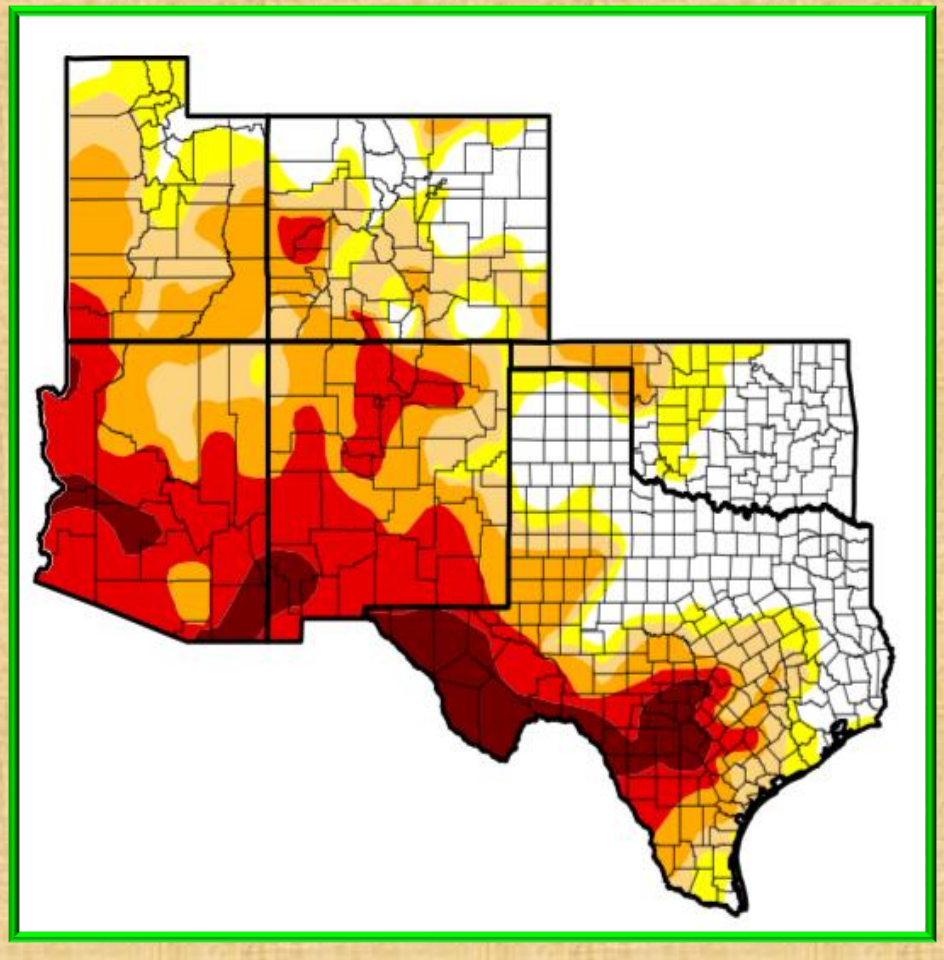
Current drought conditions and 3 month change

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

July 29, 2025

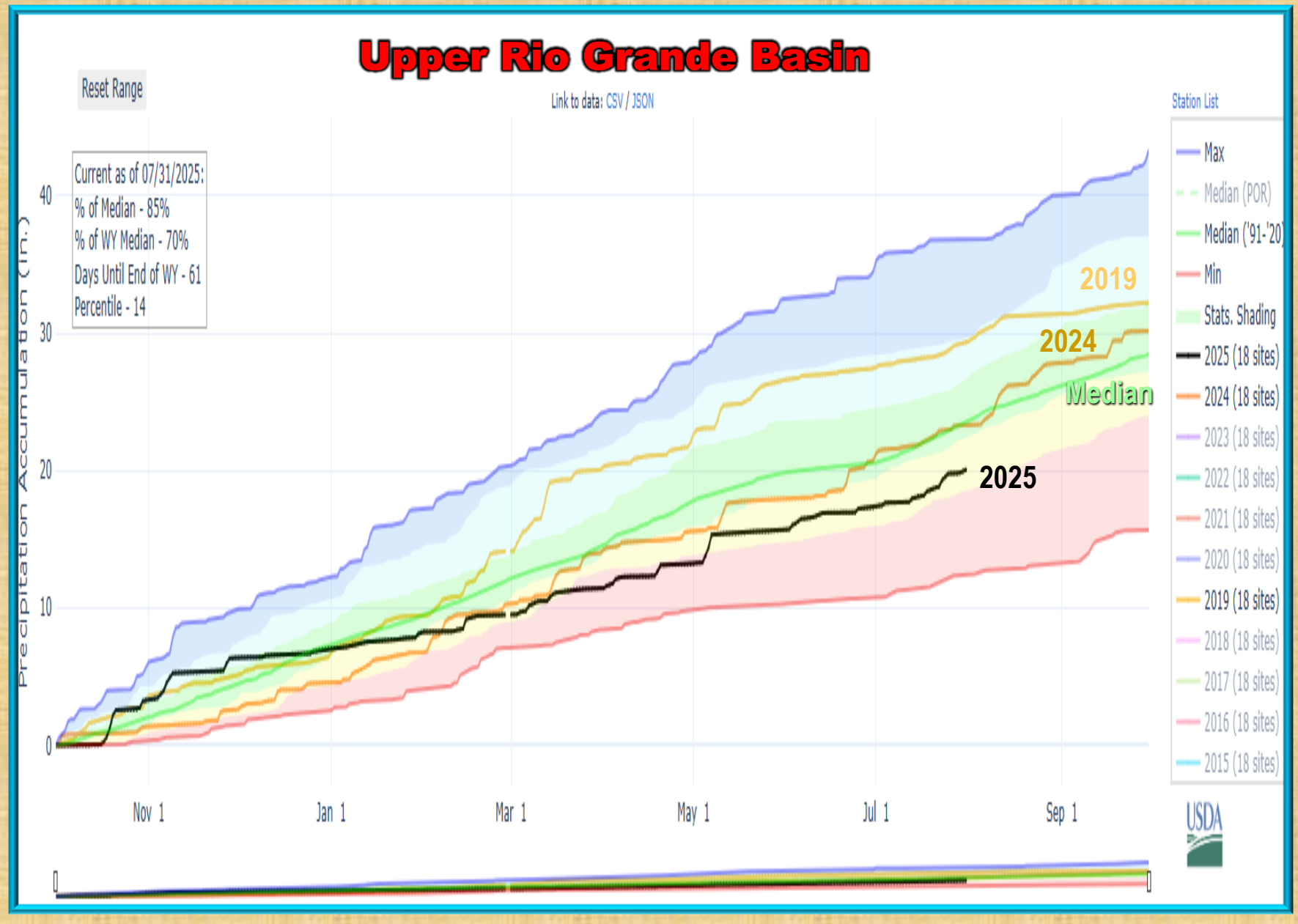


April 29, 2025



Precipitation for the Water YTD Oct 1 – July 31, 2025

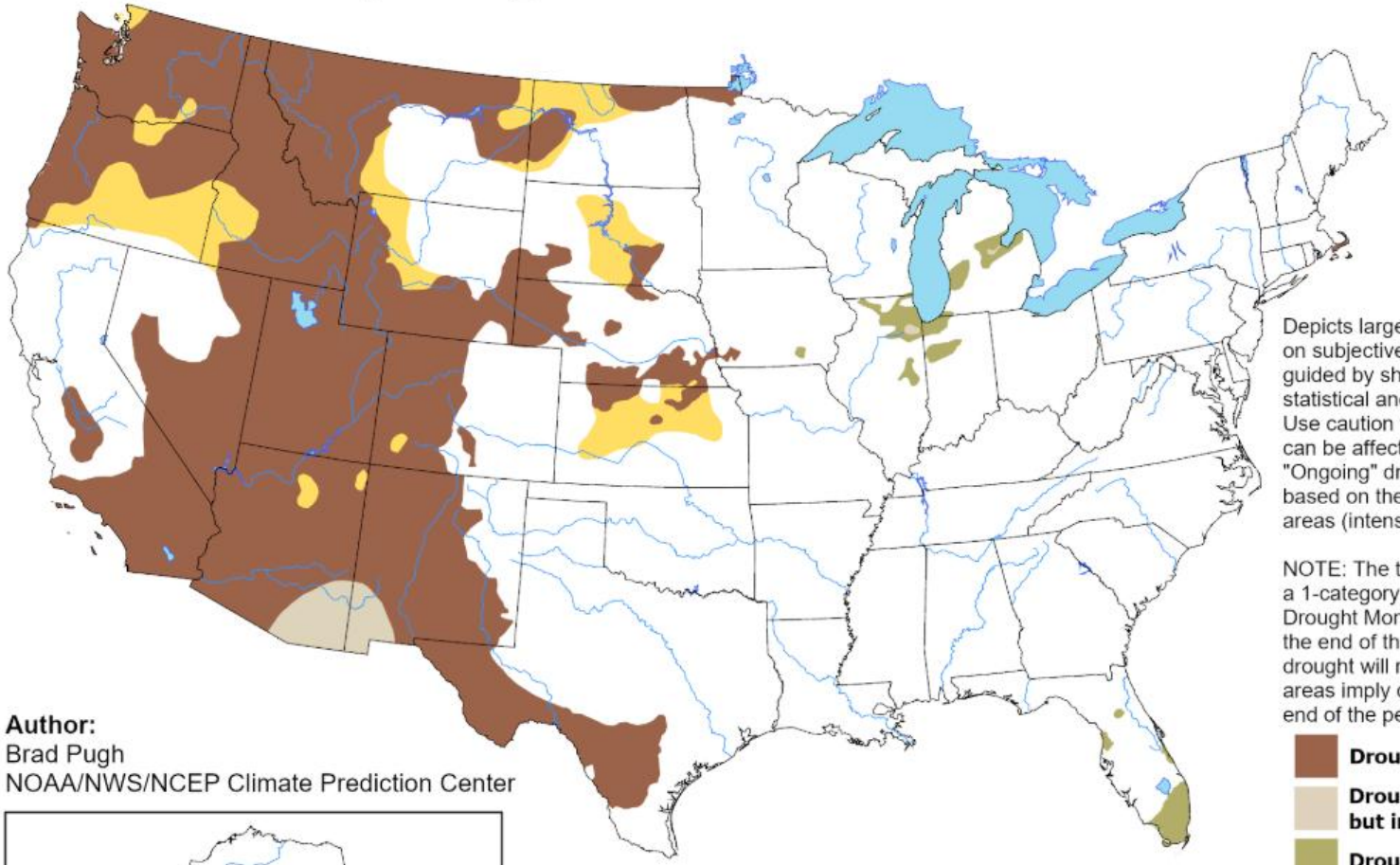
Compare to last few years and average values



U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for July 17 - October 31, 2025
Released July 17, 2025



