December 2023 Weather Digest



December 2023 Weather Summary

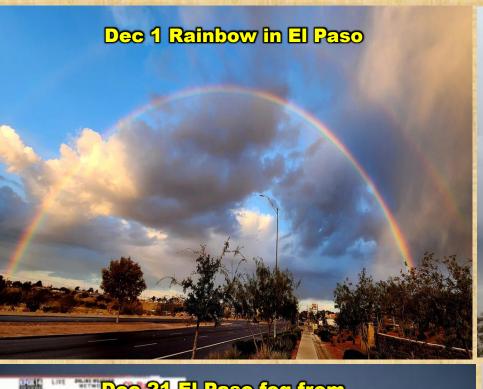
December started out slow as most Pacific storms remained to our north. With this dry stretch, as is often the case, temperatures were well above normal. Average temperatures for the month ranged from about 1 to 3 degrees above normal. The Pacific storms finally reached down to our area toward the end of the month. Strong sub-tropical flow ahead of a Pacific storm brought some much needed moisture to most of the area on the 20th. The rain left the ground saturated over much of the area, which lead to unusually dense fog in many areas on the morning of the 21st. The main storm then moved over the area a couple of days later for some more rain. This storm helped spawn several strong thunderstorms across areas from Deming to Radium Springs and over to Alamogordo.

Overall, the monthly precipitation was below normal for much of the area. From west to east, west Texas and Otero County were well below normal, Dona Ana and Luna Counties were slightly below normal, Sierra County was well above normal, and Grant and Hidalgo Counties were

December 2023 Weather Summary

well below normal. This put most of the area in extreme to exceptional drought conditions.

Looking ahead to January, length of daylight begins to accelerate up. Daylight on the 1st is 10 hours, 7 minutes, and by the 31st the length of daylight increases to 10 hours, 39 minutes. Time of sunrise peaks on January 9th. The sunrise time then begins to decrease. Temperatures begin a steady climb with the increasing daylight. At El Paso the average high temperature on the 1st is 57 degrees, warming to 61 degrees on the final day of January. The Full Moon for January occurs on the 25th, also known as the Wolf Moon. The Quadrantid Meteor shower is on full display the first week of January.

