

Climate and Weather Summary for July 2018

Temperatures in July averaged above normal at Abilene and well-above normal at San Angelo. Table 1 summarizes July 2018 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 July Precipitation (In.)
Abilene	85.2°	2.1°	83.1°	1.41"	-0.46"	1.87"
San Angelo	87.4°	4.3°	83.1°	0.64"	-0.56"	1.20"

Table 1: July 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	106° on July 19-22	80° on July 20	86° on July 30	67° on July 8	0.95" July 8
San Angelo	109° July 23	79° on July 19	86° on July 9	68° on July 6, 8	0.25" July 31

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

- 4th warmest July on record at San Angelo.
- July precipitation was below normal at Abilene, and well-below normal at San Angelo.
- Number of days with high temperatures 100 degrees or more were: 22 at San Angelo, 18 at Junction, and 10 at Abilene.

A map of total precipitation for July is shown in Figure 1. Percentage of normal precipitation for July is shown in Figure 2.

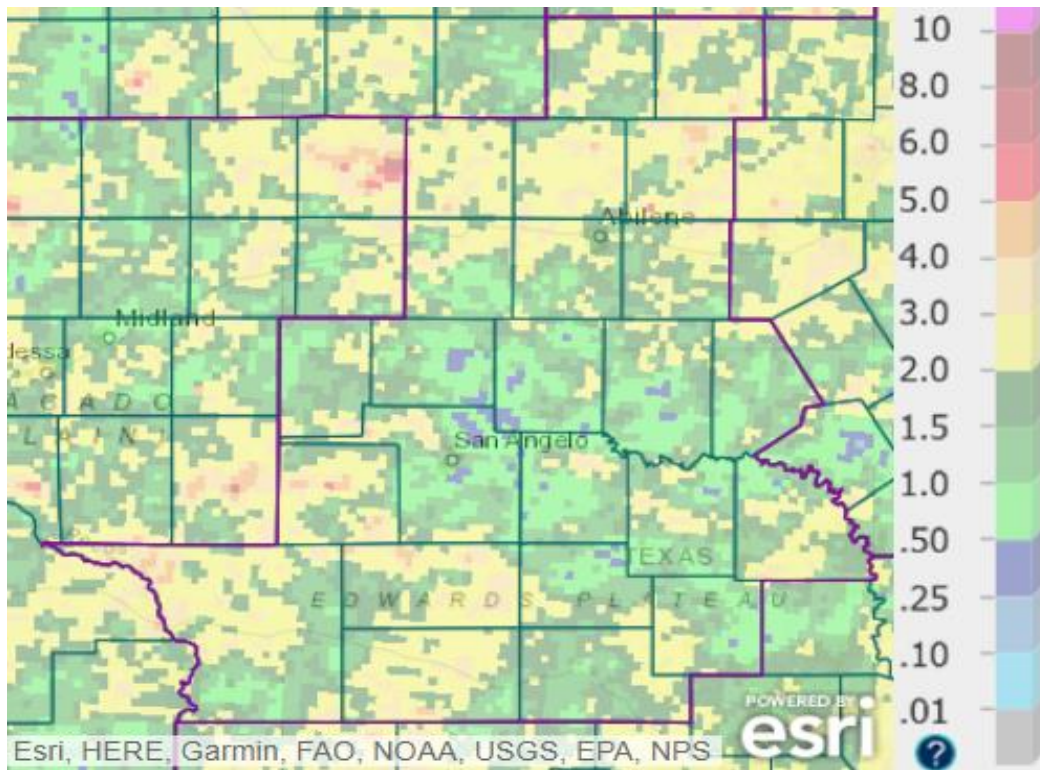


Figure 1: Total Precipitation for July.