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

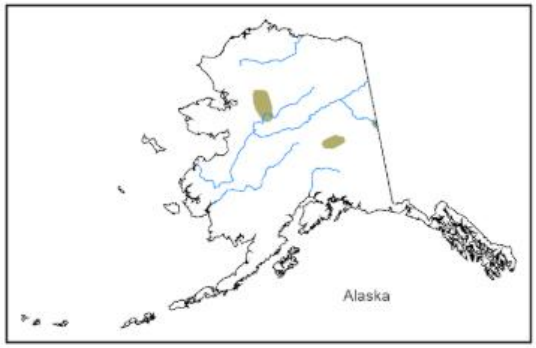
Drought remains, but improves

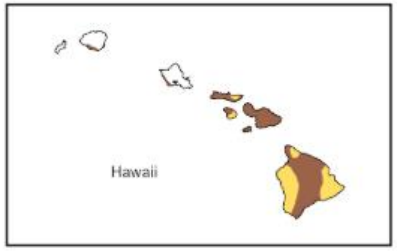
Drought removal likely

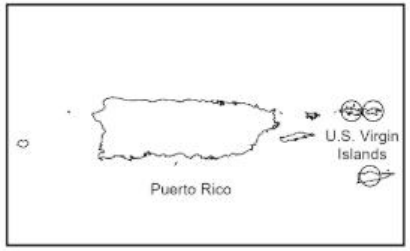
Drought development likely

No drought

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



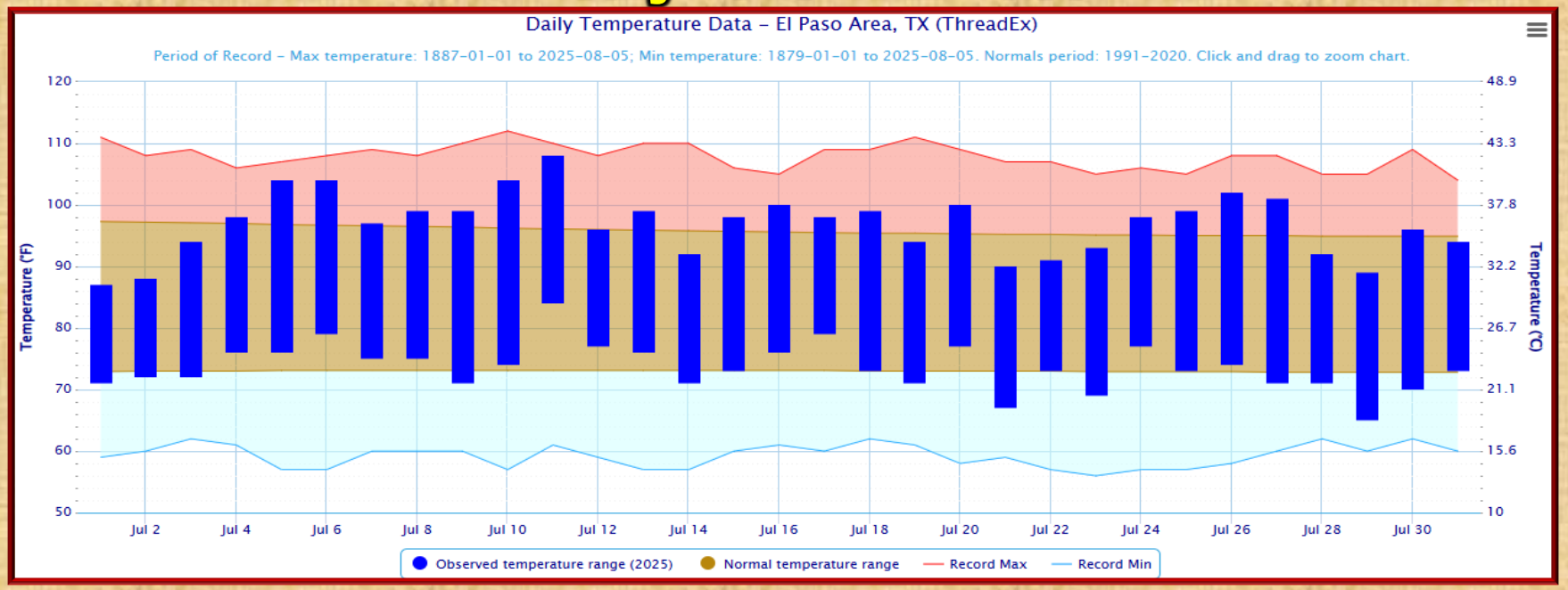


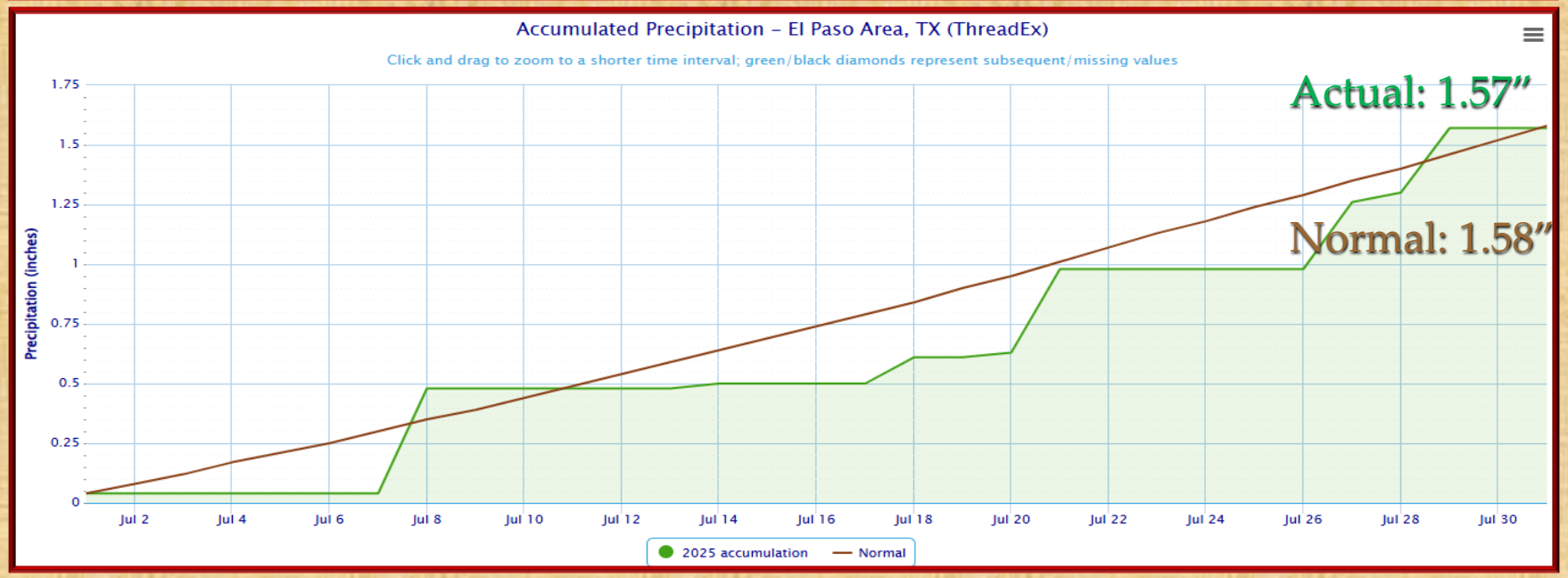


https://go.usa.gov/3eZ73

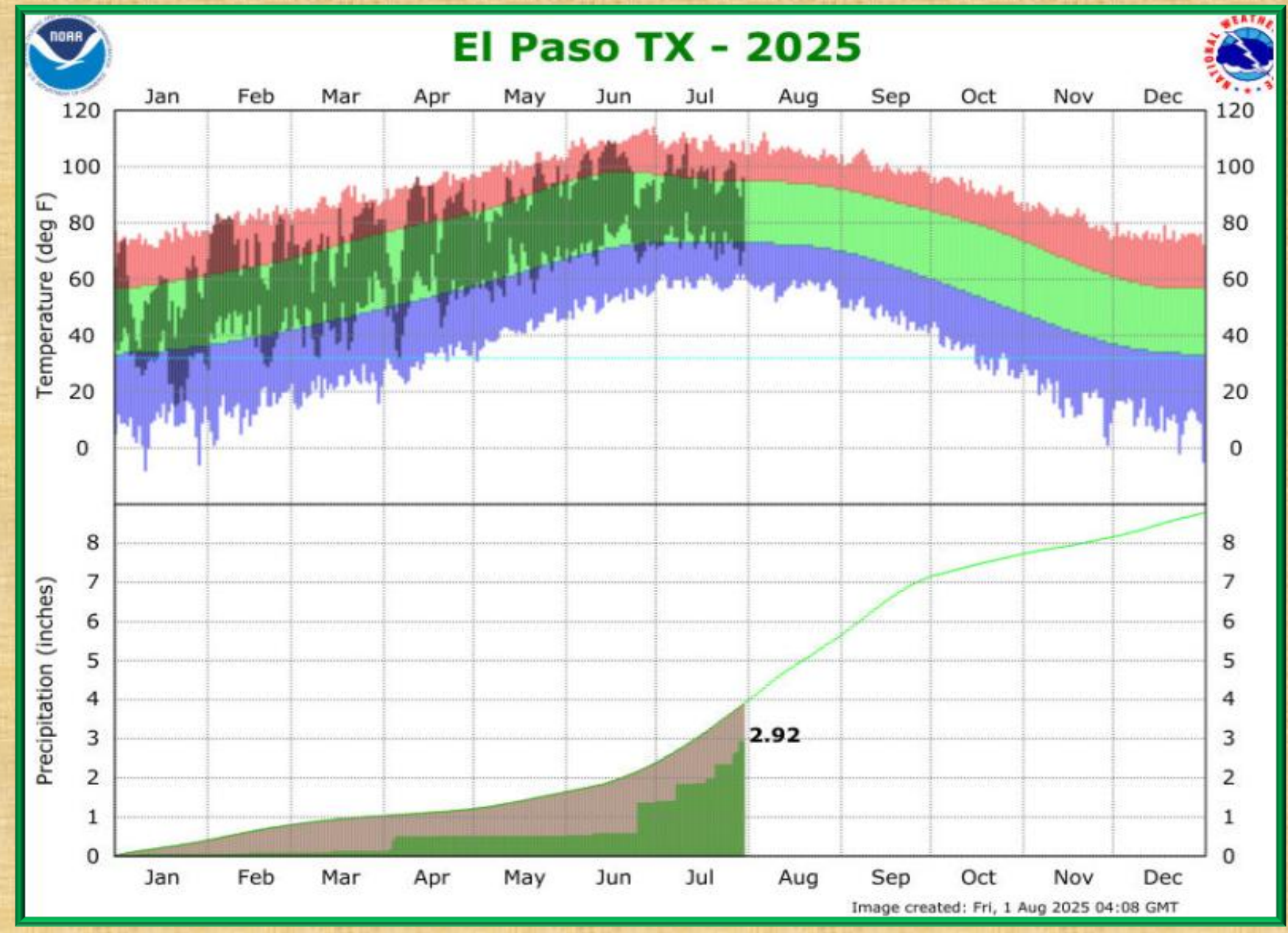
Temperature and precipitation data for July 2025 in El Paso

= record

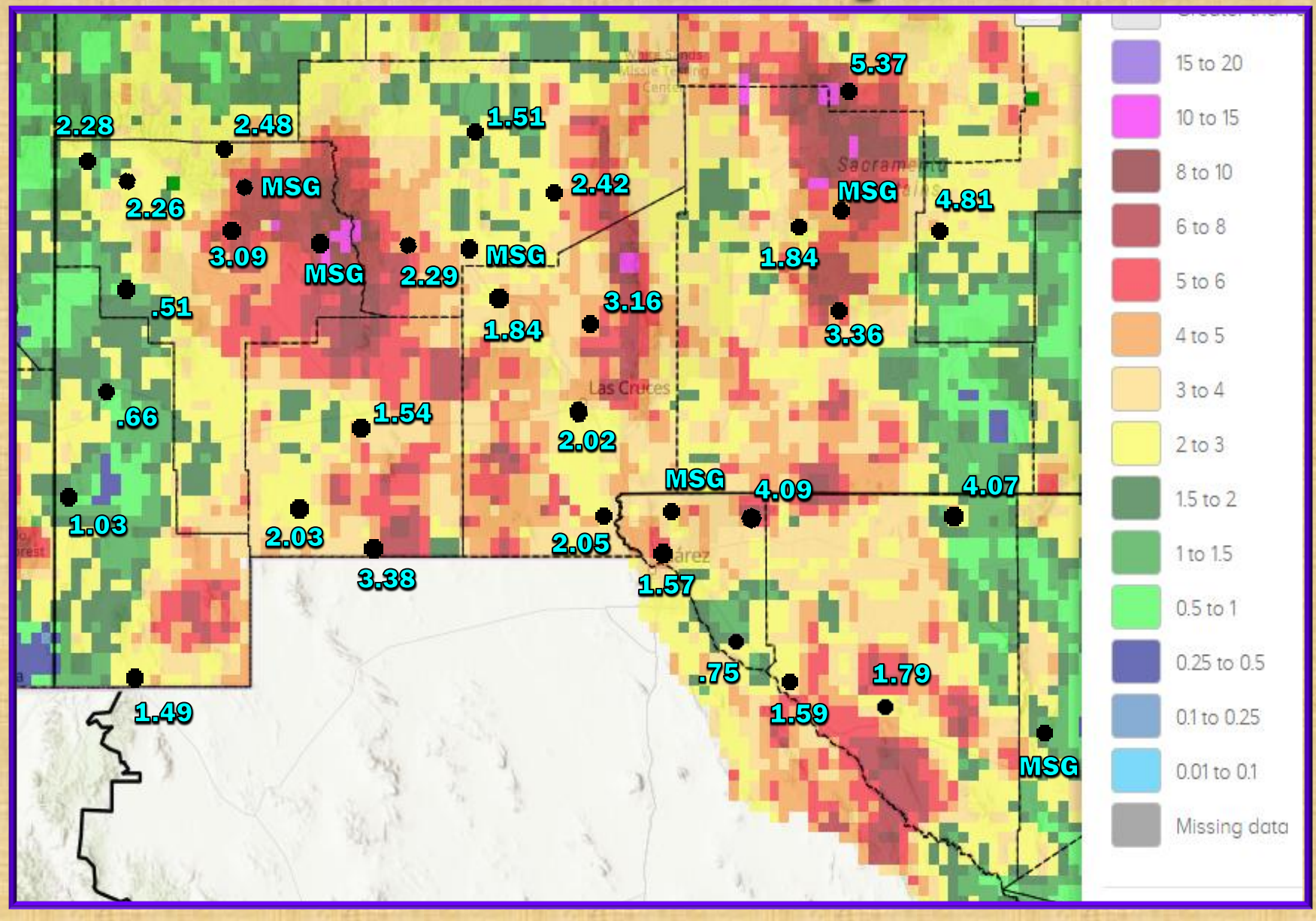




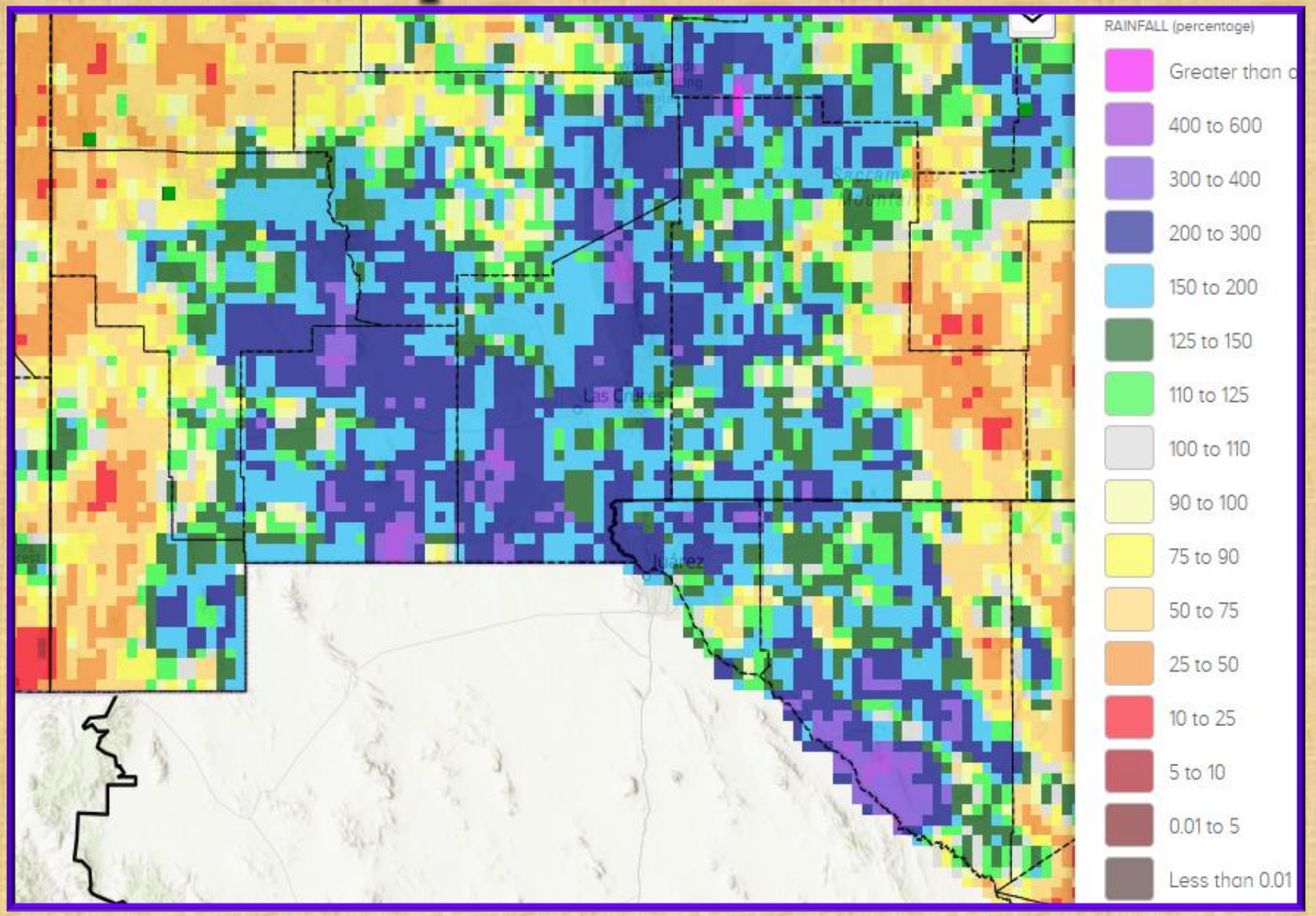
2025 Temperature and Precipitation through July for El Paso



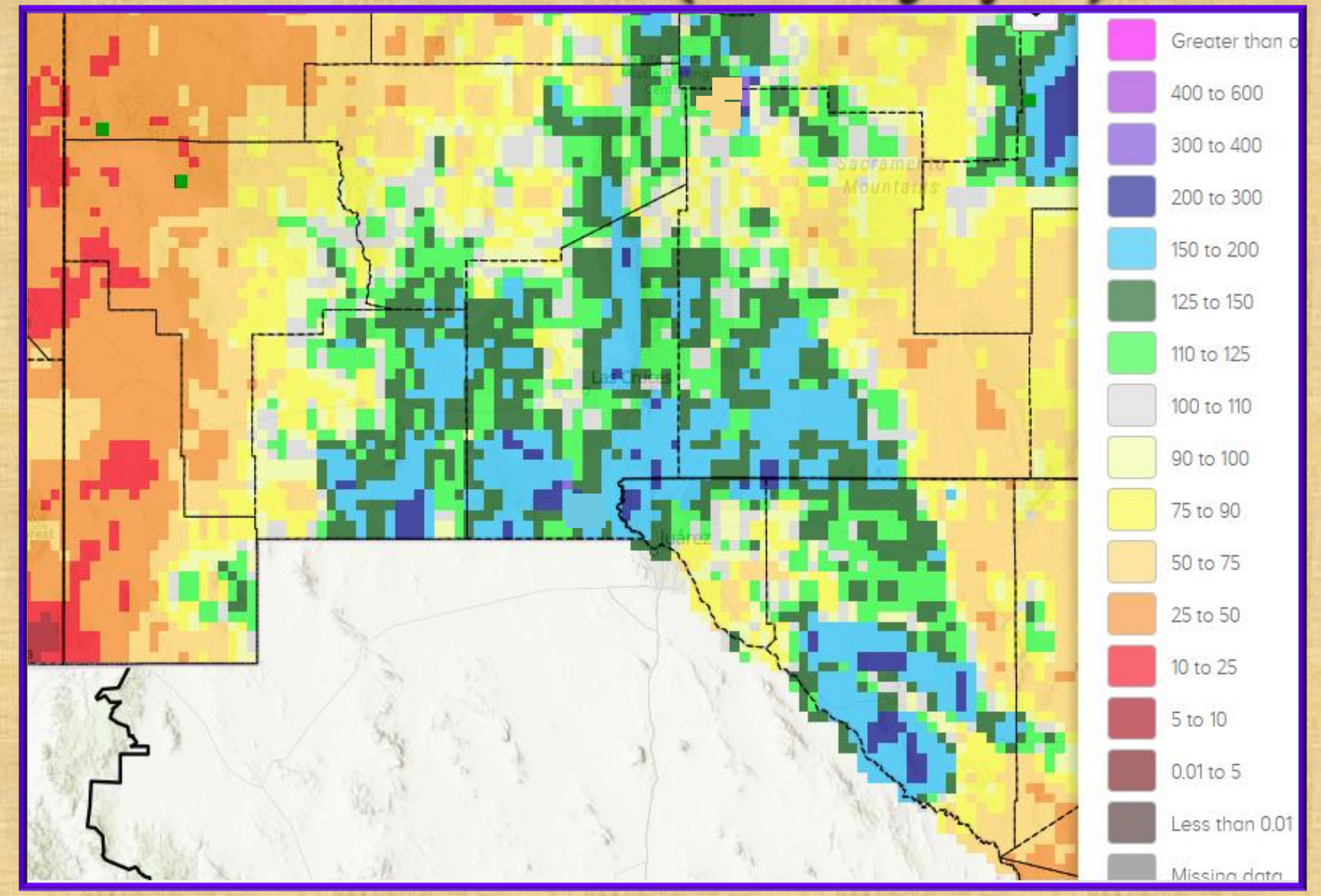
July 2025 rainfall estimate with surface rainfall reports