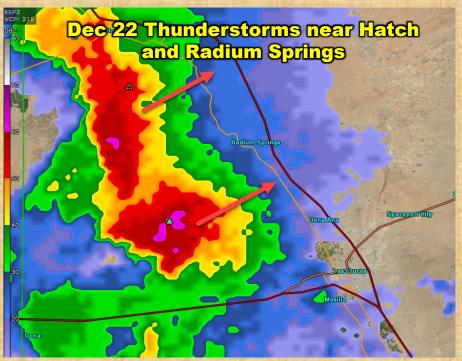












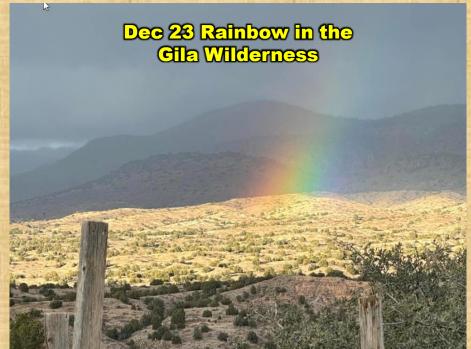


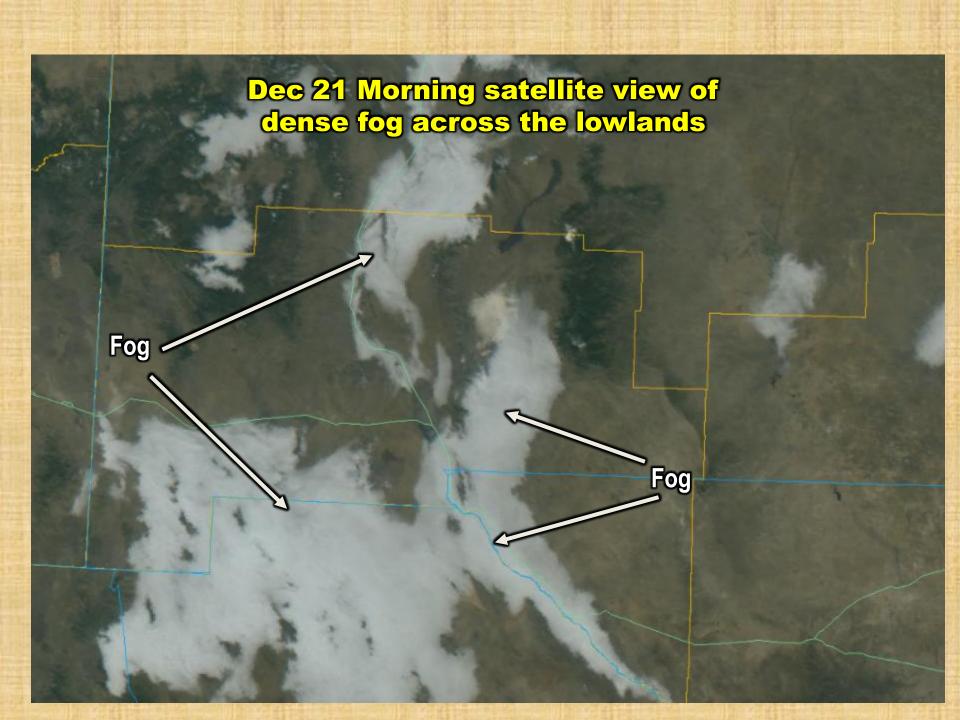


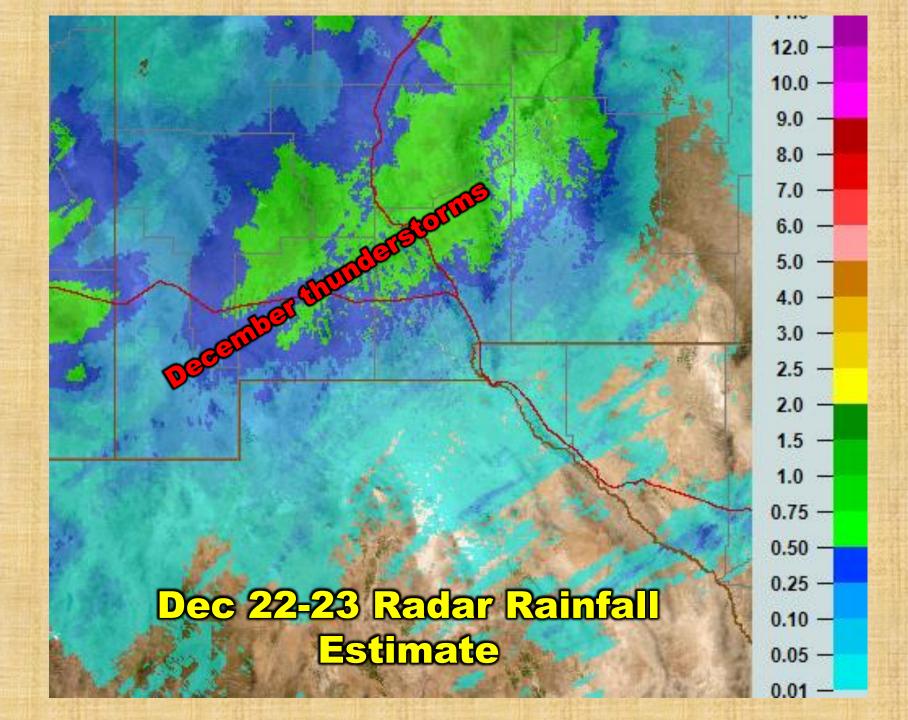












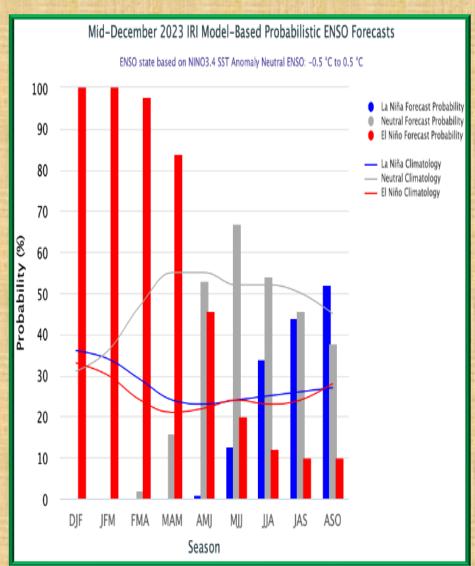
ENSO Alert System Status: El Niño Advisory is in Effect

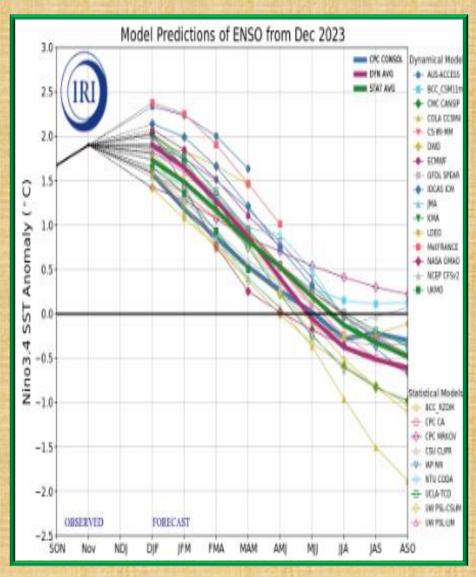
ENSO Alert System

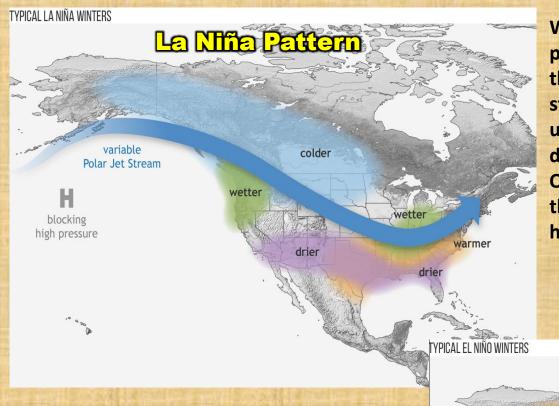
- ► El Niño or La Niña Watch: Issued when conditions are favorable for the development of El Niño or La Niña conditions in the next six months.
- ➤ El Niño or La Niña Advisory: Issued when El Niño or La Niña conditions are observed and expected to continue.

ENSO Forecast

ENSO is in strong El Niño status and is expected to last into spring before transitioning to neutral for the summer of 2024.

