

#### January 2021 Weather Summary

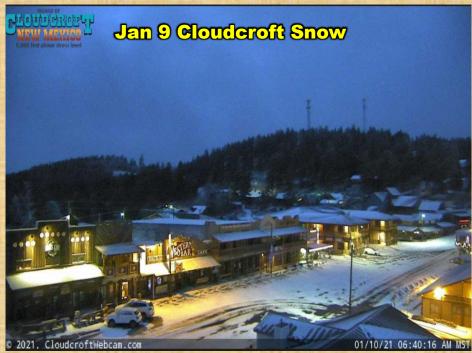
January turned out to be a relatively quiet month with most of the weather limited to the last week of the month, as a series of Pacific storms finally reached the area. The month on the whole was near normal to slightly below normal with temperatures, while precipitation was once again below normal, as is often the case during a La Niña seasonal pattern.

The first half of the month was very dry, with temperatures above normal. The second half of the month finally seen a bit more action. On the Jan 20-21, a Pacific storm moved across northern Mexico and far southern New Mexico, spreading light rain along the International Border. On Jan 24-26, two Pacific storms passed across central New Mexico. The first one brought some light snow to area mountains. The second, much larger storm, brought some light rain to the lowlands and heavy snow to the mountains. Snowfall of 6 to 10 inches was common across most of the mountain areas. This surge of moisture in the last week of the month kept the month from being extremely dry. As it was, drought conditions continued to slowly deteriorate with the lack of precipitation. Most of the Borderland is now in extreme to exceptional drought conditions.

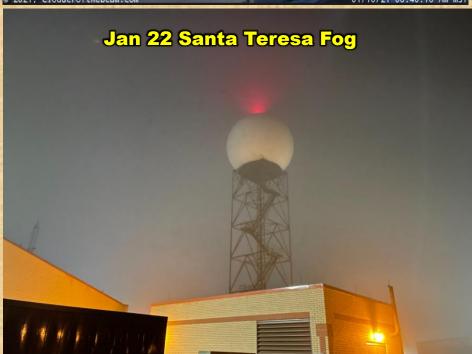
### January 2021 Weather Summary, cont'd

Looking ahead to February, daylight and warming continue. The length of daylight on the 1st is 10 hours and 41 minutes, increasing to 11 hours and 29 minutes of daylight on the 28th. The normal high in El Paso begins the month at 60 degrees and finishes the month at 66 degrees. Though we start to warm up noticeably, events like February of 2011 remind us it can still get quite cold during the month. The first four days of that month saw temperatures extremely below normal, culminating with a low of 1 above on February 3rd. Most other sites around the area fell below zero.

For lunar fans out there, the full moon will occur on the 27th, while the new moon occurs on the 11th.

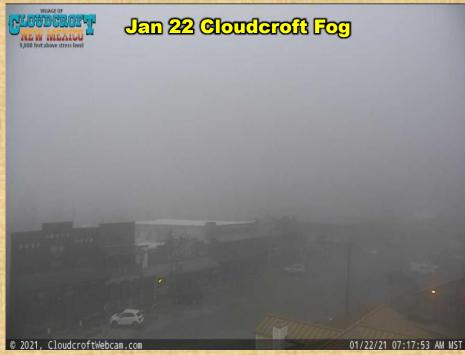












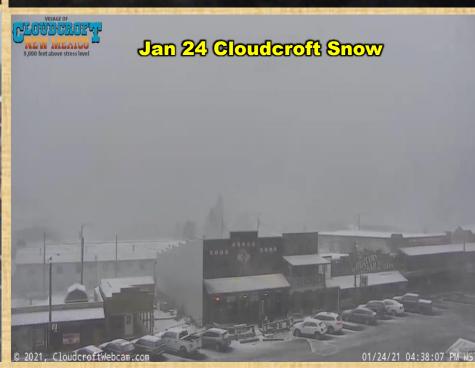








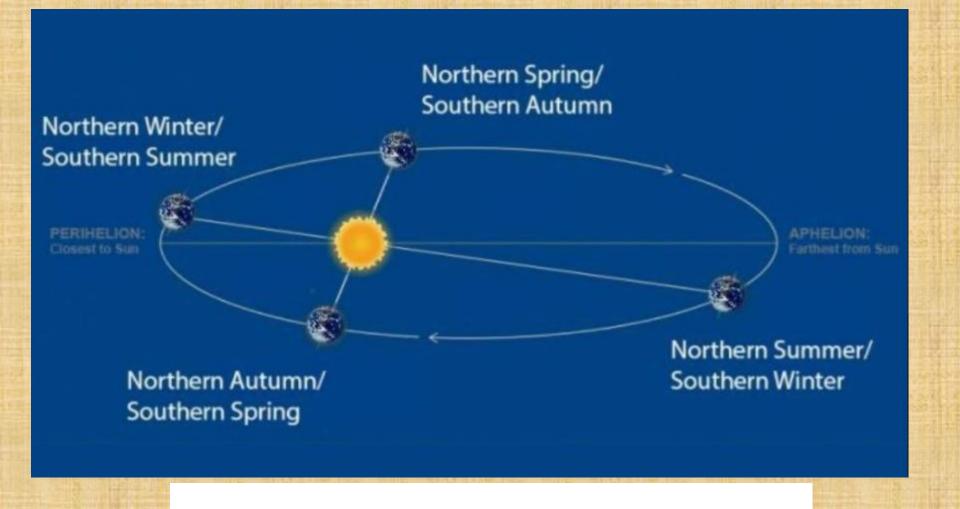












Happy Perihelion Day! This is the day when the Earth makes it's closest approach to the Sun. Today we are 91,399,454 miles (147,098,074 km) away from the sun. In June at aphelion we will be 94,510,886 miles (152,097,701 km) away. So why is it so cold? The tilt of the Earth on it's axis causes the changing of the seasons. That is also why the Southern hemisphere has summer while the northern hemisphere has winter.

