Climate and Weather Summary for August 2022

Temperatures in Aug. averaged above normal at San Angelo and Abilene. Precipitation was above normal at Abilene and slightly above normal at San Angelo. Table 1 summarizes August 2022 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	85.9°	1.7°	84.2°	3.01”	0.48”	2.53”
San Angelo	85.5°	1.4°	84.1°	2.44”	0.02”	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)	Coolest High Temperature (°F)	Coolest Low Temperature (°F)	Maximum Daily Precipitation (In.)
Abilene	106° on Aug. 4	81° Aug. 4, 5	83° Aug. 22, 30	67° on Aug. 24	1.84” Aug. 29
San Angelo	106° on Aug. 4	79° Aug. 2, 4, 5	79° on Aug. 3	67° on Aug. 26	1.38” Aug. 29

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

- Dry and very hot early in the month.
- Significant change in the pattern to wetter and cooler conditions Aug. 29-31.

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

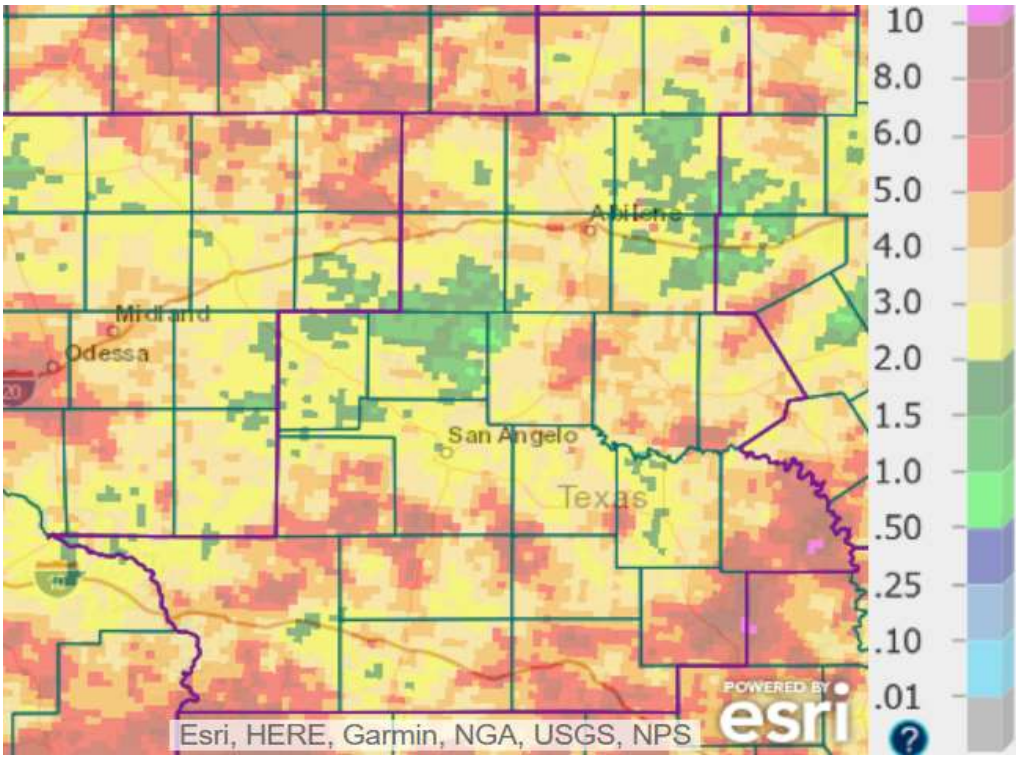


Figure 1: Total Precipitation for August.