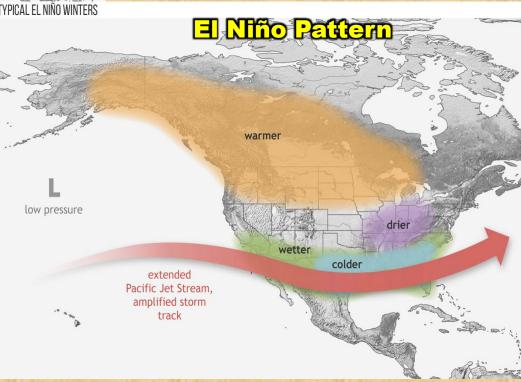






With a La Niña pattern, a ridge of high pressure tends to build off the west coast of the U.S., blocking most of our Pacific winter storm systems. These storms tend to end up moving across the northern Plains and down to the southeastern part of the country. Of course it is important to remember that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

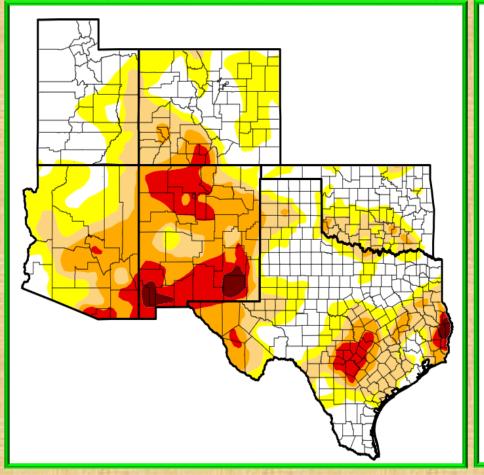


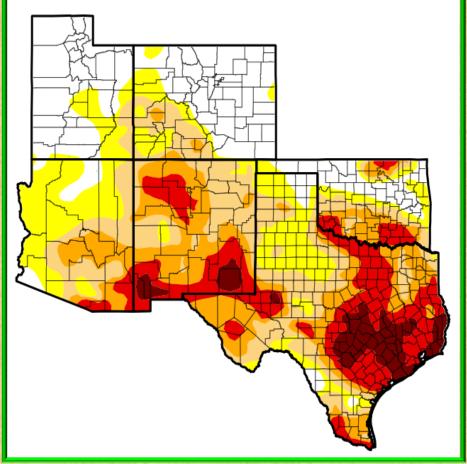
Current drought conditions and 3 month change

