

Weekly Climate Summary: 1/7/2024-1/13/2024

Climate in the News:

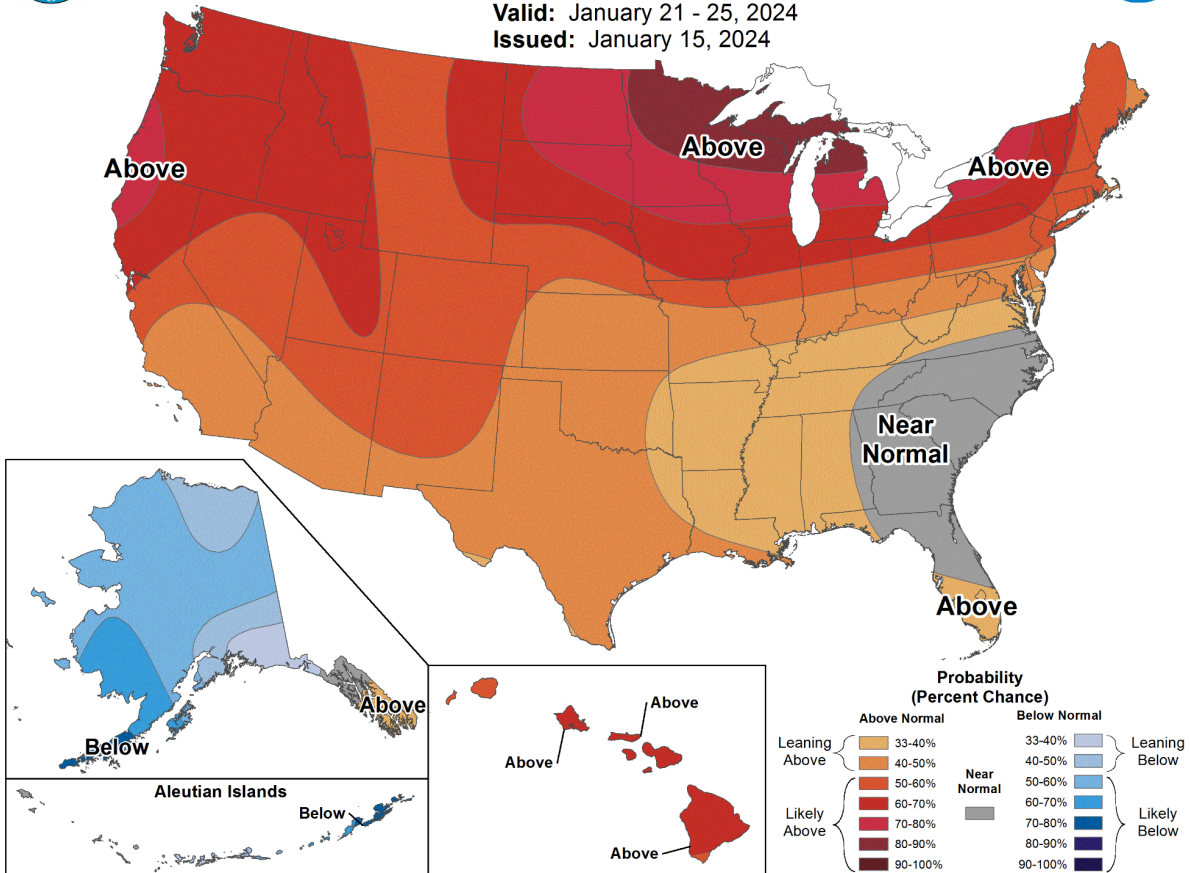
As powerful storm systems tracked across the United States, an active weather pattern took aim at the State of Texas. Intense winds, severe weather, and remarkable temperature swings characterized much of the past week. As we look ahead, the week beginning January 14 looks to begin with very cold conditions across the State. Wintry weather across North and central Texas appears poised to disrupt many routines of daily living as the extremely cold temperatures pair with an upper level-disturbance to produce light ice and snow accumulations across a good portion of Texas. A secondary arctic air intrusion should hold temperatures below average for the remainder of this week. However, as we look farther ahead, we see that abnormally warm conditions are likely to envelop Texas. The upcoming week looks rather dry across the state, but by the final week of January, a fairly wet period is forecast to set up.