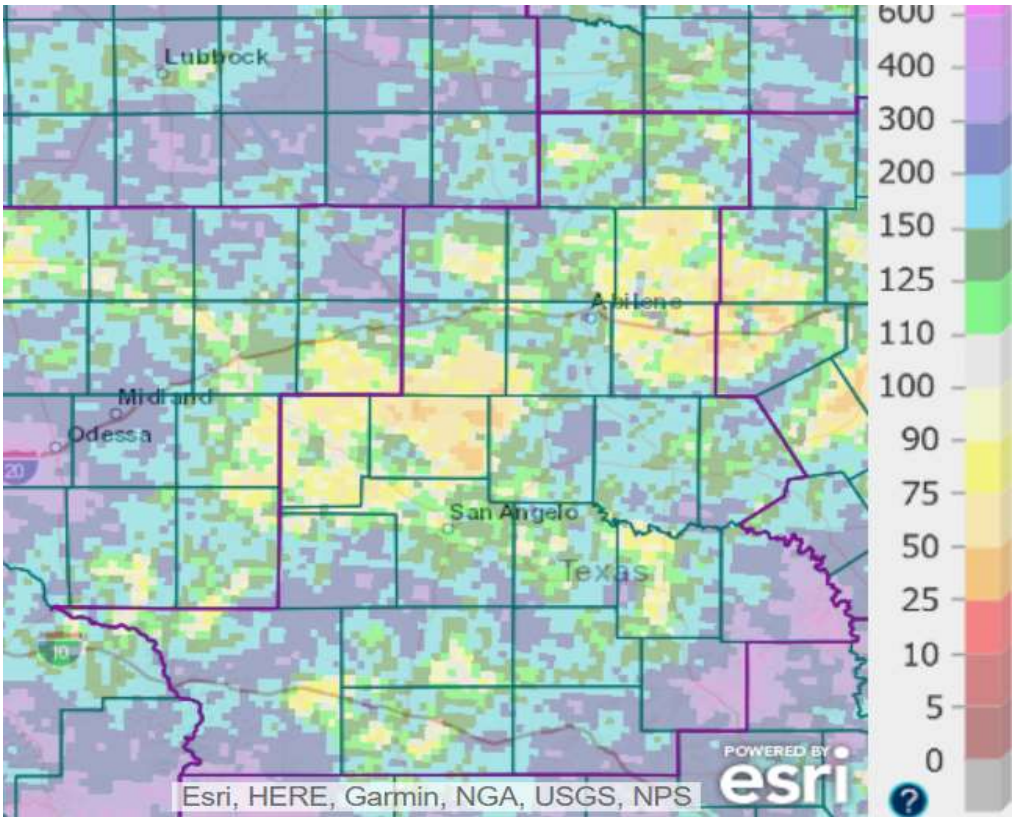


Figure 2: Percentage of Normal Precipitation for August.

Precipitation for August was well-above normal across much of the area (purple shaded areas in Fig. 2). Many areas received over 4 inches of rainfall for the month, and the highest amounts were 8-10 inches in a few parts of Mason and San Saba Counties. (Fig. 1). Most of the rainfall occurred late in the month, especially Aug. 29-31.

August 2022 Weather Highlights

Above normal temperatures and dry conditions occurred during the first week of August, when an expansive upper level high pressure system was over Texas and the southern part the U.S. Afternoon highs were in the upper 90s to around 105 degrees, and early morning lows were mostly in the mid 70s to around 80 degrees.

San Angelo

Date	Temperature	Type of Temperature Record
Aug 2	79°	Tied Record Warm Low

Abilene

Date	Temperature	Type of Temperature Record
Aug 2	80°	Tied Record Warm Low
Aug 5	105°	Tied Record High

The Ranger Creek wildfire (Aug. 5-8), near the Haskell and Throckmorton county border just south of U.S. Highway 380, burned a total of 3,237 acres.