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

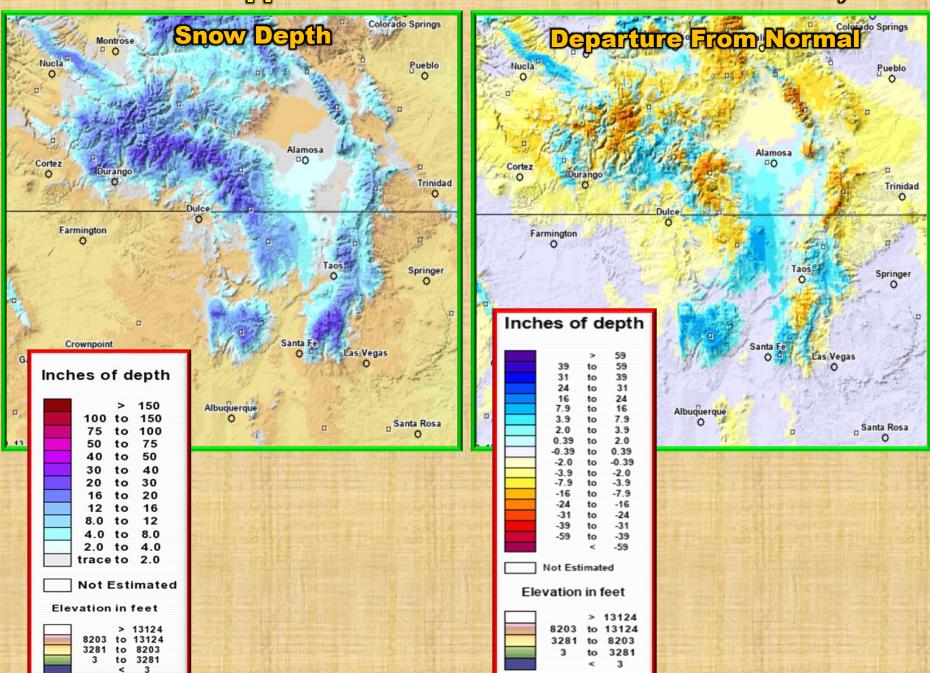
Dec 26, 2023

Sep 26, 2023

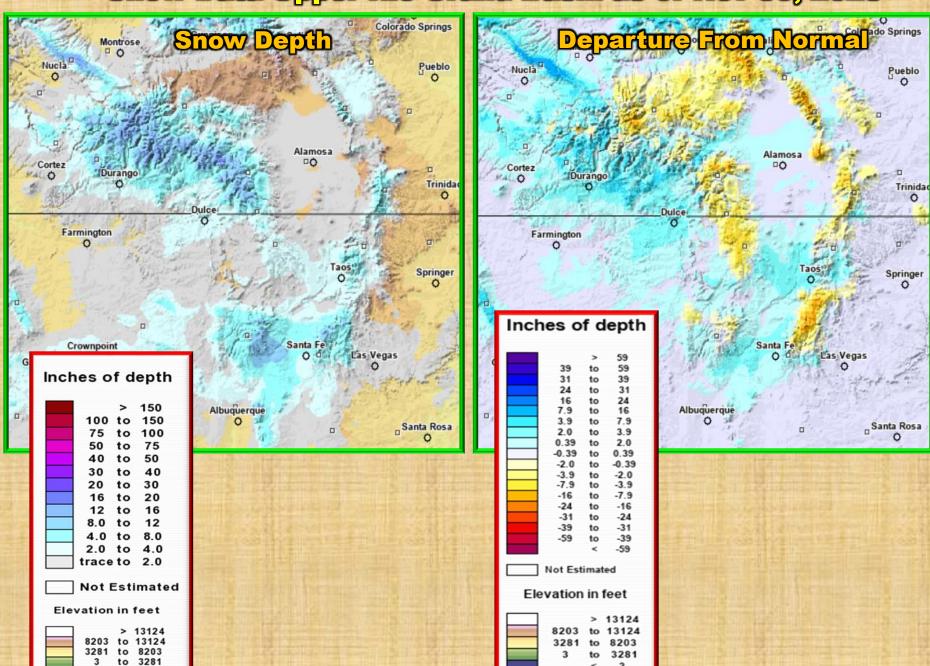




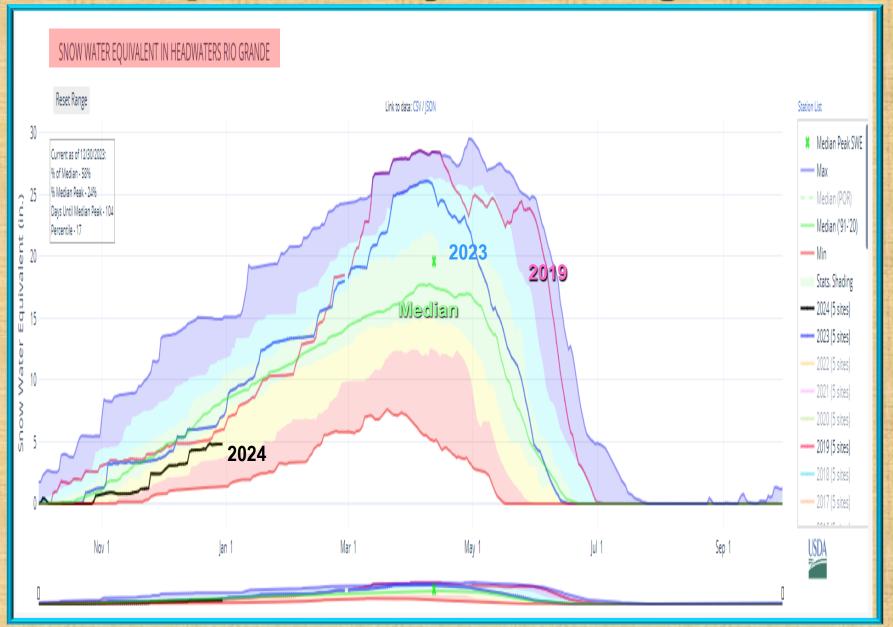
Snow Data Upper Rio Grand Basin as of December 31, 2023



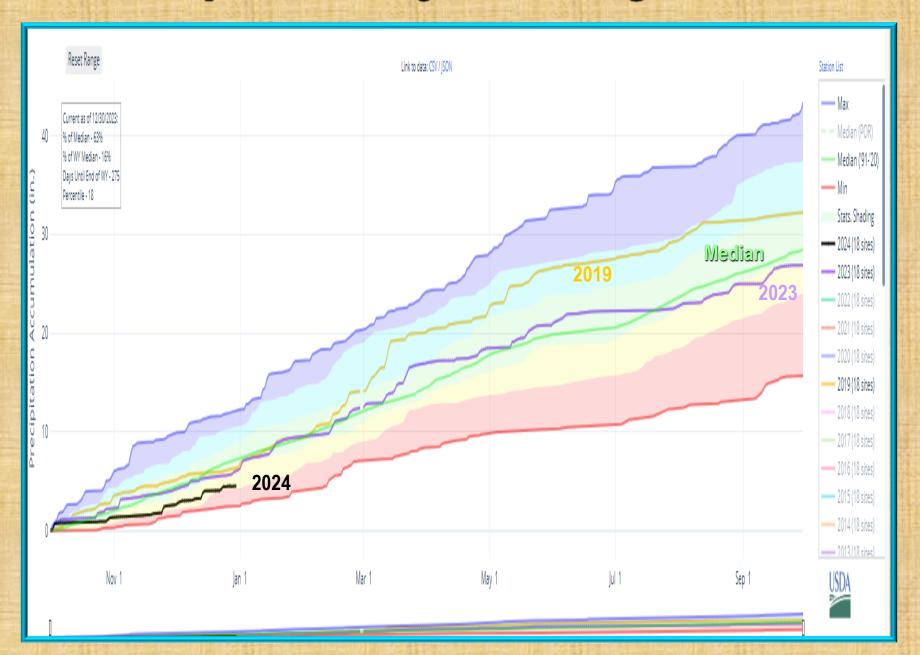
Snow Data Upper Rio Grand Basin as of Nov 30, 2023



Snow Water Equivalent as of December 31, 2023 Compare to last few years and average values



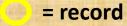
Precipitation for the Water Year Oct 1 - Dec 31, 2023 Compare to last few years and average values

