Climate and Weather Summary for September 2024

Temperatures in September averaged slightly above normal at Abilene, and slightly below normal at San Angelo. Precipitation was well-above normal at San Angelo and Abilene. Table 1 summarizes September 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 Sep. Precipitation (In.)
Abilene	77.1°	0.3°	76.8°	6.45”	3.78”	2.67”
San Angelo	76.1°	-0.9°	77.0°	5.04”	2.53”	2.51”

Table 1: Sep. 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	96° Sep. 13, 15, 19, 20	77° on Sep. 19	73° on Sep. 3	55° on Sep. 10	2.32” Sep. 2
San Angelo	99° on Sep. 13	75° Sep. 14, 21	71° on Sep. 23	50° on Sep. 10	2.88” Sep. 2

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

- 8th wettest September on record at Abilene. Climate records for Abilene date back to 1886.

Maps of total precipitation and percentage of normal precipitation, for June, are in Figures 1 and 2.

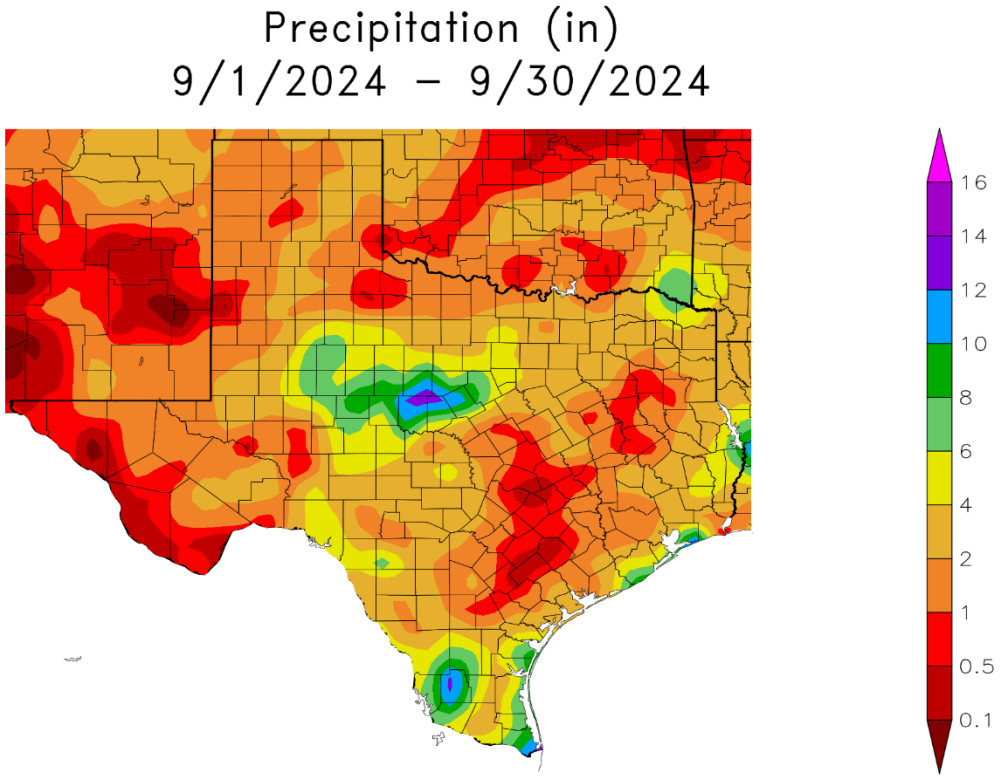

Figure 1: Total Precipitation for September.