July 2025 rainfall estimate percent of normal



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



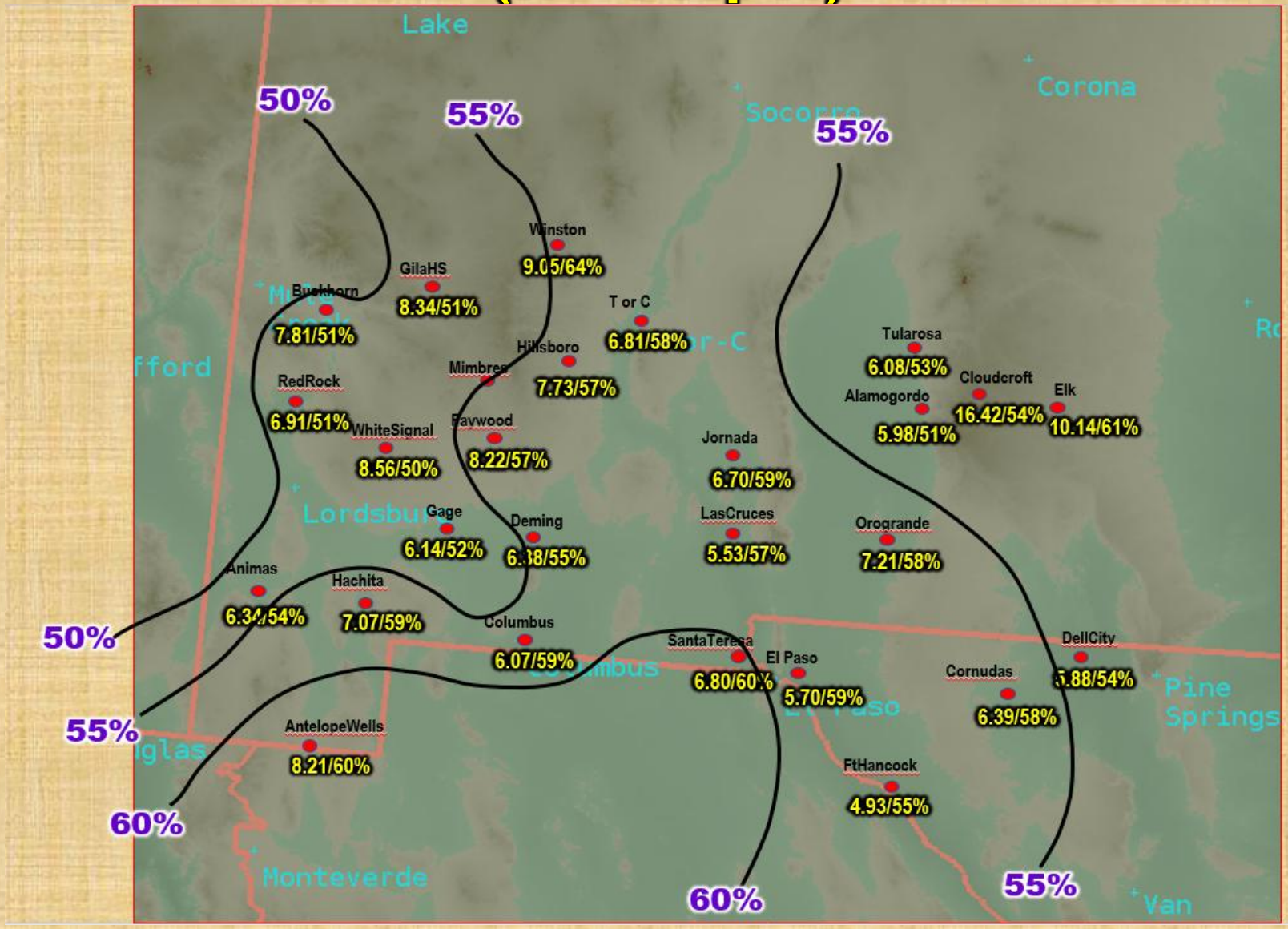
Tracking the 2025 Monsoon Season across the El Paso Forecast Area

A transition to monsoon flow began around June 20-24 this year with winds shifting to the south and east and bringing in higher humidity. This is about 10-14 days earlier than normal [see fig 1]. Widespread thunderstorms over northern Mexico and southern New Mexico also began around this same time.

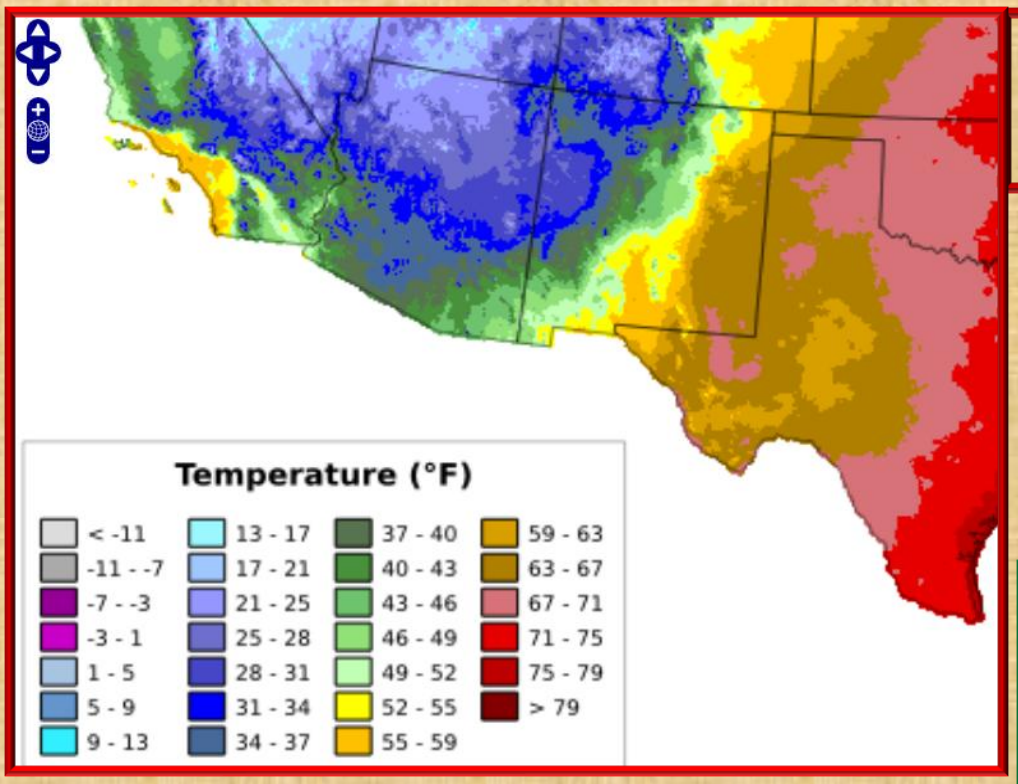
Monsoon 2025 is off to a much-needed wet start, with the 23rd-27th period already contributing about one-quarter to one-half of their average monsoon rainfall total. This likely ends most of the wildfire season, and should begin improving the extreme drought conditions that have developed this year.

July continued the productive monsoon rain that started in late June. Most areas east of the Continental Divide saw well above normal rainfall, while areas to the west remained dry and below normal. The dewpoint temperatures and upper air patterns remained in a typical monsoon pattern. There were signs at the end of the month of the monsoon high pressure center to move over New Mexico for a stretch of drier, quieter weather leading into the beginning of August. See figures 2 and 4.

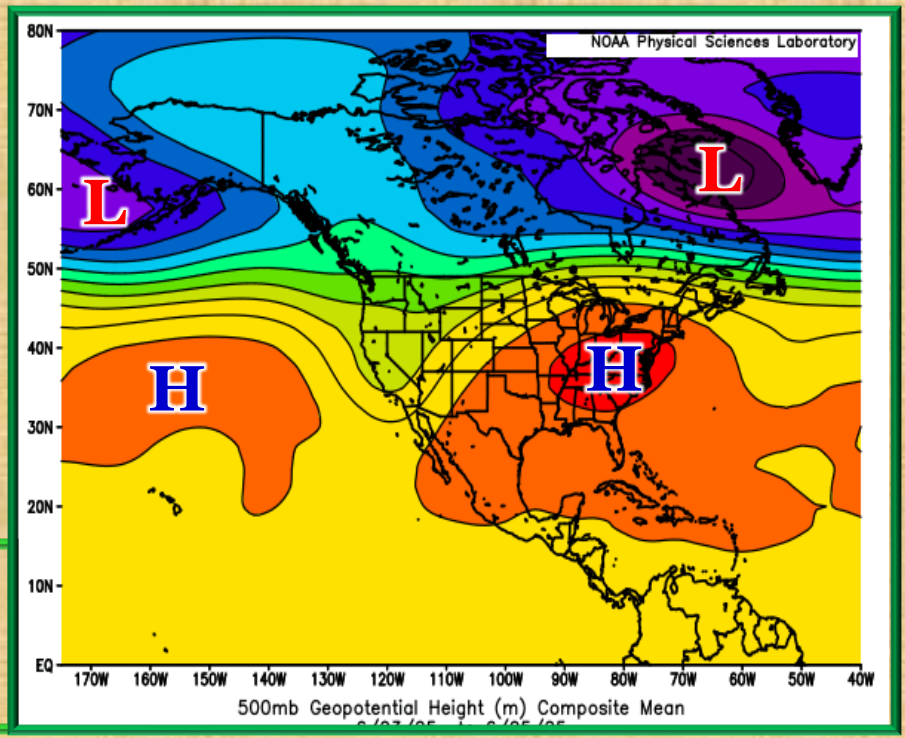
Rainfall Totals and the Percent of Annual Precipitation Falling During the Monsoon Season (Jun15-Sep 30)



Tracking the 2025 Monsoon Season across the El Paso Forecast Area. Fig 1

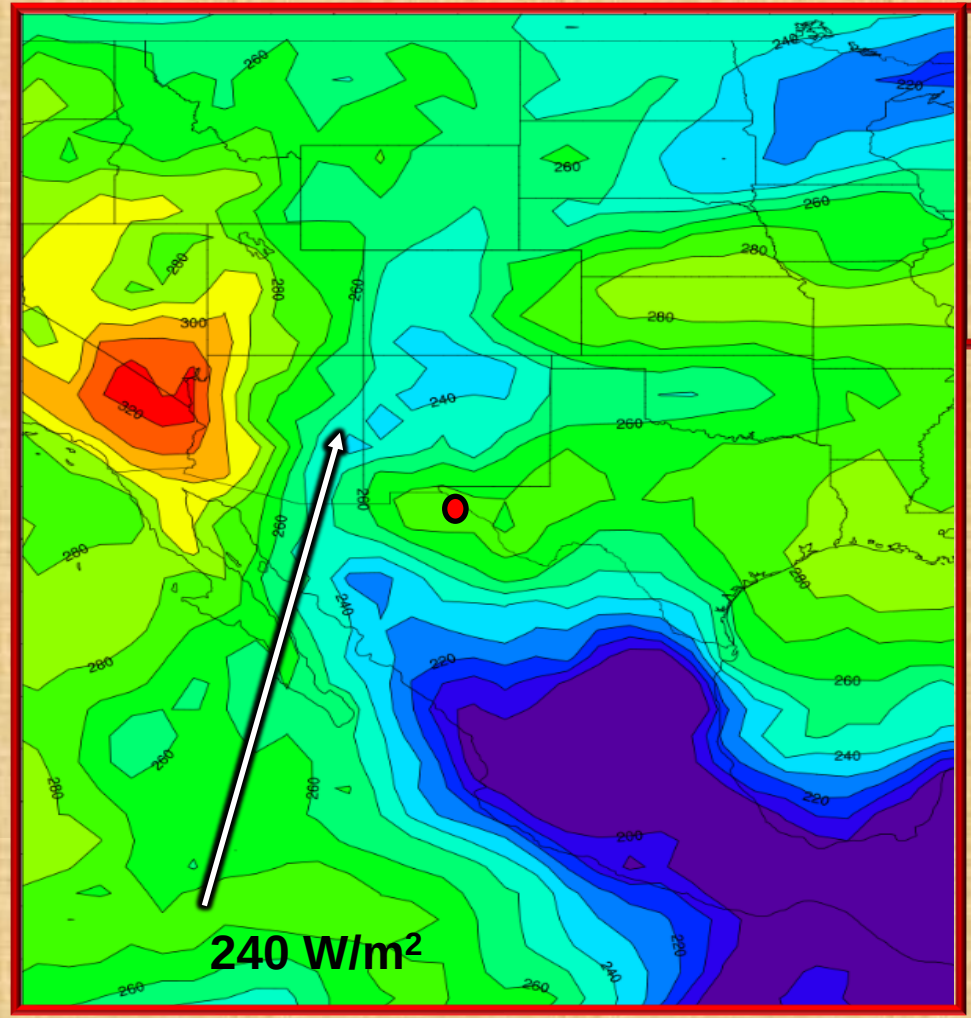


June 24 – Dewpoints in the 50s reach the Borderland and remain in place for the season.