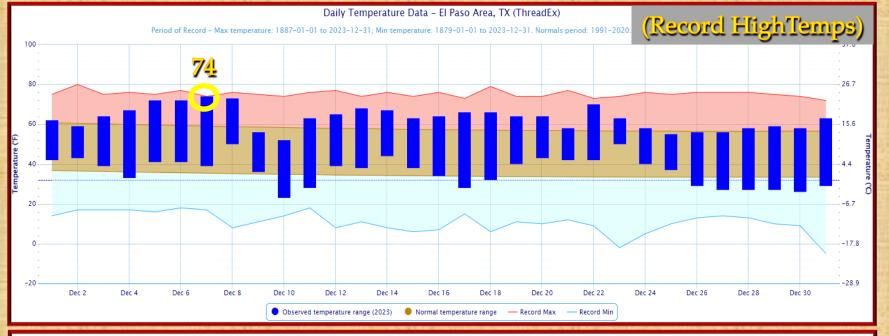


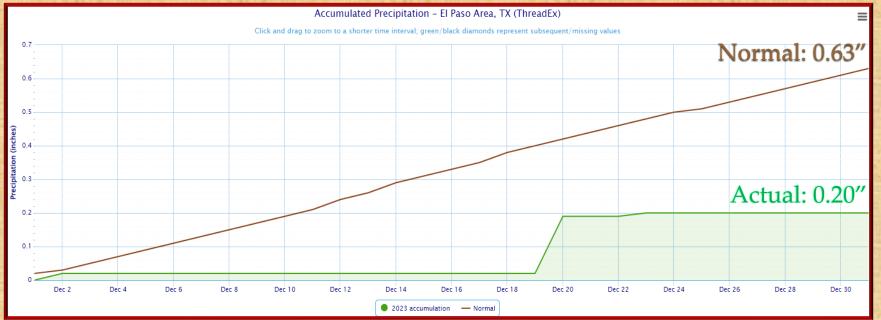
U.S. Seasonal Drought Outlook Valid for December 21, 2023 - March 31, 2024 **Drought Tendency During the Valid Period** Released December 21, 2023 Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for 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 Hartman **Drought persists** NOAA/NWS/NCEP Climate Prediction Center Drought remains, but improves **Drought removal likely** Drought development likely No drought

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

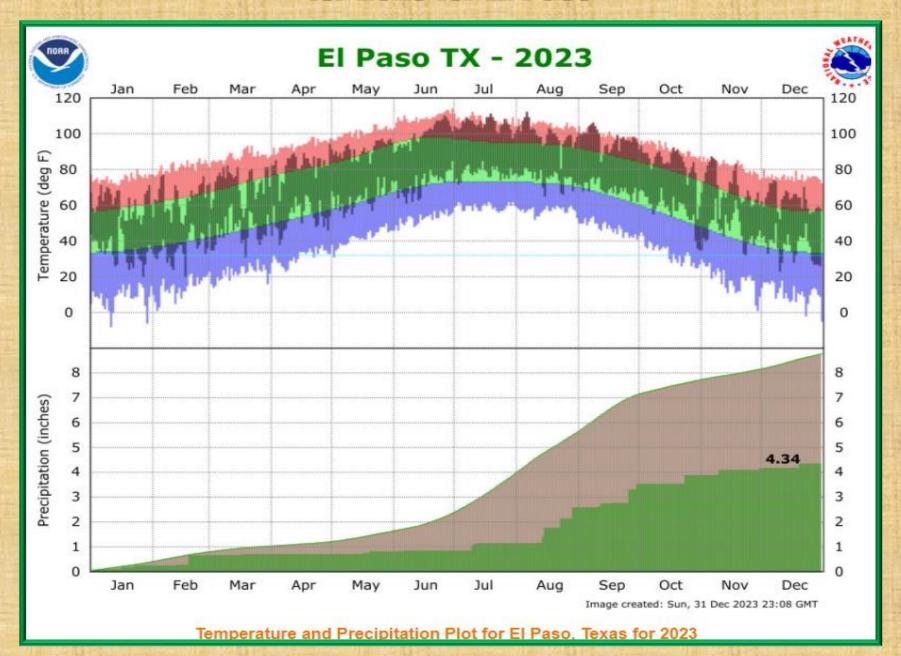
Temperature and precipitation data for December 2023 in El Paso