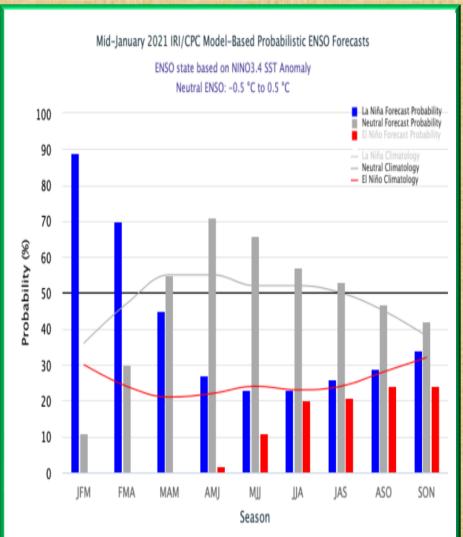
## ENSO Alert System Status: La Niña Advisory

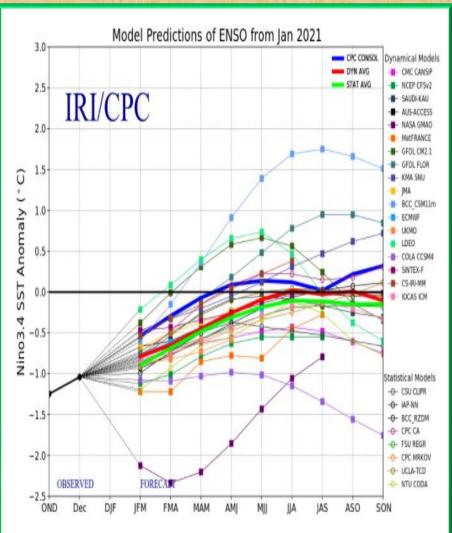
### **ENSO Alert System**

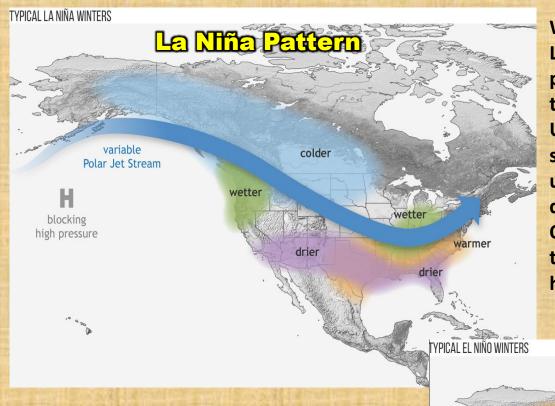
- ➤ El Niño or La Niña Watch: Issued when conditions are favorable for the development of El Niño or La Niña conditions in the next six months.
- ➤ El Niño or La Niña Advisory: Issued when El Niño or La Niña conditions are observed and expected to continue.

#### ENSO Forecast

ENSO is now in a moderate La Niña phase, though expected to lessen to weak phase soon; ENSO probably back to neutral by end of spring

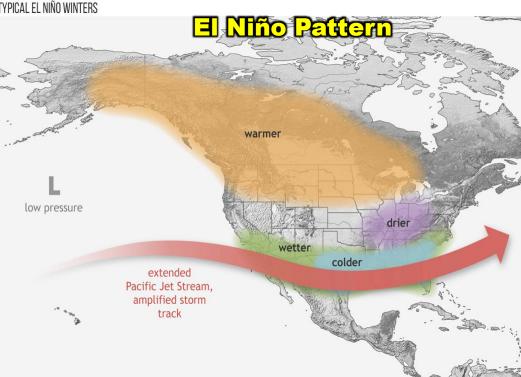


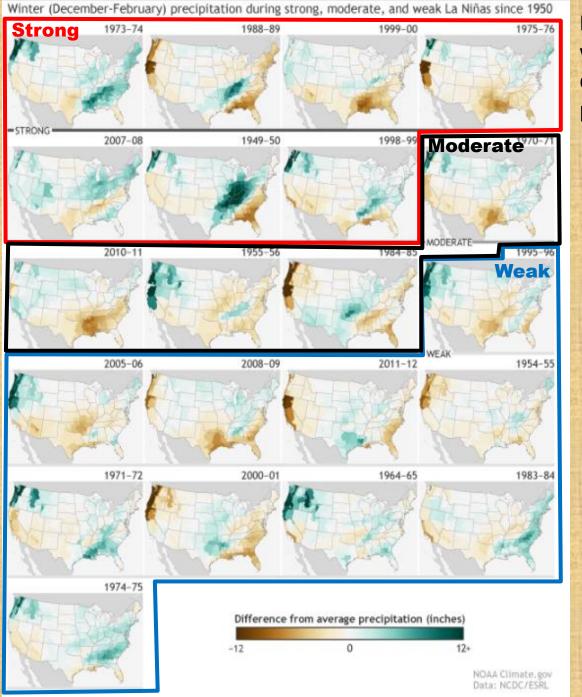




We are heading into a weak to moderate
La Niña for much of this winter. As the
pattern shows, a ridge of high pressure
tends to build off the west coast of the
U.S., blocking most of our Pacific winter
storm systems. These storms tend to end
up moving across the northern Plains and
down to the southeastern 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 southwestern U.S. above normal precipitation.



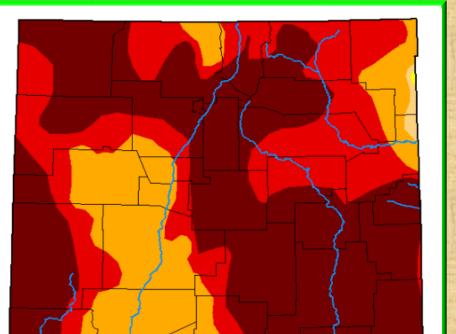


Examples of the numerous La Niña winters since 1950. These maps depict the departure from normal precipitation amounts for a winter.