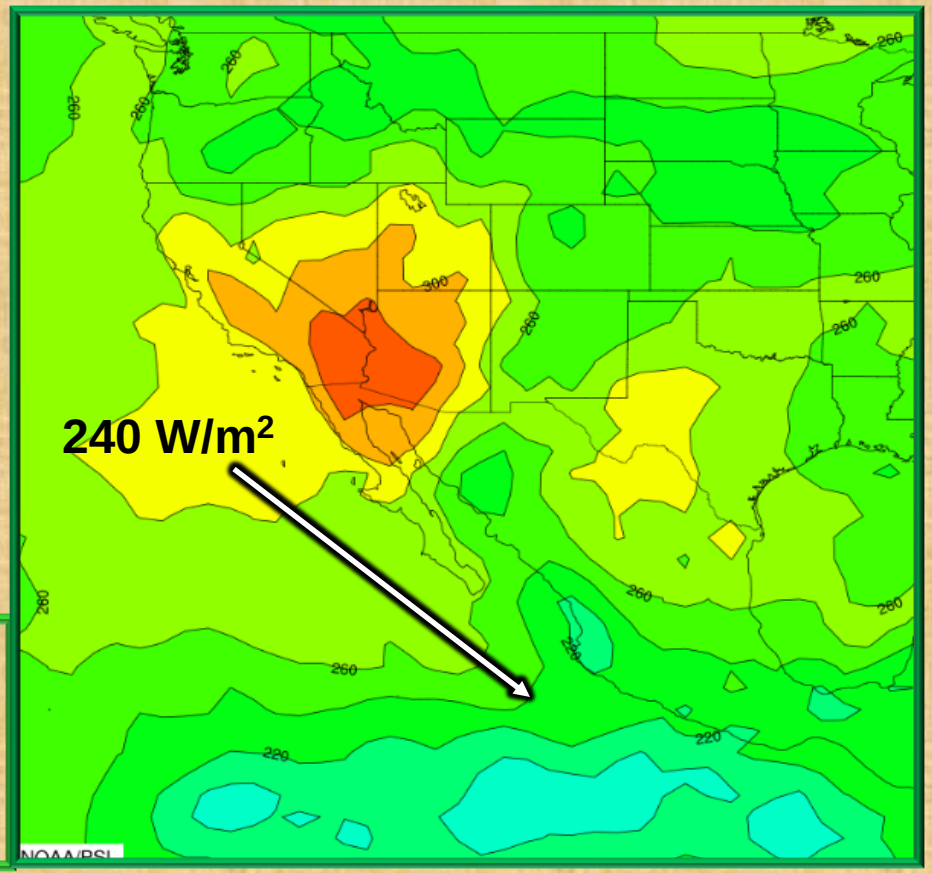


By June 25, 500mb (18,000 ft) sub-tropical high reaches the Desert Southwest as the polar jet stream migrates northward.

Tracking the 2025 Monsoon Season across the El Paso Forecast Area. Fig. 2

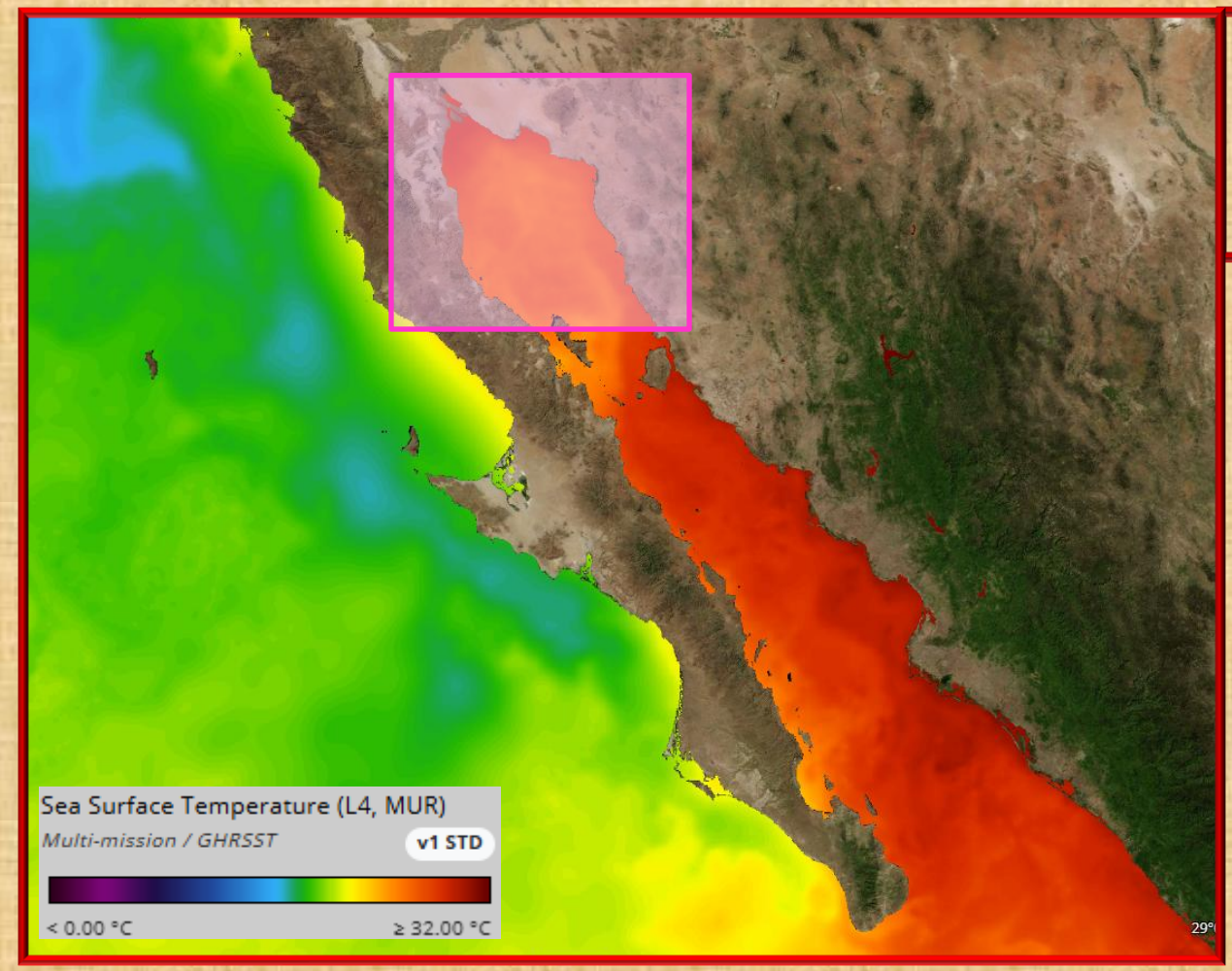


June 20-24 - Outgoing Longwave Radiation (OLR) diminishes to less than 240 W/m^2 in the area though over much of New Mexico. Thick clouds and anvil tops from thunderstorms diminish the OLR values, often indicative of the monsoon moisture and thunderstorms moving into the area. (Pentad data Jun 20-25)



Jul 29-Aug 4 – Outgoing Longwave Radiation increases some to 260-280 W/m2. This denotes slight decrease in overall thunderstorm coverage from beginning of month as we see a stretch of dry, non-active weather starting August off.

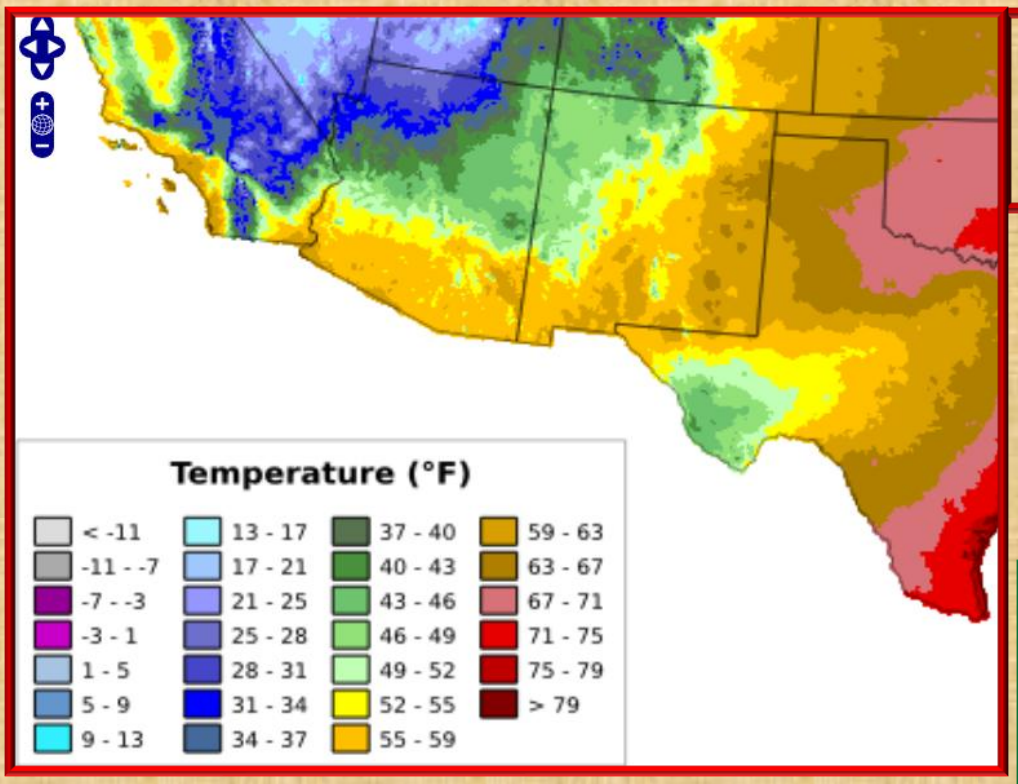
Tracking the 2025 Monsoon Season across the El Paso Forecast Area. Fig. 3



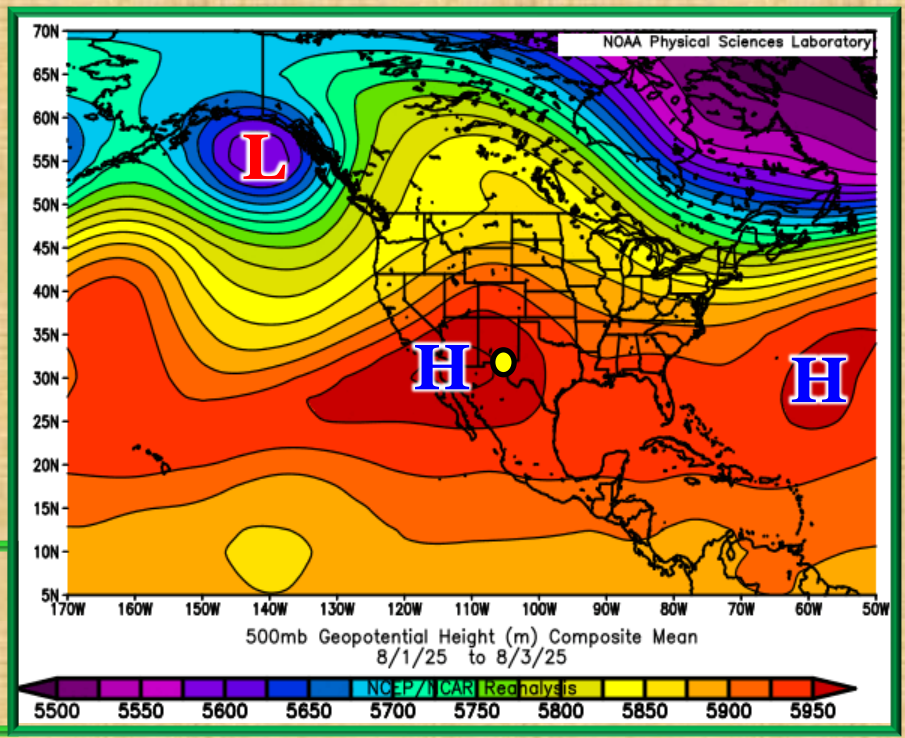
June 19 – Sea surface temperatures in the northern Gulf of California reach 26°C deg (79°F)

Studies have shown that once northern Gulf of California sea surface temperatures reach 26°C, that monsoon rains will begin within about a week. Studies have also shown that when the sea surface temperature reaches 29°C, New Mexico/Arizona will begin receiving the bulk of their rainfall (around 65-70%). This date normally occurs during the last half of July.

As we near the end of the 2025 Monsoon Season. Fig 4



Aug 1– Dewpoints remain in the 50s, indicating the monsoon season is still in full swing.



At the beginning of August, the 500mb (18,000 ft) upper flow is still well in the Monsoon pattern.

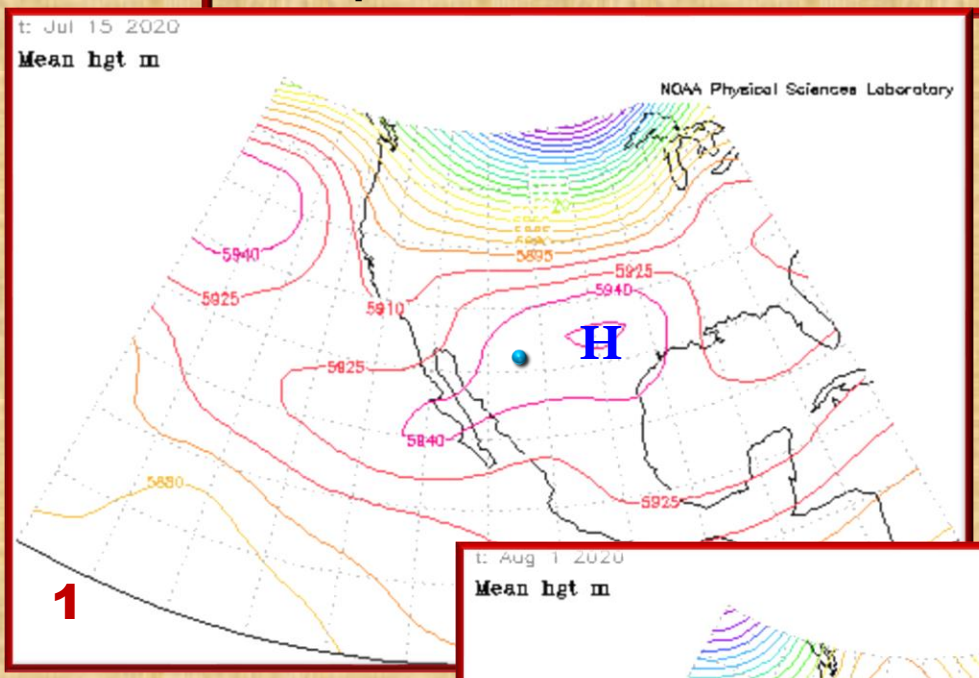
Fig. 6

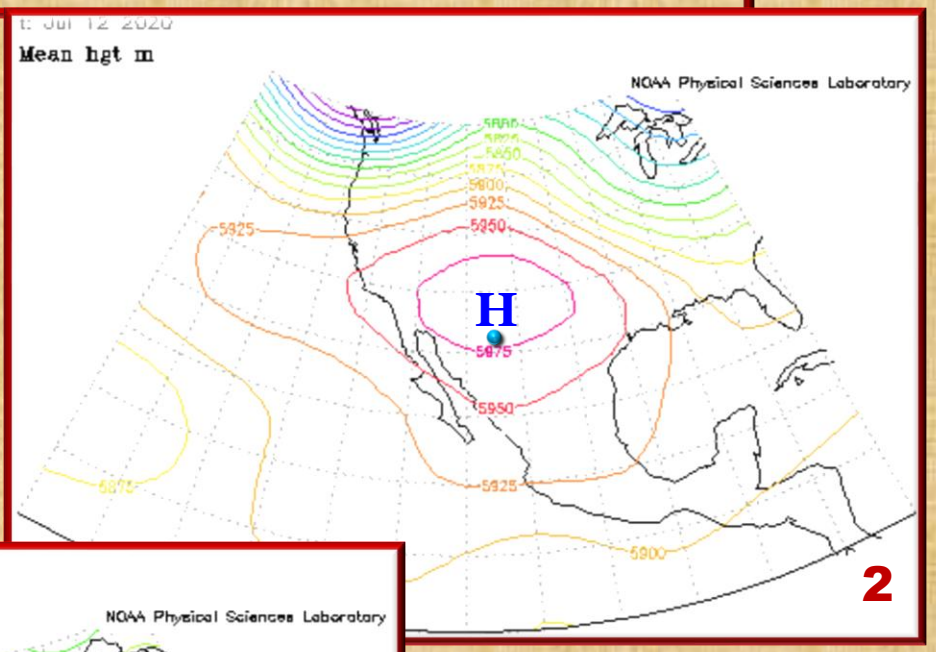
Percent of monsoon rainfall after 29C							
Year	29C Date	ELP	DMN	CLD	TCS	HIL	BKN
2024	Jul 17	41	56	75	33	59	73
2023	Jul 17	89	100	83	97	100	81
2022	Jun 29	85	82	85	67	74	80
2021	Jul 16	51	75	68	60	63	71
2020	Jul 22	88	65	67	98	89	86
2019	Aug 8	83	91	62	67	71	34
2018	Jul 21	59	46	74	80	62	61
2017	Jul 23	58	67	66	88	61	64
2016	Aug 3	93	92	71	79	85	73
2015	Jul 27	63	43	56	53	61	57
2014	Jul 23	92	82	77	91	89	MSG
2013	Aug 8	61	68	61	88	75	MSG
2012	Jul 24	53	64	73	42	52	80
2011	Jul 29	37	90	36	86	62	68
2010	Jul 29	47	31	43	33	47	32
2009	Jul 24	54	61	47	56	65	56
2008	Jul 27	48	39	54	46	58	58
2007	Jul 26	65	62	60	91	72	100
2006	Jul 29	84	81	73	86	85	MSG
2005	Jul 30	95	79	72	83	87	80
AVE	Jul 25	68	68	64	72	69	67