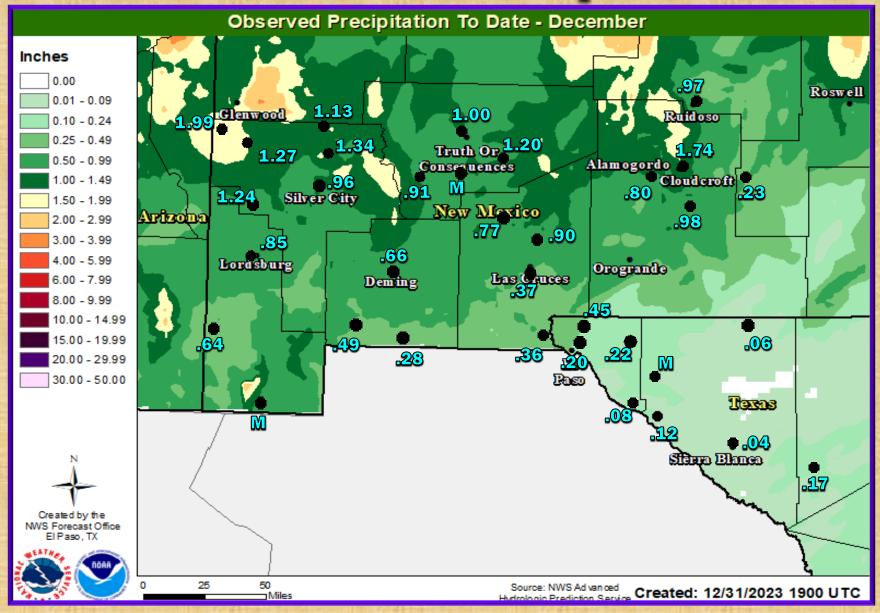




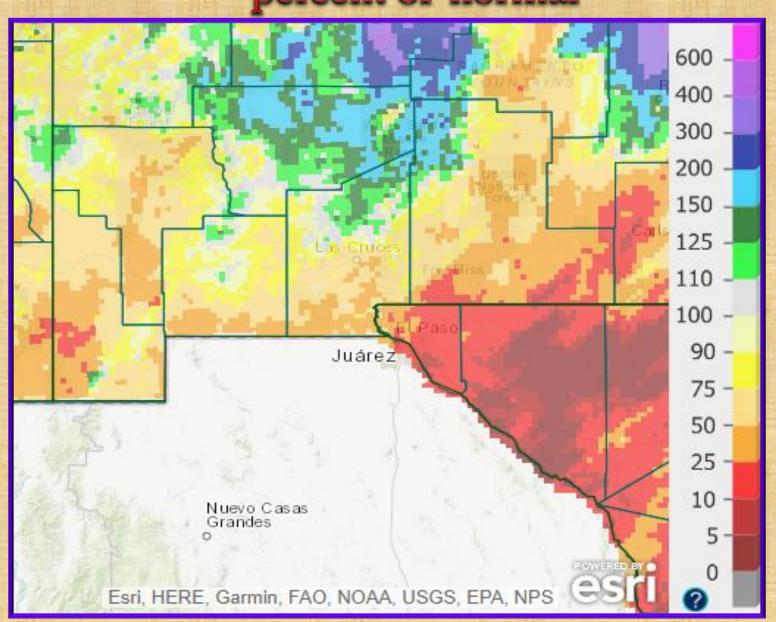
Temperature and Precipitation for 2023 for El Paso



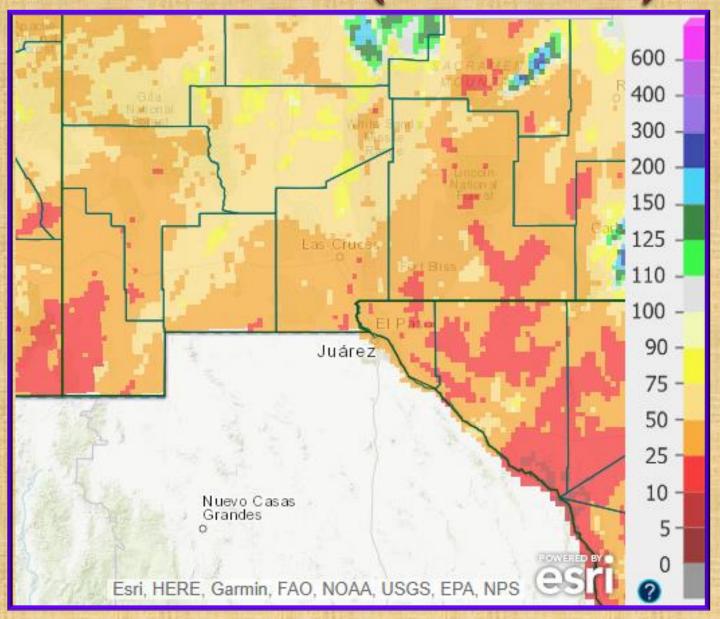
December 2023 radar rainfall estimate with surface rainfall reports



December 2023 rainfall estimate percent of normal



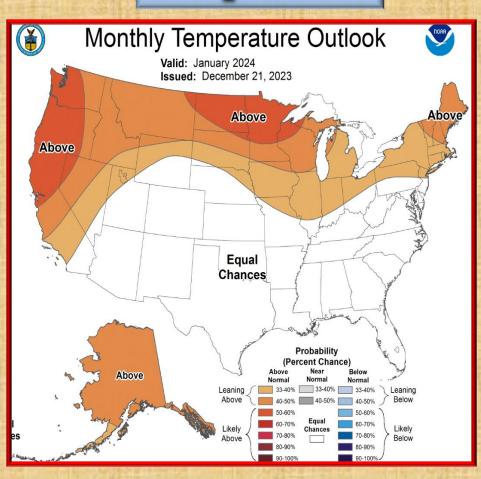
Radar rainfall estimate percent of normal for the Water Year (Oct 1 – Dec 31)