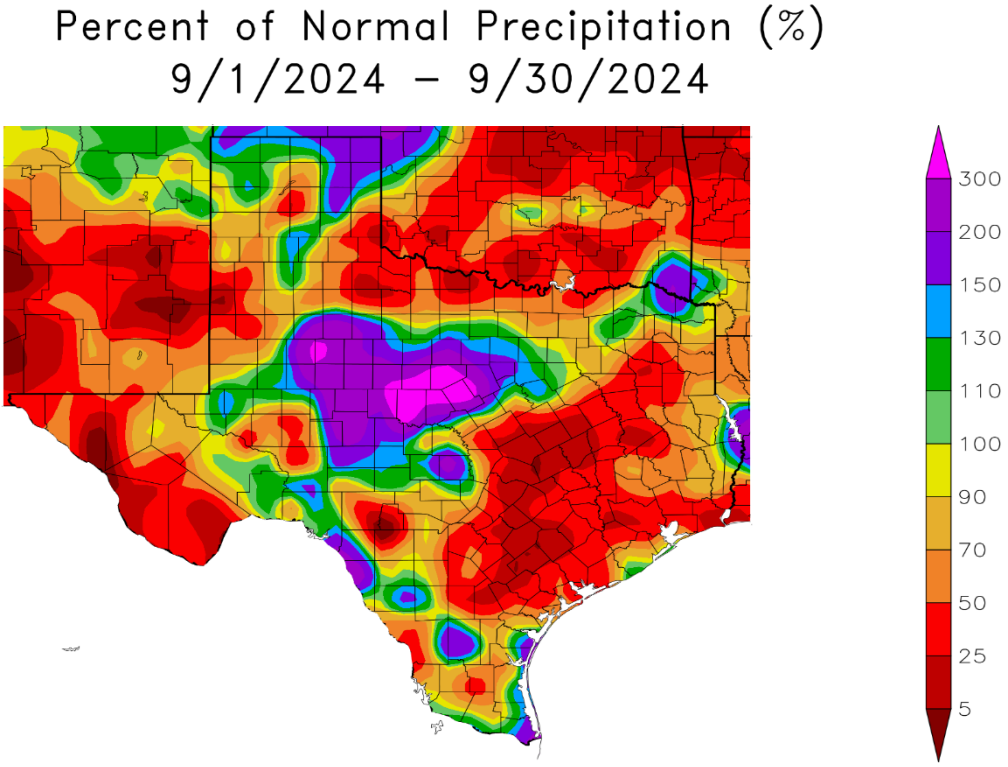

Figure 2: Percentage of Normal Precipitation for September.

Precipitation for September varied from well-above to well-below normal in west-central Texas. For all except far southern parts of the area and part of northern Crockett County, September rainfall was above normal (green, blue and purple shading in Fig. 2). The monthly rainfall was more than 200 percent of normal (medium and light purple shading in Fig. 2) across much of the northern half of the area. On the dry end of the spectrum, September rainfall was less than 50 percent of normal (red shading in Fig. 2) in parts of northern Crockett County.

September 2023 Weather Highlights

A significant rain event and change to much cooler temperatures occurred early in the month. With the approach of an upper level low pressure system into a very moist airmass, numerous showers and a few thunderstorms occurred Sep. 2-3. Flooding and flash flooding occurred. Details of the significant/excessive rain event can be seen here.

With widespread cloud cover, considerable cloud cover, temperatures were much cooler and limited to the 70s for highs Sep. 2, and Sep. 3-4 in northern and central parts of the area.

Dry and hotter conditions occurred Sep. 13-18, when an upper level high pressure ridge was over the southern Plains and Texas. The hottest temperatures were Sep. 13-15 (mid 90s to around 100 degrees). Above normal temperatures continued Sep. 19-21.

A notable change in the pattern occurred Sep. 22-24, resulting in wetter and cooler conditions. The upper level high pressure system broke down and shifted south and east of the area, while upper level disturbances moved east across the southern Plains. With the arrival and passage of a cold front Sep. 22, scattered to numerous showers and thunderstorms occurred in northern and central parts of west-central Texas. Some additional showers and storms occurred Sep. 23-24. Locally heavy rainfall accompanied the showers and storms. After the cold frontal passage Sep. 22, temperatures Sep. 23 were much cooler with considerable cloud cover. Highs Sep. 23 were mostly in the 70s.

The last several days of the month were dry with clear skies and seasonably warm afternoon temperatures. Early morning lows were mostly in the 50s, with a few lower 60s.

Additional Tabular and Graphical Daily Climate Data