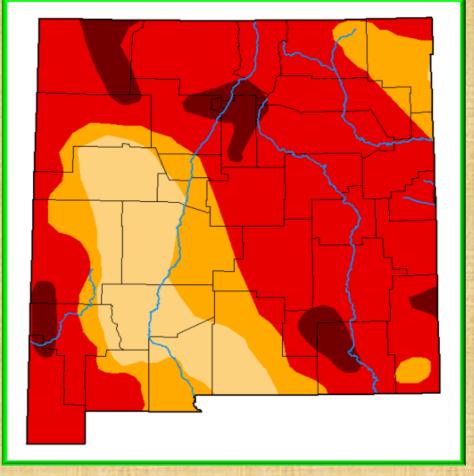
## **Current drought conditions for New Mexico and 3 month change**

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

#### **January 26, 2021**



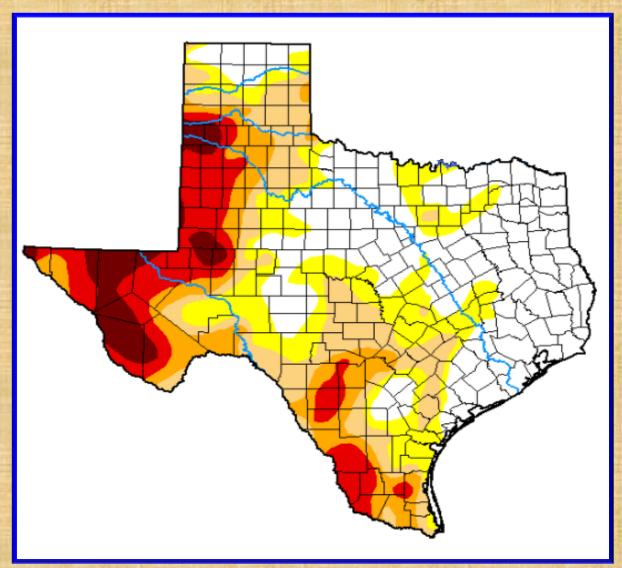
#### **October 27, 2020**



#### **Current drought conditions for Texas as of January 26, 2021**



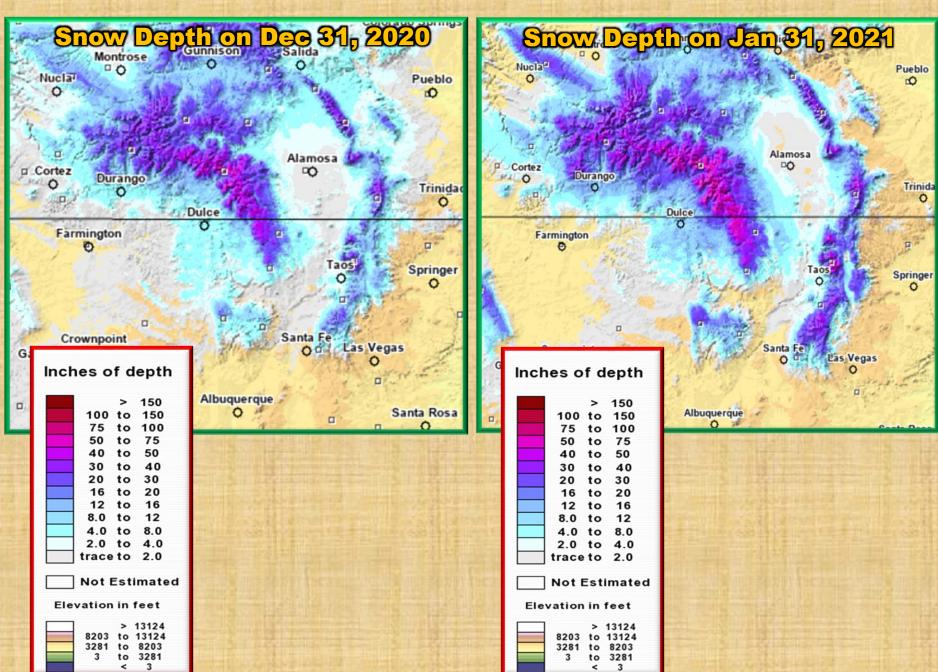
- DO Abnormally Dry
  - D1 Moderate Drought
  - D2 Severe Drought
- 3 Extreme Drought
- 04 Exceptional Drought



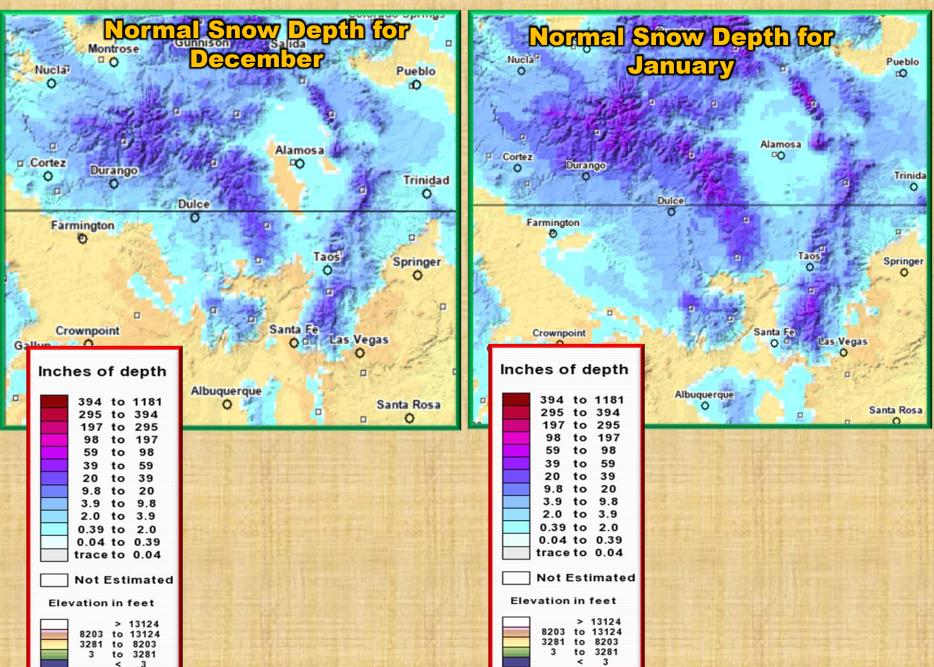
**Build your own custom slider maps here at:** 

