



April 2022 Weather Digest

Ray Chiarello

April 2022 Weather Summary

April was being a very quiet month, with just the typical windy afternoons and occasional blowing dust. Stronger winds storms moved through on the 5th, 12th, and 22nd. Blowing dust accompanied these winds, mostly in the Deming area. Then April 26th happened! A supercell thunderstorm developed over northern Mexico and moved into southern Dona Ana and far west El Paso Counties, dropping large hail. Hail stones of one inch were common in this area, with a few stones reaching as large as two inches (see map below). Numerous damage reports to cars and roofs were received in this general area. This storm also produced the entire months' rainfall for the Borderland.

Not surprisingly with the dry weather, temperatures for April were around two to five degrees above normal. Precipitation was severely lacking. The great majority of the area was at 0 percent of normal for the month; the exception being where the two storms hit on the 26th—that being small slivers of southeast Luna, southern Dona Ana, and far western El Paso Counties.

April 2022 Weather Summary, cont'd

Looking ahead to May, we continue to warm as daylight gets longer. At El Paso the average high temperature on the 1st is 84 degrees, and warms to 94 degrees on the last day of the month. Daylight on May 1 is 13 hours, 25 minutes, increasing to 14 hours, 4 minutes of light on May 31. The monthly full moon falls on May 15, while the new moon occurs on May 30. May's full moon is special in several ways. First, it is the first supermoon of 2022, and secondly, it will be a total lunar eclipse. This will be visible across most of the contiguous US, assuming clouds don't block the view. The total eclipse portion will begin around 930 pm on the 15th in El Paso and last until 1053 pm. The partial eclipse outside of this will last from 827 pm on the 15th until 1155 pm.

Apr 12 McBride Fire Ruidoso



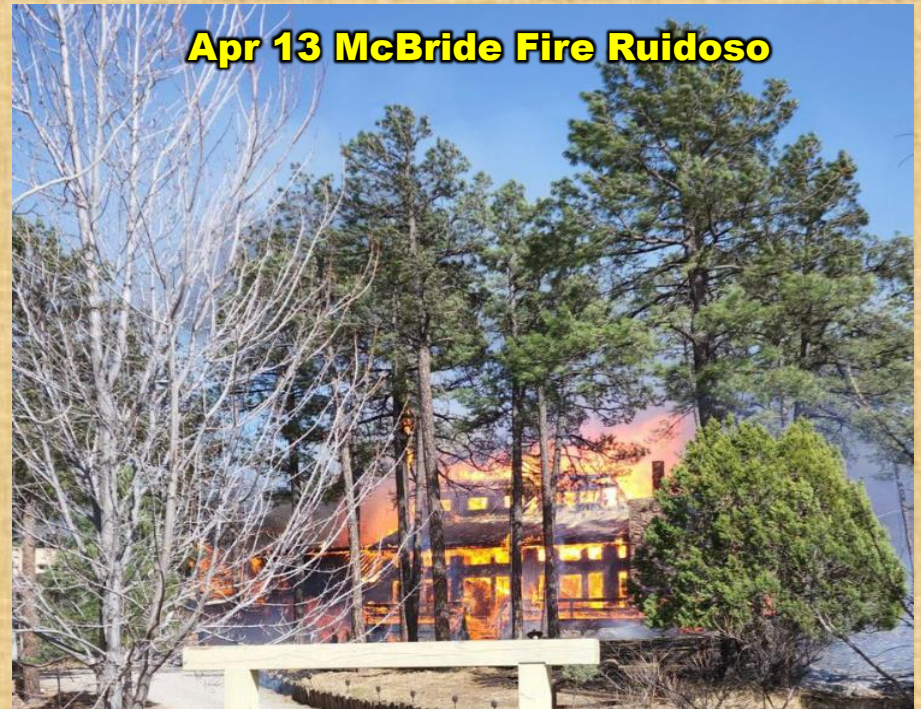
Apr 13 McBride Fire Ruidoso



Apr 13 McBride Fire Ruidoso



Apr 13 McBride Fire Ruidoso



April 12 Deming Dust



Apr 22 Blowing Dust Hwy 11 near Deming



April 24 Return of the Planets



April 26 Thunderstorm West El Paso



April 26 Lightning near El Paso



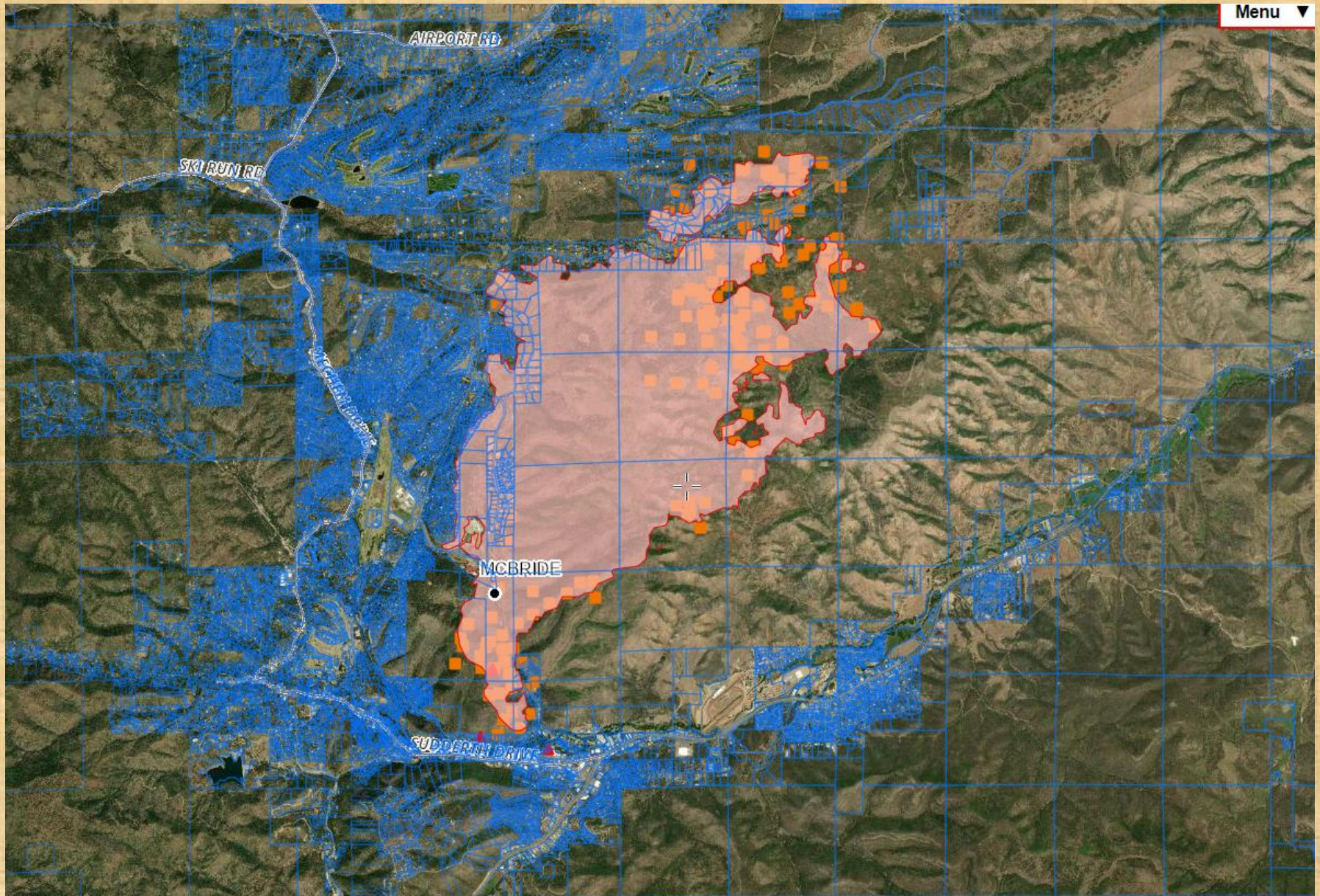
Apr 26 Hail near Santa Teresa



April 26 Hail West El Paso

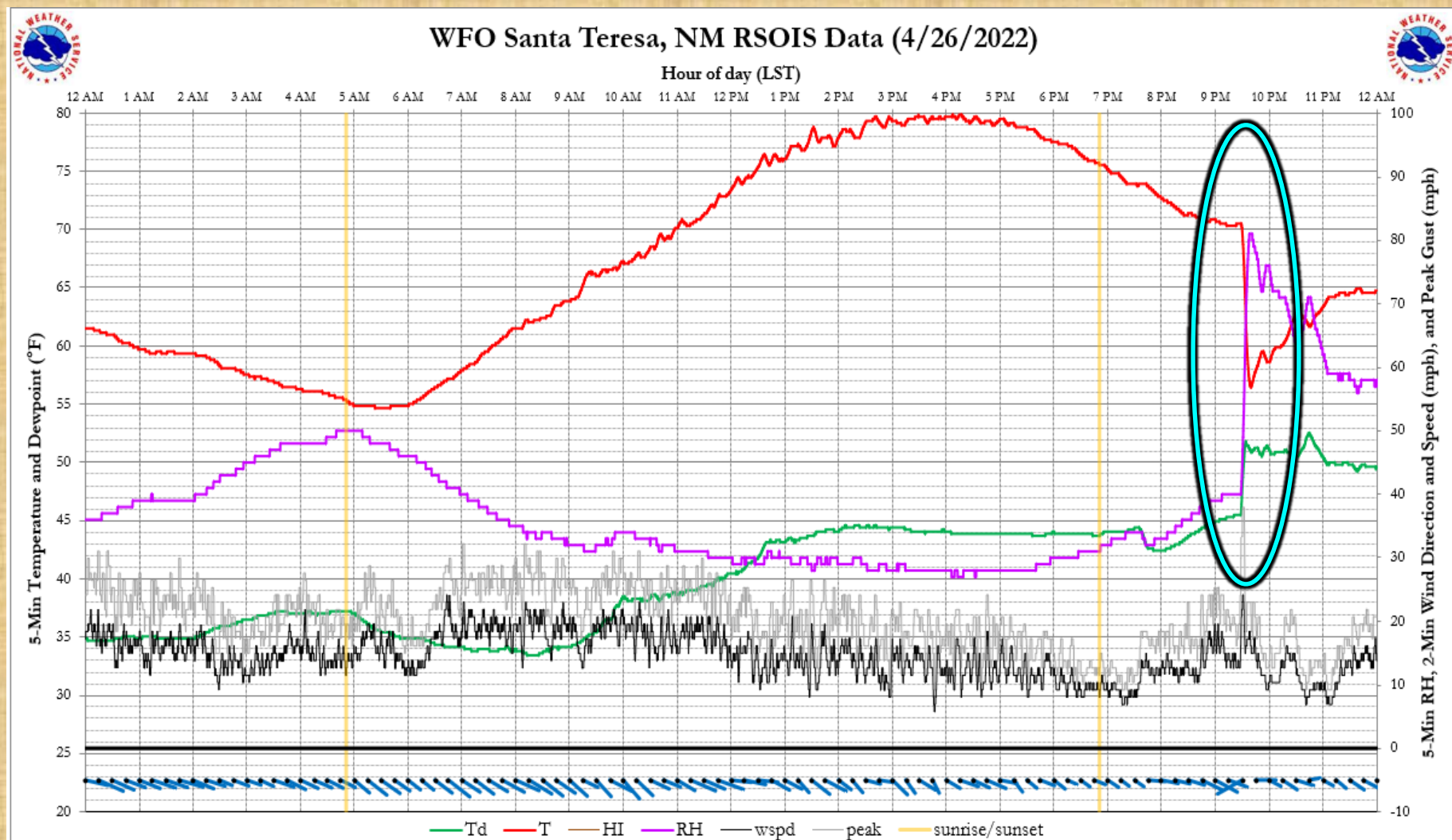


Apr 13 Map of McBride Fire Ruidoso

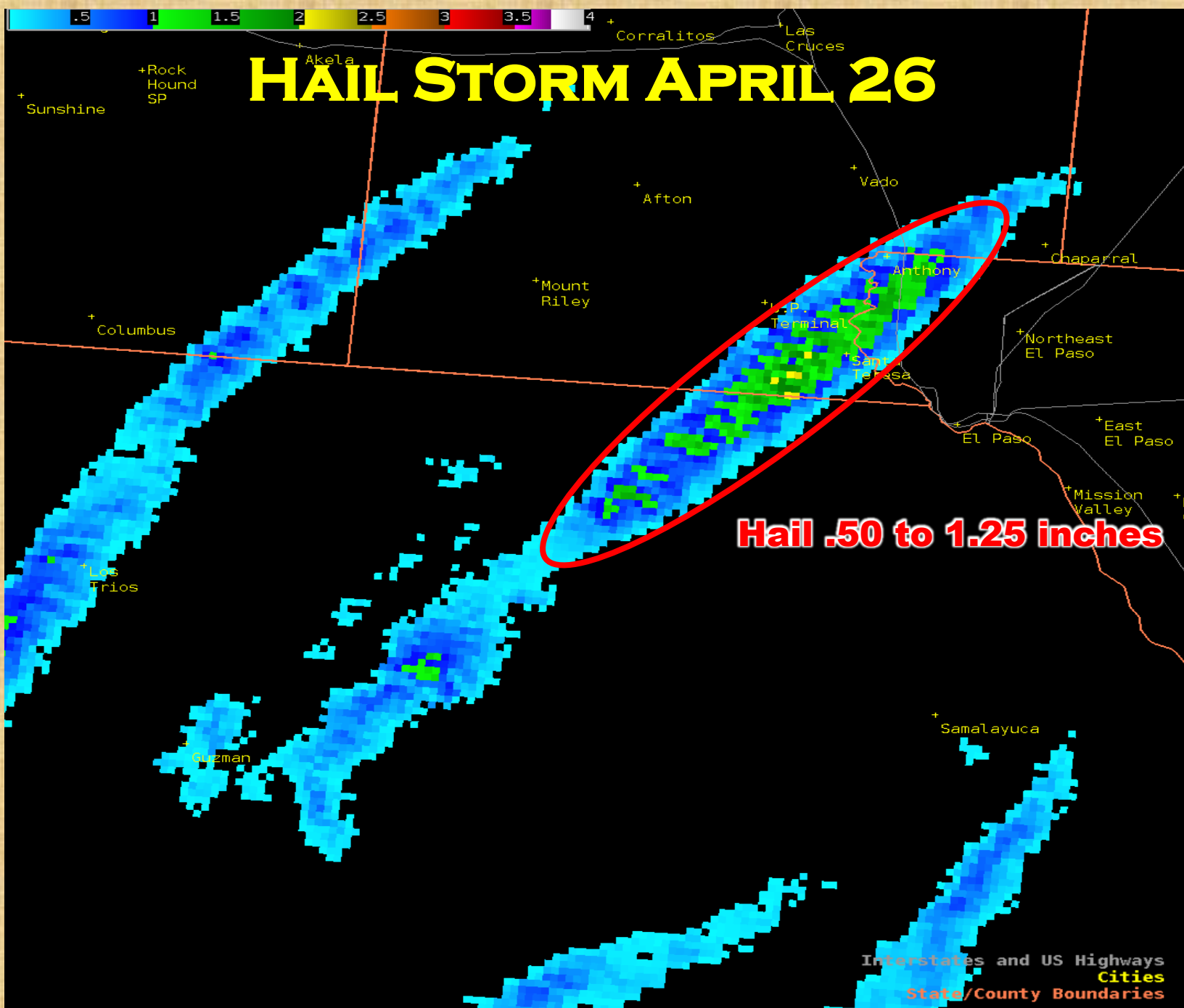


HAIL STORM APRIL 26

This is the weather graph from our office in Santa Teresa showing the April 26 hail storm. The temperature (red line) dropped some 14 degrees in about 5 minutes, while the dewpoint (green line) and humidity (purple line) rose dramatically. Peak wind during the storm was 38 mph.