6-10 Day Temperature Outlook



Valid: January 21 - 25, 2024
Issued: January 15, 2024

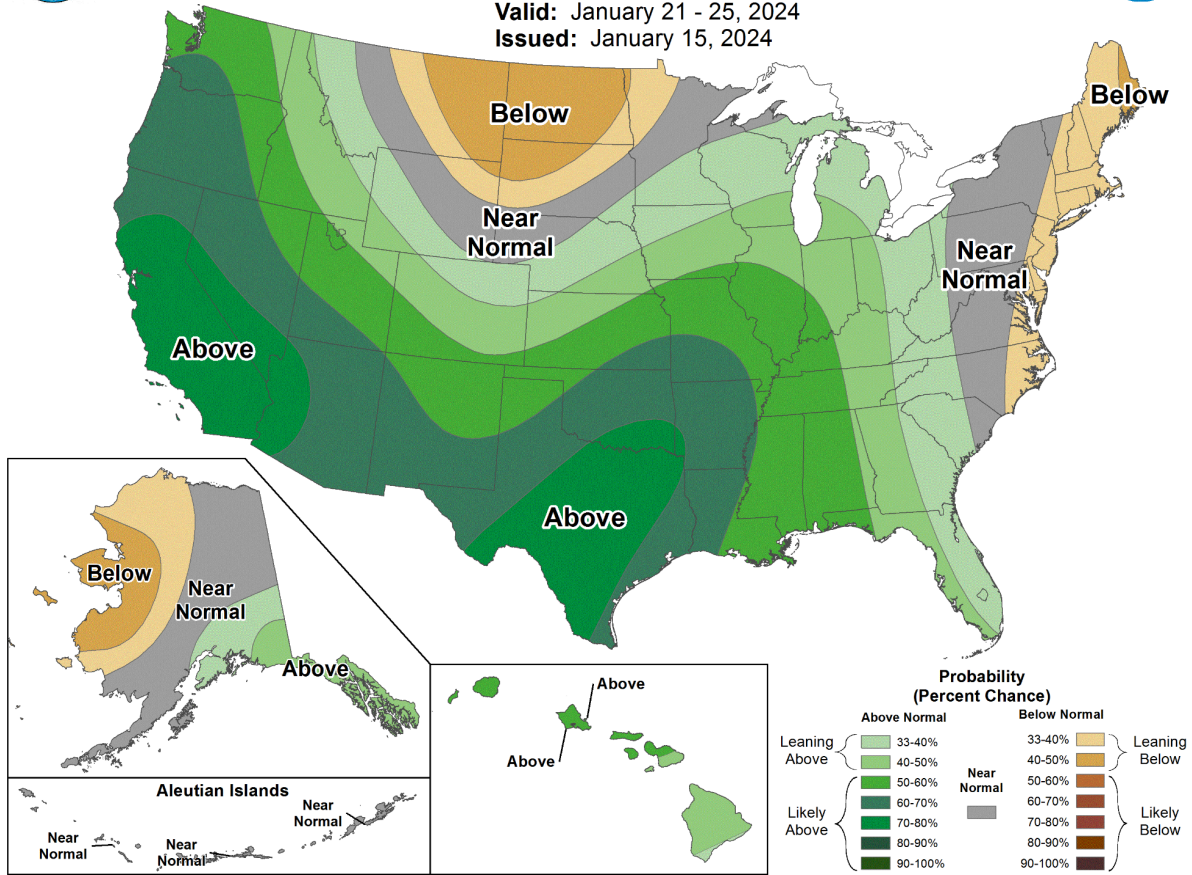




6-10 Day Precipitation Outlook



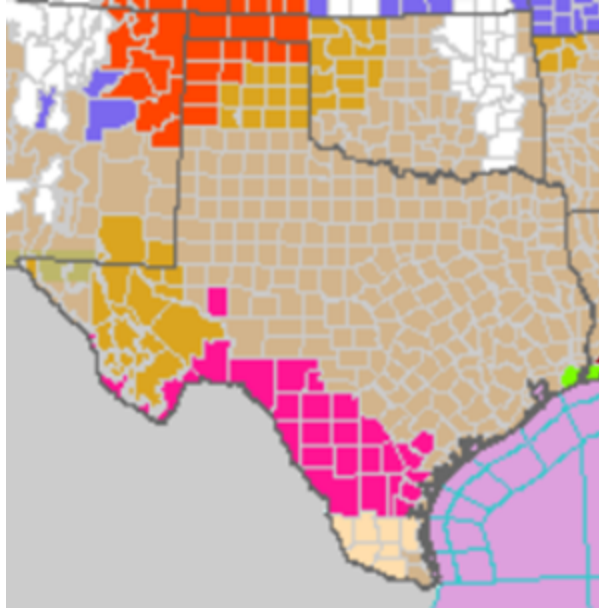
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Source: Climate Prediction Center

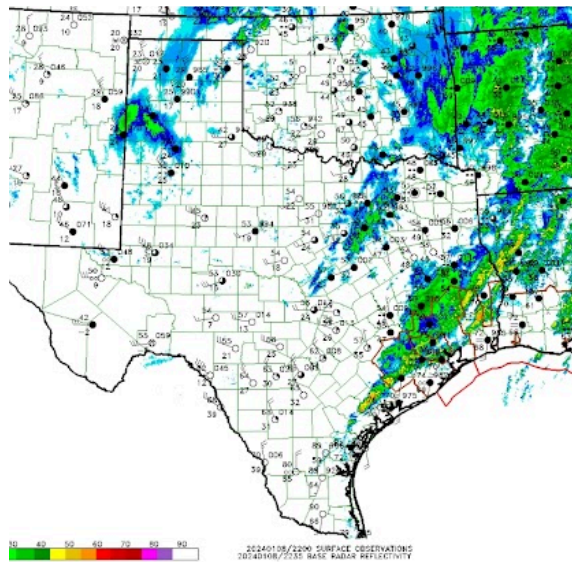
Weather Synopsis:

A powerful trio of cold fronts brought a share of wind, severe weather, and exceptional cold into the state. Beginning Monday and lasting through Tuesday, much of the state saw very strong winds with many places seeing gusts of over 50 mph. Fort Worth Meacham airport even recorded a maximum wind gust of 64 mph on January 8, possibly the highest non-thunderstorm wind gust recorded at the site. This same storm system produced severe weather in southeast Texas with a tornado touching down just northeast of Sam Houston National Forest on January 8. On Thursday, Texas received a trial run of the upcoming intense arctic outbreak as a gusty cold front pushed through with wind gusts up to 50 mph. As the weekend concluded, an cold front and accompanying arctic air arrived, such that many locations saw their coldest temperatures of the season.