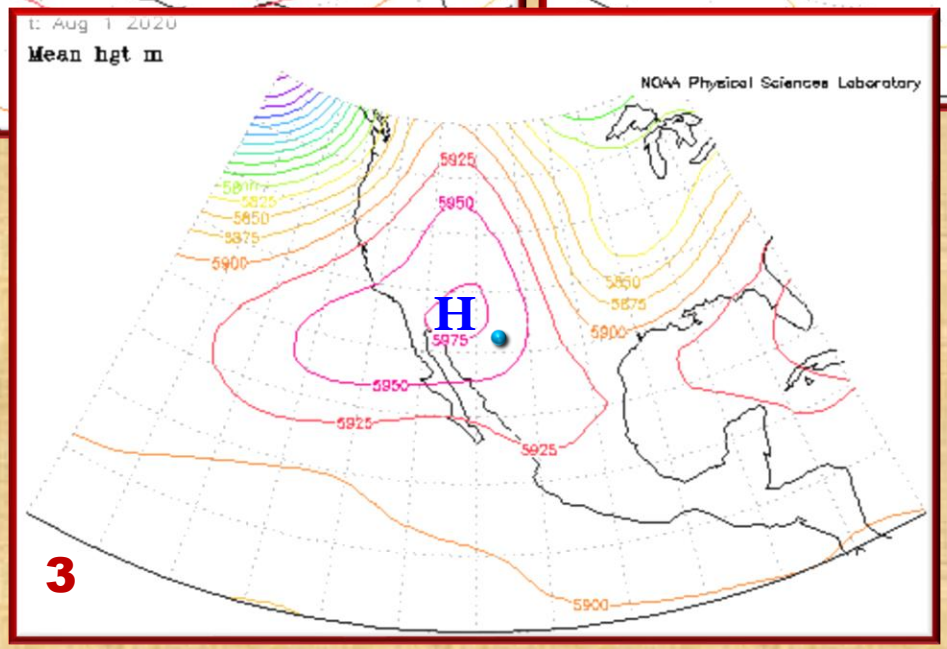
ELP=El Paso Intl Airport
DMN=Deming Airport
CLD=Cloudcroft COOP
TCS=T or C Airport
HIL=Hillsboro COOP
BKN=Buckhorn COOP

The northern Gulf of California sea surface temperature this year reached 29C on July 24. Research has shown that, on average, around 65-75% of the total Monsoon rainfall will fall after that date.

Position of NAM upper high determines our rainfall potential. Blue dot represents El Paso.



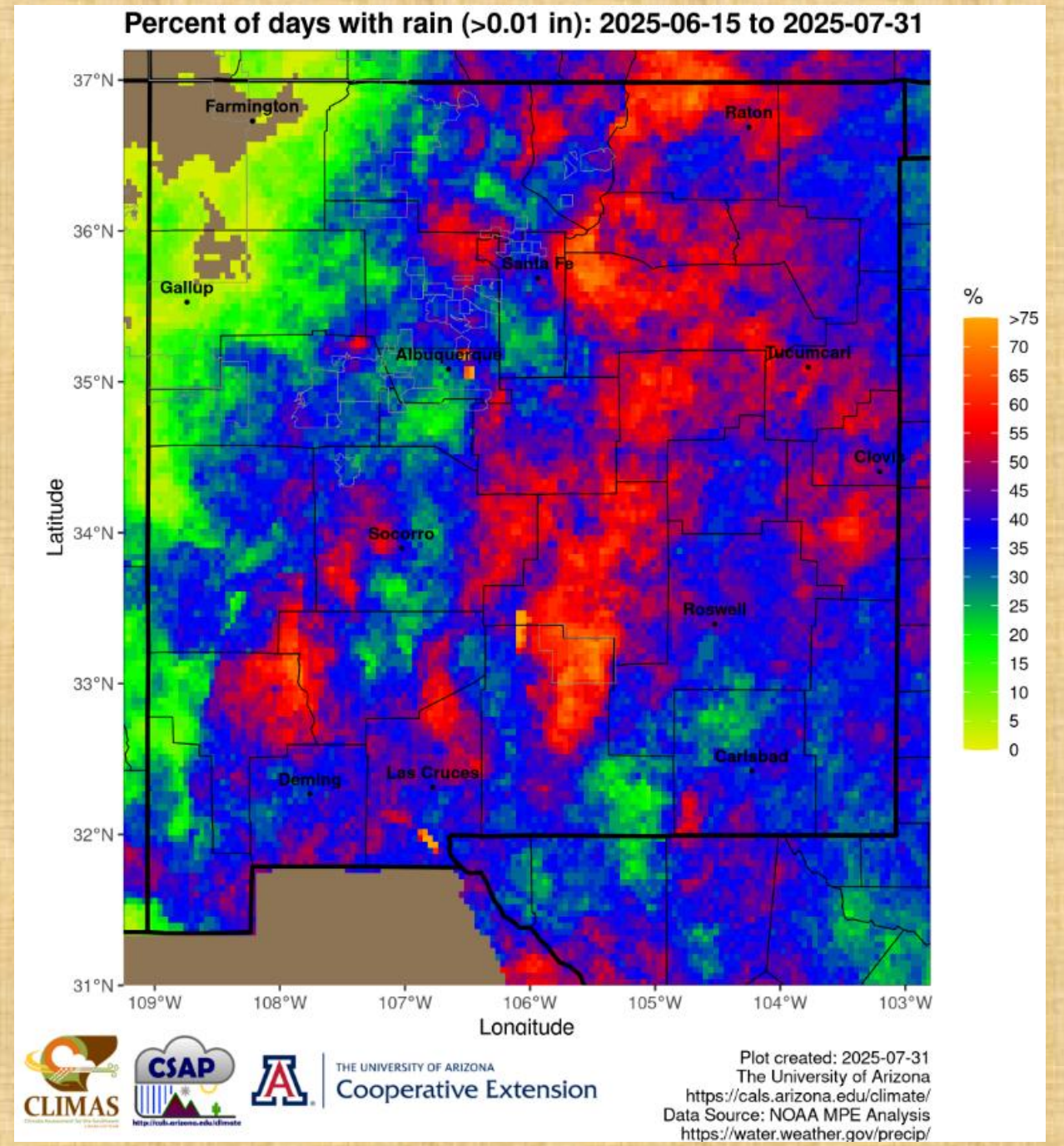




No. 1 High center east of New Mexico. Often brings ample tropical moisture and widespread heavy rain and flooding to the area under southerly flow.

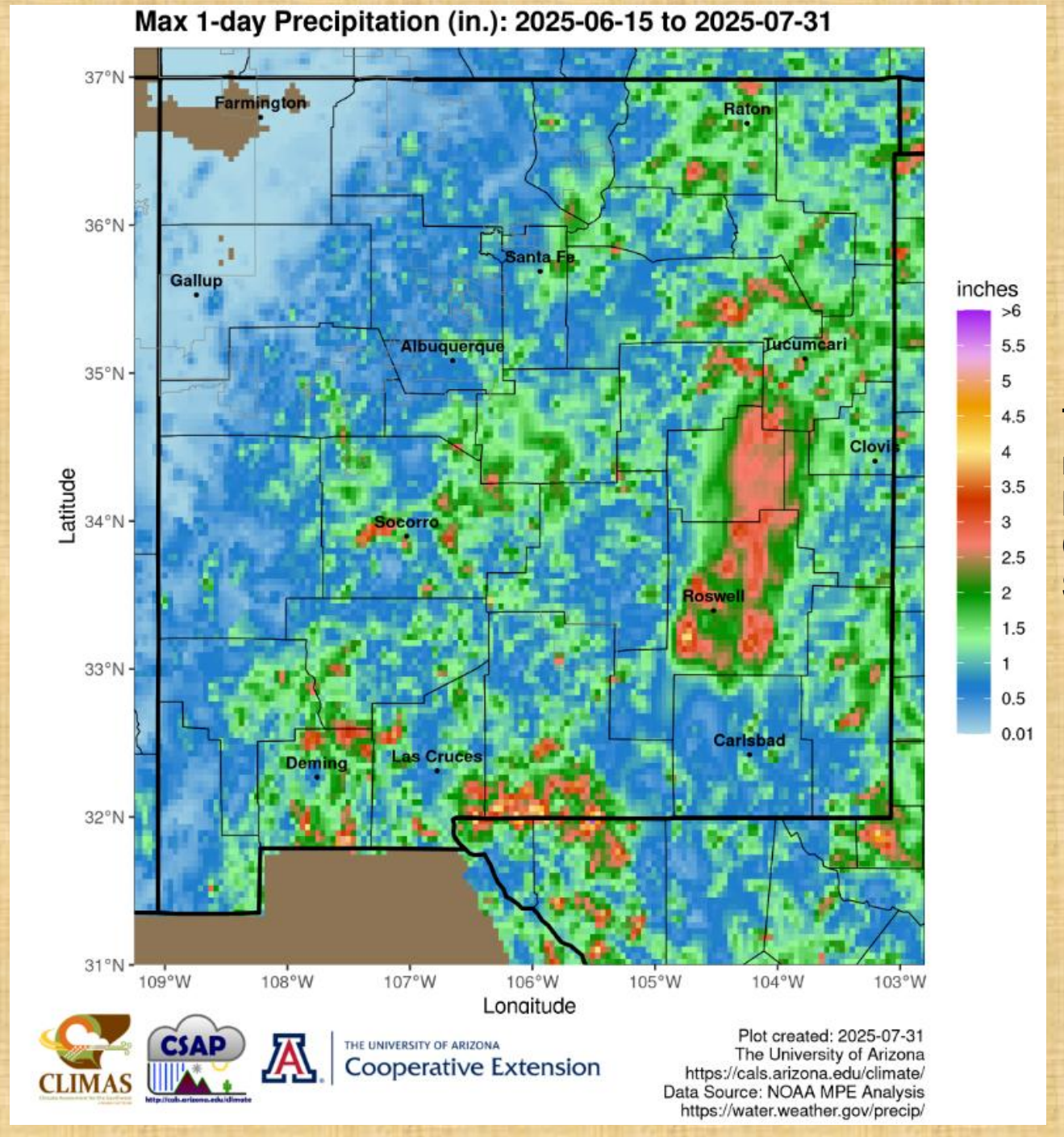
No. 2 High center over New Mexico. Often brings very hot temperatures and little if any rain (usually limited to the mountains).

No. 3 High center north and west of New Mexico. Often brings scattered storms with hit and miss heavy rains and large hail and strong wind potential.



CLIMAS — THE UNIVERSITY OF ARIZONA

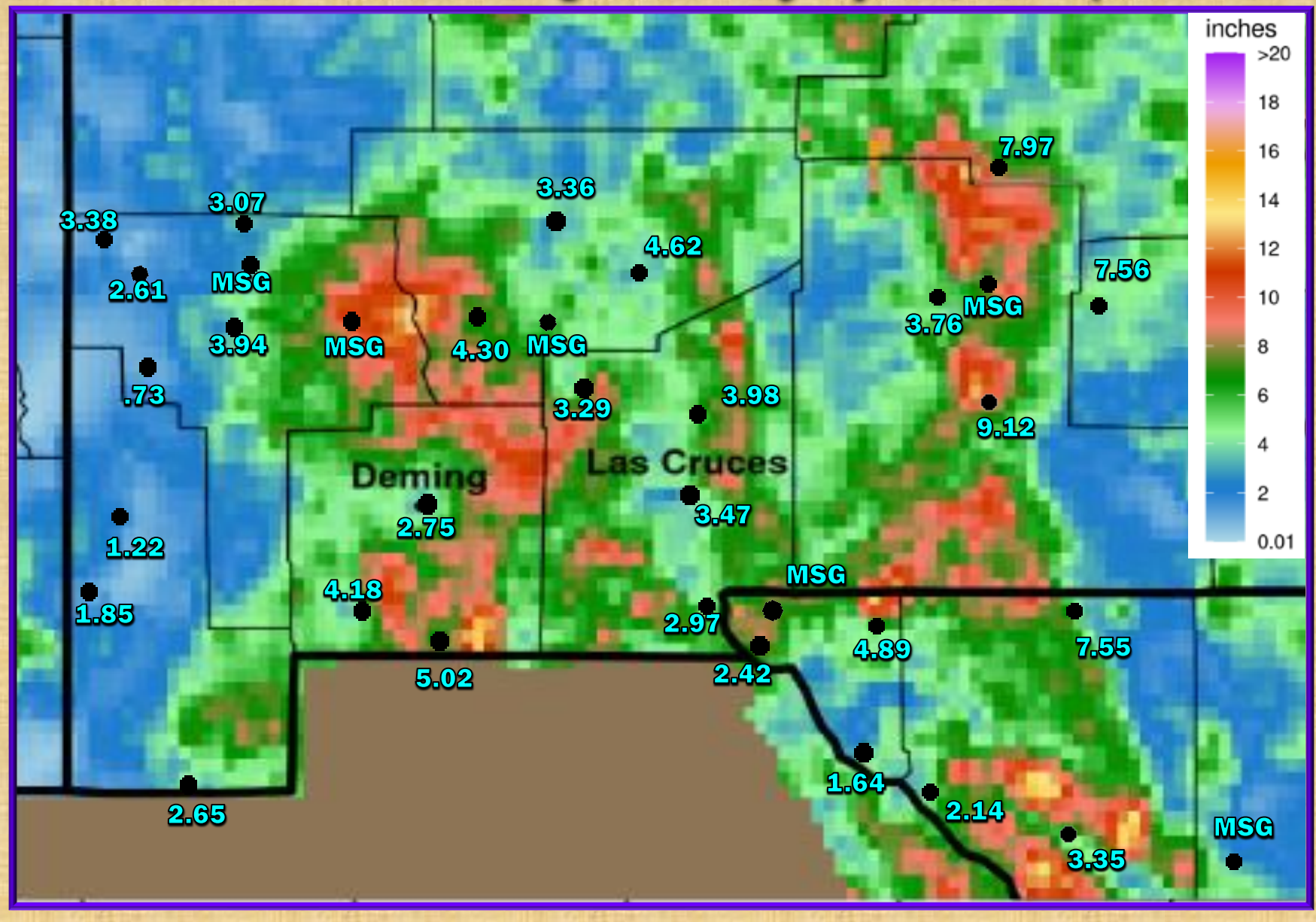
This map shows the percentage of measurable rainfall days so far during the Monsoon season. Courtesy of Climate Assessment for the Southwest.