HAIL STORM APRIL 26



Hail .50 to 1.25 inches

Interstates and US Highways
Cities
State/County Boundaries

ENSO Alert System Status: La Niña Advisory in Affect

ENSO Alert System

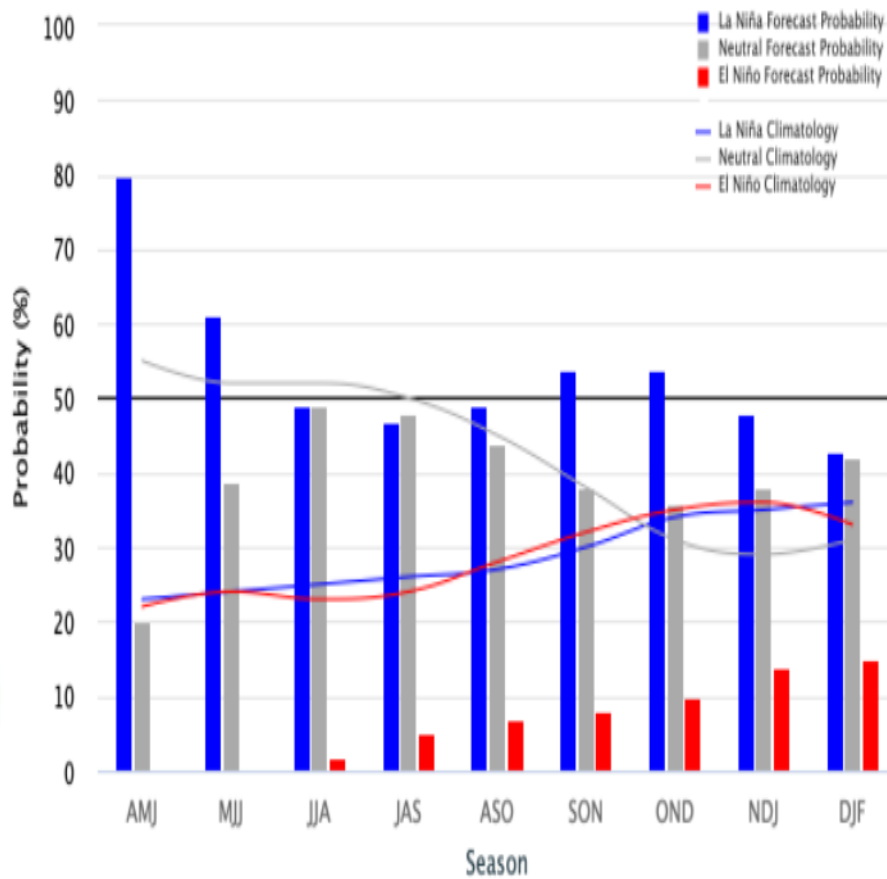
- **El Niño or La Niña Watch:** Issued when conditions are favorable for the development of El Niño or La Niña conditions in the next six months.
- **El Niño or La Niña Advisory:** Issued when El Niño or La Niña conditions are observed and expected to continue.

ENSO Forecast

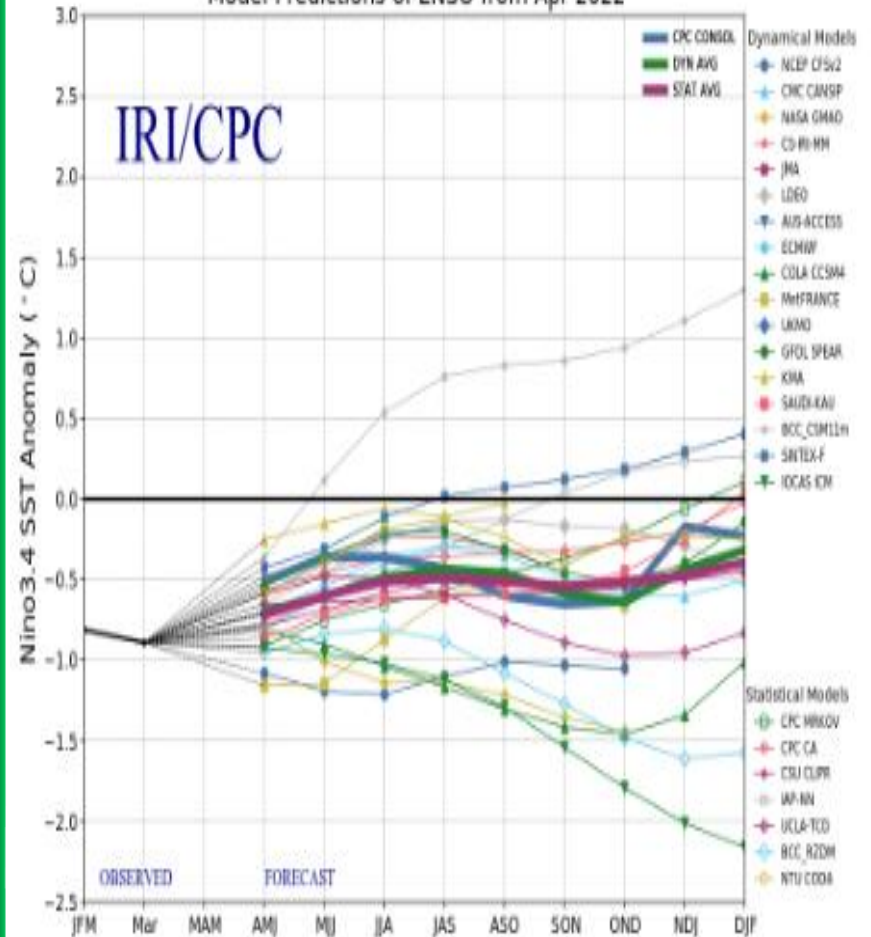
ENSO is in La Niña status, where it is expected to stay through spring. Forecast still shows equal chances of La Niña or neutral conditions this summer.

Mid-April 2022 IRI/CPC Model-Based Probabilistic ENSO Forecasts

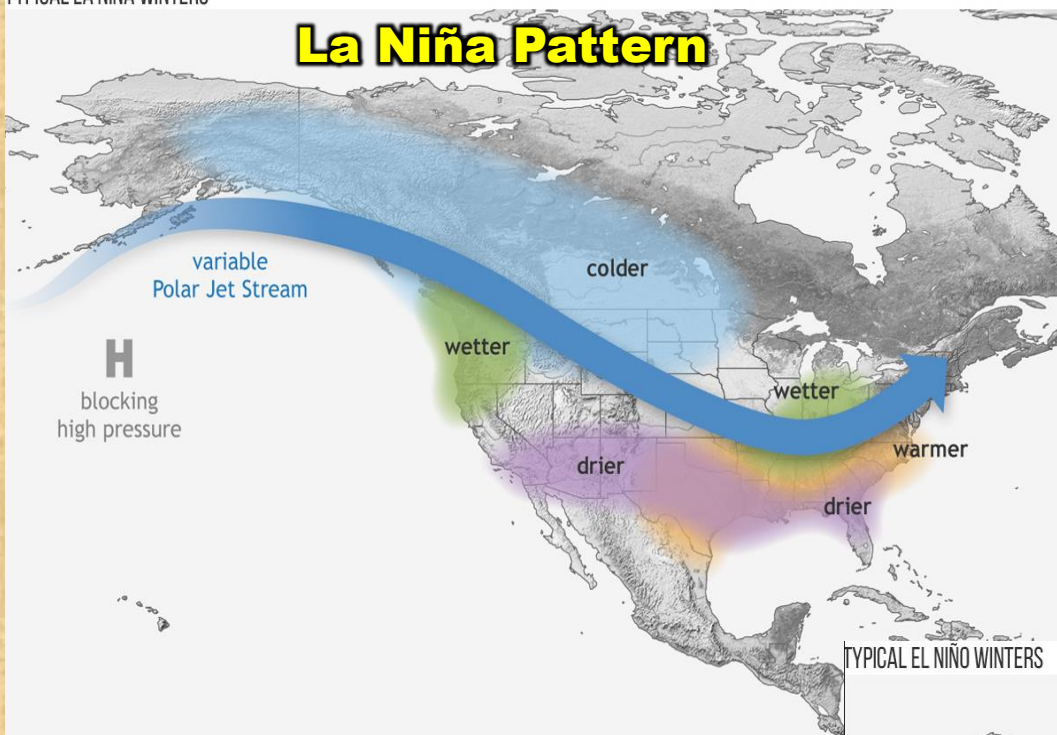
ENSO state based on NINO3.4 SST Anomaly
Neutral ENSO: $-0.5\text{ }^{\circ}\text{C}$ to $0.5\text{ }^{\circ}\text{C}$



