Climate and Weather Summary for February 2020

Temperatures in February averaged slightly below normal at Abilene and San Angelo. Precipitation was above normal at San Angelo and well-above normal at Abilene. Table 1 summarizes February 2020 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 February Precipitation (In.)
Abilene	47.9°	-0.7°	48.6°	3.22”	1.86”	1.36”
San Angelo	50.0°	-0.4°	50.4°	1.74”	0.39”	1.35”

Table 1: February 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° Feb. 2, 16	56° on Feb. 3	32° on Feb. 5	15° on Feb. 6	0.90” Feb. 19
San Angelo	86° on Feb. 17	55° Feb. 3, 9	35° on Feb. 5	21°on Feb. 27	1.00” Feb. 19

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

- 6th wettest February on record at Abilene.
- Abilene February snowfall was 3.5 inches (on Feb. 5).
  San Angelo February snowfall was 0.3 inches (on Feb. 5).

A Map of total precipitation for February is shown in Figure 1 (below). Percentage of normal precipitation for February is shown in Figure 2.

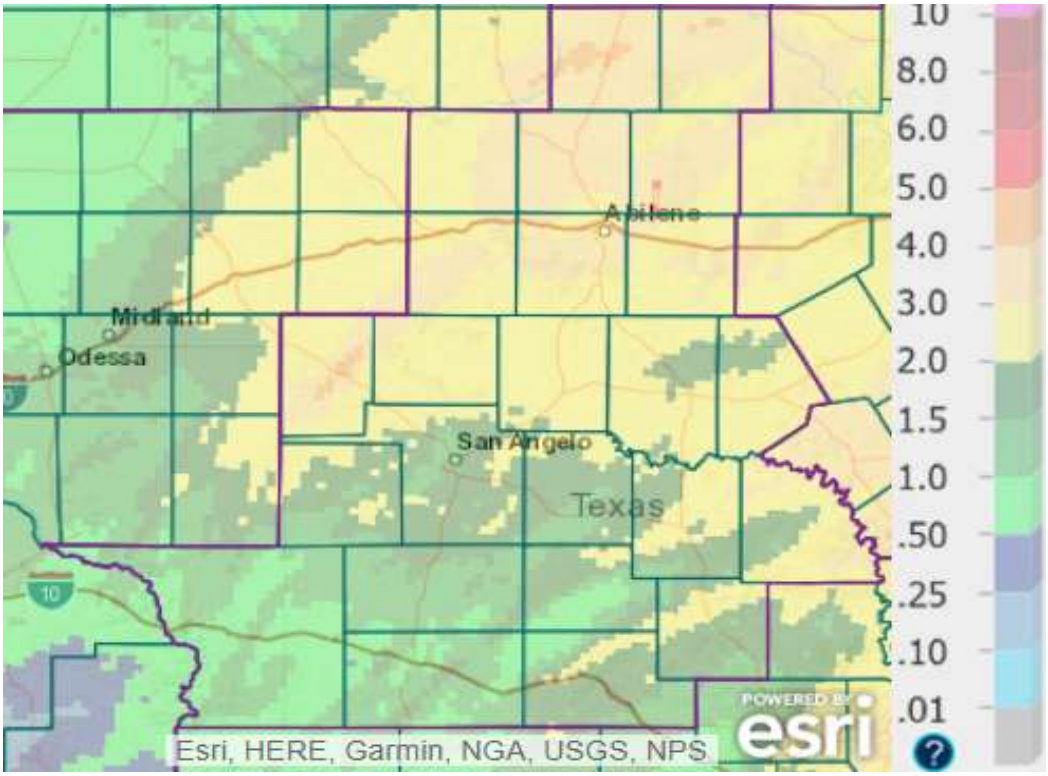

Figure 1: Total Precipitation for February.