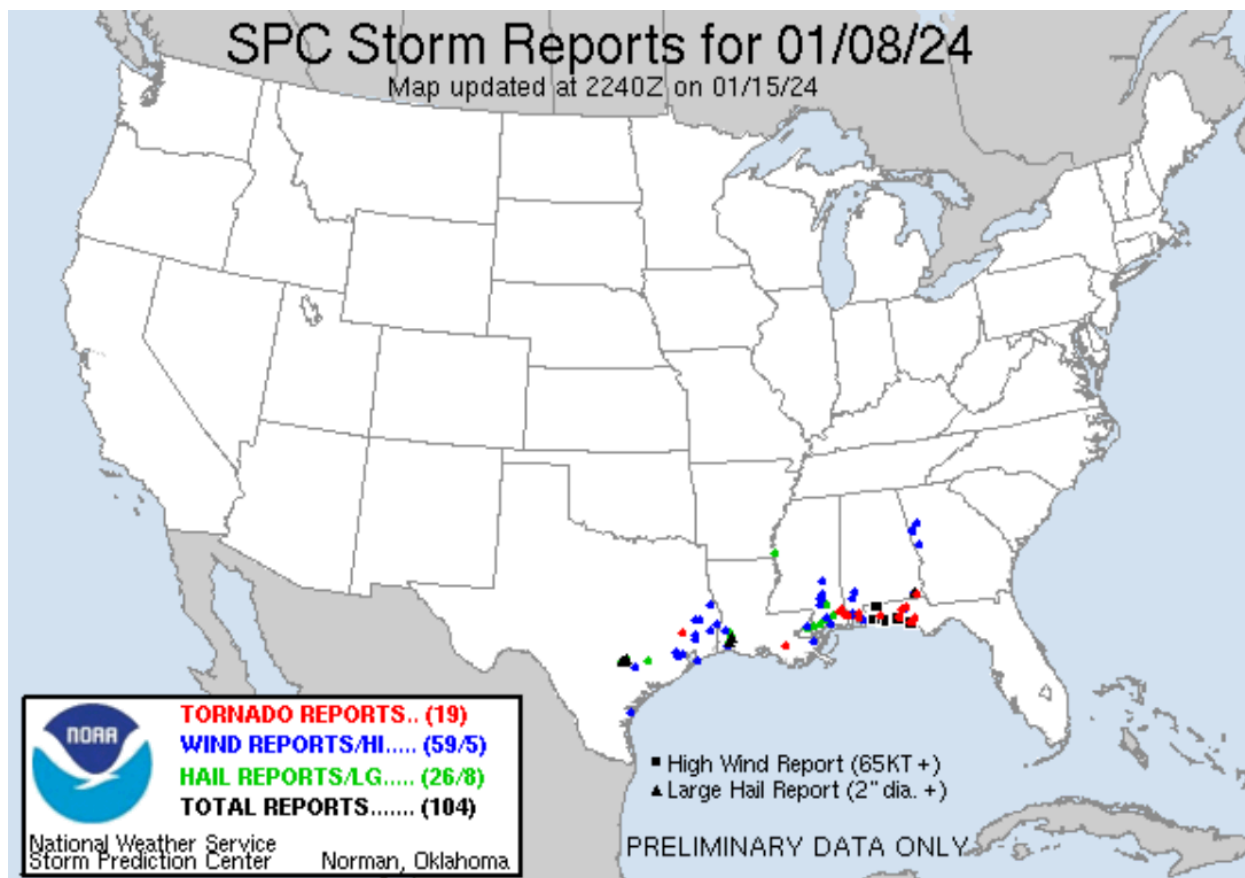
NWS watches and warnings on January 8, 2024. The entire state was under some kind of wind alert.

Source. Weather.gov



Radar mosaic showing the line of storms on January 8th.