With a slight change in the pattern in the second week of August, some much needed rainfall occurred in the region and brought an end to the record consecutive streak of 100 degree temperatures at San Angelo. The upper level high pressure system shifted northwest into the central High Plains, and this allowed a few weak upper level disturbances to track southwest into Texas (around its southeastern periphery). With this setup, scattered showers and thunderstorms occurred Aug. 8-11, mainly in the afternoon and early evening hours. The showers and storms occurred in the northern Big Country on Aug. 8, all of the Big Country and north of a Sterling City to Cross Plains on Aug. 9, the central and southern parts of west-central Texas on Aug. 10, and the southern third of the area Aug. 11. At the San Angelo Airport, the Aug. 10 rainfall of 0.18 inches was officially the first measurable rainfall for the city since Aug. 15, when only 0.01 inches was received. This brief video of the rain was taken from the National Weather Service forecast office in San Angelo, and posted on the office Facebook page.

A few of the storms contained frequent lightning and strong, gusty winds. At Abilene State Park, multiple tree branches were blown down by strong thunderstorm winds. At the Junction Airport, a peak wind gust of 53 mph was recorded, with passage of a thunderstorm outflow boundary.
Brief heavy rain accompanied the showers and storms. Fig. 3 (on next page) shows rainfall for the 7-day period, ending at 7 AM on Aug. 12.

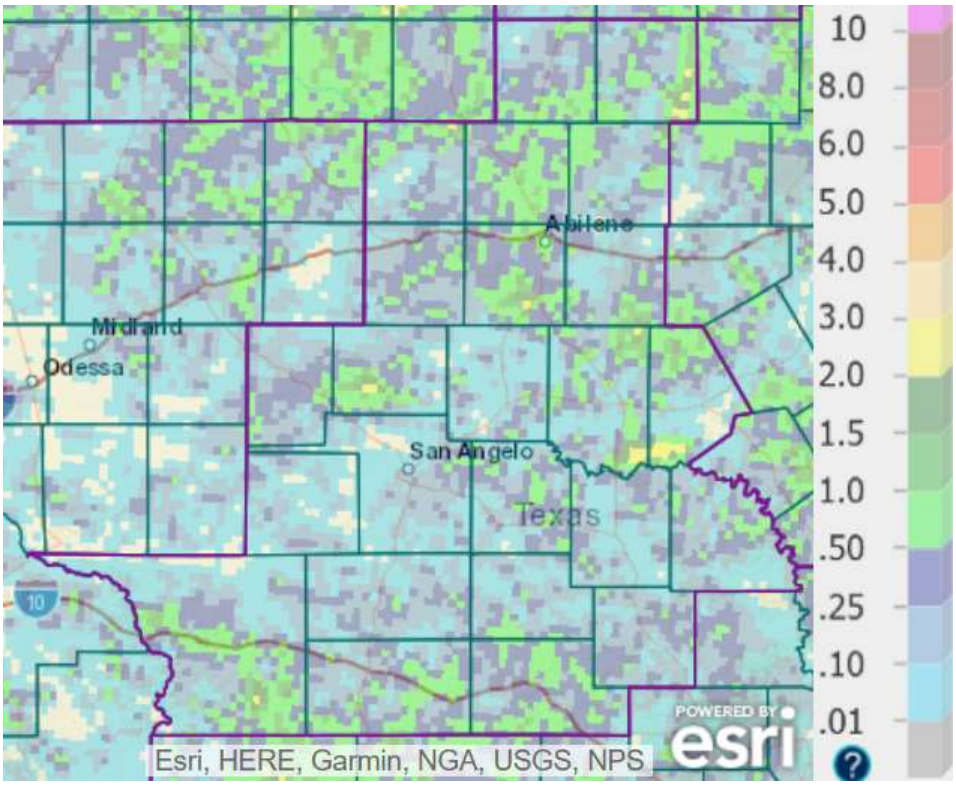


Figure 3: Rainfall amounts for the 7-day Period ending at 7 AM, Aug. 12.

Although showers and thunderstorms occurred across almost all of the area, rainfall amounts varied considerably. Scattered locations received one half to one inch of rainfall, while a few locations received between 1 and 3 inches.