Model Predictions of ENSO from Apr 2022

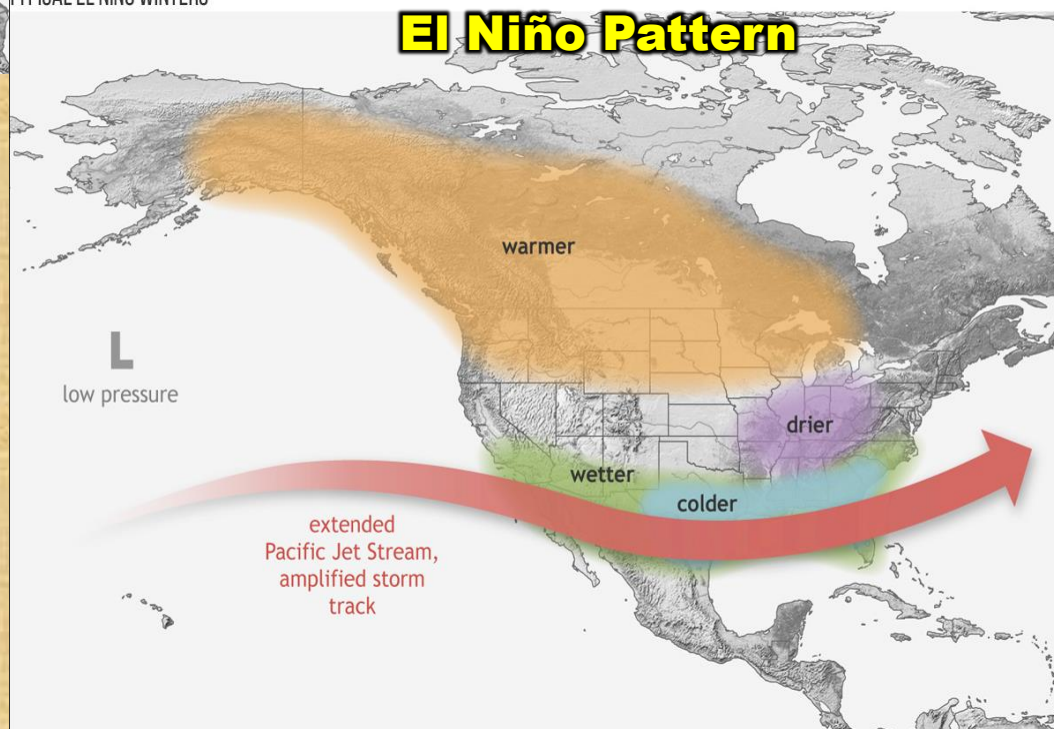


La Niña Pattern



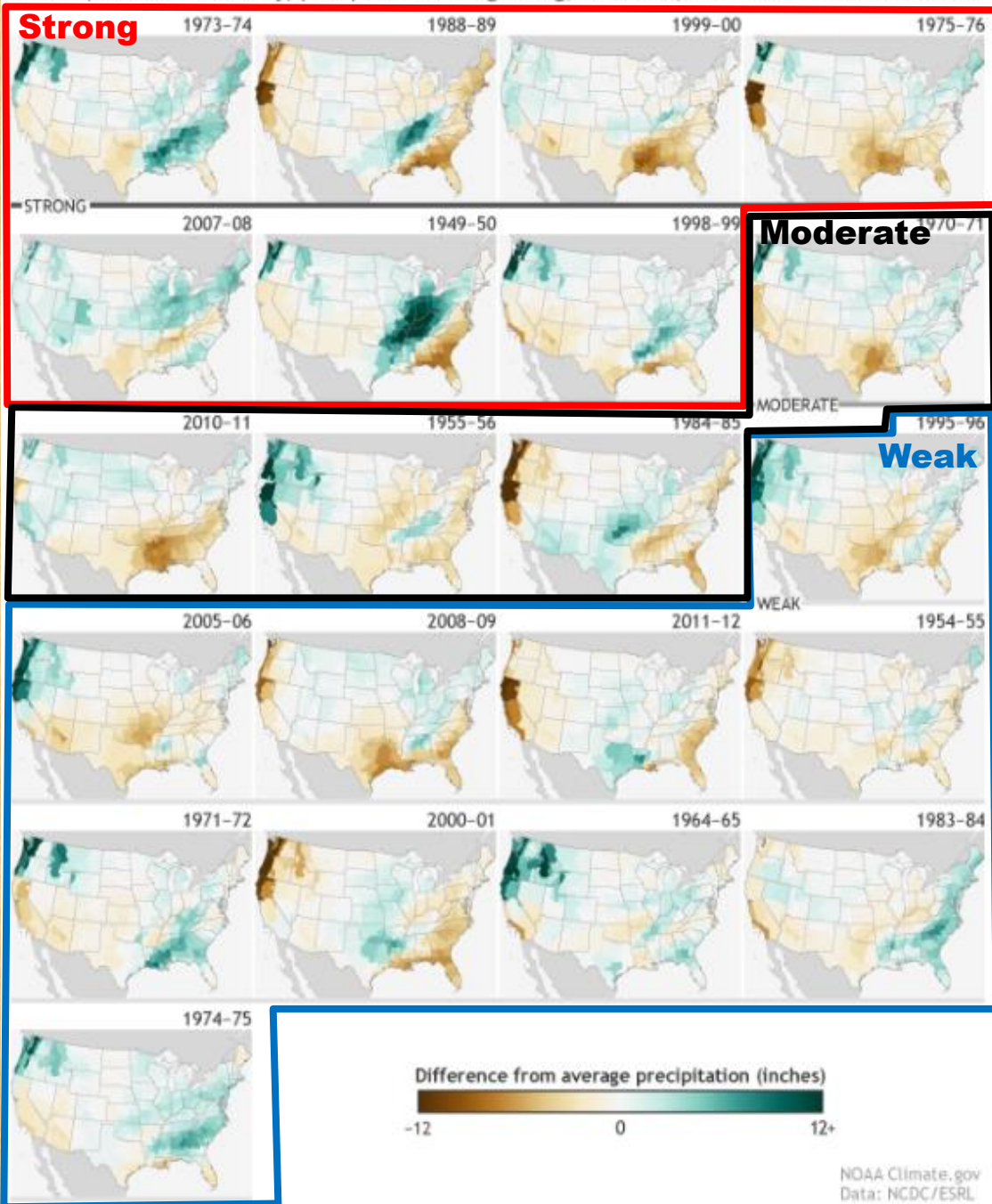
With a La Niña pattern, a ridge of high pressure tends to build off the west coast of the U.S., blocking most of our Pacific winter storm systems. These storms tend to end up moving across the northern Plains and down to the southeastern part of the country. Of course it is important to remember that 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.

Winter (December-February) precipitation during strong, moderate, and weak La Niñas since 1950



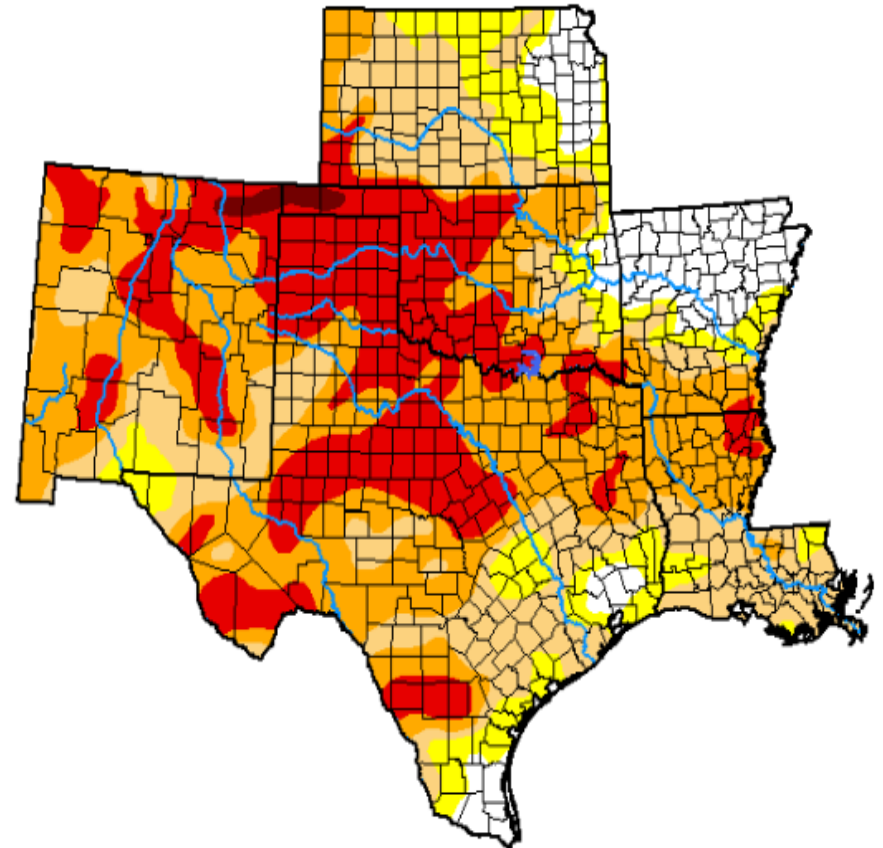
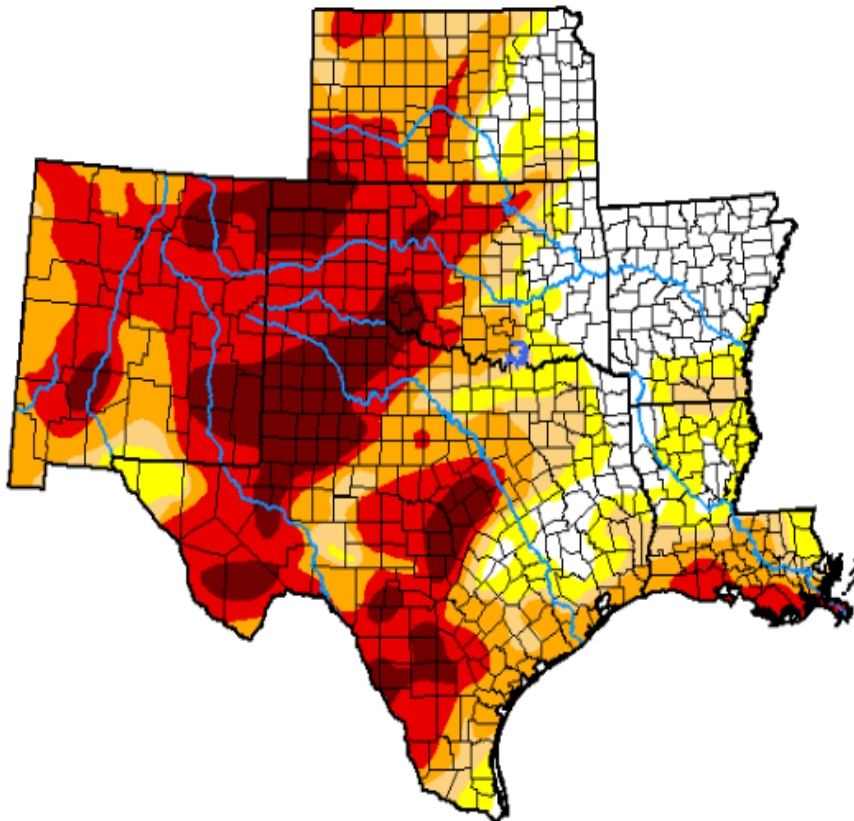
Examples of the numerous La Niña winters since 1950. These maps depict the departure from normal precipitation amounts for a winter.

Current drought conditions and 3 month change

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

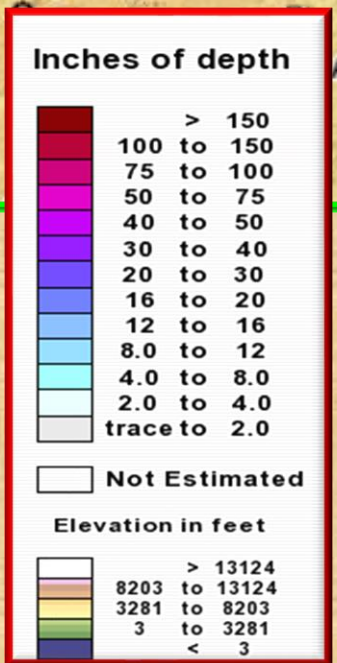
April 26, 2022

January 25, 2022

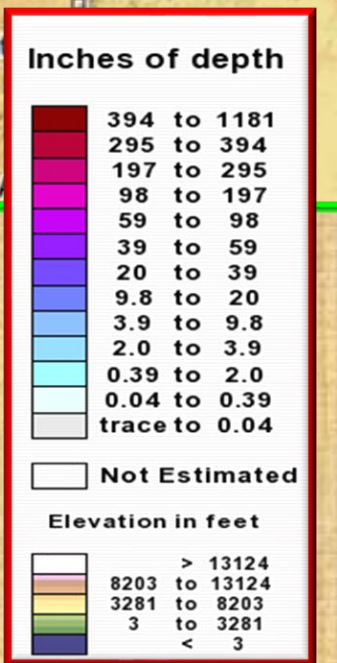
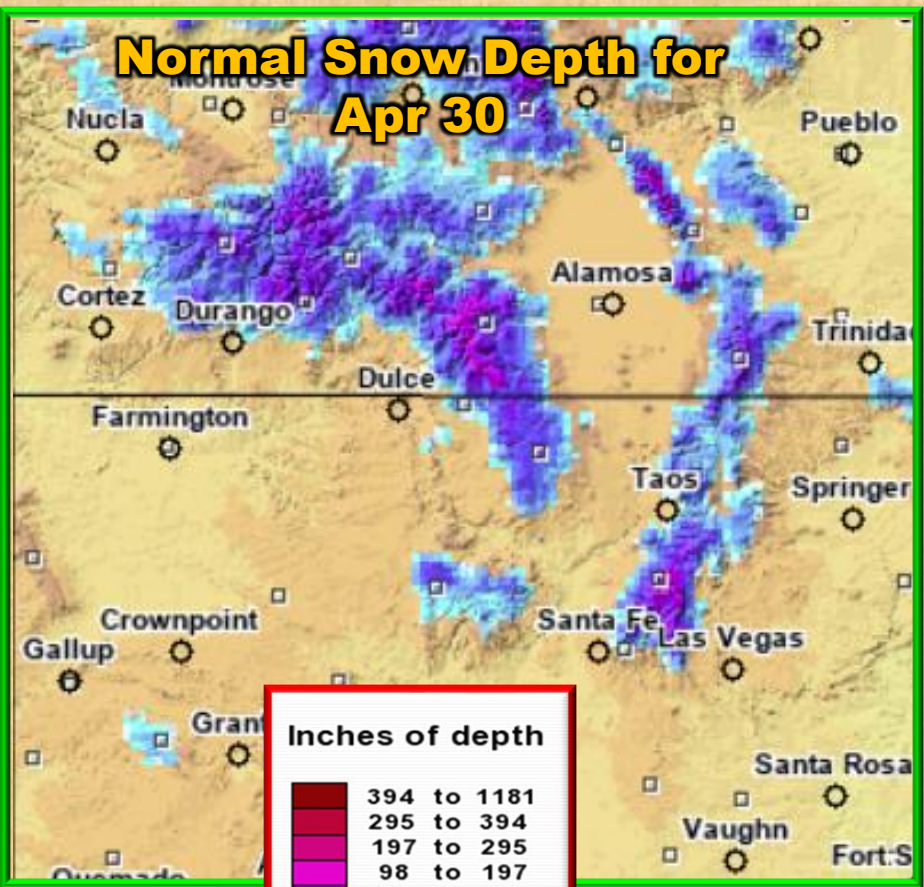


