

Climate and Weather Summary for August 2024

Temperatures in August averaged well-above normal at San Angelo and Abilene. Precipitation was well-below normal at both locations. Table 1 summarizes August 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 Aug. Precipitation (In.)
Abilene	89.6°	5.4°	84.2°	0.33"	-2.20"	2.53"
San Angelo	88.2°	4.1°	84.1°	0.44"	-1.98"	2.42"

Table 1: Aug. 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)	Coollest High Temperature (°F)	Coollest Low Temperature (°F)	Maximum Daily Precipitation (In.)
Abilene	113° on Aug. 21	82° on Aug. 17	91° on Aug. 31	70° on Aug. 27	0.28" Aug. 28
San Angelo	112° on Aug. 22	81° on Aug. 23	88° on Aug. 28	65° on Aug. 27	0.18" Aug. 28

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

- Abilene set a new record high not only for August (113° on Aug. 21), but also the all-time hottest temperature on record. Climate records for Abilene date back to 1886.
- San Angelo set a new record high temperature for the month of August with 112° on Aug. 22.
- Average daily high temperature for August was the 4th warmest on record at Abilene (102.6°).
- Average temperature for the month of August tied for the 4th warmest on record at San Angelo (88.2°).
- Average temperature for the month of August was the 5th warmest on record at Abilene (89.6°).

Maps of total precipitation and percentage of normal precipitation, for June, are shown in Figures 1 and 2 below. These maps are from the High Plains Regional Climate Center.

Precipitation (in) 8/1/2024 – 8/31/2024

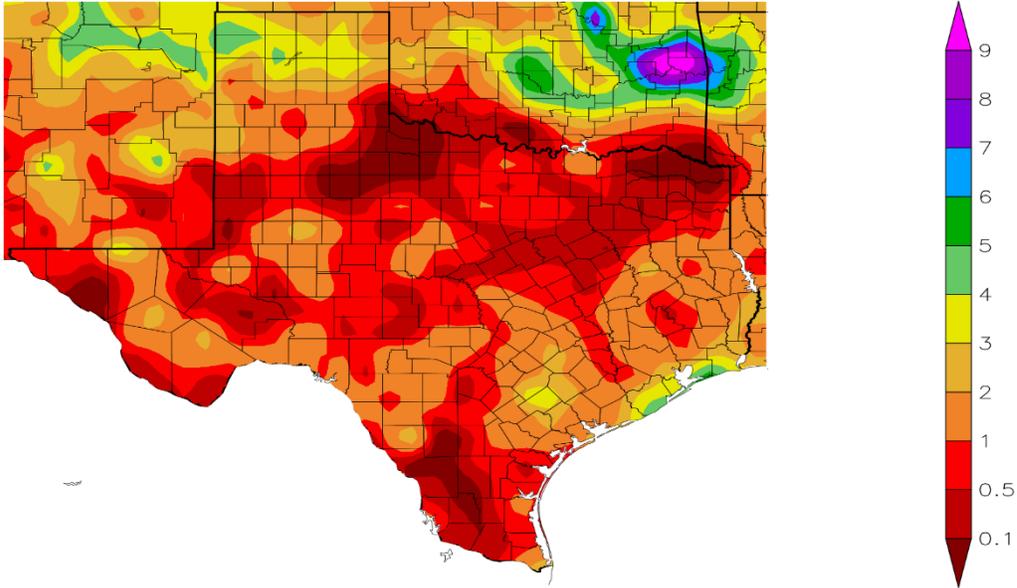


Figure 1: Total Precipitation for August.