With increased cloud cover and timing of the rainfall, temperatures were a little cooler Aug. 10 across northern and central parts of the area with highs in the 90s. For southern parts of the area, temperatures were a little cooler on Aug. 11 (highs mostly in the lower 90s). At San Angelo, the record consecutive streak of days with temperatures of at least 100 degrees reached 37 days on Aug. 9, and was ended Aug. 10 when the daily high was 99 degrees. The previous such record was 28 days in 2011.

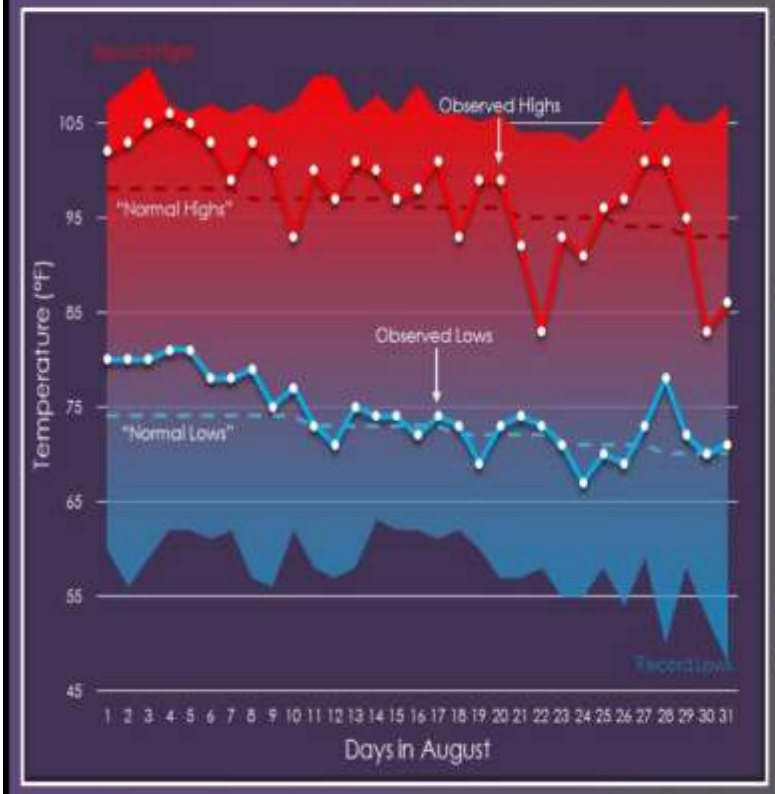
Temperatures in the second half of August were not as hot, and reached 100 degrees on just a few days. The most significant change occurred in the last few days of the month (Aug. 29-31). A weak upper level low developed over West Texas and tracked slowly west into northern Mexico. A series of upper level disturbances moved across the area, and interacted with very moist air. Initially, a widespread rain event occurred on the evening and nighttime hours of Aug. 29. A cluster of strong to severe storms in the western Big Country contained strong winds. With very hazardous conditions created by strong winds and very heavy rain, a major accident occurred, and resulted in 1 fatality. In addition, several power poles were blown down by a microburst with a nearby storm. At Abilene, a new daily rainfall record was set (1.87 inches) on Aug. 29. Scattered clusters and bands of showers with a few thunderstorms occurred Aug. 30-31. Rainfall was locally heavy. Considerable street flooding was reported in Abilene on Aug. 31.

Highlights for the month are shown in the graphics below, for Abilene and San Angelo.

