

Climate and Weather Summary for November 2024

Temperatures in November averaged well-above normal at Abilene and San Angelo. Precipitation was much above normal at both locations. Table 1 summarizes November 2024 temperature, precipitation, and departure from normal for Abilene and San Angelo.

Site	Average Temperature (°F)	Departure from Normal (°F)	Normal Average Temperature (°F)	Total Precipitation (In.)	Departure from Normal (In)	Normal Nov. Precipitation (In.)
Abilene	59.1°	3.6°	55.5°	5.19"	3.79"	1.40"
San Angelo	59.9°	4.0°	55.9°	6.08"	4.92"	1.16"

Table 1: Nov. Climate Data for Abilene and San Angelo.

Additional temperature and precipitation data for Abilene and San Angelo is summarized in Table 2.

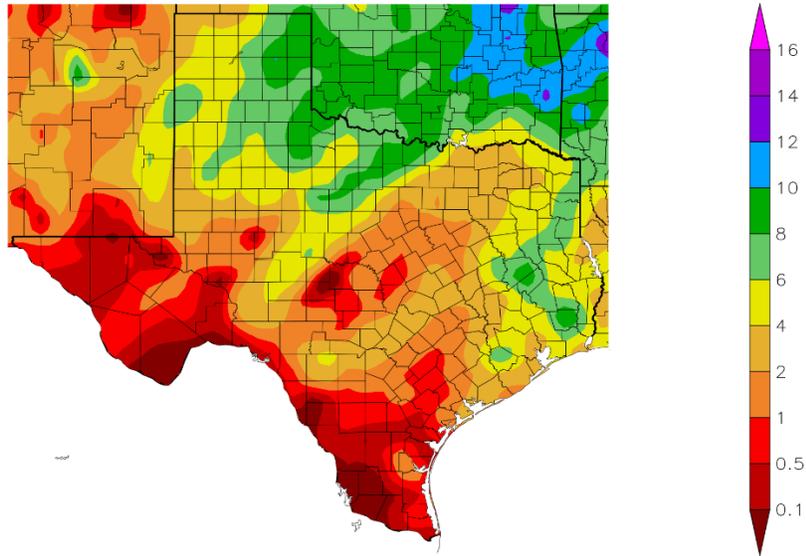
Site	Warmest High Temperature (°F)	Warmest Low Temperature (°F)	Coldest High Temperature (°F)	Coldest Low Temperature (°F)	Maximum Daily Precipitation (In.)
Abilene	80° Nov. 3, 24	68° on Nov. 2	50° on Nov. 28	31° on Nov. 29	2.01" Nov. 7
San Angelo	86° on Nov. 1	71° on Nov. 2	52° on Nov. 28	28° on Nov. 29	3.84" Nov. 7

Table 2: Additional Nov. Climate Data for Abilene and San Angelo.

- 2nd wettest November on record at San Angelo (6.08") and Abilene (5.19").
- San Angelo tied its 6th warmest November (average temperature 59.9°).
- Abilene recorded its 9th warmest November (average temperature 59.1°).

Maps of total precipitation and percentage of normal precipitation, for November, are shown in Figures 1 and 2 (next page).

Precipitation (in)
11/1/2024 – 11/30/2024

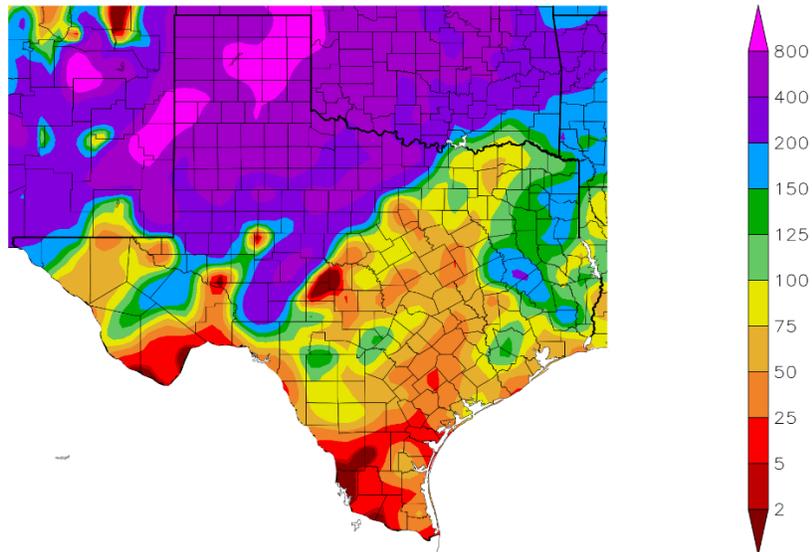


Generated 12/6/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Figure 1: Total Precipitation for November.