Snow Data Upper Rio Grand Basin as of Apr 30, 2022

Snow Depth on Apr 30, 2022

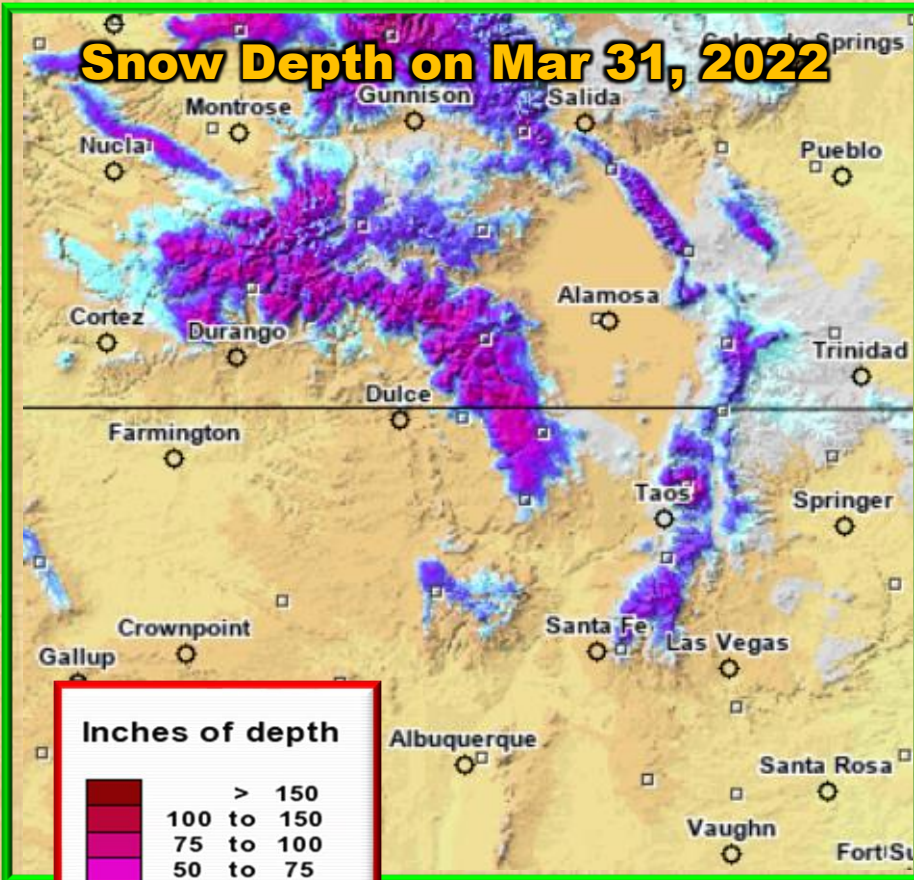


Normal Snow Depth for Apr 30

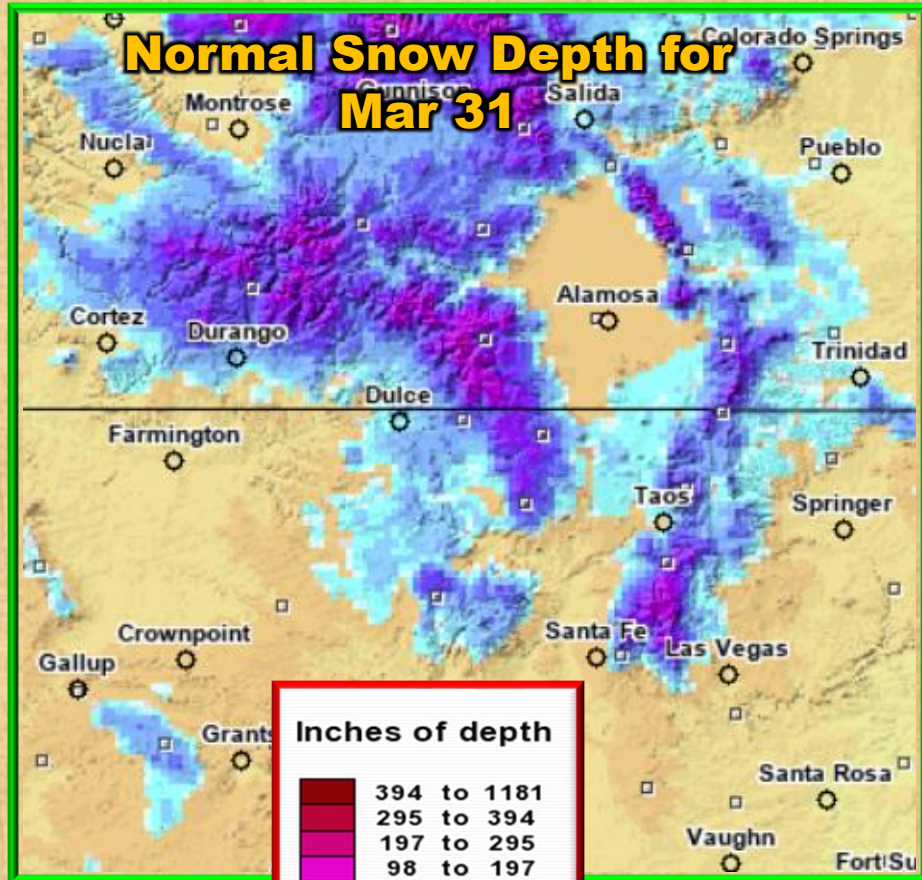


Snow Data Upper Rio Grand Basin as of Mar 31, 2022

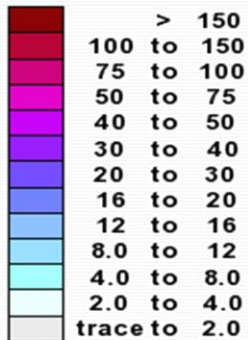
Snow Depth on Mar 31, 2022



Normal Snow Depth for Mar 31

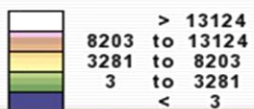


Inches of depth

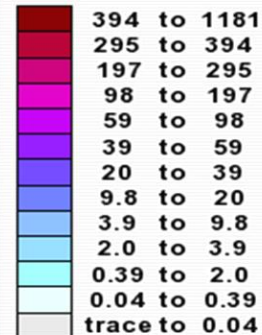


Not Estimated

Elevation in feet

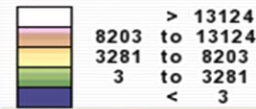


Inches of depth



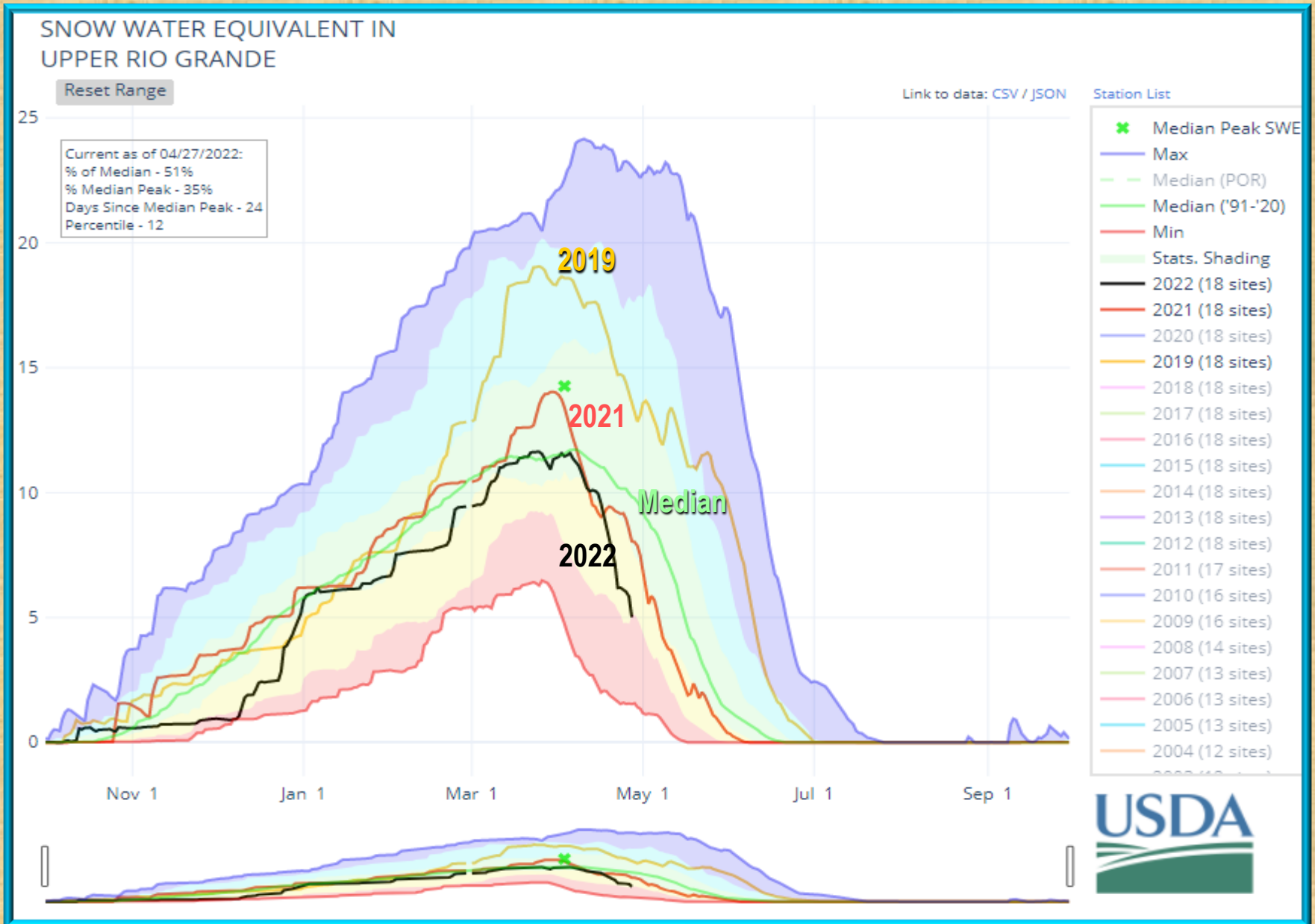
Not Estimated

Elevation in feet



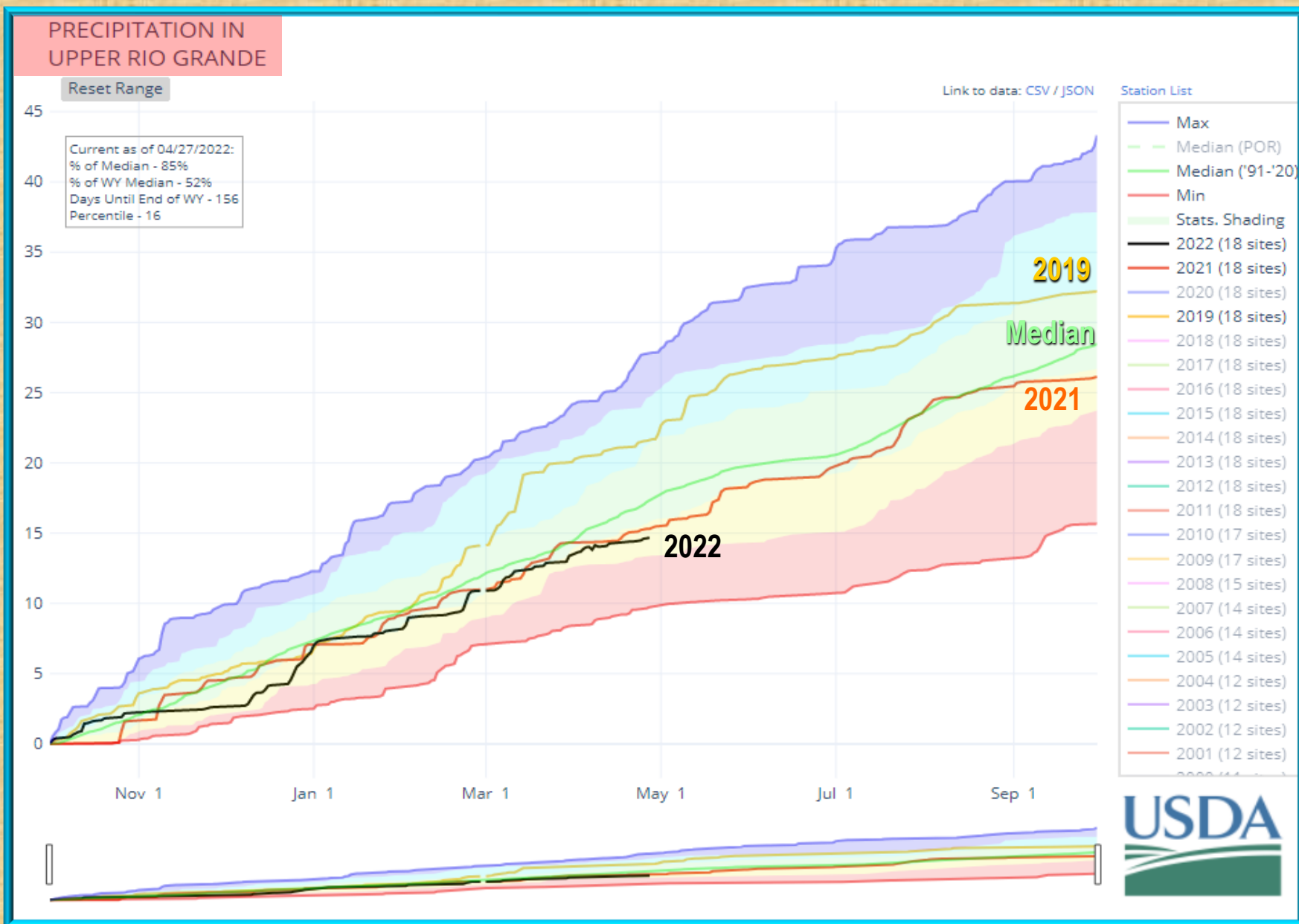
Snow Water Equivalent as of Apr 30, 2021

Compare to last few years and average values



Precipitation for the Water Year Oct 1 – Apr 30, 2022

Compare to last few years and average values

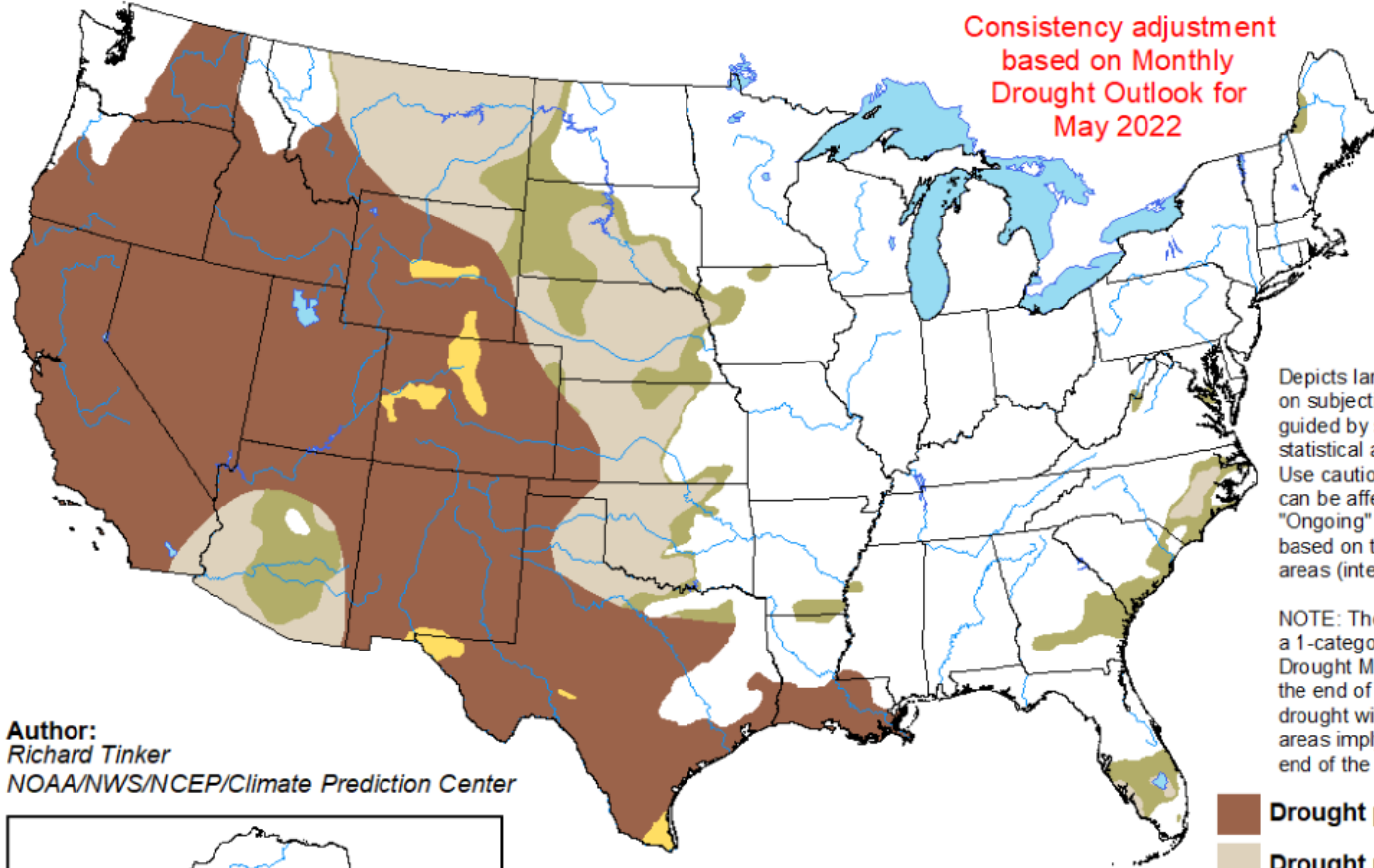


U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for May 1 - July 31, 2022
Released April 30, 2022