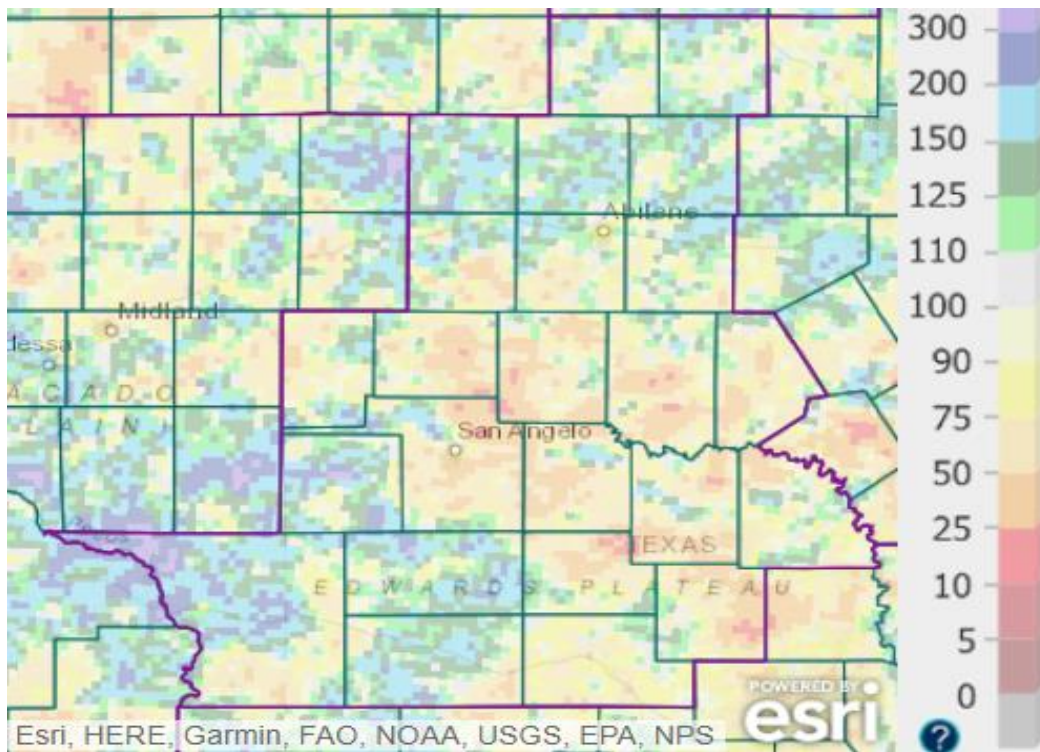


Figure 2: Percentage of Normal Precipitation for July.

Precipitation for July varied from well-above normal to well-below normal across [west-central Texas](#). This variability was also apparent across individual counties. This was due to the scattered coverage of showers and thunderstorms with locally heavy rainfall, and to the limited number of rain events during the month.

Weather Highlights:

Hot and dry conditions occurred July 1-4, when daily highs were mostly in the upper 90s to 103 degrees. Temperatures were a little cooler July 5-10, with daily highs in the upper 80s and 90s. Upper level high pressure was positioned mainly north of the region, allowing weak disturbances to move into the area in the east to southeast flow aloft. In addition to increased cloud cover and moisture, showers and thunderstorms occurred each day. Most of these occurred during the afternoon and early nighttime hours. The coverage was generally scattered across southern and central parts of the area on July 4-5. Showers and storms were more numerous across west-central Texas on July 6-9. While most areas received some rainfall during this time frame, the amounts varied considerably. Showers and storms with lower (isolated to scattered) coverage occurred July 10-13.

Drier conditions resumed July 14-16 with temperatures gradually increasing above normal.

Conditions were dry with very hot daytime temperatures July 18-23. An upper level high pressure system strengthened over Texas during this time. New record high temperatures were set at San Angelo July 19-23, and at Abilene on July 21. A record high temperature was tied at Abilene on July 22. These daily record highs are summarized in the tables below.

San Angelo

Date	New Record High (degrees F)	Old Record High & Year (degrees F)
July 19	108 degrees	105 (2011)
July 20	108 degrees	107 (1925)
July 21	108 degrees	104 (1936)
July 22	108 degrees	105 (2012)
July 23	109 degrees	108 (1911)

Abilene

Date	New Record High (degrees F)	Old Record High & Year (degrees F)
July 21	106 degrees	104 (1943 & 1939)
July 22	106 degrees (tied the old record)	106 (1943)

Another noteworthy record was set at San Angelo and Abilene. The number of consecutive days with high temperatures 108 degrees or hotter was 5 at San Angelo (July 19-23), surpassing 4 days in 1994 (June 26-29). The number of consecutive days with high temperatures 106 degrees or hotter at Abilene was 4 days (July 18-22), surpassing 3 such days in 2012 (August 1-3) and numerous other years.

High temperatures July 23 were likely the hottest for the year-to-date, for a number of locations across the central and southern parts of West Central Texas. A weak "cold" front moved south across the Big Country in the afternoon, leveling off temperatures compared to farther south. The link below has a list of the recorded high temperatures for July 23, at stations throughout west-central Texas. The reports are from a variety of sources, including Cooperative Observers and automated weather observations from the National Weather Service and Lower Colorado River Authority.

<https://www.weather.gov/.../High%20Temperatures%20July%202023%2>

At the end of the month, the upper level high pressure system shifted far enough to the west to allow a couple of upper level disturbances to move south-southeast across the area. With this pattern shift, showers and thunderstorms occurred across northern and northeastern parts of west-central Texas on July 30, and across central and southern parts of the area on July 31. Wind gusts 50-55 mph were recorded by several Mesonet stations on the early morning of July 30, in the northern Big Country, along the leading edge of a line of thunderstorms entering that area. Temperatures were cooler on July 30-31, as a result of a weak cold frontal passage through the area.

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