Percent of Normal Precipitation (%)
11/1/2024 – 11/30/2024



Generated 12/6/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Figure 2: Percentage of Normal Precipitation for November.

November 2024 Weather Highlights

The weather pattern was unsettled Nov. 1-4, as large upper level trough moved over the western and southwestern parts of the country and approached the Great Plains and Texas. Isolated to scattered showers and storms occurred over the Big Country in the early morning hours of Nov. 1. A warm front lifted north into the Concho Valley and stalled.

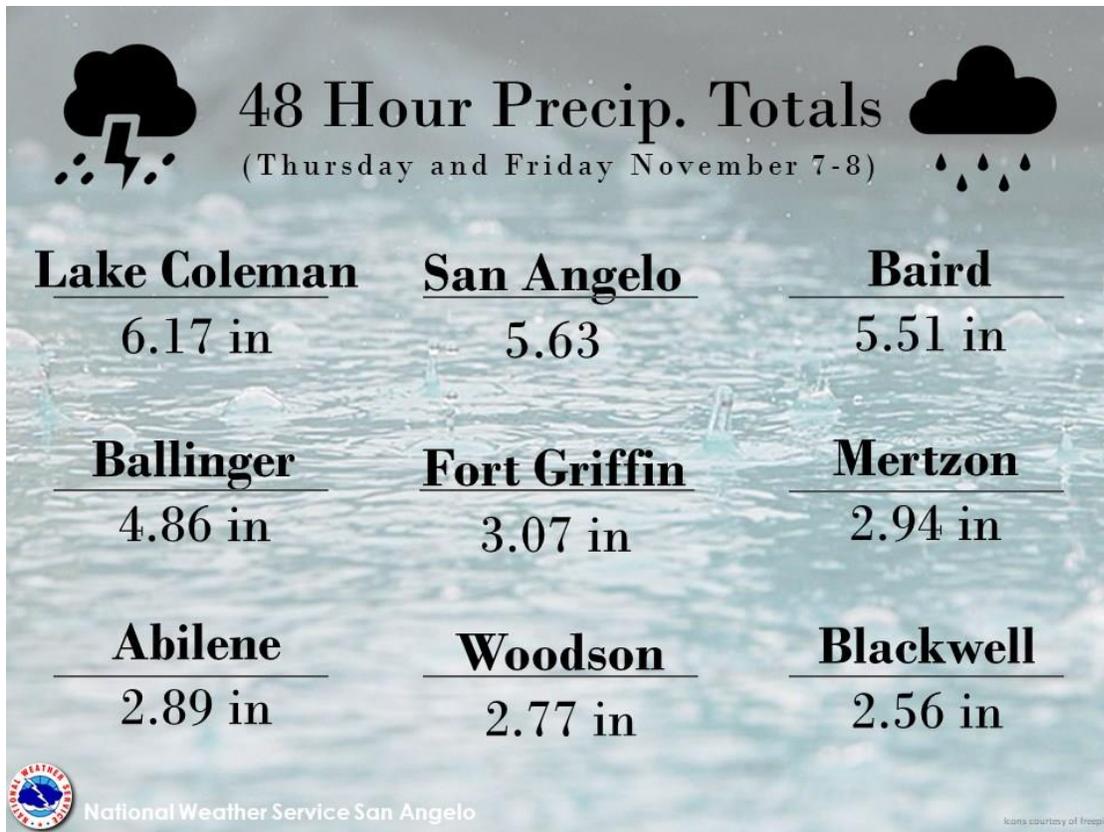
Near the stalled front, a few storms occurred in the evening over western and northern parts of the Concho Valley. One of the storms strongly intensified and remained over Tom Green County just northwest and north of San Angelo into the early nighttime hours. [The storm](#) produced large hail, damaging winds, and very heavy rainfall which resulted in flash flooding. The large hail (half dollar up to baseball size) occurred in the vicinity of Grape Creek. A Mesonet site 7 miles northwest of San Angelo recorded a 65 mph wind gust. This site also recorded a total of 4.37 inches of rainfall. Flooding of a home was reported in Grape Creek, and at the intersection of Farm to Market Road 2288 and U.S. Highway U.S. 87 in Grape Creek. Flooding also was reported in the vicinity of Carlsbad, at a low water crossing on East Carlsbad Loop Road.