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

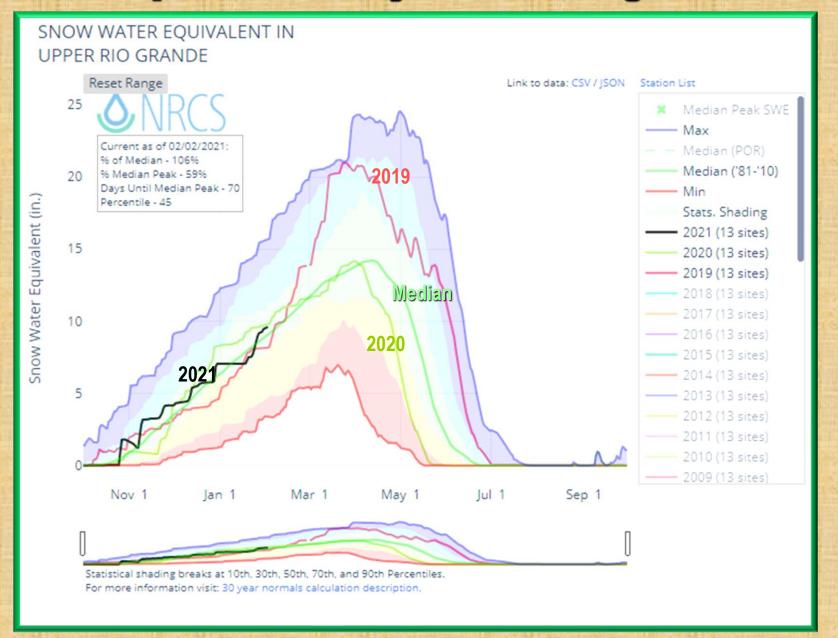
#### Snow Data Upper Rio Grand Basin as of January 31, 2021

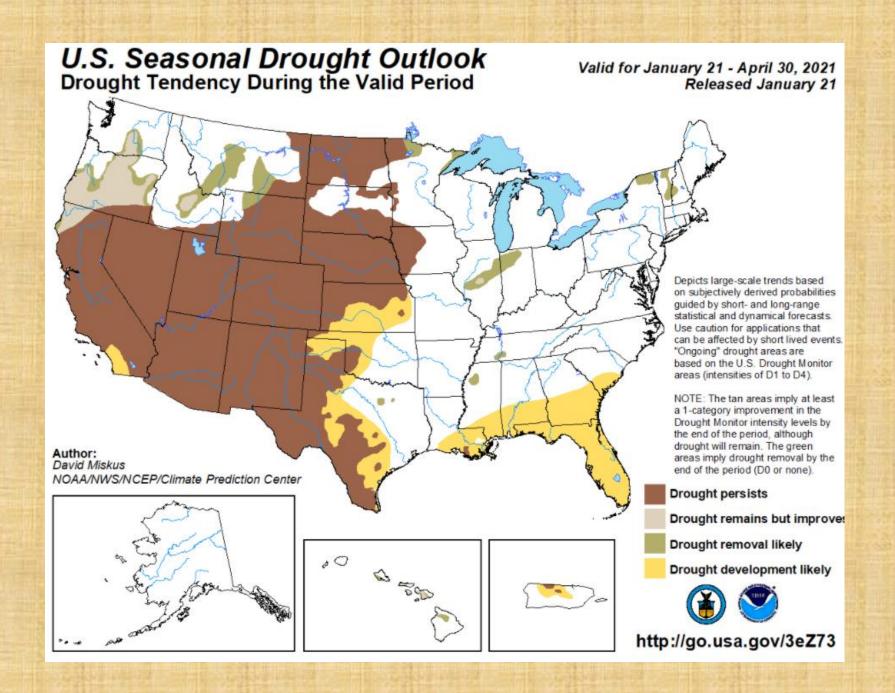


#### Snow Data Upper Rio Grand Basin as of January 31, 2021

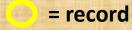


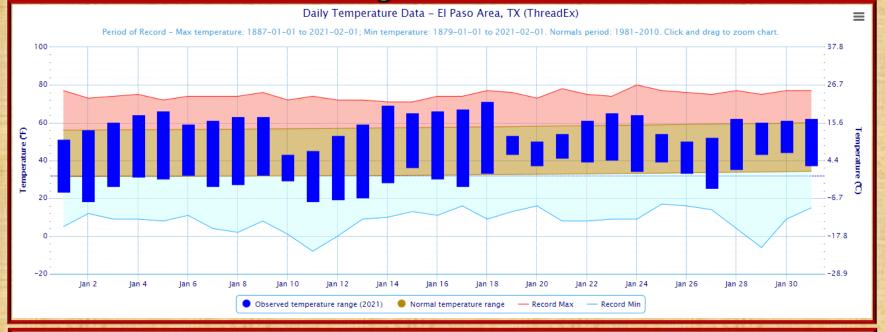
## Snow Water Equivalent as of Jan 31, 2020 Compare to last few years and average values