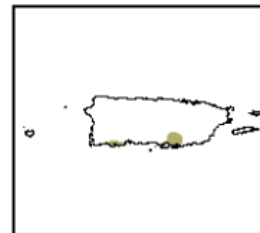
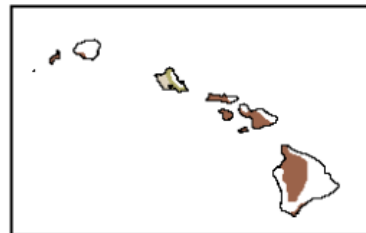
Consistency adjustment
based on Monthly
Drought Outlook for
May 2022







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:
Richard Tinker
NOAA/NWS/NCEP/Climate Prediction Center



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



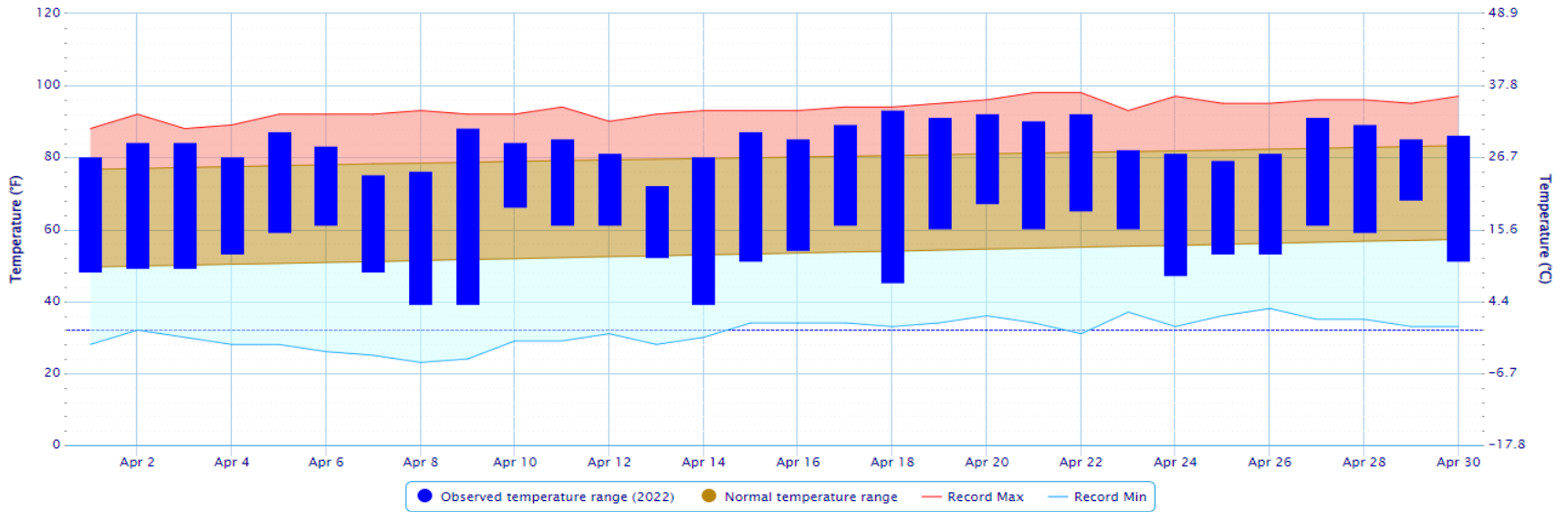
<http://go.usa.gov/3eZ73>

Temperature and precipitation data for March 2022 in El Paso

○ = record

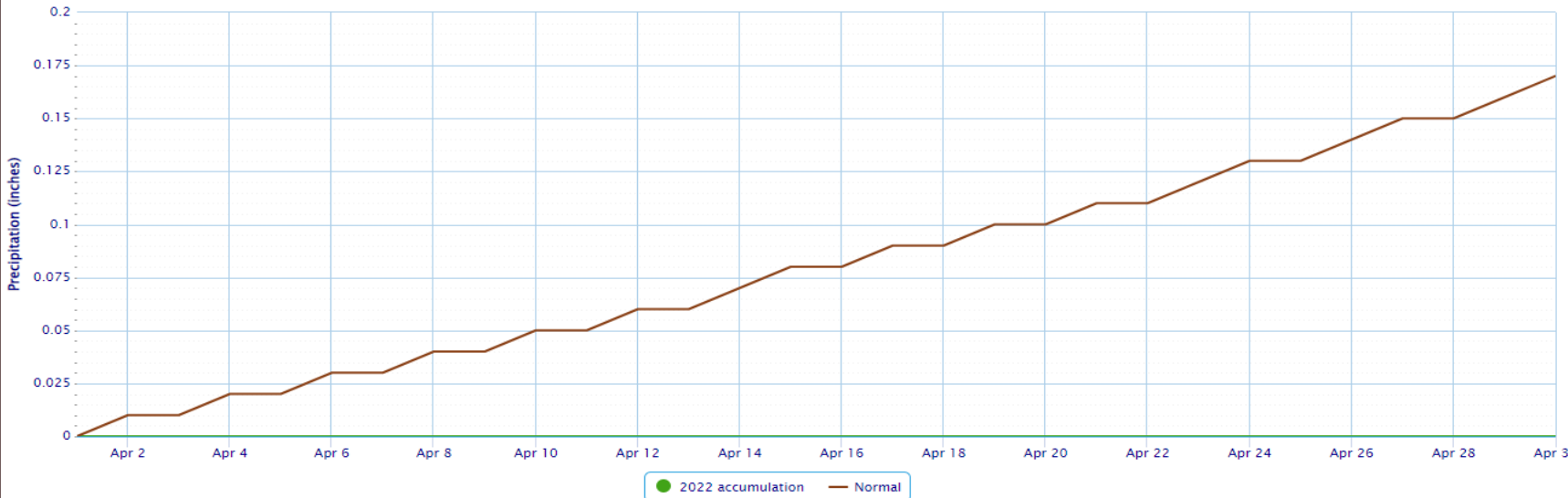
Daily Temperature Data – El Paso Area, TX (ThreadEx)

Period of Record – Max temperature: 1887-01-01 to 2022-04-30; Min temperature: 1879-01-01 to 2022-04-30. Normals period: 1991-2020. Click and drag to zoom chart.

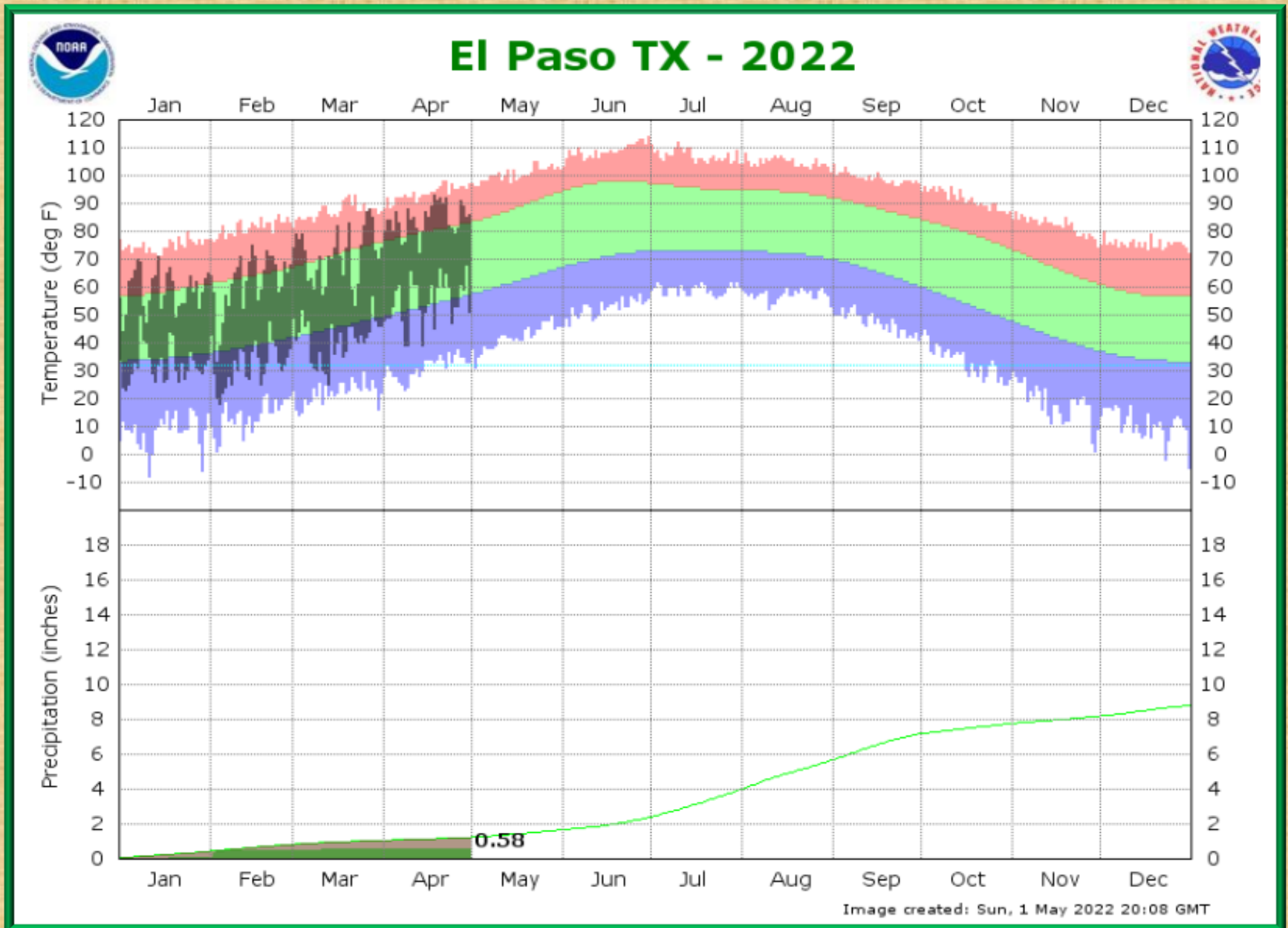


Accumulated Precipitation – El Paso Area, TX (ThreadEx)

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



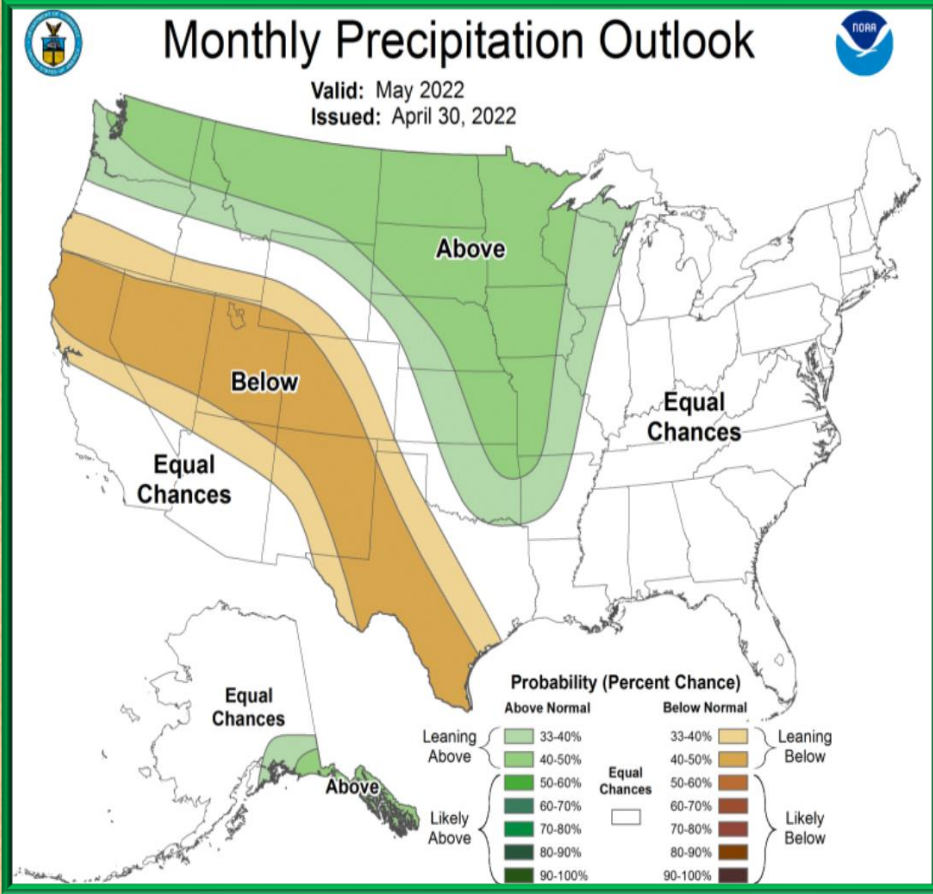
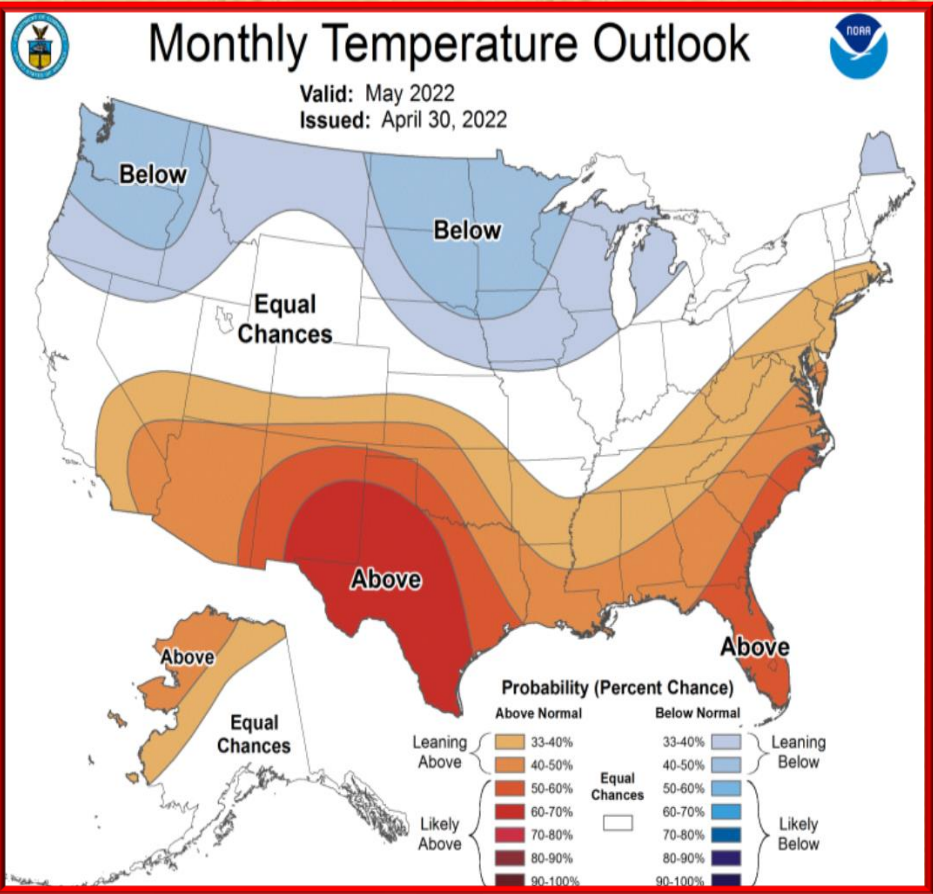
2022: Temperature and Precipitation YTD Data for El Paso