The airmass was unstable Nov. 2-3, with south winds and humid conditions. With a few upper level disturbances moving over the area in southwest flow aloft, periodic showers and thunderstorms occurred in the Big Country during this time frame. The most significant storms affected that area Nov. 3. The stronger storms contained hail, strong, gusty winds, frequent lightning, and very heavy rainfall.

Following passage of a fairly strong cold front, temperatures were much cooler Nov. 5 when highs were in the mid 60s to lower 70s across much of the area. Clear skies and light winds allowed temperatures to drop into the 40s across much of the area, for early morning lows Nov. 6. Some locations in low-lying areas and along river valleys, in central and southern parts of the area, recorded lows in the mid to upper 30s.

A significant rain event occurred Nov. 7-8, along with severe weather. This occurred with the approach of an upper level storm system from southern New Mexico and a frontal system positioned across the area. Thunderstorms developed and repeatedly tracked along a southwest to northeast oriented band, which extended from Crockett County northeast across the San Angelo and Abilene areas. The strongest storms occurred mostly between 5 PM and Midnight Nov. 7. Some of the storms were severe with quarter size hail and damaging wind gusts. Very heavy rainfall occurred, and this led to flash flooding in San Angelo and other locations. [A total of 18 severe weather and flooding reports](#) were received for this event. Additional showers and a few storms continued into the day Nov. 8, along and ahead of an eastward moving cold front.

San Angelo recorded 3.84 inches of rainfall Nov. 7. *This not only set a new daily record rainfall, but was the highest daily rainfall for the month of November. The following day, San Angelo received 1.79 inches of rainfall, setting a new daily record rainfall Nov. 8. At Abilene, rainfall was 2.01 inches Nov. 7, and this set a new daily rainfall record for that date. The graphic below shows Rainfall totals for Nov. 7-8 at several locations across the area.



A [more complete listing](#) has rainfall totals from numerous locations in the area.

After extended periods of dry weather during the second half of September and October, this rainfall was of short-term benefit for the area.

Temperatures were cooler following a cold frontal passage Nov. 8. Clear skies and light winds allowed temperatures to drop into mostly the upper 30s to mid 40s for early morning lows Nov. 9. A few locations in low-lying areas in central, eastern and southern parts of the area had lows in the mid 30s.

Additional wet weather occurred Nov. 17-18. An upper level storm system moved northeast across the southeastern part of New Mexico, and then quickly lifted into northwestern Texas. With the approach of this system and a cold front, an extensive band of showers occurred on the evening and early nighttime hours Nov. 17. An extensive line of showers with embedded thunderstorms accompanied the cold front as it moved quickly east across the area, between 1 AM and 8 AM Nov. 18. Strong, gusty west winds occurred with this band of showers and embedded thunderstorms. The highest recorded wind gusts were: 62 mph at the Sweetwater Airport, 58 mph at a site 20 miles west-southwest of Sonora, 58 mph at the Abilene Airport, 51 mph at the San Angelo Airport, and 50 mph at Throckmorton.

Much cooler temperatures followed a cold frontal passage during the overnight hours of Nov. 20-21. As a high pressure system settled into the area with clear skies and light winds, [temperatures dropped to or below freezing for lows Nov. 21 at a number of locations.](#)

The remainder of November was dry for the area. Fairly strong cold frontal passages followed warm days Nov. 24 and 27. A more widespread freeze occurred Nov. 29. Morning lows were mostly in the upper 20s to lower 30s, with mid 20s in a few low-lying areas.

[Additional Tabular and Graphical Daily Climate Data](#)