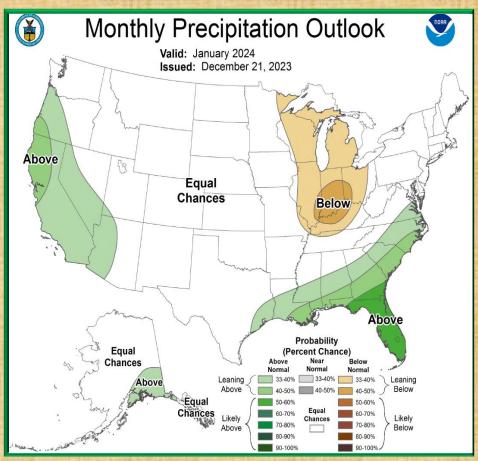


Temperature and precipitation outlook For January 2024

Temperature

Precipitation

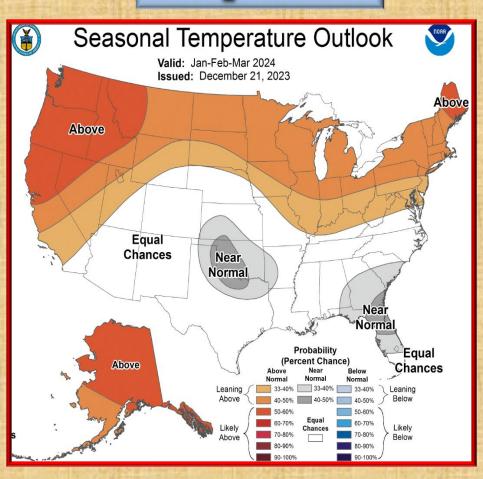


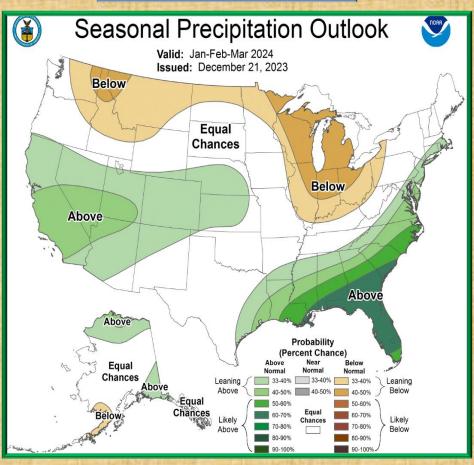


Temperature and precipitation outlook for Jan-Mar 2024

Temperature

Precipitation

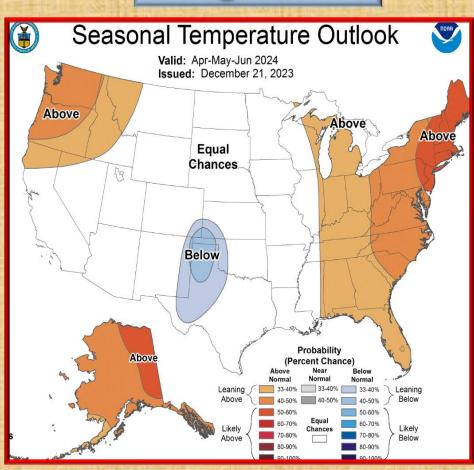


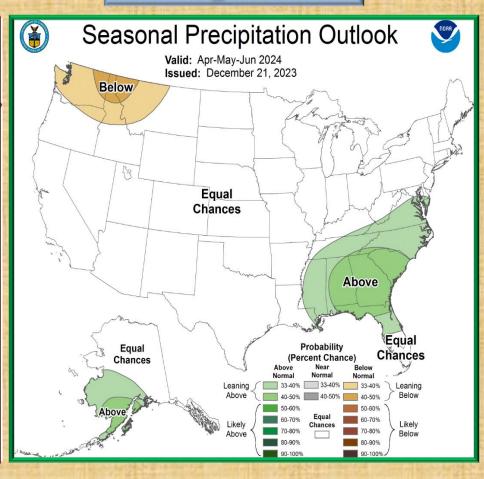


Temperature and precipitation outlook for Apr-Jun 2024

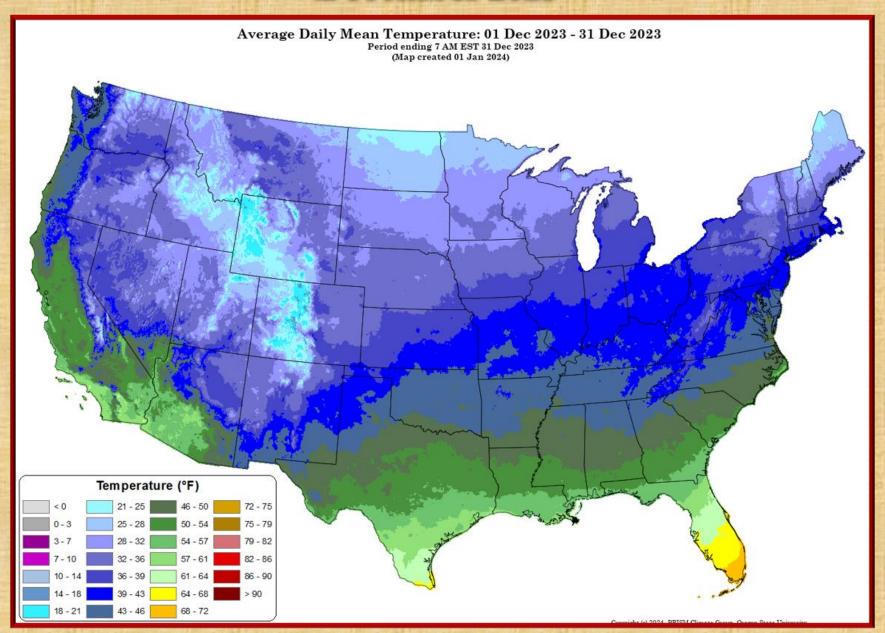
Temperature

Precipitation

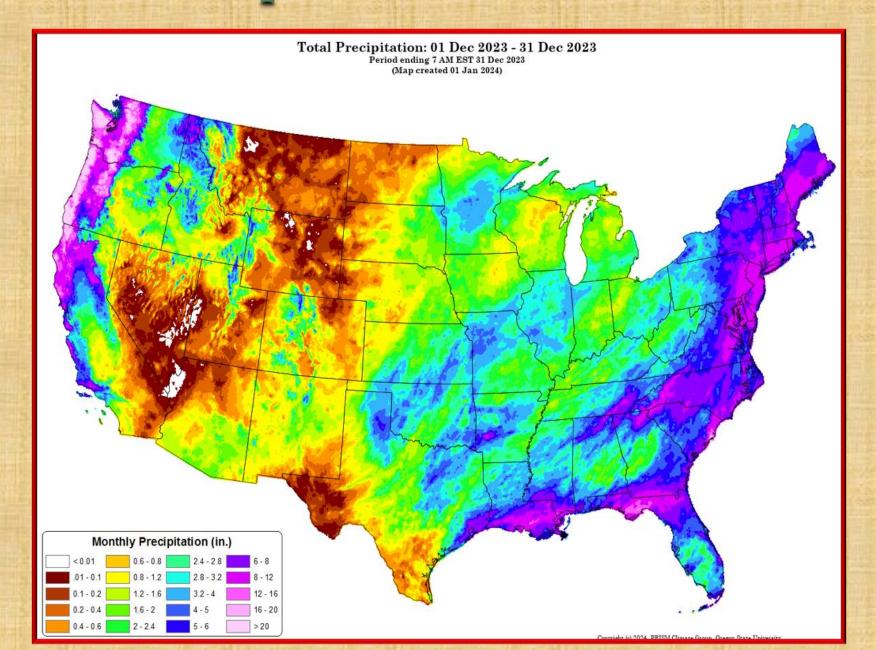




Average Daily Mean Temperature for December 2023



Total Precipitation for December 2023



Selected Weather Reports December 2023

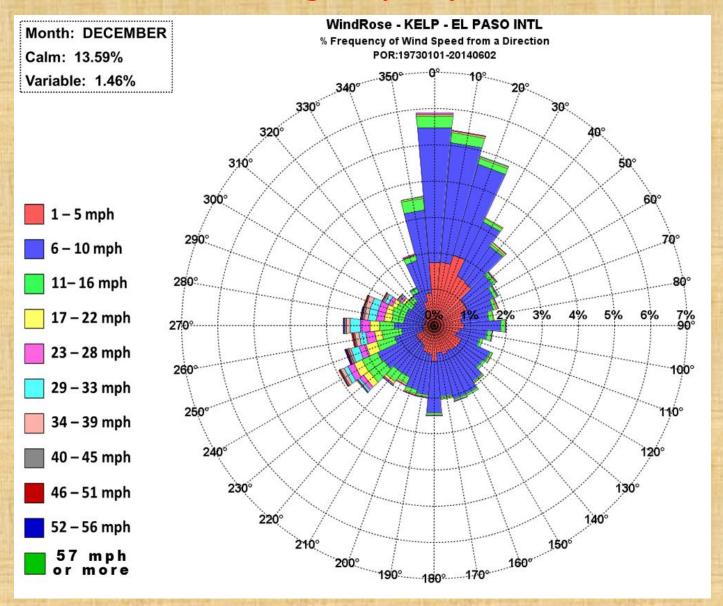
Date/Time	Location (County)	Event
DEC 23 705 PM	JORNADA RANGE-DONA ANA	1.52" 3-DAY RAIN TOTAL
DEC 23 741 PM	MESCALERO-OTERO	1.40" 3-DAY RAIN TOTAL
DEC 23 800 AM	T OR C .5NE-SIERRA	1.38" 3-DAY RAIN TOTAL
DEC 23 749 PM	HANOVER 5NE-SIERRA	1.36" 3-DAY RAIN TOTAL
DEC 23 530 PM	BUCKHORN-GRANT	1.31" 3-DAY RAIN TOTAL
DEC 23 746 PM	LA LUZ-OTERO	1.28" 3-DAY RAIN TOTAL
DEC 23 800 AM	VIRDEN 1.6NW-HIDALGO	1.24" 3-DAY RAIN TOTAL
DEC 23 800 AM	RECROCK-GRANT	1.19" 3-DAY RAIN TOTAL
DEC 23 800 AM	SILVER CITY 2.6SE-GRANT	1.14" 3-DAY RAIN TOTAL