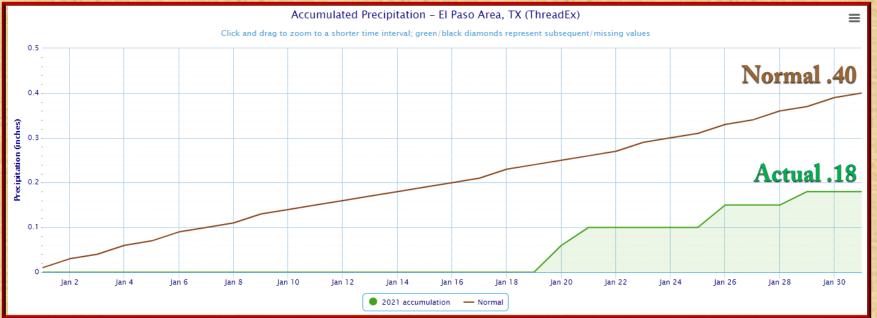




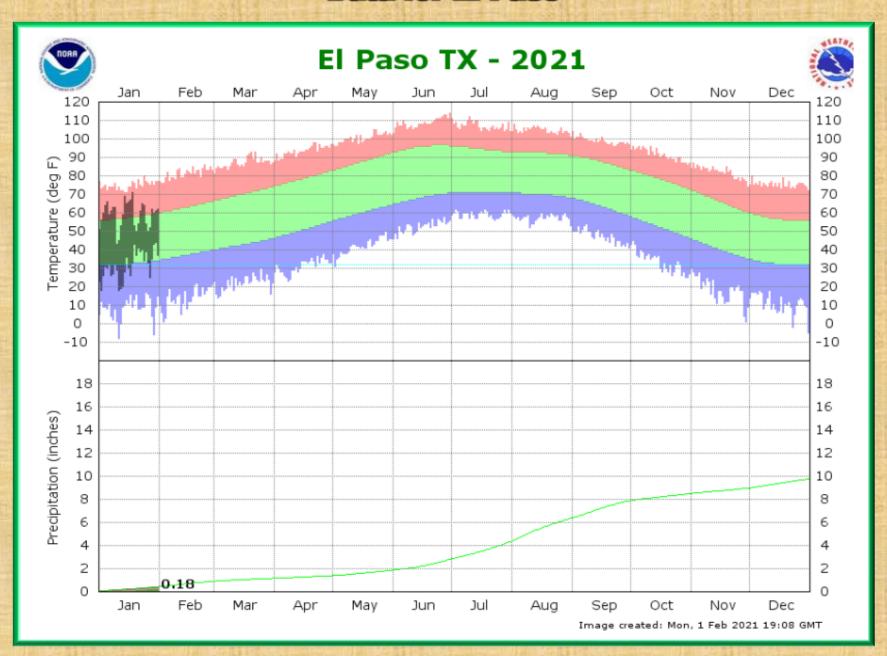
## Temperature and precipitation data for January 2021 in El Paso







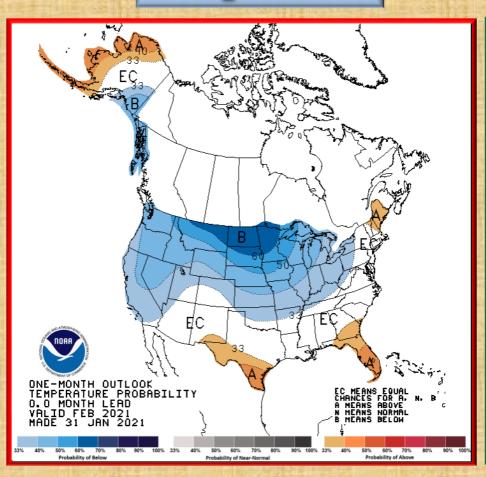
## 2021: Temperature and Precipitation Data for El Paso