Temperature and precipitation outlook for May 2022

Temperature

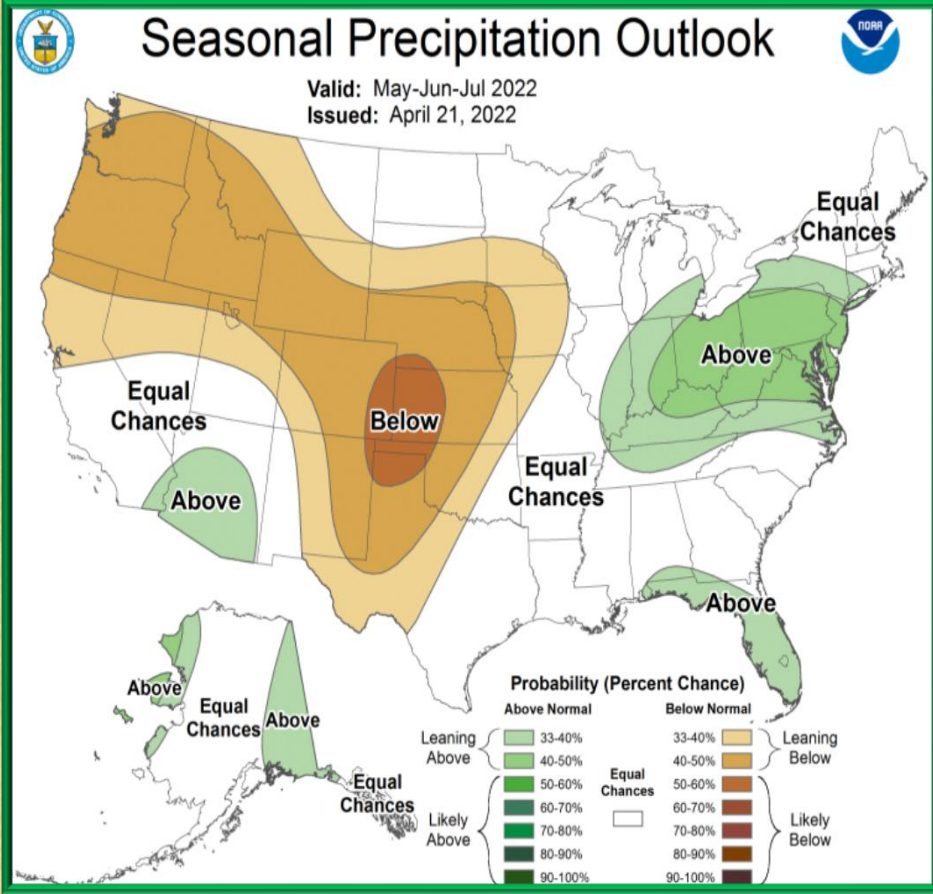
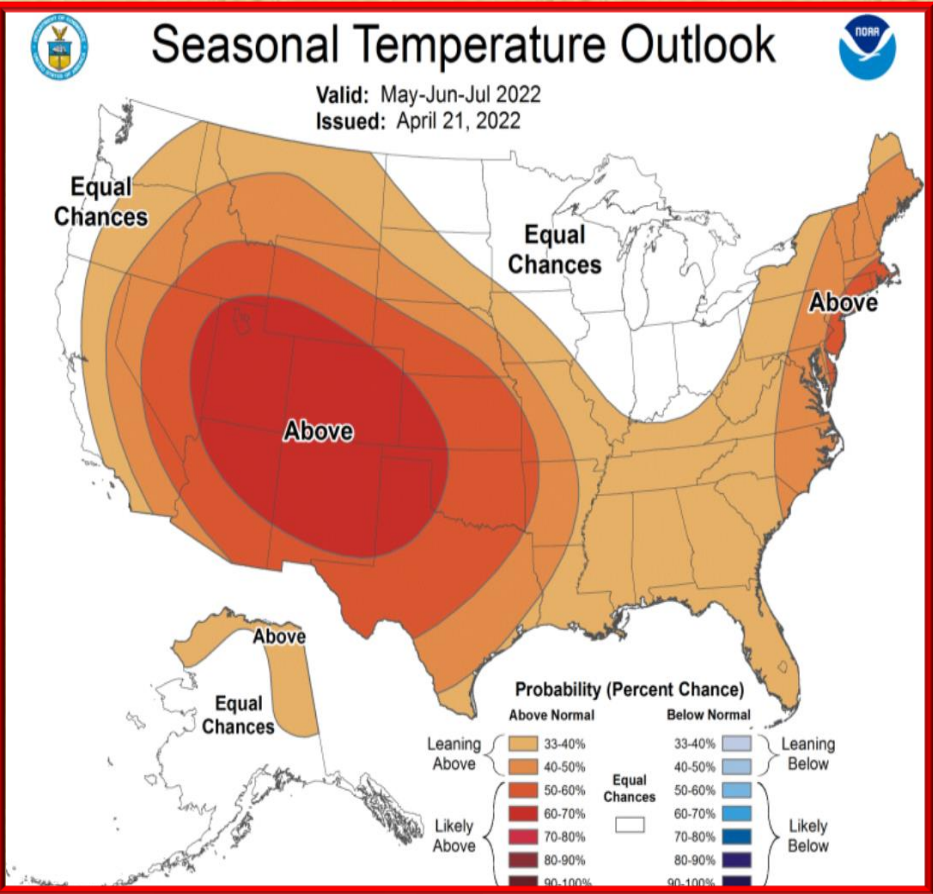
Precipitation



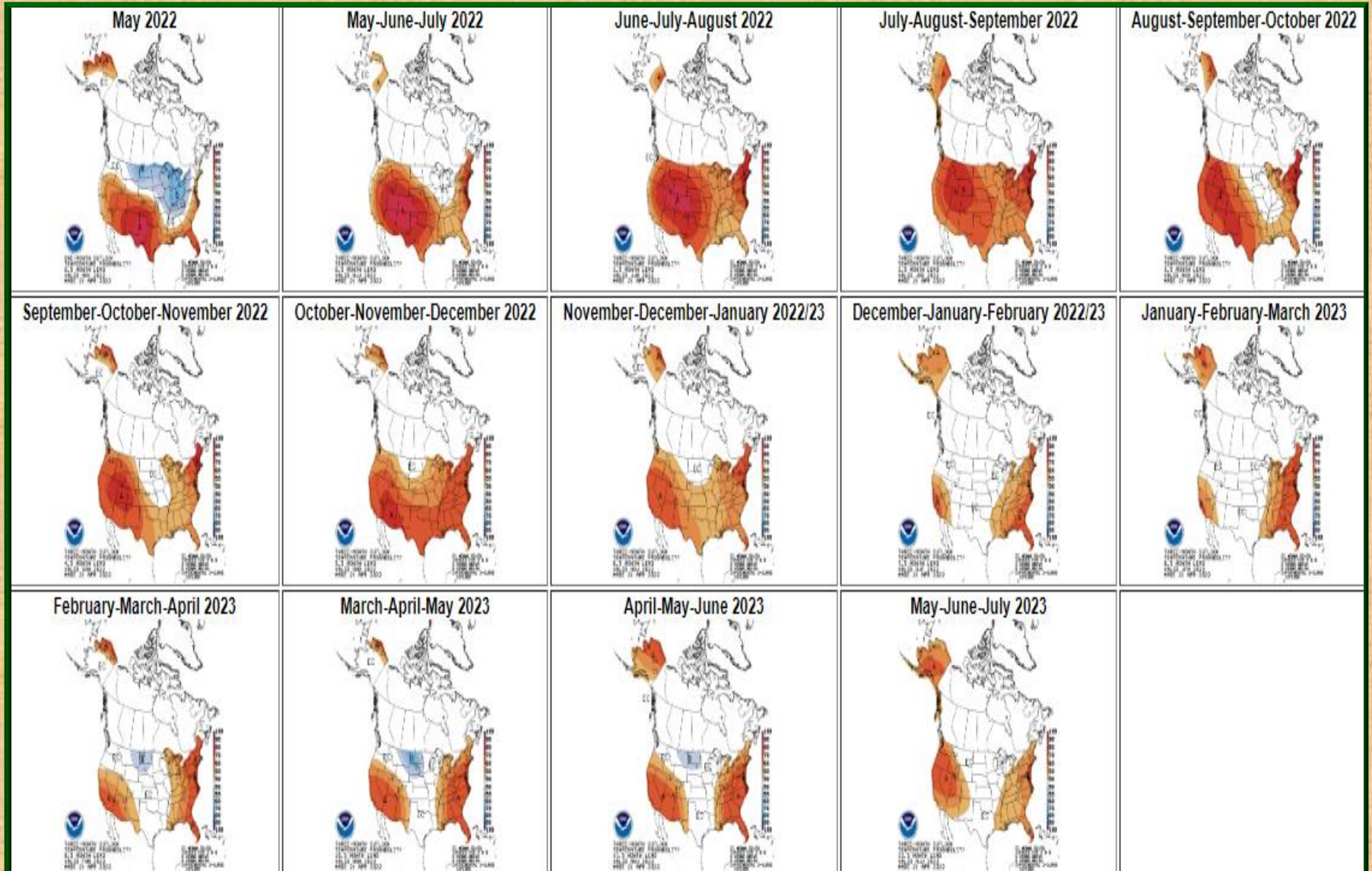
Temperature and precipitation outlook For May-July 2022