DEC 23 754 PM	LAKE ROBERTS-GRANT	1.00" 3-DAY RAIN TOTAL
DEC 23 745 PM	PINOS ALTOS-GRANT	.97" 3-DAY RAIN TOTAL
DEC 23 745 PM	ARREY-SIERR	.91" 3-DAY RAIN TOTAL

Selected Weather Reports December 2023

Date/Time	Location (County)	Event
DEC 23 746 PM	BELL CANYON-OTERO	.73" 3-DAY RAIN TOTAL
DEC 23 745 PM	TIMBERO-OTERO	.71" 3-DAY RAIN TOTAL
DEC 23 745 PM	LAS CRUCES SOUTHWIND-DONA ANA	.71" 3-DAY RAIN TOTAL
DEC 23 653 PM	DEMING AIRPORT-LUNA	.63" 3-DAY RAIN TOTAL
DEC 23 800 AM	ALAMOGORDO 2.4NE	.61" 3-DAY RAIN TOTAL

Special Features

www.weather.gov/epz/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 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 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 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.gov/epz

WEATHER DIGESTS AND BULLETINS		
Weather Digest	Southwest Weather Bulletins	
<u>January</u>	2005 Spring Fall	
<u>February</u>	2006 Spring Fall	
<u>March</u>	2007 Spring Fall	
April	2008 Spring Fall	
May	2009 Spring Fall	
June	2010 Spring Fall	
<u>July</u>	2011 Spring Fall	
August	2012 Spring Fall	
September	2013 Spring Fall	
October	2014 Spring Fall	
<u>November</u>		
December		

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