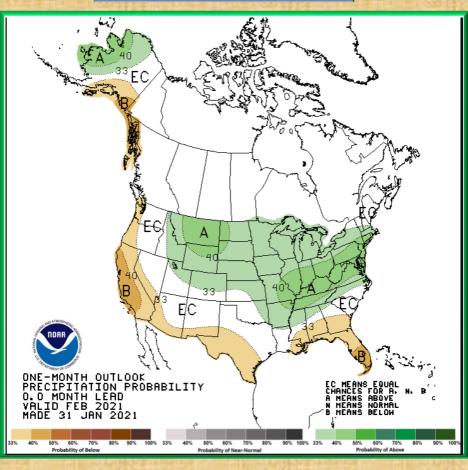


# Temperature and precipitation outlook for February 2021

**Temperature** 

**Precipitation** 

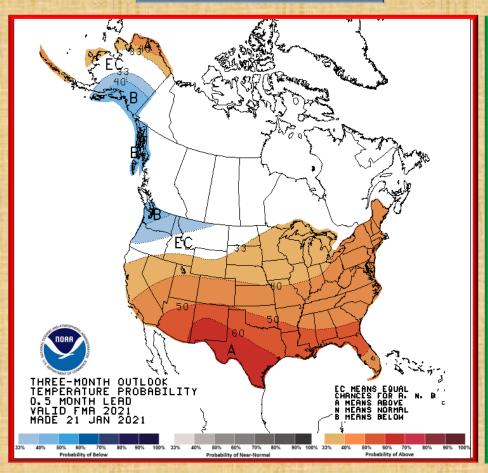


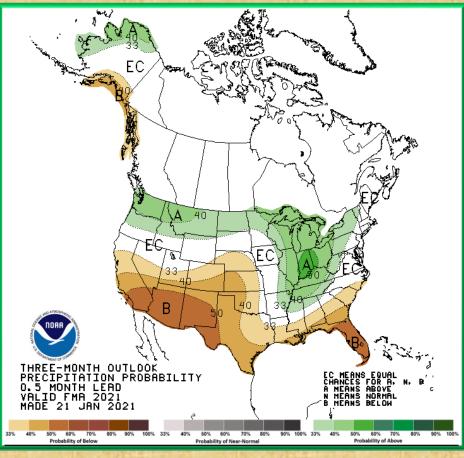


# Temperature and precipitation outlook For February-April 2021

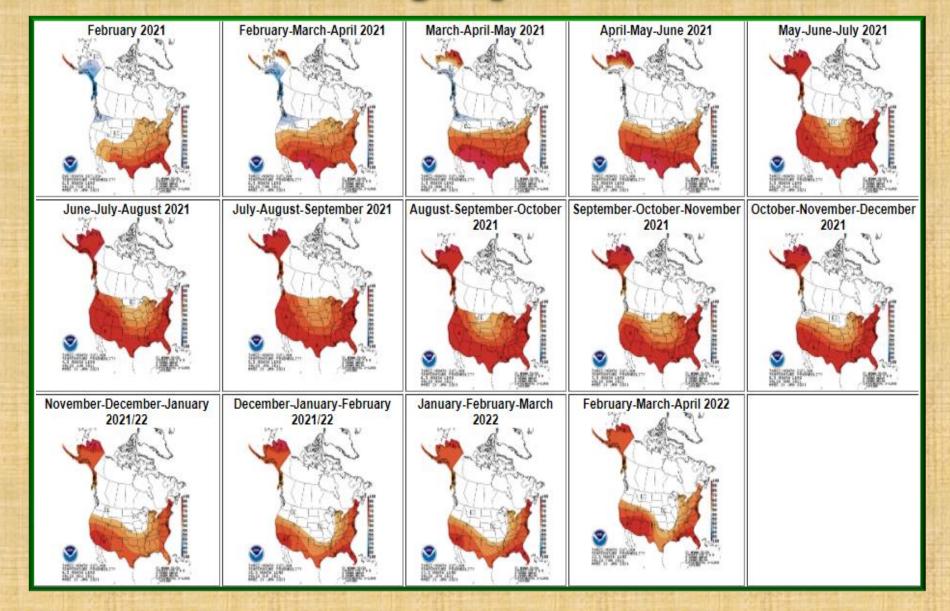
**Temperature** 

Precipitation

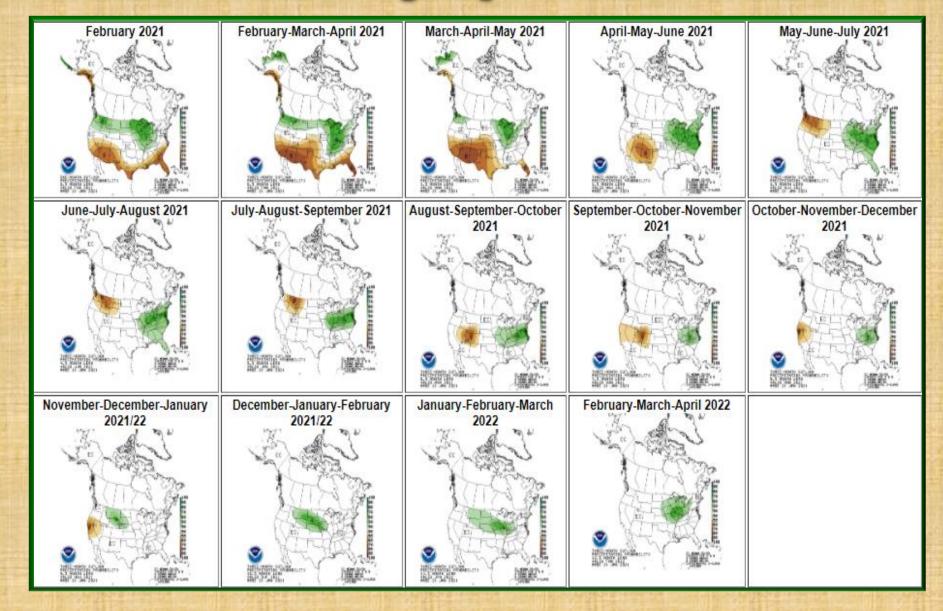




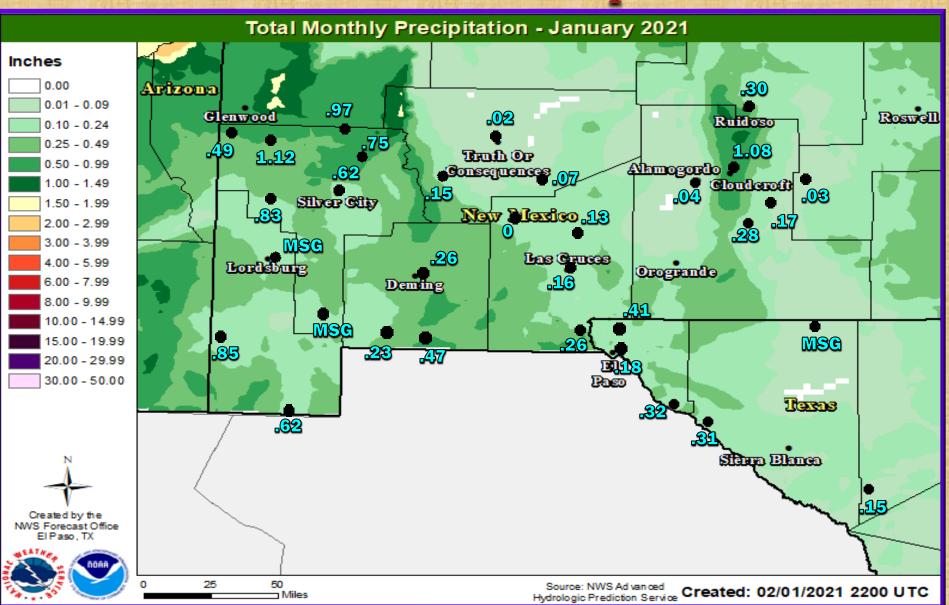
# Temperature Outlook Through April 2022