Percent of Normal Precipitation (%) 8/1/2024 – 8/31/2024

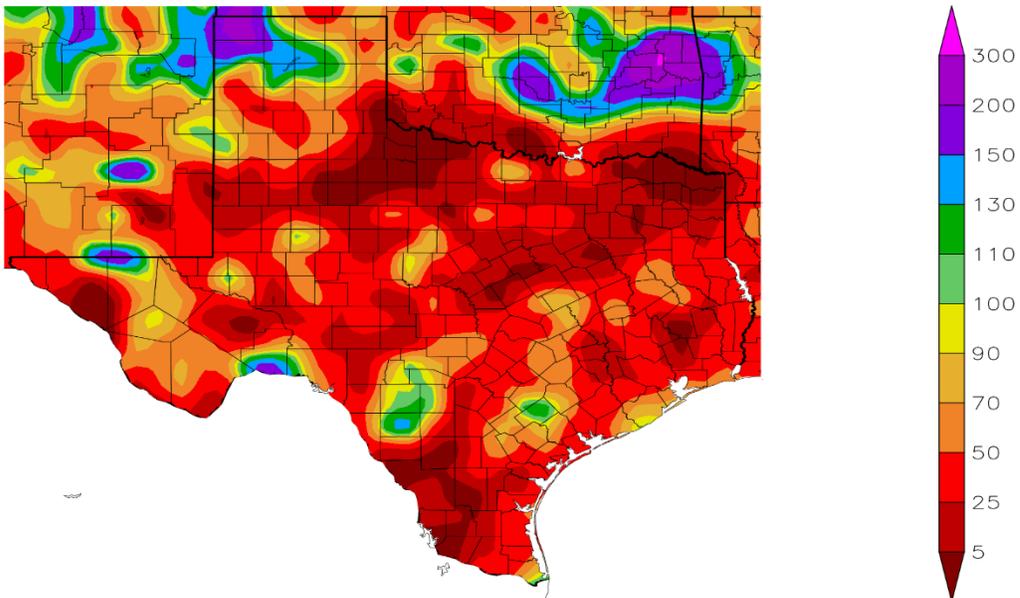


Figure 2: Percentage of Normal Precipitation for August.

Precipitation for August was well-below normal across most of the area.

August 2024 Weather Highlights

An upper level high pressure system was over Texas, or in close enough proximity, to be the dominant weather influence. The high pressure system was occasionally strong over the area. Dry and rather hot conditions prevailed through most of the month.

Abilene and San Angelo both had 23 days in August with high temperatures 100° or more.

Record high temperatures, and record warm low temperatures, were set or tied on a number of occasions at Abilene and San Angelo. The area had notable record heat Aug. 21-22.

At Abilene, the high of 113° Aug. 21 not only set a new record for the hottest temperature in the month of August, but also for the all-time hottest temperature. Climate records for Abilene date back to 1886. The previous August record high temperature at Abilene was 111° set Aug. 17, 2023 and Aug. 3, 1943.

At San Angelo, the high of 111° Aug. 21 not only set a new daily record, but tied the highest temperature on record for the month of August. This record was previously set Aug. 10, 2023 and Aug. 4, 1943.

High of 112 degrees at San Angelo on Aug. 22 set a new record high for the month of August.

The tables below (and on the next page) show the daily record high and record warm low temperatures which were set or tied during the month, at San Angelo and Abilene.

San Angelo

Date	Temperature	Type of Temperature Record
Aug 16	80°	New Record Warm Low
Aug 22	112°	New Record High
Aug 23	81°	New Record Warm Low
Aug 23	108°	New Record High

Abilene

Date	Temperature	Type of Temperature Record
Aug 7	108°	New Record High
Aug 15	81°	New Record Warm Low
Aug 16	81°	Tied Record Warm Low
Aug 17	82°	New Record Warm Low
Aug 19	106°	Tied Record High
Aug 20	109°	New Record High
Aug 21	81°	New Record Warm Low
Aug 22	79°	New Record Warm Low
Aug 22	111°	New Record High
Aug 23	112°	New Record High

The pattern finally changed in the last week of August, when the upper level high pressure system moved north and east of the area. This allowed a couple of upper level disturbances to move northwest into Texas from the Gulf of Mexico. Isolated to scattered showers and a few thunderstorms occurred on a few days. With increased moisture and some increase in cloud cover, temperatures were a little cooler. Daily highs were mostly in the 90s, with upper 80s at a few locations.

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