Climate and Weather Summary for January 2019

Temperatures in January averaged slightly above normal at Abilene and San Angelo. Precipitation was below normal at both locations. Table 1 summarizes January 2019 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 January Precipitation (In.)
Abilene	46.2°	1.3°	44.9°	0.86”	-0.16”	1.02”
San Angelo	47.4°	1.0°	46.4°	0.32”	-0.61”	0.93”

Table 1: January 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	78° on Jan. 18	50° on Jan. 7	30° on Jan. 2	24° Jan. 25, 29	0.52” on Jan. 11
San Angelo	79° on Jan. 18	52° on Jan. 11	32° on Jan. 2	20°on Jan. 29	0.23” on Jan. 11

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

- In January, no snowfall was recorded at San Angelo.
  Abilene recorded 0.1 inches of sleet on Jan. 3.
- No daily record high or low temperatures were set during the month at Abilene and San Angelo
- No daily record precipitation amounts were set during the month at Abilene and San Angelo

A Map of total precipitation for January is shown in Figure 1 (below).

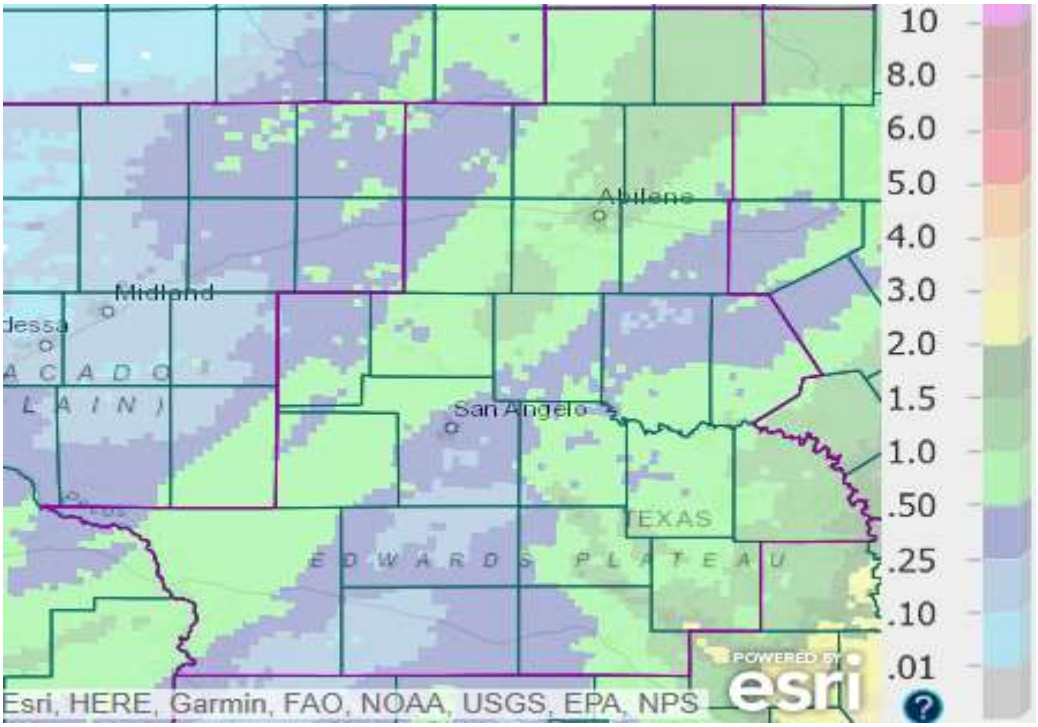

Figure 1: Total Precipitation for January.

The monthly precipitation precipitation for January varied from slightly above to below normal (not shown).

Weather Highlights:

Temperatures were much colder on New Year's Day, following passage of a strong cold front during the preceding night. With the gradual approach of an upper level storm system from the southwestern states and temperatures below freezing, freezing drizzle and light freezing rain occurred on Jan. 2. Icy patches developed on area roadways, and numerous traffic accidents were reported in the Abilene and San Angelo areas. Some light freezing rain and sleet occurred in the Big Country on the early morning of Jan. 3. As the upper level storm system move east across northwestern Texas into the Red River Valley, scattered snow showers occurred across the Big Country. However, little or no snow accumulation occurred.

A more tranquil weather pattern followed Jan. 4-7 with much warmer temperatures. Daily highs were in the upper 60s and lower 70s. Temperatures were cooler on the 9th, following a dry cold frontal passage on the 8th.

With an increase in moisture and the arrival of a weak upper level disturbance, light rain showers occurred Jan. 10 across central and southern parts of west-central Texas. Rainfall amounts varied mostly under one quarter of an inch. With the approach of a stronger upper level disturbance from the

west, a band of showers and isolated thunderstorms moved slowly east across west-central Texas on Jan. 11. On the evening of the 11th, a band of showers and thunderstorms with brief heavy rain moved east across parts of the Big Country and northern Concho Valley. Rainfall amounts for Jan. 11 are shown in Figure 2 below.