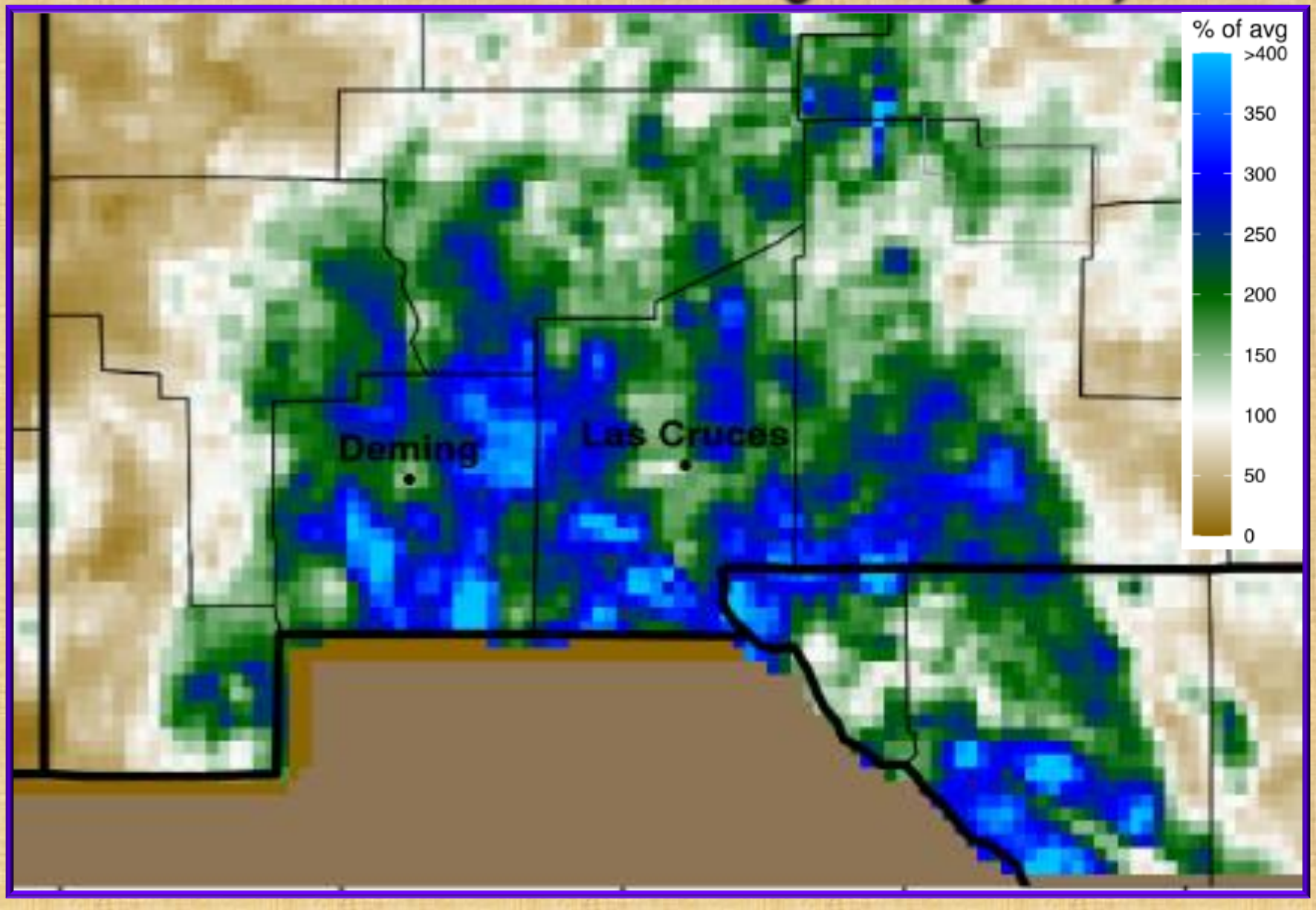
CLIMAS THE UNIVERSITY OF ARIZONA

This map shows greatest one day rainfall total so far during the Monsoon season. Courtesy of Climate Assessment for the Southwest.

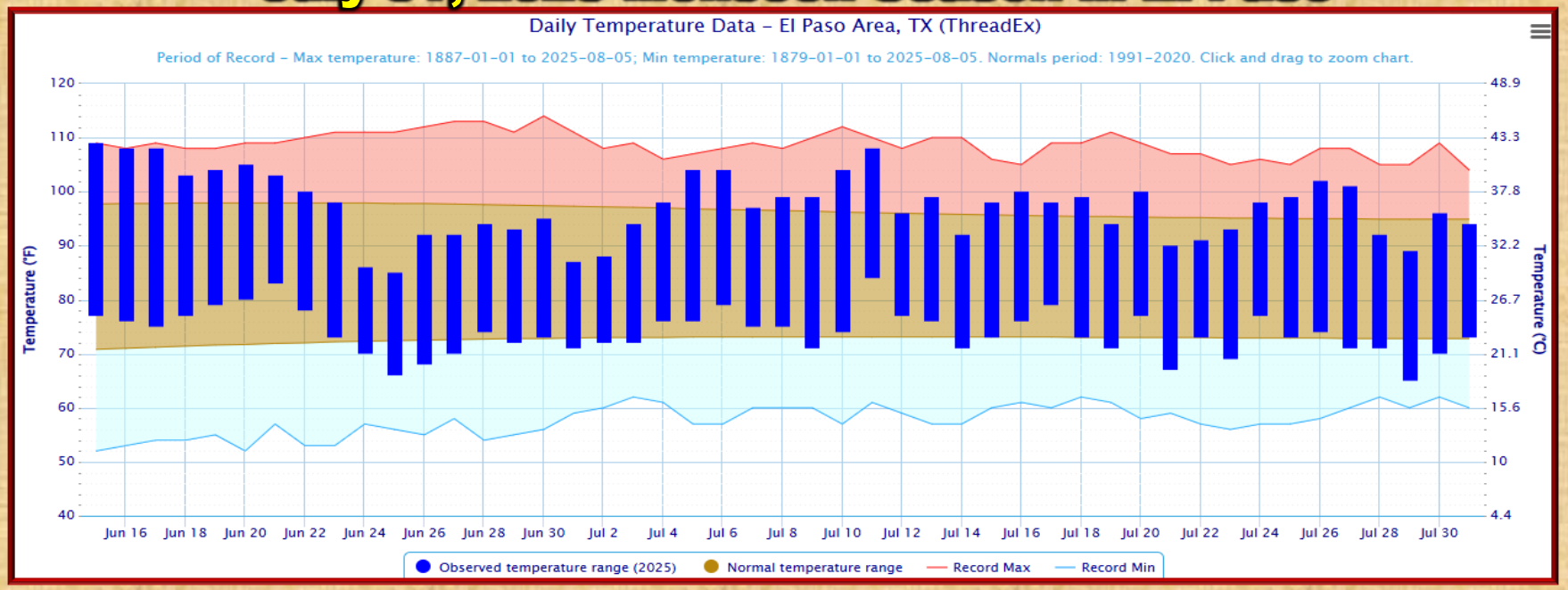
Radar rainfall estimate for the Monsoon Season 2025 (June 1 – July 31, 2025)

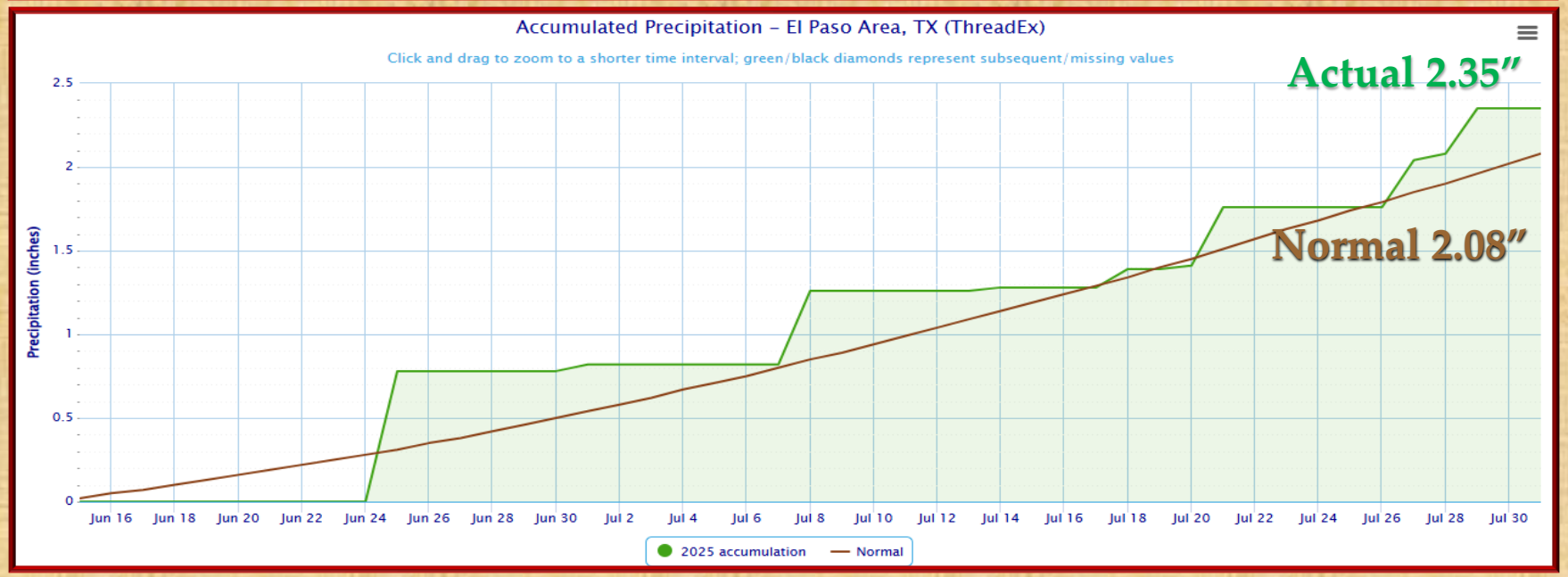


Radar rainfall estimate percent of normal for Monsoon season 2024 (June 1-Jul 31)



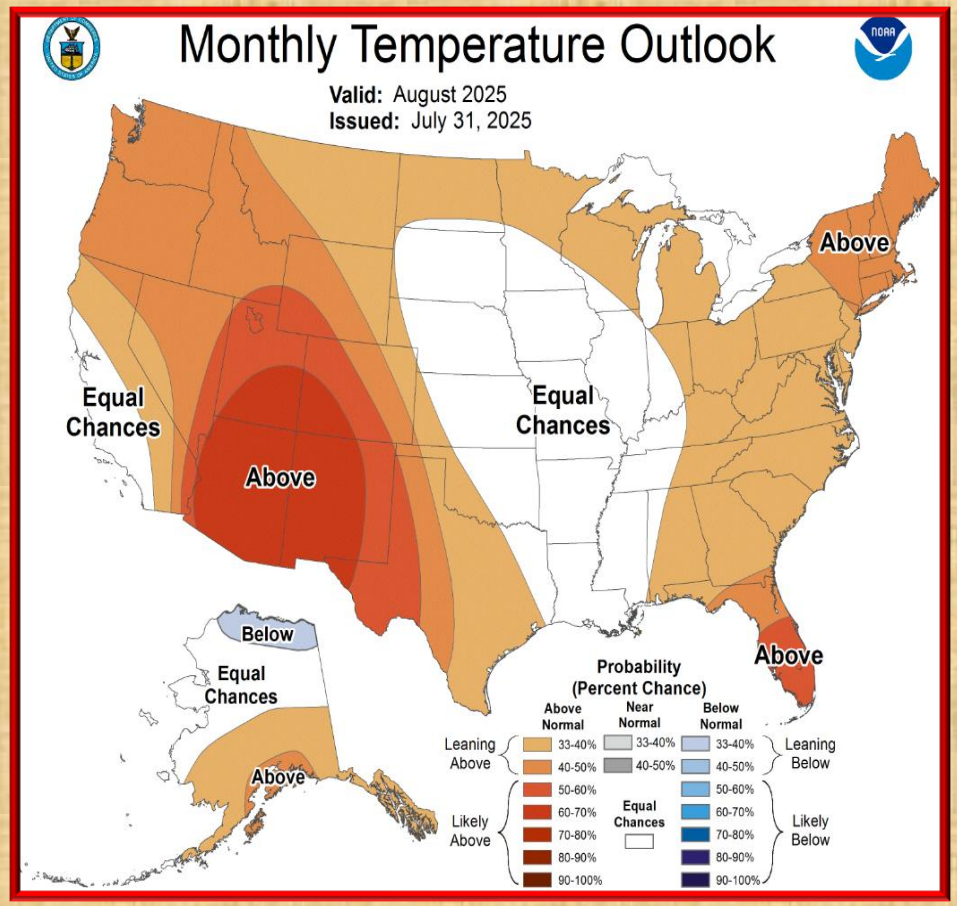
Temperature and precipitation data through July 31, 2025 Monsoon Season in El Paso