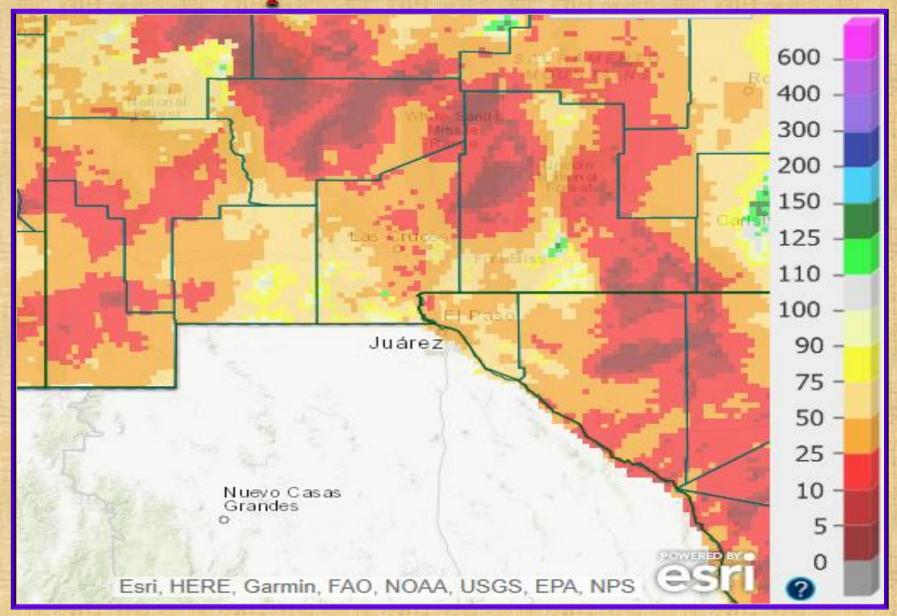
# Precipitation Outlook Through April 2022



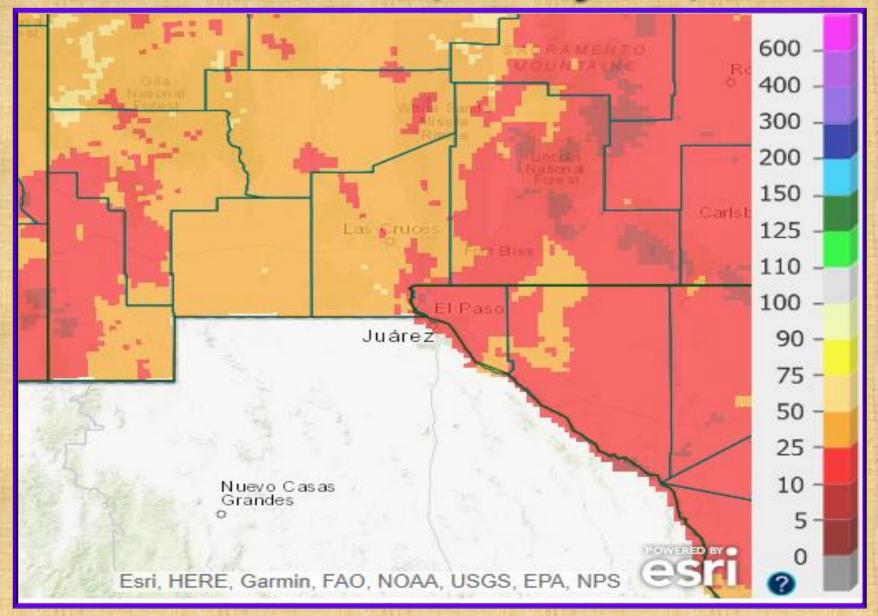
# January 2021 radar rainfall estimate with surface rainfall reports



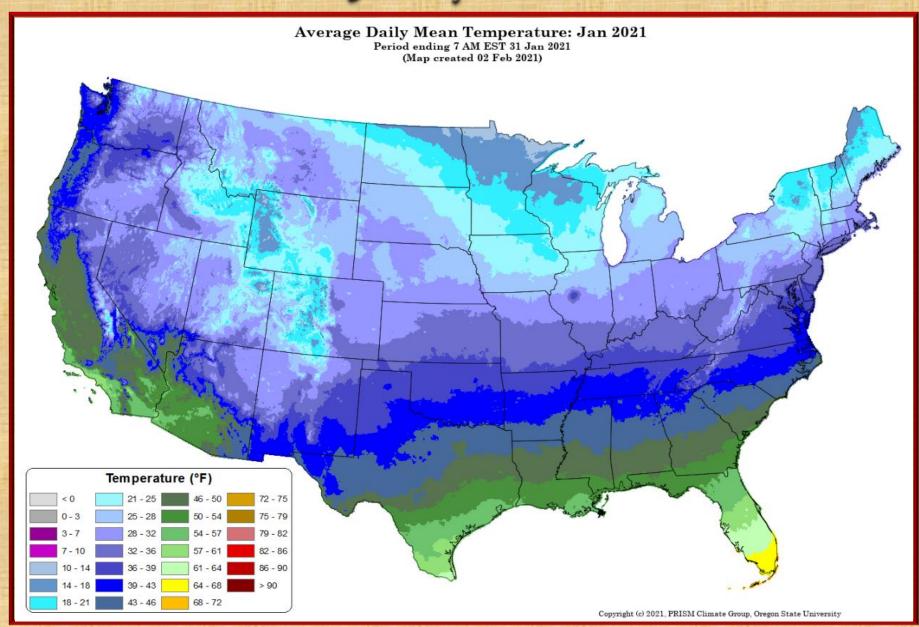
# January 2021 radar rainfall estimate percent of normal