Temperature

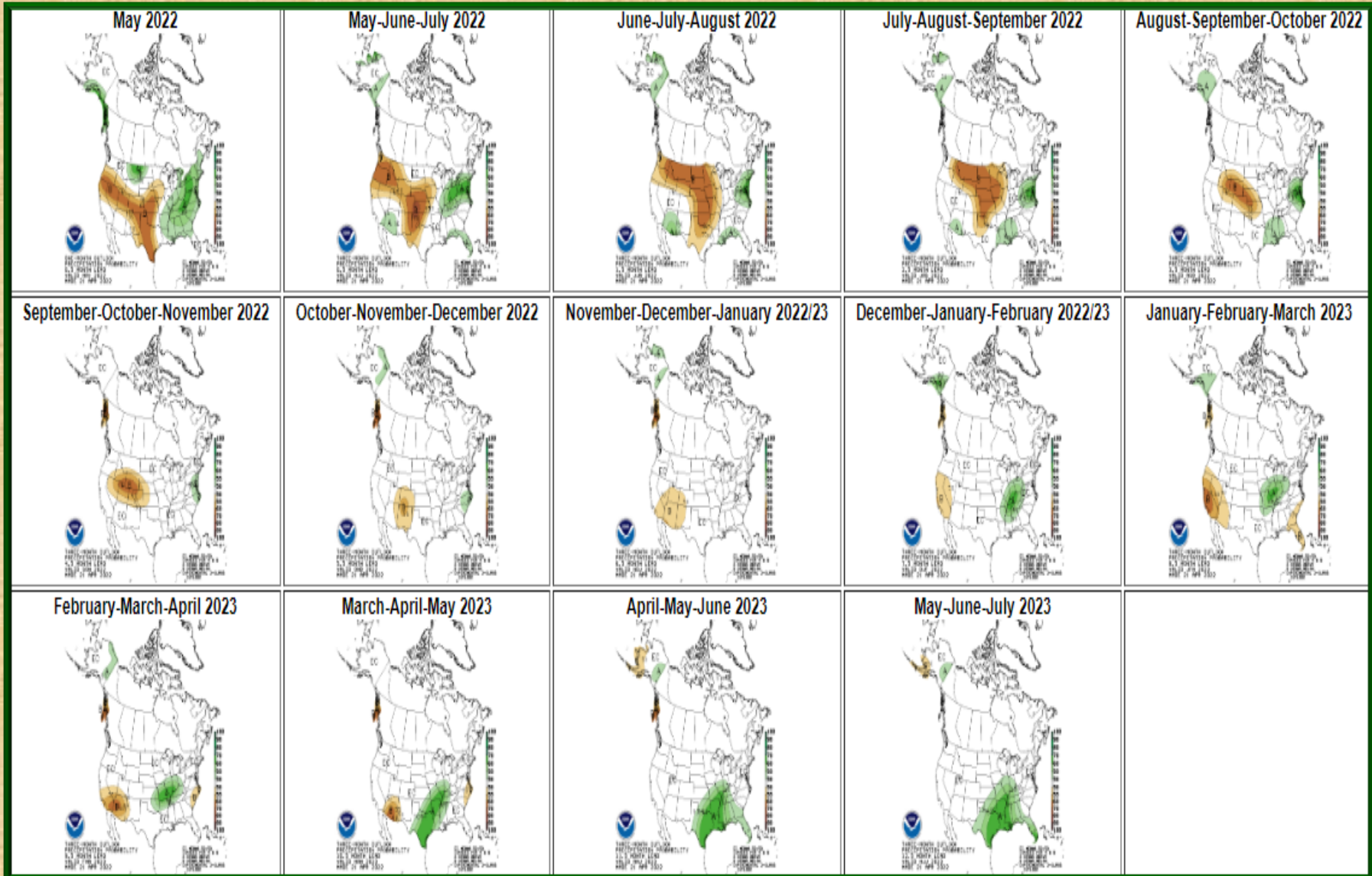
Precipitation



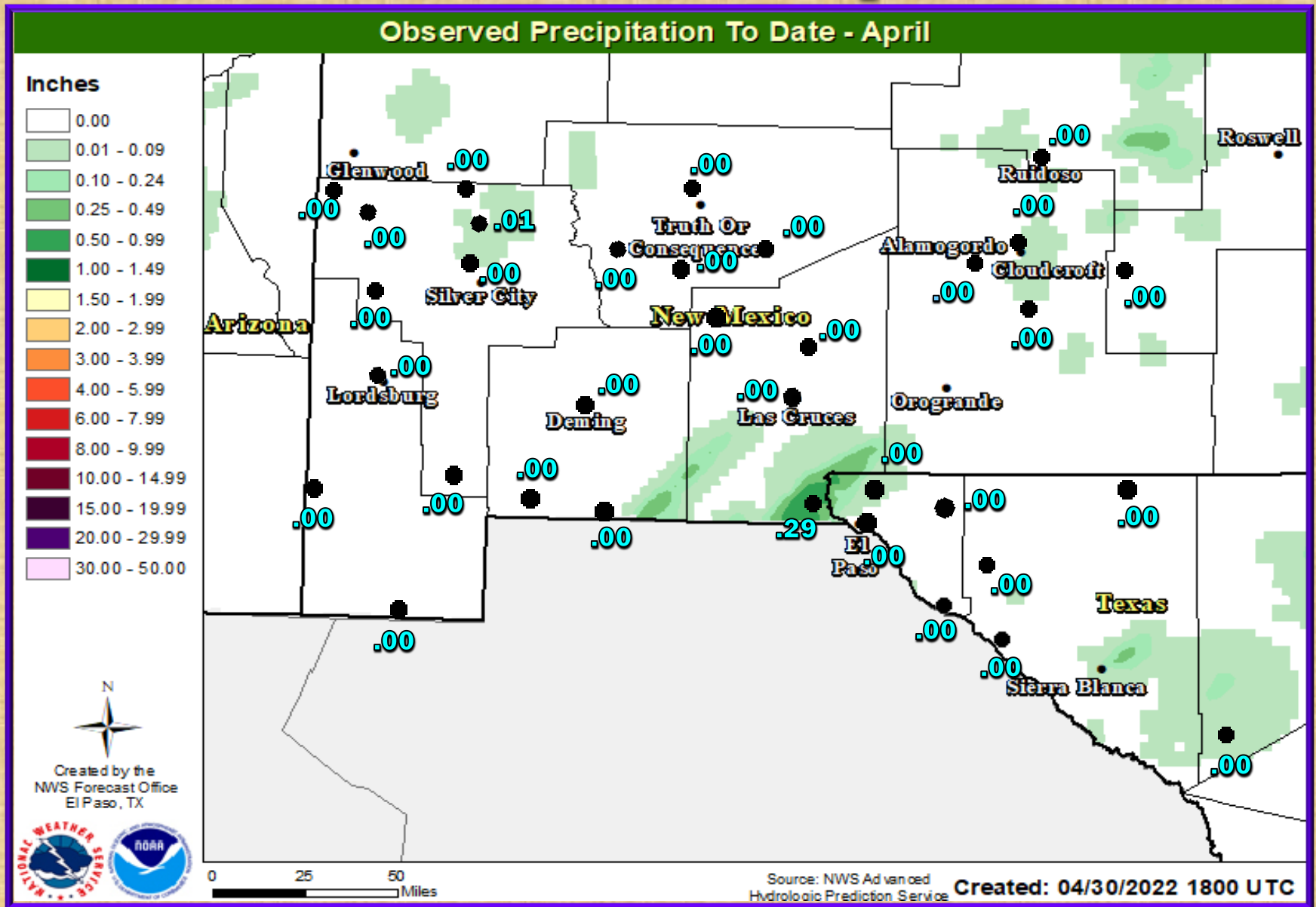
Temperature Outlook Through July 2023



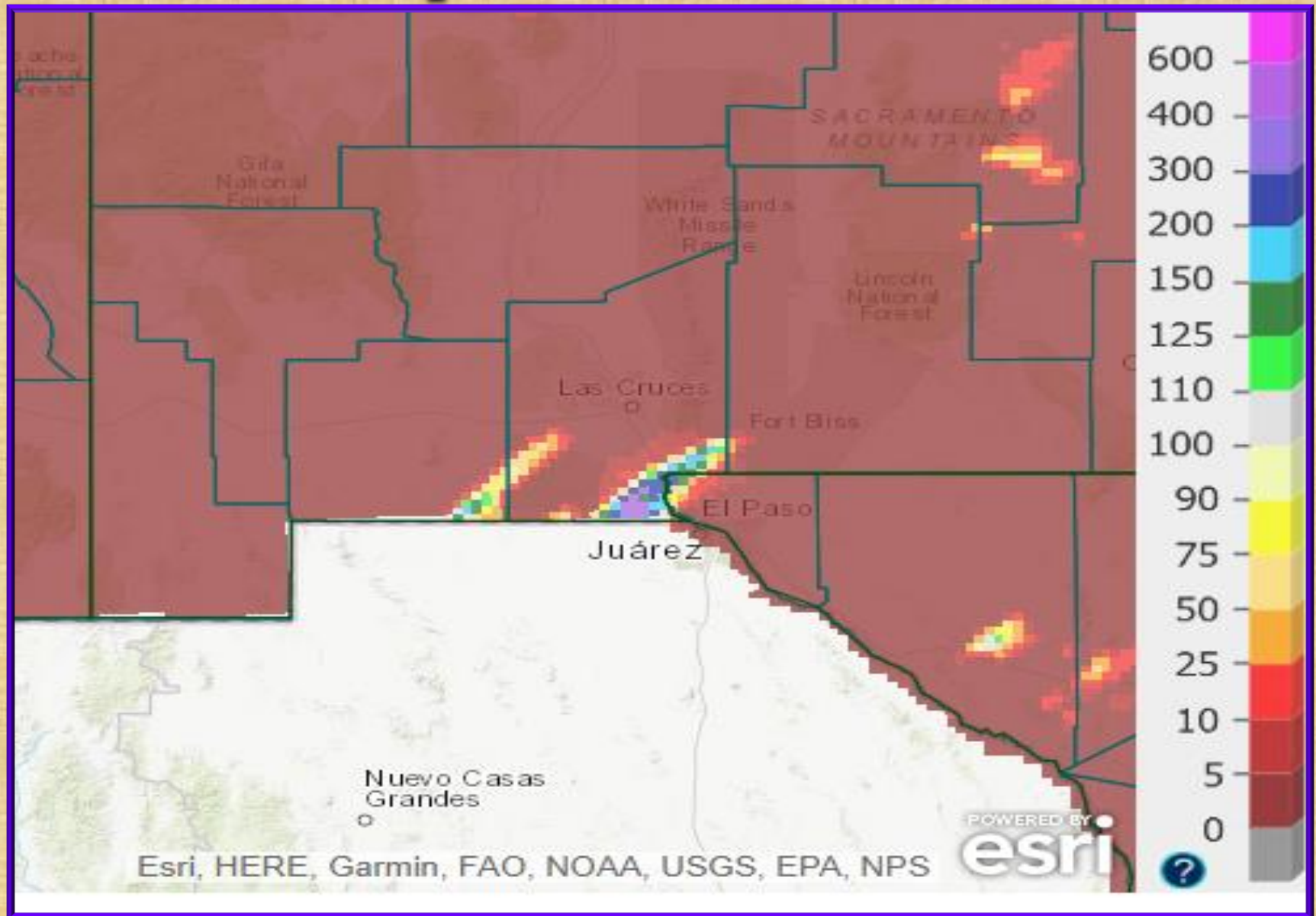
Precipitation Outlook Through July 2023



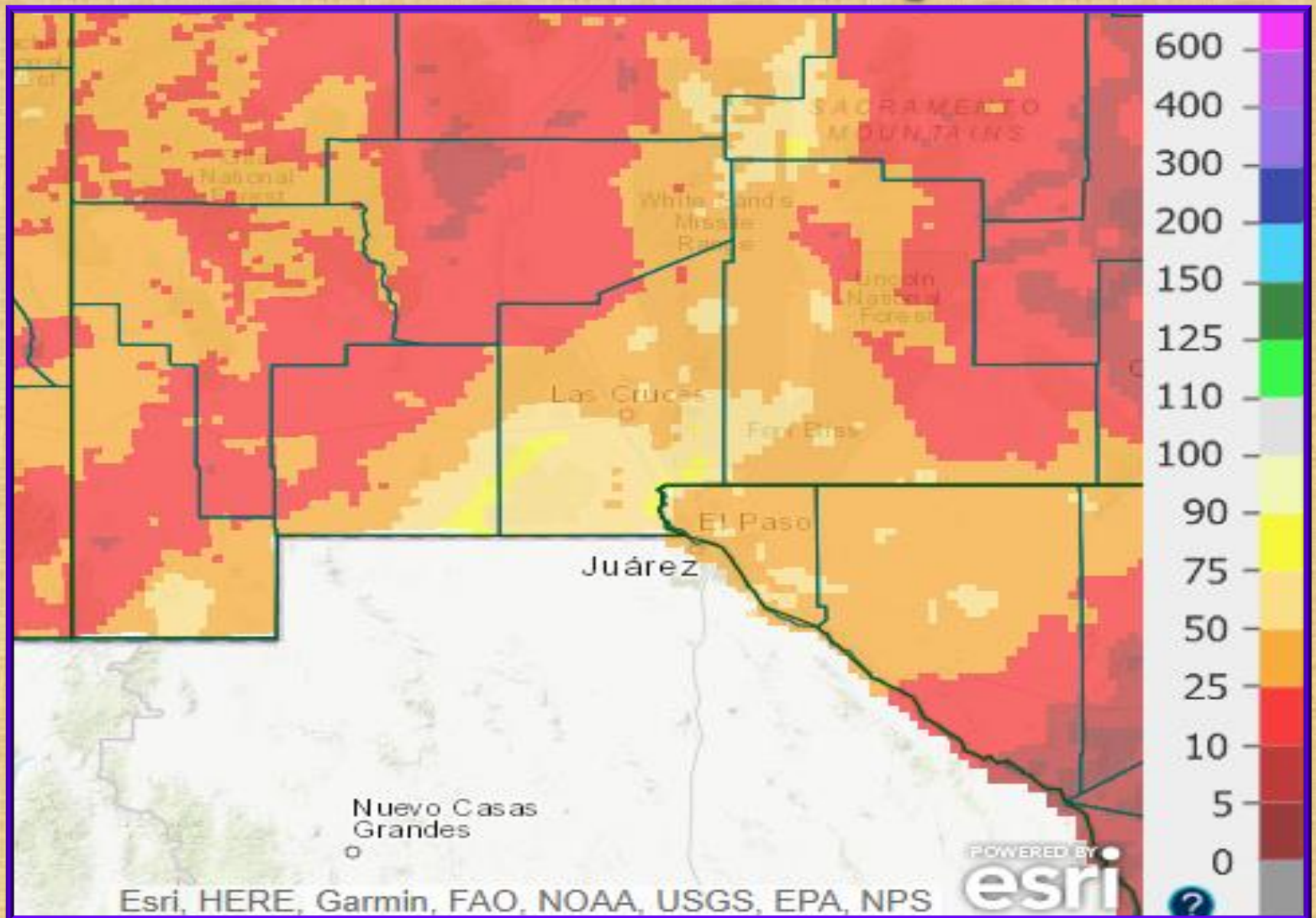
April 2022 radar rainfall estimate with surface rainfall reports



April 2022 rainfall estimate percent of normal



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

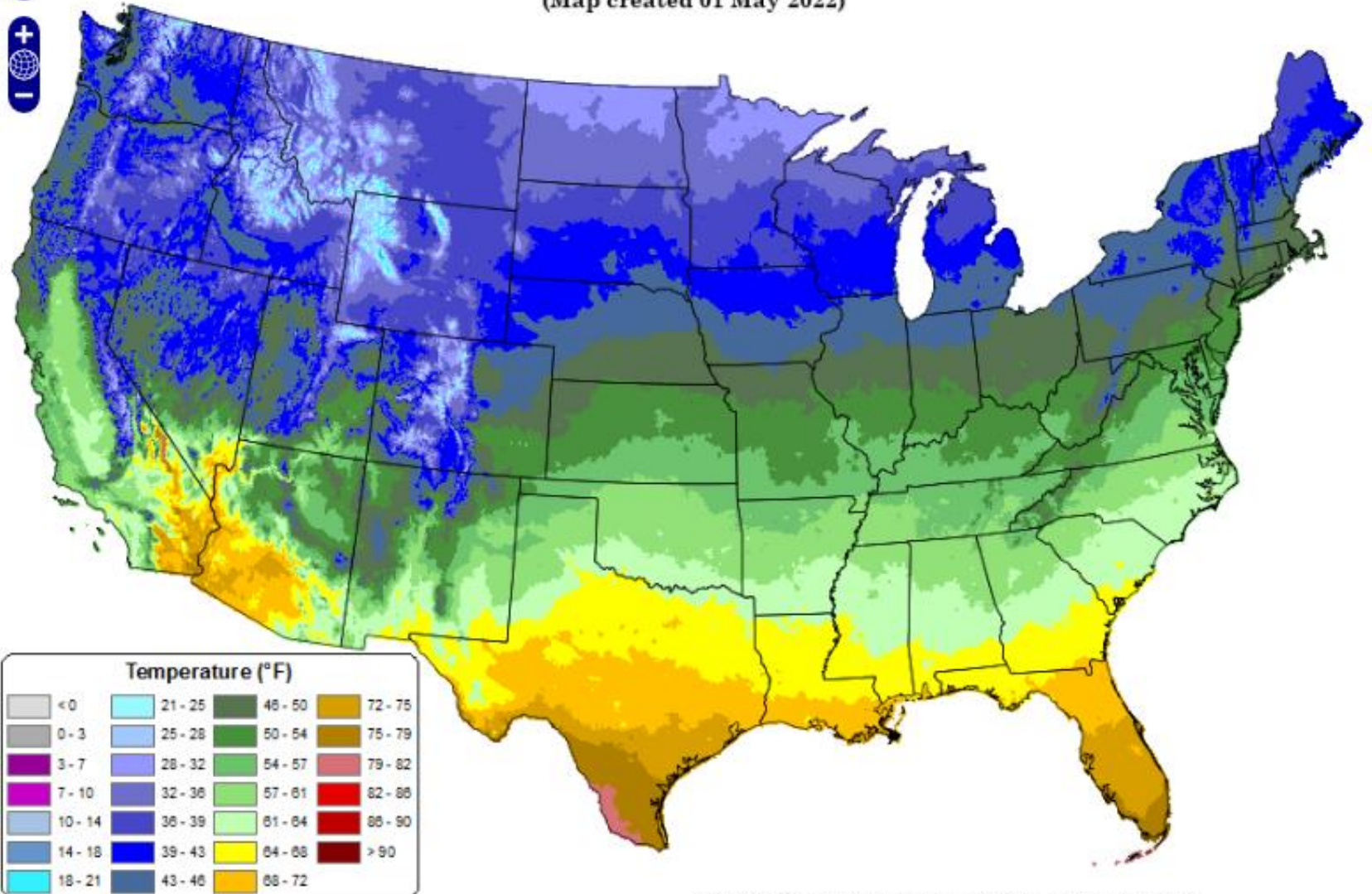


Average Daily Mean Temperature for April 2022

Average Daily Mean Temperature: 01 Apr 2022 - 30 Apr 2022

Period ending 7 AM EST 30 Apr 2022

(Map created 01 May 2022)