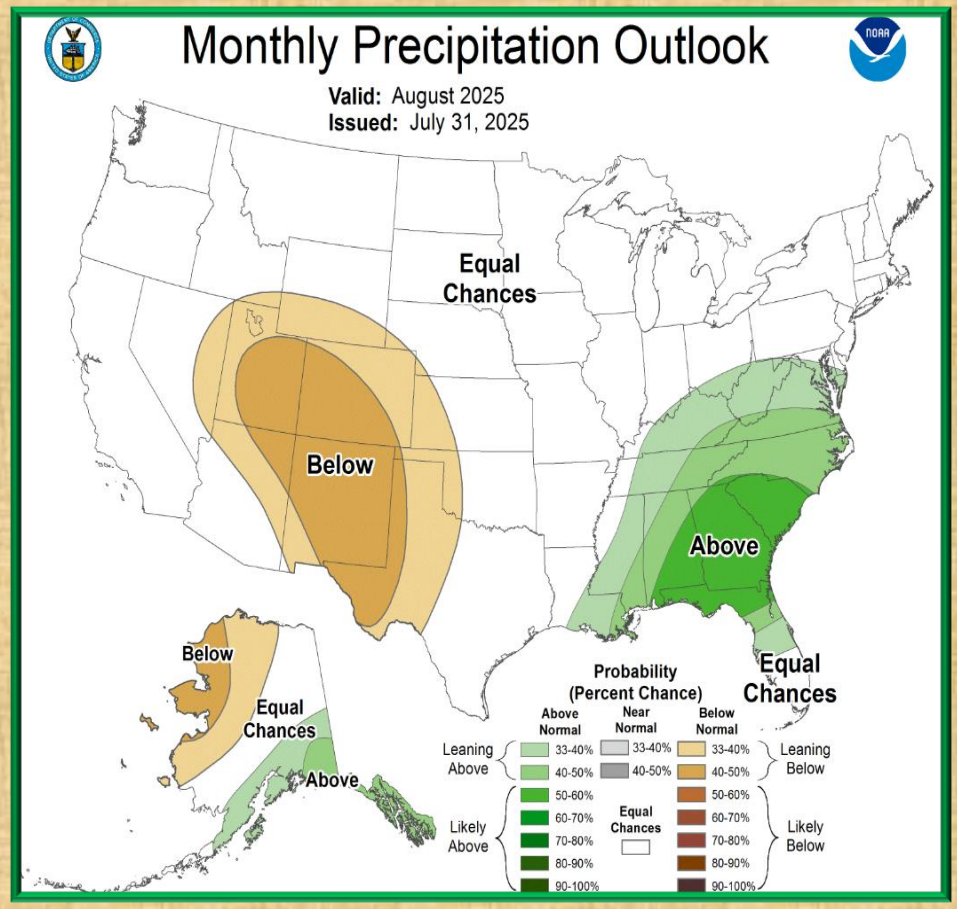


Temperature and precipitation outlook For August 2025

Temperature

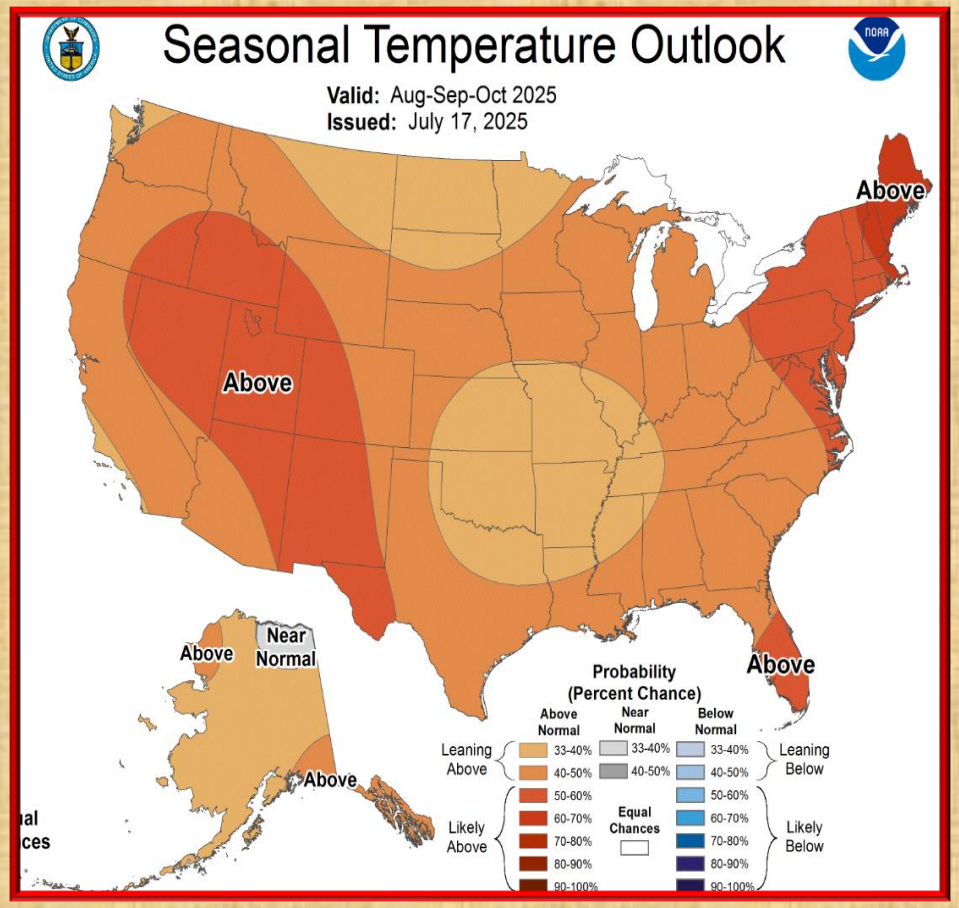


Precipitation

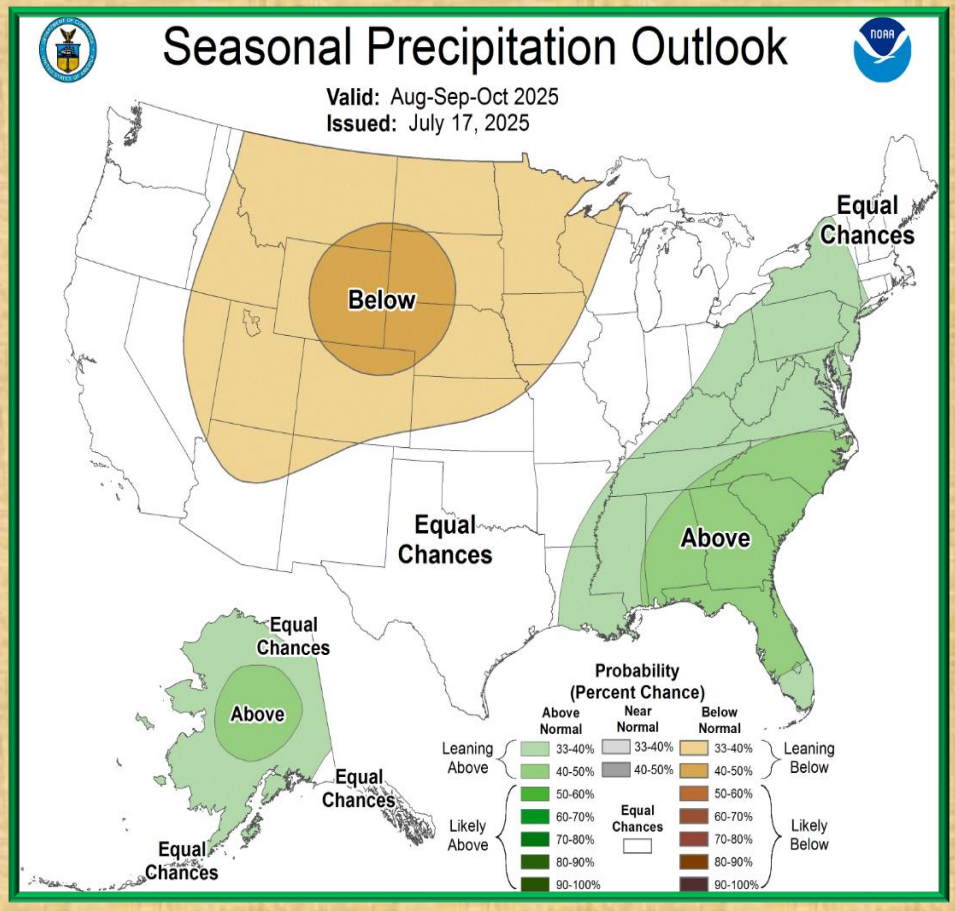


Temperature and precipitation outlook for Aug-Oct 2025

Temperature

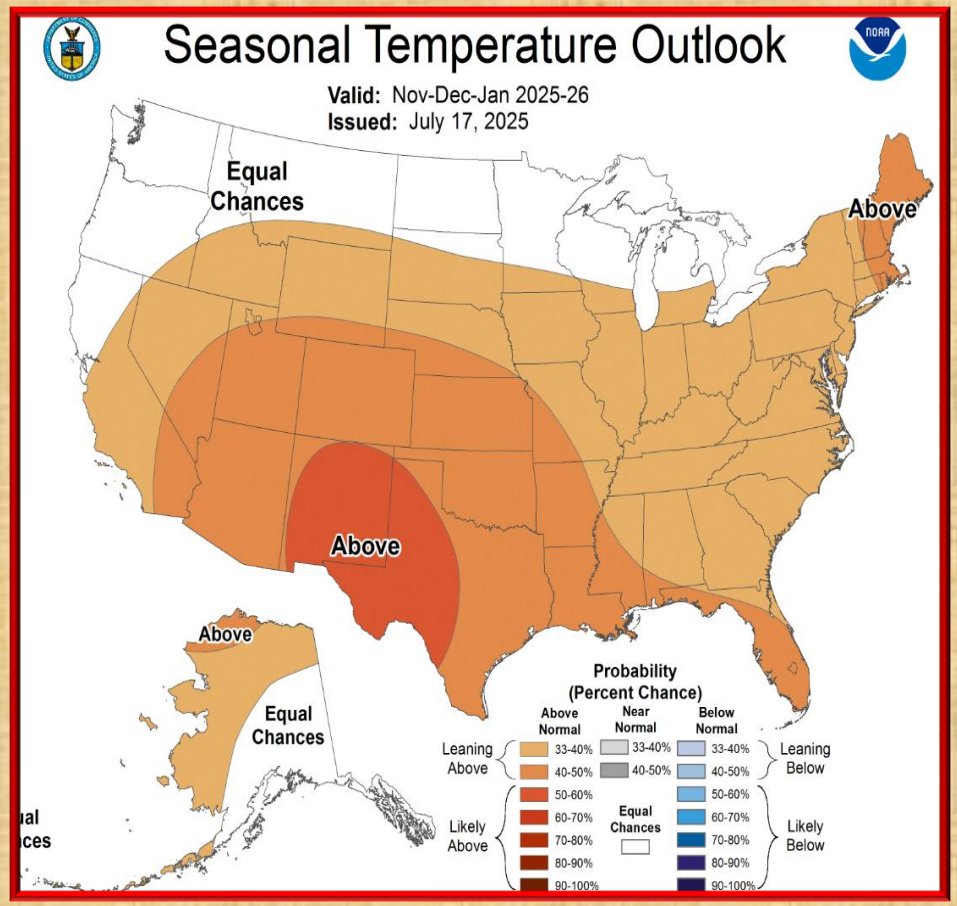


Precipitation

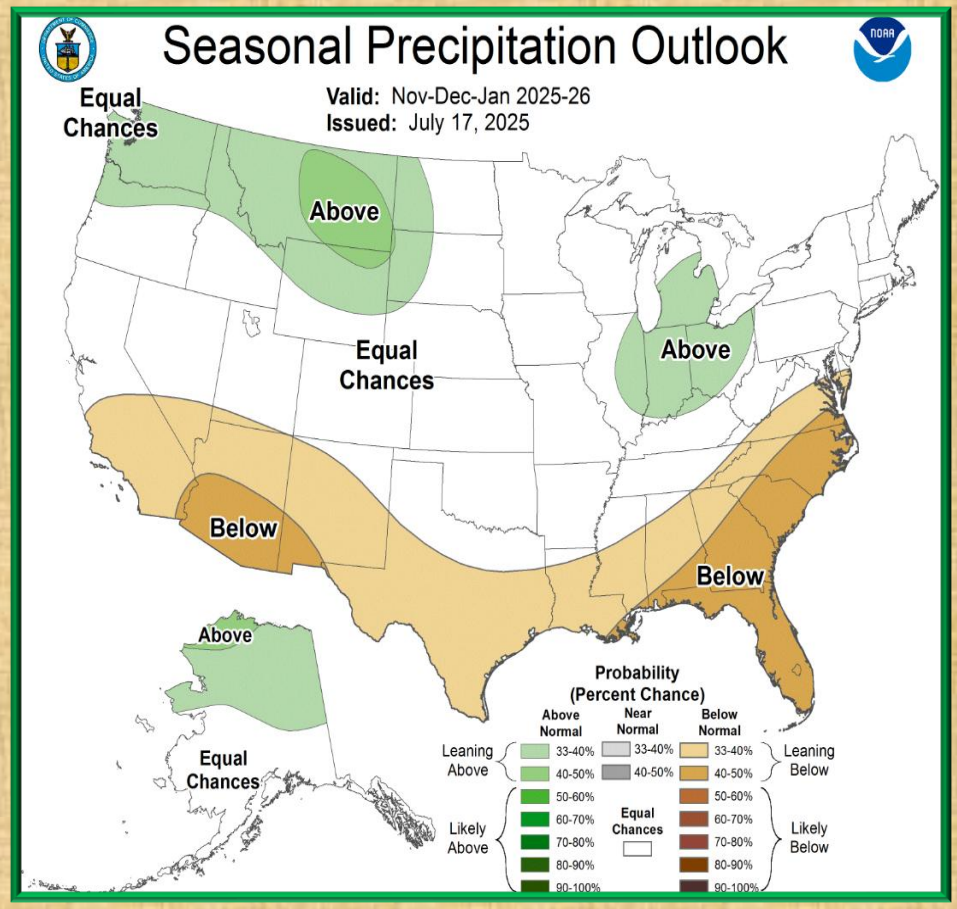


Temperature and precipitation outlook for Nov-Jan 2026

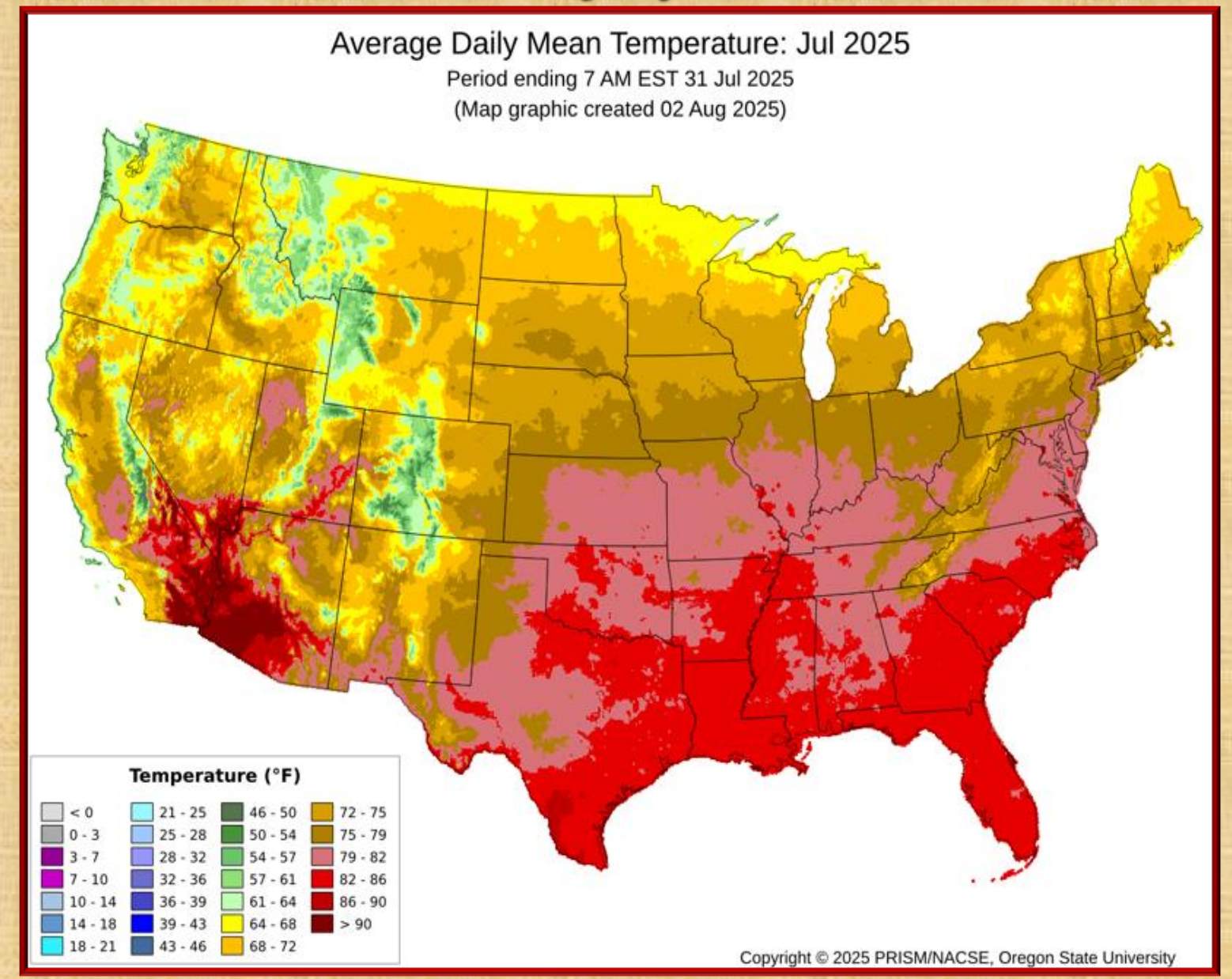
Temperature



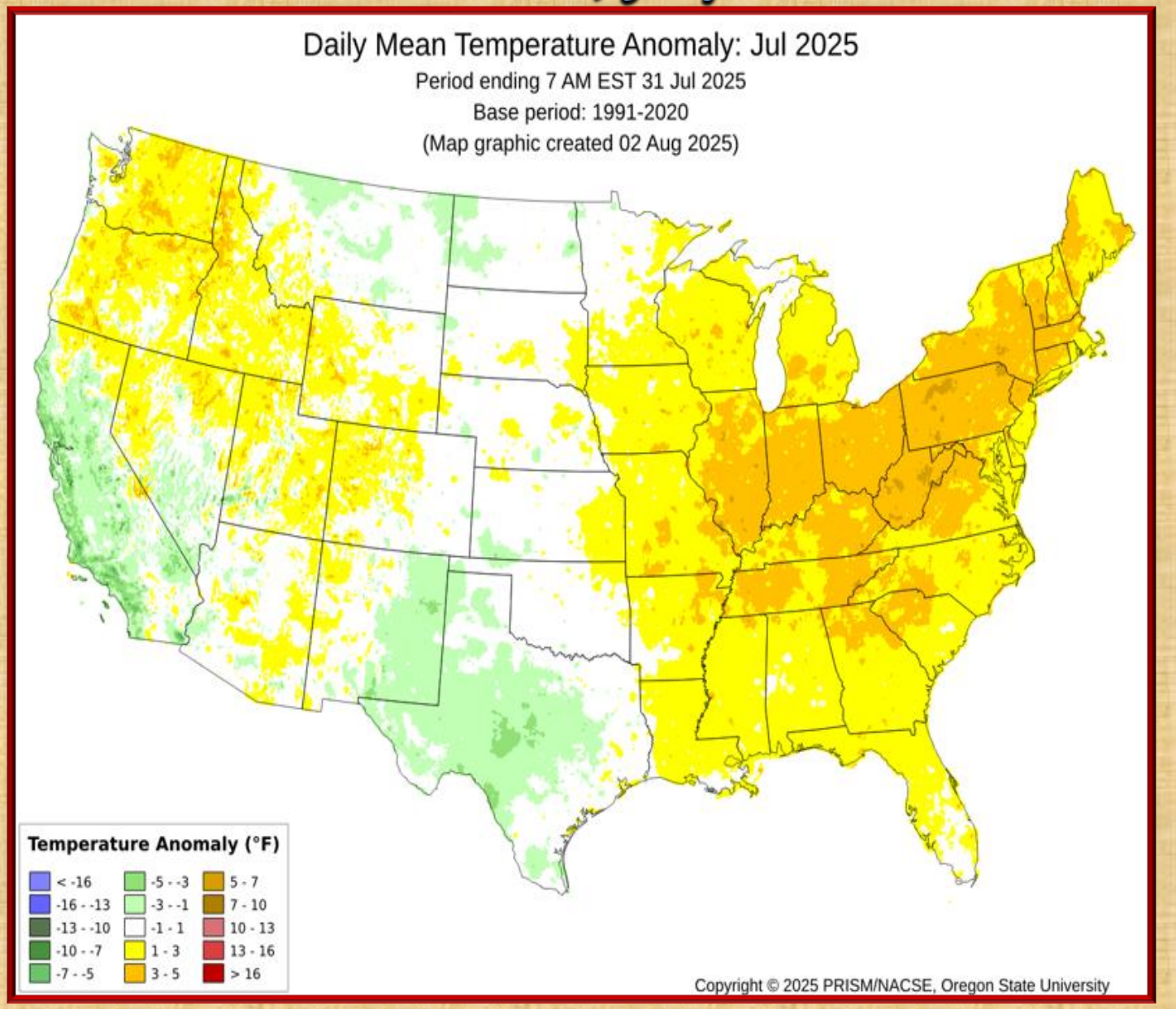
Precipitation



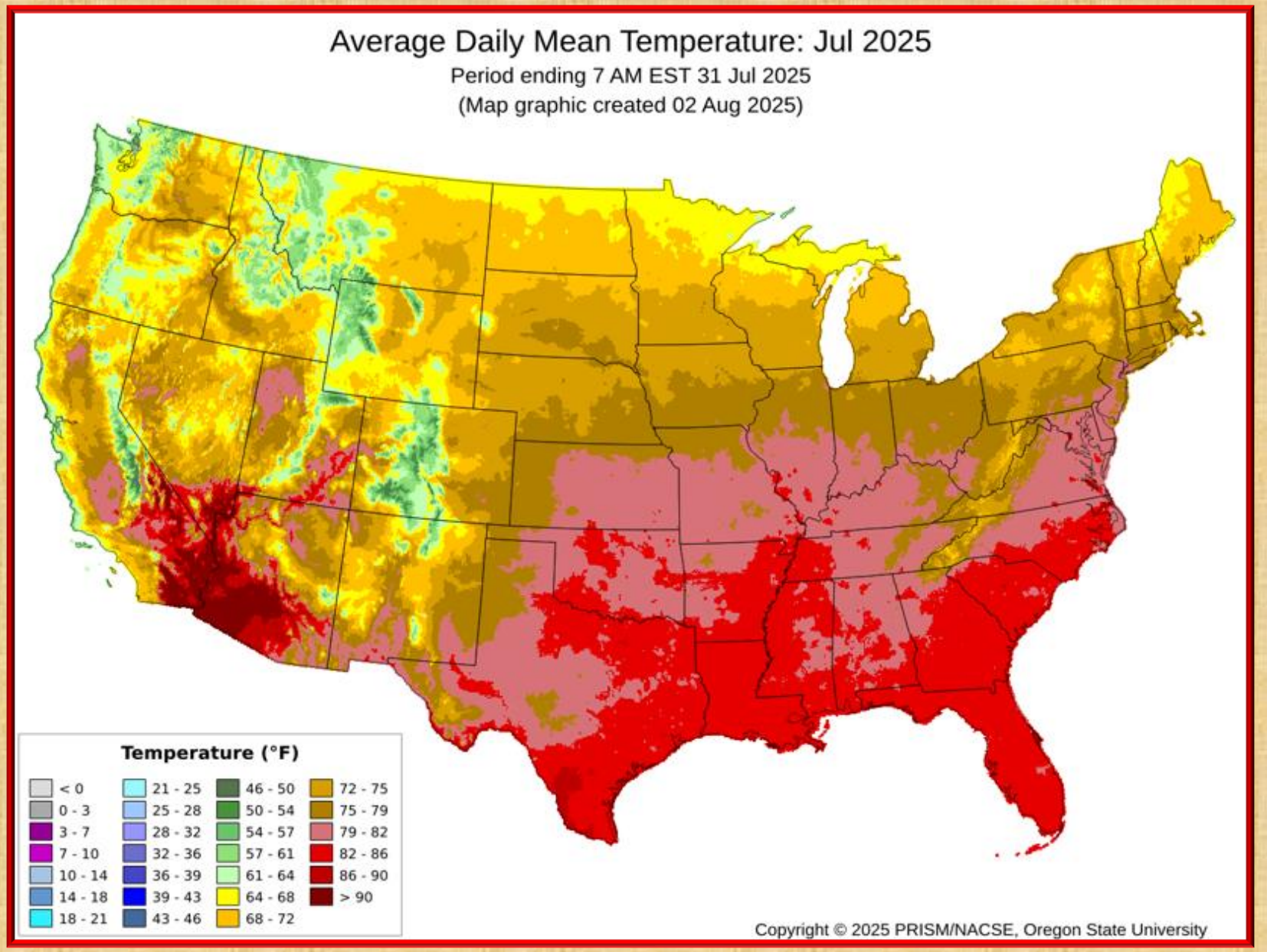
Average Daily Mean Temperature for July 2025



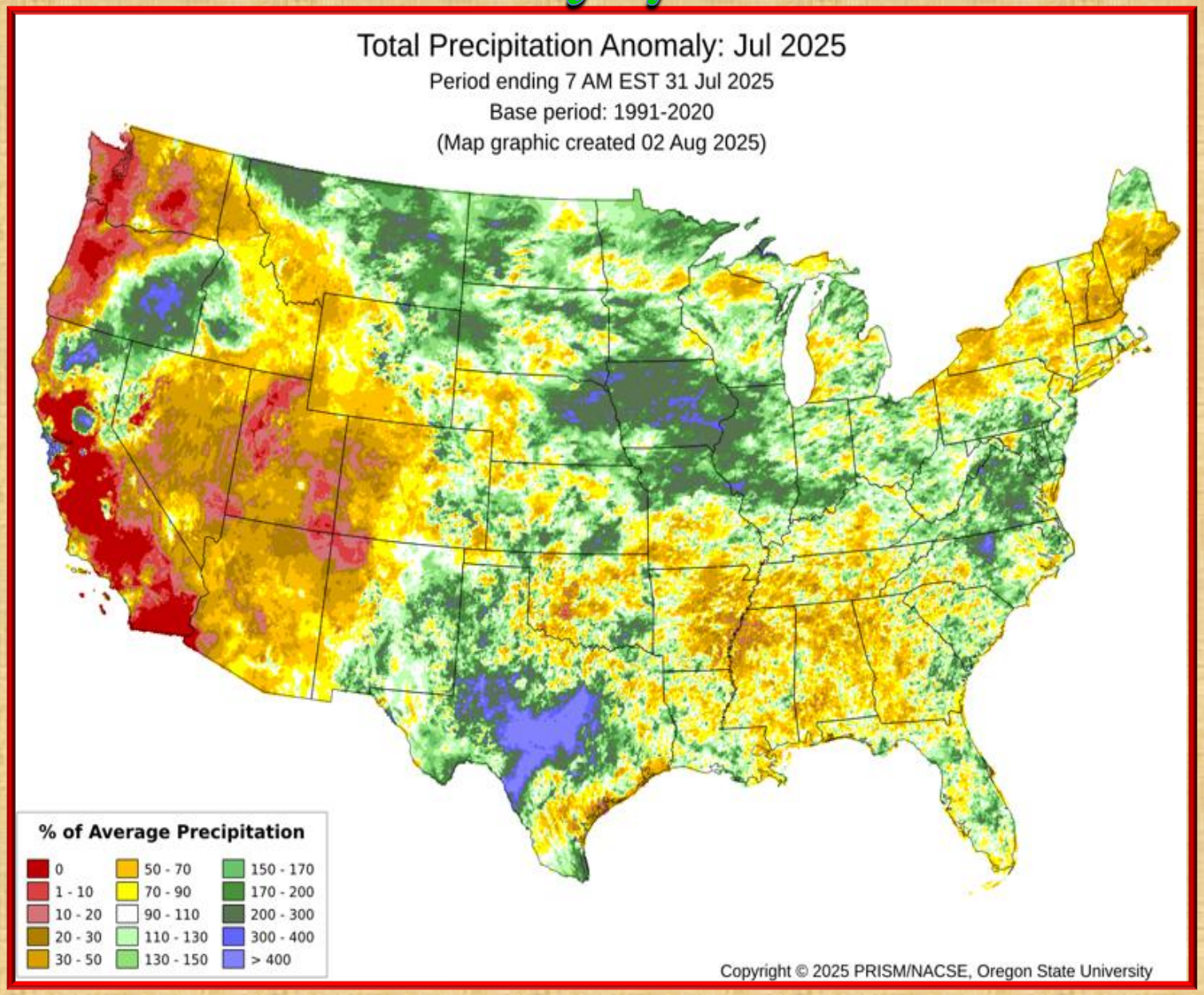
Daily Mean Temperature Departure from Normal, July 2025



Total Precipitation for July 2025



Percent of Normal Precipitation for July 2025

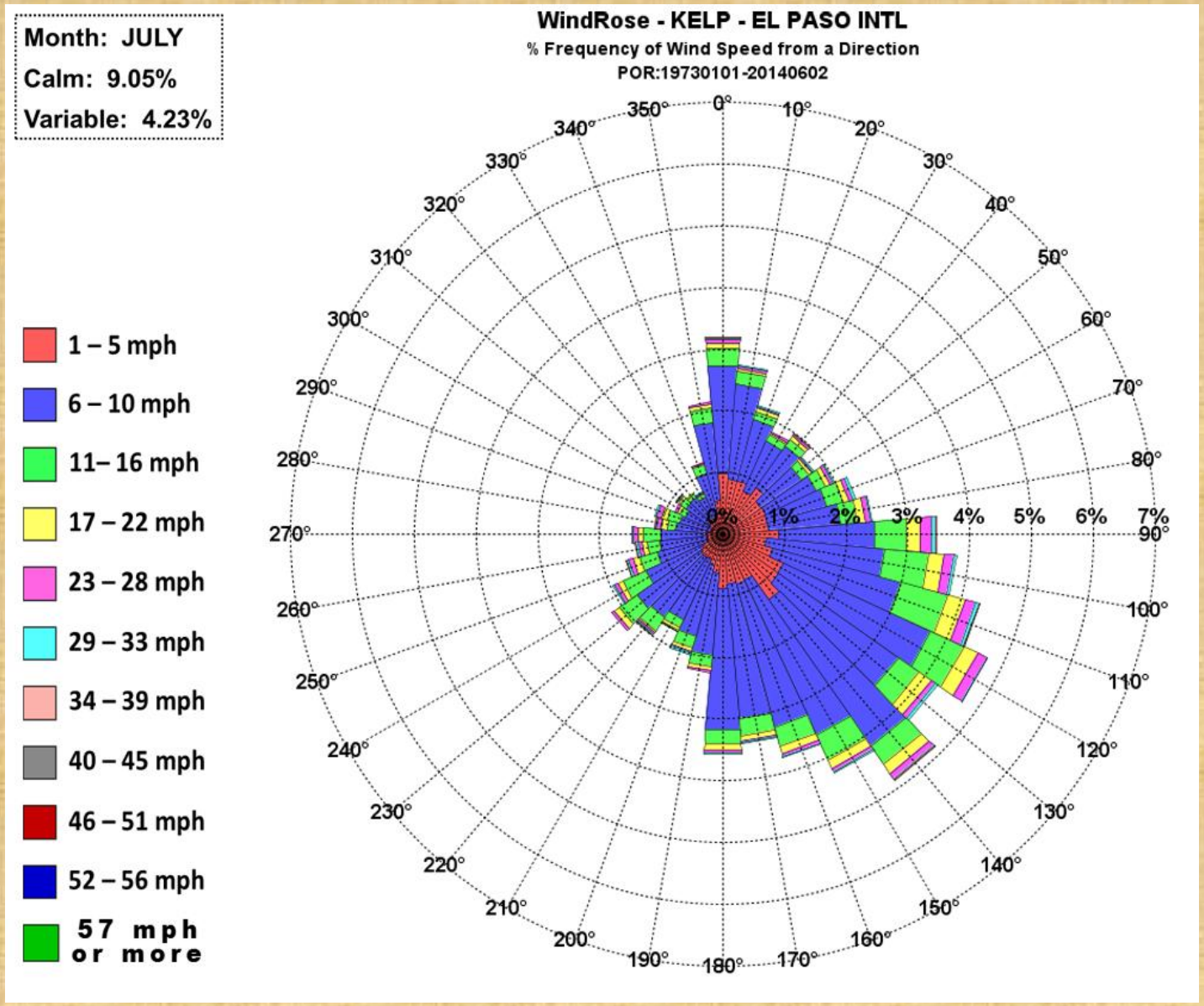


Selected Weather Reports July 2025

Date/Time	Location (County)	Event
JULY 29 700 AM	HILLSBORO 11SW-SIERRA	2.27” 24 HOUR TOTAL RAIN