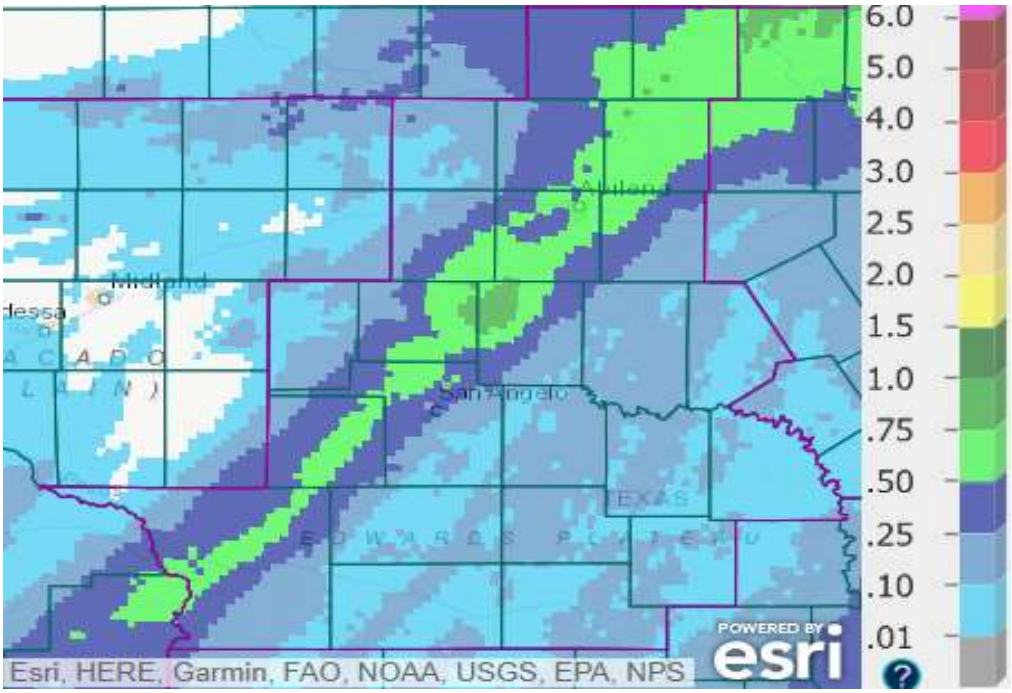

Figure 2: Precipitation for the 24-hour period ending at 6 AM, Jan. 12.

The heavier rainfall (between one quarter and three quarters of an inch, with isolated higher totals) occurred in a northeast to southwest band (dark blue and green shading across the area).

A colder airmass settled south into west-central Texas Jan. 13-14. With daytime cloud cover, highs were limited to the upper 30s to lower 40s across northern and central parts of the area on the 13th. Highs were in the 40s on the 14th.

A dry and quiet weather pattern followed Jan. 15-17, with a warming trend in temperatures. Patchy dense fog, with visibilities of one quarter of a mile or less, affected southern parts of the area along the Interstate 10 corridor, on the early morning of the 17th.

Fairly strong, gusty winds occurred from the afternoon of the 18th into the daytime hours of the 19th. These gusty winds were in association with a deepening upper level trough and fairly strong cold front which moved through the area. West-southwest winds shifted to northwest with passage of the cold front. The strongest winds occurred on the evening of Jan. 18 across northern and central parts of west-central Texas, prior to the cold frontal passage. Table 3 (below) shows where recorded peak gusts were 40 mph or higher.

Location	Peak Wind Gust (mph)
Abilene (Airport)	52
Clyde	51
Fort Chadbourne	53
Haskell	54
Mertzon	43
Rotan (5 W)	56
San Angelo (Airport)	45
San Angelo (7 NW)	40
Stamford (5 ESE)	55
Sterling City (4 WSW)	48
Sweetwater (11 SW)	52
Wall	42
Weinert	48

Table 3: Peak Wind Gusts on January 18.

In the hours following the cold frontal passage (post-Midnight hours of Jan. 19), peak wind gusts were 40-45 mph across much of the northern and central parts of west-central Texas. Scattered showers occurred across mainly the Big Country and southeastern parts of west-central Texas. Rainfall amounts were less than three tenths of an inch. After well-above normal highs in the 70s on the 18th, temperatures were much cooler on the 19th.

Gusty winds occurred again on Jan. 21-22, and peak gusts were in the 35-45 mph range across much of west-central Texas. Winds were from the south on the 21st and much of the day on the 22nd. Following a cold frontal passage during the late afternoon and evening hours, winds were from the north.

Most of the last week of January was dry, with a couple of cold frontal passages. Scattered showers (associated with an upper level disturbance) occurred on the night of Jan. 26, across eastern and northern parts of west-central Texas. Scattered locations southeast of San Angelo into the Northwest Hill Country received one-half to 1.5 inches of rainfall. Elsewhere, the amounts varied under one-half inch.

Gusty north winds followed a cold frontal passage on Jan. 28. The stronger winds occurred across the Big Country area, where peak gusts were over 40 mph. The highest gusts were recorded at Mesonet sites 11 miles west of Sweetwater (54 mph) and 5 miles west of Rotan (52 mph).

Additional Tabular and Graphical Daily Climate Data