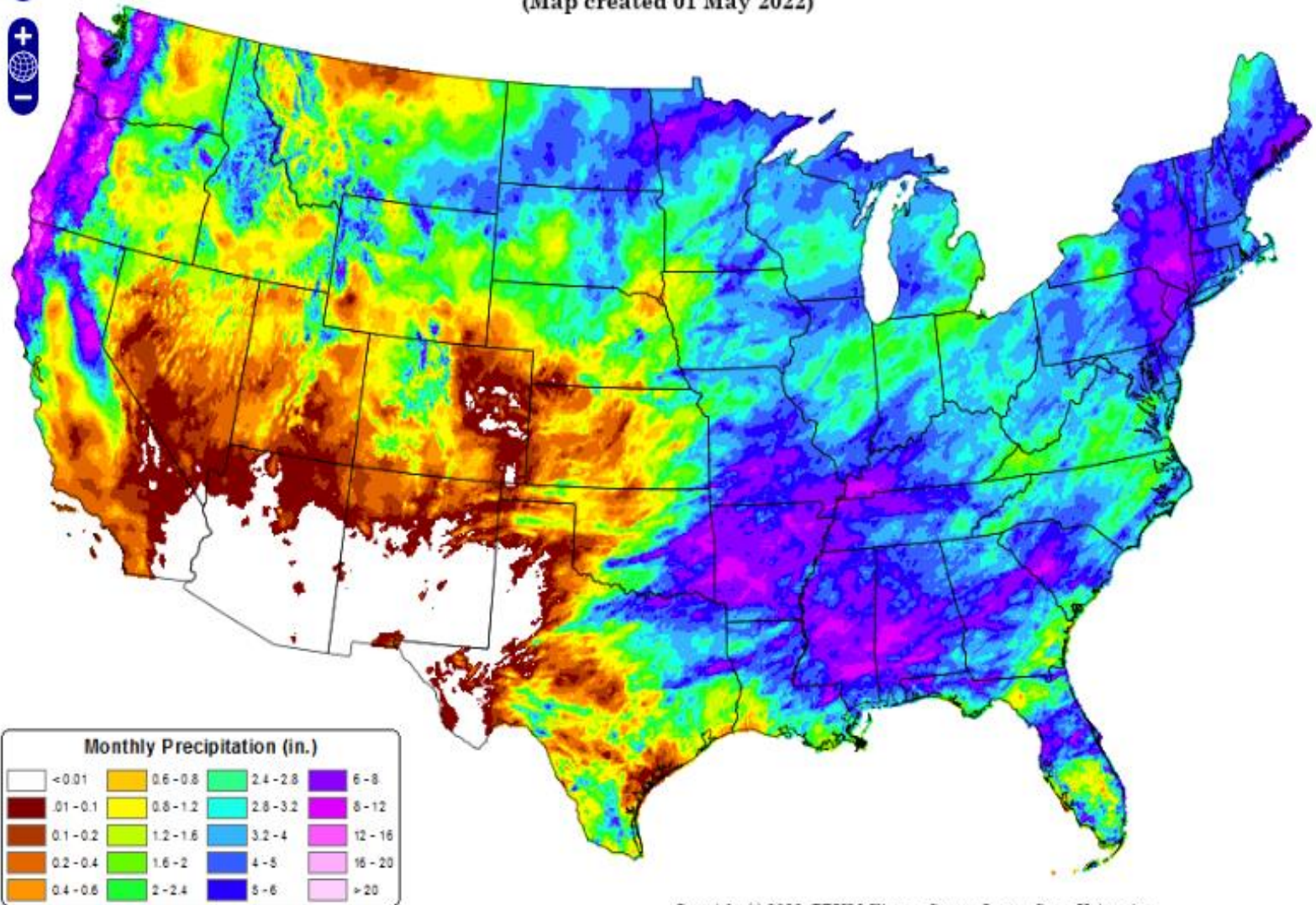


Total Precipitation for April 2022

Total Precipitation: 01 Apr 2022 - 30 Apr 2022

Period ending 7 AM EST 30 Apr 2022

(Map created 01 May 2022)



Selected Weather Reports April 2022

Date/Time	Location (County)	Event
APR 5 645 PM	SAN AUGUSTIN PASS-DONA ANA	62 MPH PEAK WIND
APR 5 950 PM	BIGGS FIELD-EL PASO	52 MPH PEAK WIND
APR 5 256 PM	DEMING AIRPORT-LUNA	49 MPH PEAK WIND
APR 5 1039 PM	EL PASO INTL AIRPORT-EL PASO	48 MPH PEAK WIND
APR 5 305 PM	LORDSBURG PLAYS MP12-HIDALGO	48 MPH PEAK WIND
APR 5 715 PM	LAS CRUCES AIRPORT-DONA ANA	44 MPH PEAK WIND
APR 5 915 PM	WSMR MAIN POST-DONA ANA	43 MPH PEAK WIND
APR 5 626 PM	DRIPPING SPRINGS-DONA ANA	42 MPH PEAK WIND
APR 5 353 PM	T OR C AIRPORT-SIERRA	41 MPH PEAK WIND
APR 5 650 PM	SANTA TERESA NWS-DONA ANA	41 MPH PEAK WIND
APR 12 520 PM	SAN AUGUSTIN PASS-DONA ANA	80 MPH PEAK WIND
APR 12 1019 AM	HIGH ROLLS-OTERO	60 MPH PEAK WIND

Selected Weather Reports April 2022

Date/Time	Location (County)	Event
APR 12 1141 AM	MESCALERO-OTERO	60 MPH PEAK WIND
APR 12 145 PM	MAYHILL-OTERO	59 MPH PEAK WIND
APR 12 1140 AM	HATCHITA VALLEY-GRANT	58 MPH PEAK WIND
APR 12 425 PM	LORDSBURG PLAYA MP11-HIDALGO	58 MPH PEAK WIND
APR 12 150 PM	WSMR MUSEUM-DONA ANA	57 MPH PEAK WIND
APR 12 523PM	DEMING AIRPORT-LUNA	56 MPH PEAK WIND
APR 12 1237 PM	EL PASO INTL AIRPORT-EL PASO	54 MPH PEAK WIND
APR 12 420 PM	SPACEPORT-GRANT	54 MPH PEAK WIND
APR 12 333 PM	BIGGS AIRFIELD-EL PASO	53 MPH PEAK WIND
APR 12 539 PM	T OR C AIRPORT-GRANT	53 MPH PEAK WIND
APR 12 1140 AM	SANTA TERESA NWS-DONA ANA	52 MPH PEAK WIND
APR 12 245 PM	SILVER CITY MTN VIEW-GRANT	50 MPH PEAK WIND

Selected Weather Reports April 2022

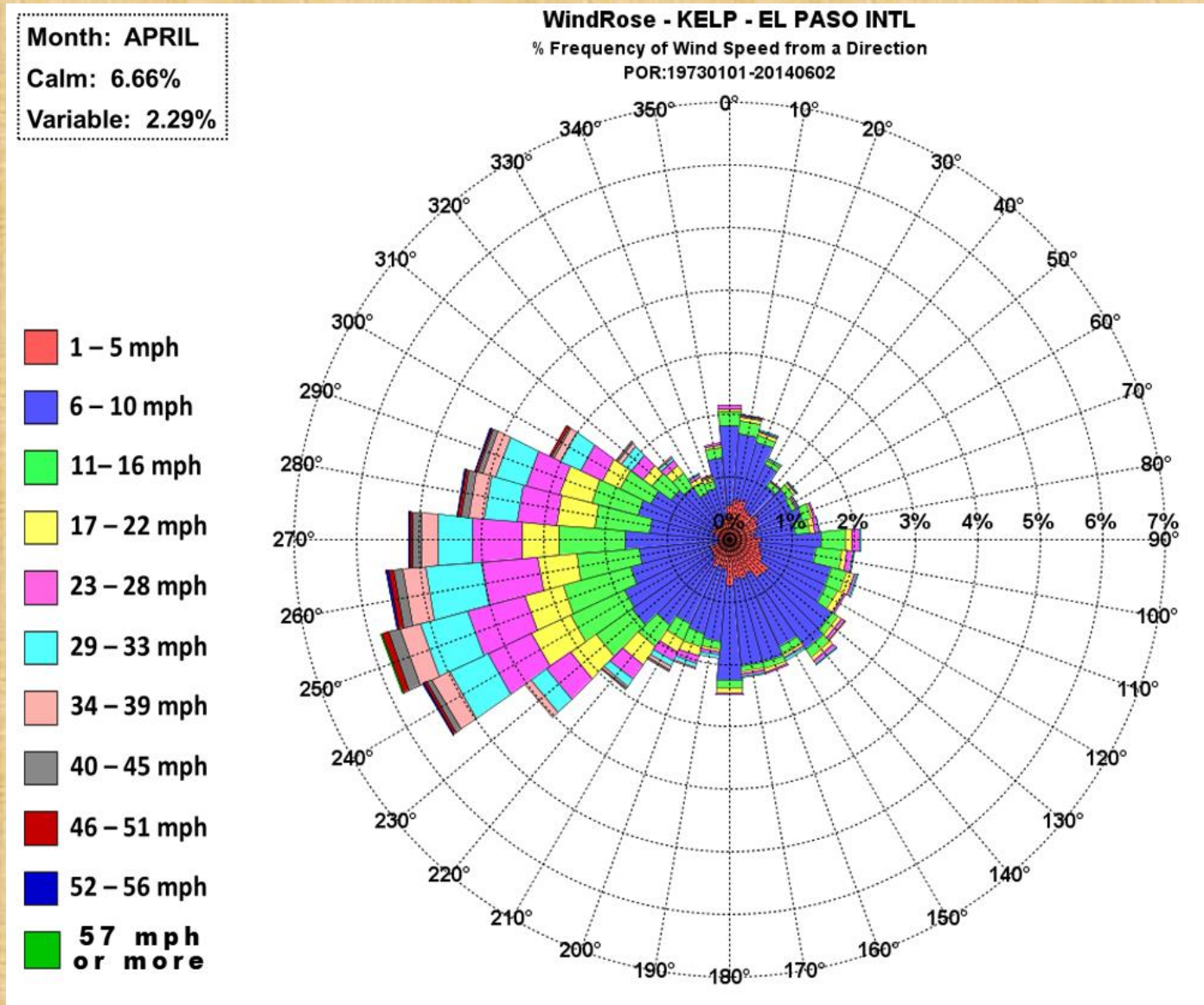
Date/Time	Location (County)	Event
APR 22 615 PM	SAN AUGUSTIN PASS-DONA ANA	70 MPH PEAK WIND
APR 22 1050 PM	WSMR MUSEUM-DONA ANA	66 MPH PEAK WIND
APR 22 712 PM	T OR C AIRPORT- SIERRA	63 MPH PEAK WIND
APR 22 545 PM	SPACEPORT-SIERRA	59 MPH PEAK WIND
APR 22 426 PM	DRIPPING SPRINGS-DONA ANA	59 MPH PEAK WIND
APR 22 355 PM	LORDSBURG PLAYA MM12-HIDALGO	59 MPH PEAK WIND
APR 22 819 PM	HIGH ROLLS-OTERO	56 MPH PEAK WIND
APR 22 550 PM	DEMING AIRPORT-LUNA	55 MPH PEAK WIND
APR 22 615 PM	SILVER CITY MTN VIEW-GRANT	53 MPH PEAK WIND
APR 22 555 PM	GRANT CO AIRPORT-GRANT	52 MPH PEAK WIND
APR 22 948 PM	EL PASO INTL AIRPORT-EL PASO	51 MPH PEAK WIND
APR 26 1030 PM	SANTA TERESA 1WNW-DONA ANA	1.75 INCH HAIL

Selected Weather Reports April 2022

Date/Time	Location (County)	Event
APR 26 1035 PM	LA UNION 2SSE-DONA ANA	1.50 INCH HAIL
APR 26 1130 PM	SANTA TERESA 1WNW-DONA ANA	1.25 INCH HAIL
APR 26 1045 PM	SANTA TERESA 1NW-DONA ANA	1.00 INCH HAIL
APR 26 1032 PM	CANUTILLO 2SW-EL PASO	1.00 INCH HAIL
APR 26 1058 PM	ANTHONY 1NE-EL PASO	1.00 INCH HAIL
APR 26 1030 PM	SANTA TERESA 3W-DONA ANA	1.00 INCH HAIL

Special Features

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



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
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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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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
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	