JULY 29 905 AM	JORNADA RANGE-DONA ANA	1.48” 24 HOUR TOTAL RAIN
JULY 29 700 AM	LAS CRUCES 1NW-DONA ANA	1.48” 24 HOUR TOTAL RAIN
JULY 29 700 AM	SANTA TERESA 1SW-DONA ANA	1.27” 24 HOUR TOTAL RAIN
JULY 29 800 AM	DEMING 16SE-LUNA	1.07” 24 HOUR TOTAL RAIN
JULY 29 700 AM	SUNLAND PARK 7NW-DONA ANA	0.99” 24 HOUR TOTAL RAIN
JULY 29 955 AM	ALAMOGORDO LA MESA DR-OTERO	0.95” 24 HOUR TOTAL RAIN
JULY 29 700 AM	UTEP EHS-EL PASO	0.95” 24 HOUR TOTAL RAIN
JULY 29 800 AM	ELEPHANT BUTTE 5N-SIERRA	0.87” 24 HOUR TOTAL RAIN
JULY 29 600 AM	LA UNION-DONA ANA	0.78” 24 HOUR TOTAL RAIN
JULY 29 1000 AM	HIGH ROLLS-OTERO	0.76” 24 HOUR TOTAL RAIN
JULY 29 800 AM	T OR C 1E-SIERRA	0.57” 24 HOUR TOTAL RAIN

Special Features

www.weather.gov/epz/elpwindrosedata



Don't Forget-Current and past issues of our Weather Digest are available on our website at

www.weather.gov/epz/

Just click on "Weather Digest" icon, then choose which month's Digest to view. Also, though discontinued, don't forget to check out our back issues of Southwest Weather Bulletin.