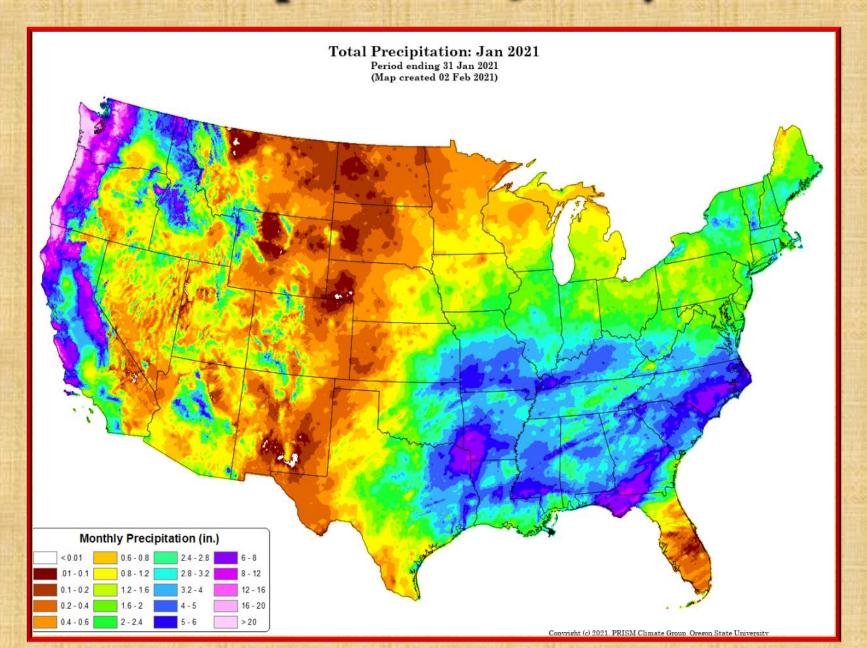
# Radar rainfall estimate percent of normal for the Water Year (Oct 1 – Jan 31)



## Average Daily Mean Temperature for January 2021



### Total Precipitation for January 2021

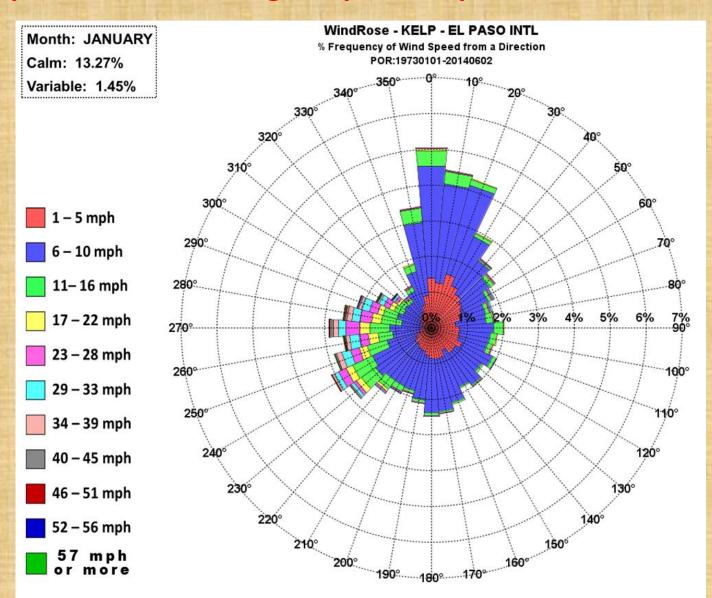


### Selected weather reports January 2021

Date/Time	Location (County)	Event
JANUARY 26 700 AM	SILVER CITY 1SW-GRANT	8.5 INCHES OF SNOW
JANUARY 26 630 AM	SUNSPOT-OTERO	7.6 INCHES OF SNOW
JANUARY 26 700 AM	TYRONE 3SW-GRANT	7.0 INCHES OF SNOW
JANUARY 26 700 AM	CLOUDCROFT-OTERO	6.0 INCHES OF SNOW
JANUARY 26 700 AM	GILA HOT SPRINGS-GRANT	5.5 INCHES OF SNOW
JANUARY 26 700 AM	HANOVER 9NE-GRANT	5.0 INCHES OF SNOW
JANUARY 26 800 AM	WINSTON 1SE-SIERRA	3.0 INCHES OF SNOW

## Special Features

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





Local forecast by "City, St" or ZIP code

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 >

Location Help **NWS EI Paso** El Paso, TX Weather.gov > El Paso, TX Weather Forecast Office Customize Your Weather.gov Current Hazards Current Conditions Radar Forecasts Rivers and Lakes Climate and Past W City, ST Today ZIP Code Remember Me Wednesday Weather Forecast Office El Paso, TX Warmer with a Few Artinoon Storms September 27, 2016 4:43 PM Get Weather Local forecast by "City, St" or ZIP code 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 Enter location .. Go Appalachians. Click the "Read More" link for excessive rainfall forecasts from the Weather Prediction Center. Afternoon showers and Location Help thunderstorms are possible over portions of the Southwest and southern Rockies through Friday. Read More > Monthly Weather Digest El Paso, TX Customize Weather.gov > El Paso, TX > Monthly Weather Diges Dell City 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 Enter Your City, ST or veather 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 erra Blanca Get Weather 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 Digest Southwest Weather Bulletins January 2005 Spring Fall February 2006 Spring Fall March 2007 Spring Fall 2008 Spring Fall April May 2009 Spring Fall June 2010 Spring Fall July 2011 Spring Fall 2012 Spring Fall August 2013 Spring Fall September 2014 Spring Fall October November December

weather.gov/epz

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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.