August Climate Summary

Abilene

Weather Forecast Office
San Angelo, TX
Issued September 1, 2022 11:43 AM CT



Average Temp
85.9° (+1.7°)
- Average High
97.5° (3.2° above normal)
- Average Low
74.4° (0.3° above normal)

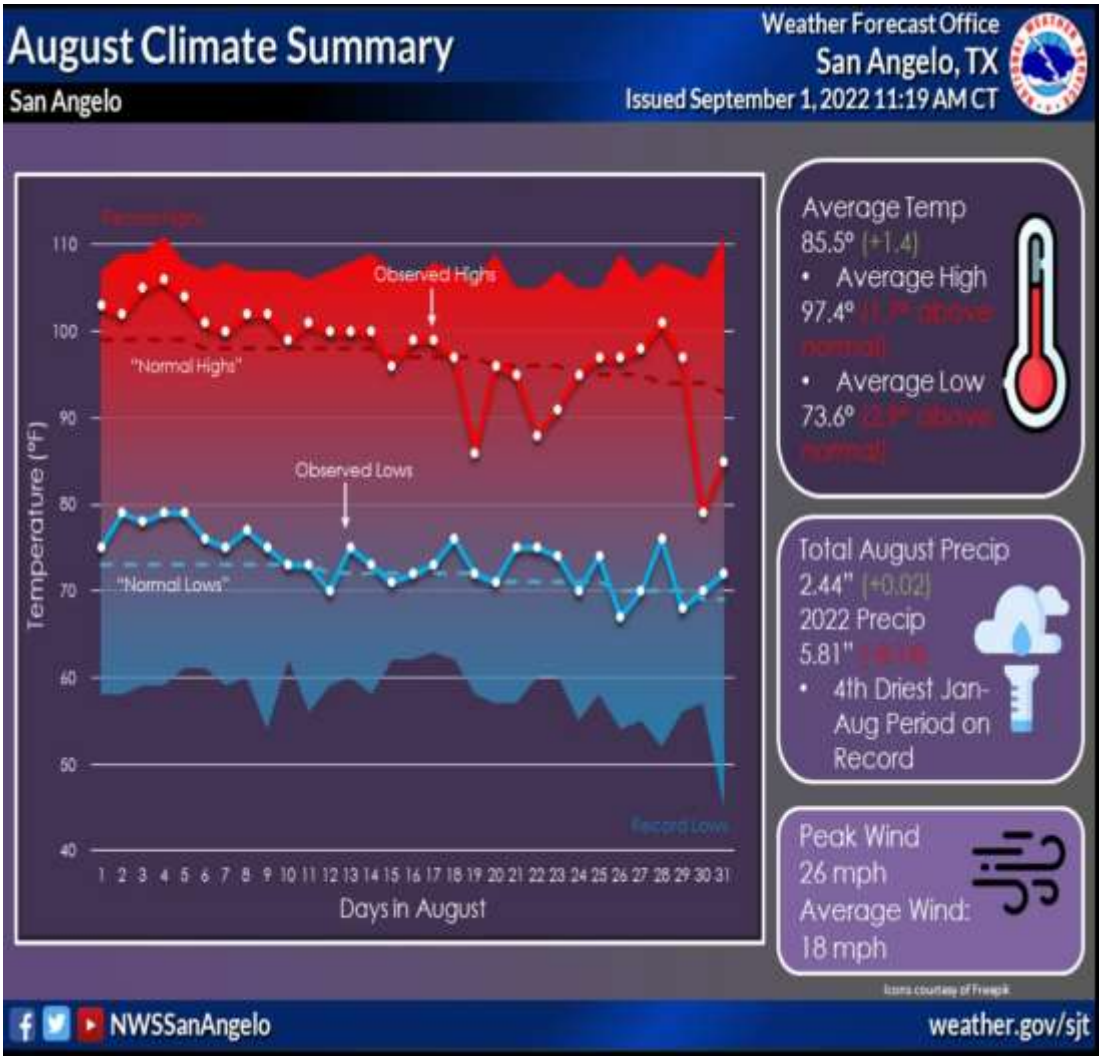
Total August Precip:
3.01" (+0.48)
2022 Precip
7.72" (-7.98)
- 3rd Driest Jan-Aug Period on Record

Peak Wind
27 mph
Average Wind:
20 mph

Icons courtesy of Freepik

NWSSanAngelo

weather.gov/sjt



[Additional Tabular and Graphical Daily Climate Data]