Source: HDWX



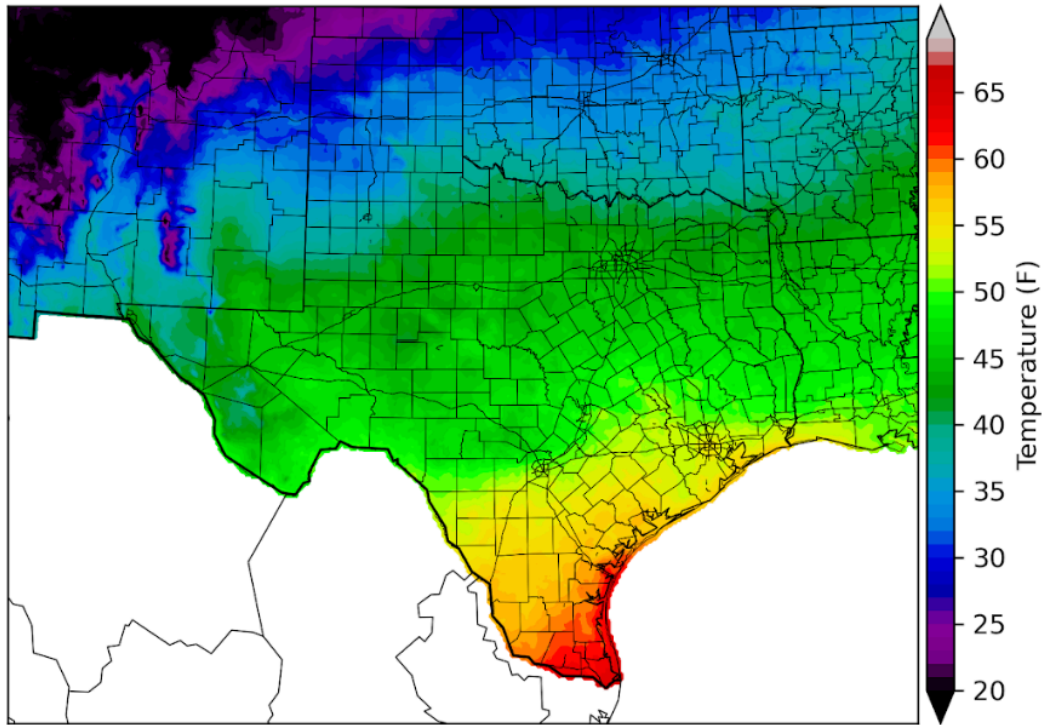
*SPC storm reports for January 8, 2024.
Source: Storm Prediction Center*

Temperature:

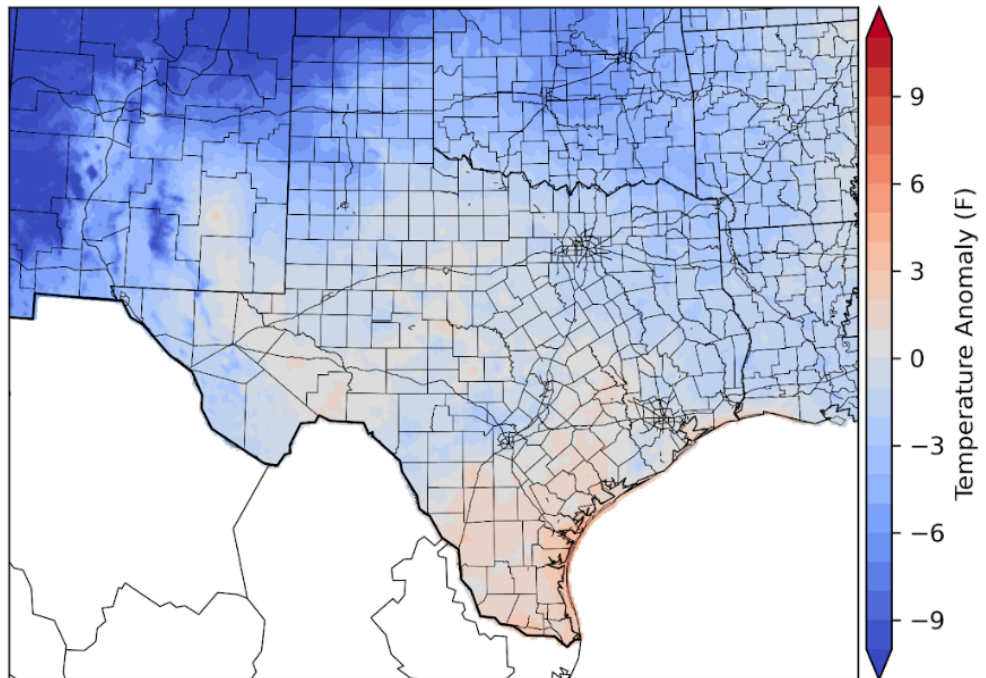
Overall, statewide temperatures were a bit warmer than the previous week. Departures were typically slightly below average across most of the state, with the northern panhandle straying further from the normal in the negative direction. This is likely due to the arctic air intrusion arriving earlier and having more of an influence on the average weekly temperature there than further south, where the arctic air held off until the beginning of the week of January 14-20, negating its effects of the average temperature during the week of January 7-13. Most of the state experienced average temperatures (accounting for both daily highs and lows) between 40°F and 60°F with typically colder spots experiencing average temperatures in the 30's and even 20's and typically warmer regions seeing average temperatures into the 60's. The statewide extremes were as follows:

- Dalhart FAA Airport in Dallam County had the coldest weekly average at 26.5°F
- Edinburg saw the warmest weekly average at 65.4°F

Average Temperature (F) January 7 - 13, 2024



Mean Temp Anomaly (F) January 7 - 13, 2024 vs 1991-2020 Normals

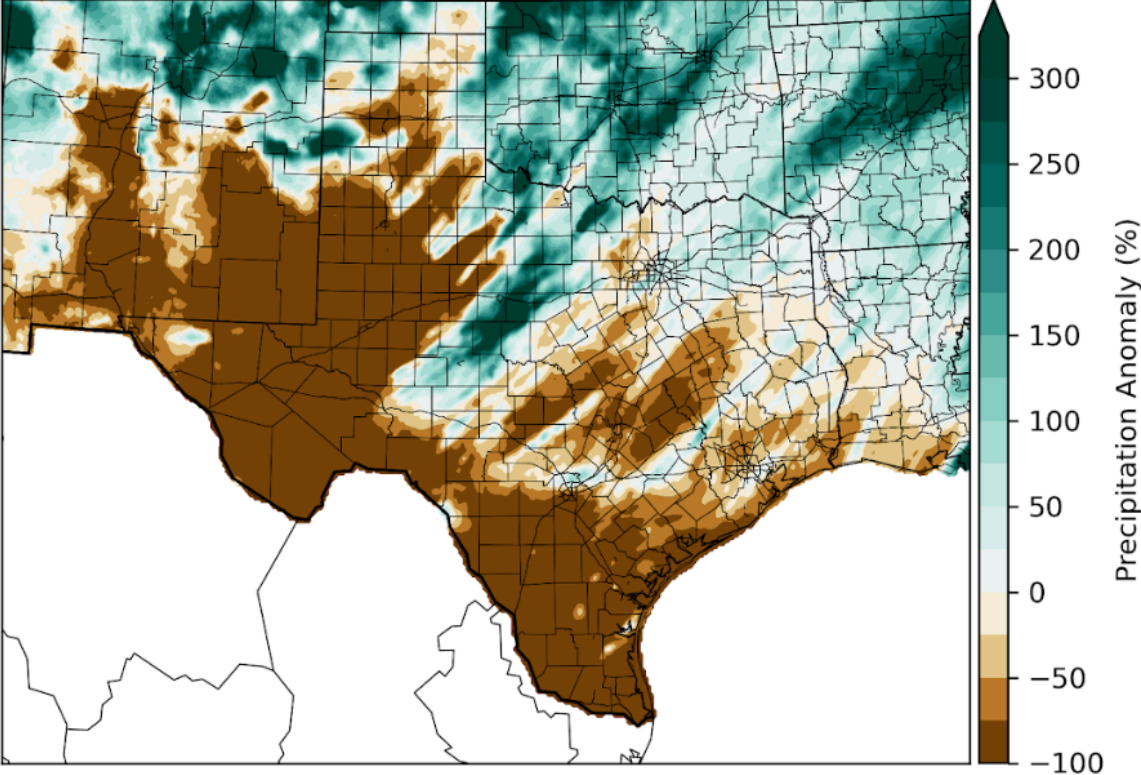


Precipitation:

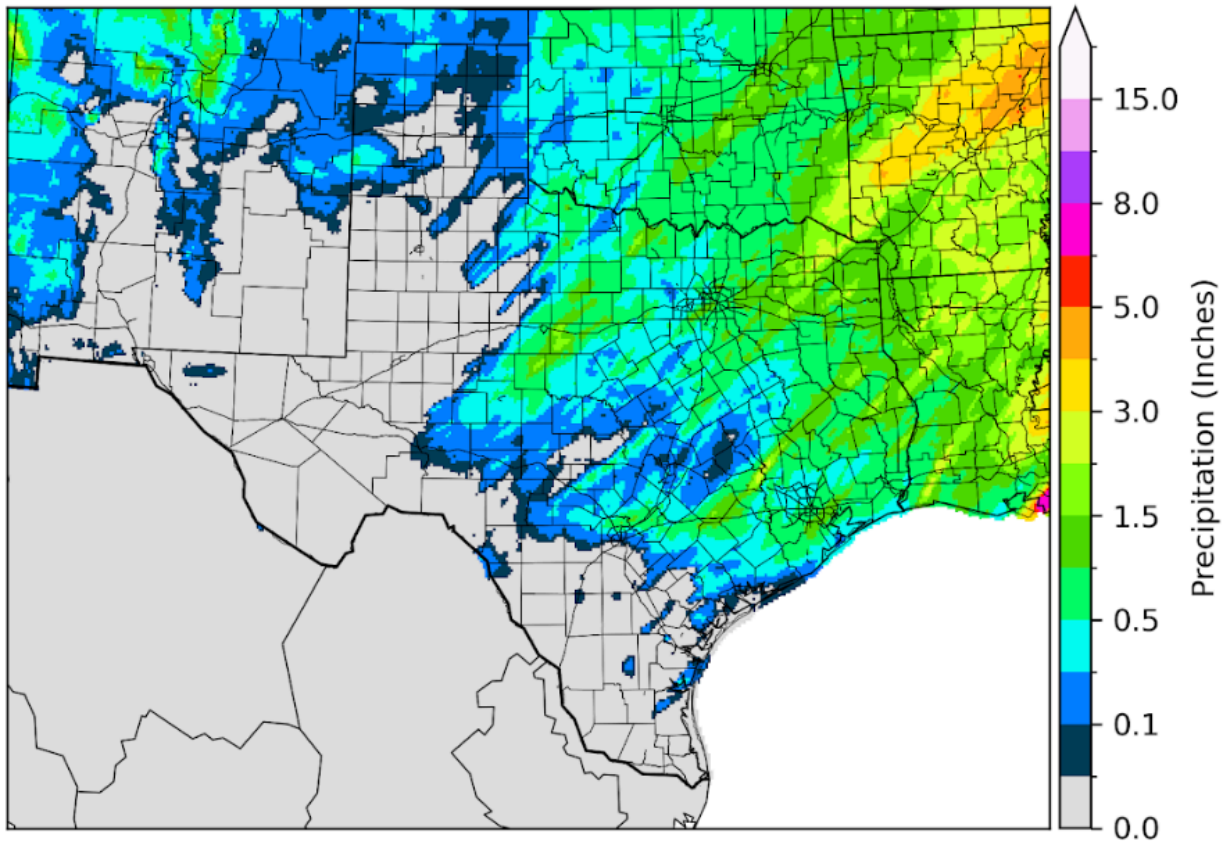
Rainfall was more scant the week beginning on January 7 than that of the week beginning December 31, 2023. The Southwest portion of Texas from the Rio Grande Valley to the Trans

Pecos region skipped out on rainfall. For the areas that saw precipitation, much of it was on two separate rounds on Monday into Tuesday and Wednesday into Thursday.

Precip. Anomaly (%) January 7 - 13, 2024 vs 1991-2020 Normals



Accumulated Precipitation (Inches) January 7 - 13, 2024



Statewide extremes:

-The hottest recorded temperature of the week was 91°F at McAllen Miller International Airport in Hidalgo County on January 8, 2024.

-The coldest recorded temperature of the week was 1°F at the Bushland#1 station on January 13, 2024.

-The most precipitation recorded on the January 7, 2024-January 13, 2024 was 3.58" at a CoCoRaHS site near Dayton, Tx in Liberty county just northeast of Houston.

-11 stations broke record highs in the week of January 7-13, 2024.

-18 stations broke record lows for the same week, with all but one of those records being on the 13th of the month.