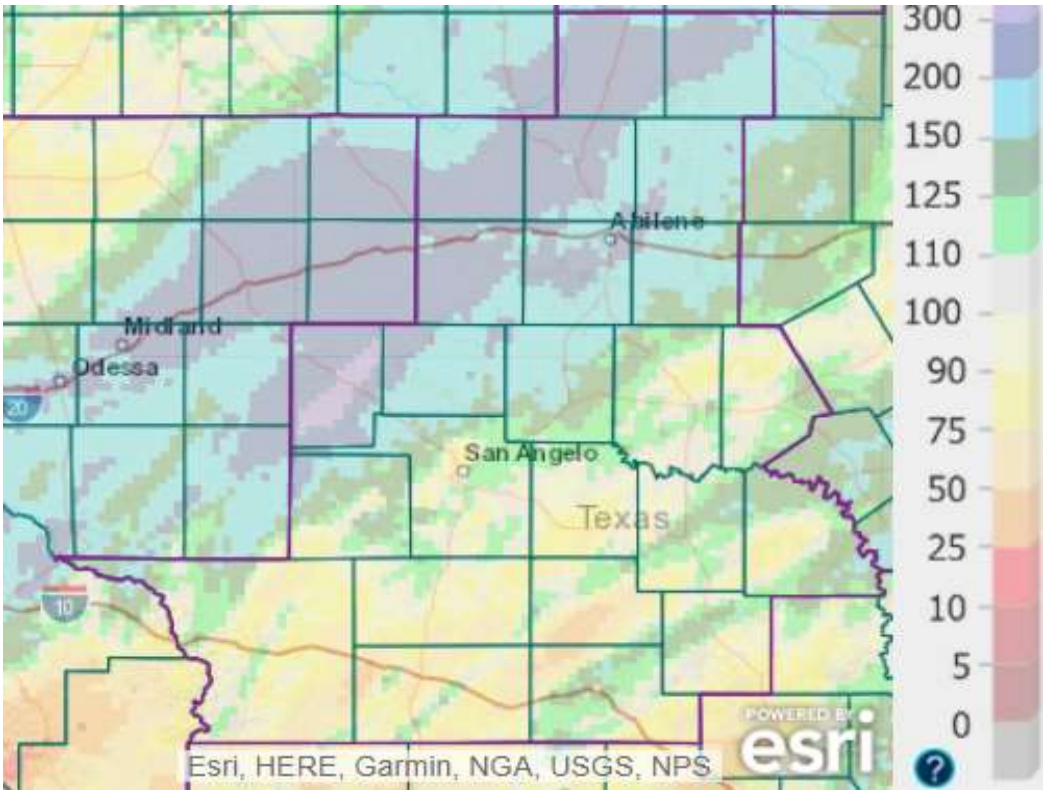

Figure 2: Percentage of Normal Precipitation for February.

February precipitation ranged from less than one inch, to more than 4 inches (Figure 1). The monthly precipitation was well-above normal across the Big Country, along with northern and western parts of the Concho Valley (blue and purple shading in Figure 2). The monthly precipitation was near to below normal across much of the southern third and some of the east-central parts of west-central Texas.

Weather Highlights:

Afternoon temperatures were well-above normal during the first few days of February, when highs were mostly in the 70s.

A winter weather event occurred on Feb. 4-5. Much colder air invaded the area following a strong cold frontal passage. With the approach of a strong upper level storm system from the west, mixed winter precipitation developed on the evening of the 4th and continued on the 5th. The precipitation began as a cold rain across central and southwestern parts of west-central Texas, and as a mix of rain, sleet and snow across the Big Country. Overnight, the precipitation transitioned into a snow and sleet mix across the northern third of west-central Texas, and to a mix of sleet and freezing rain across much of the Concho Valley. Precipitation continued during the day on the 5th as mostly snow. The snowfall was heaviest across the Big Country and northwestern Concho Valley, where 5-10 inches were reported. Lower amounts of 1-3 inches occurred across parts of the Concho Valley, and amounts were less than 1 inch elsewhere.

Wind chill values on the morning of Feb. 5 were in the teens, with brisk north winds. With cloudy skies and snow, temperatures on the 5th only recovered into the 30s for highs. Clearing skies and diminishing winds the following night resulted in very cold temperatures. Early morning lows on Feb. 6 were in the single digits and teens across much of the northern and central parts of west-central Texas. The coldest lows occurred in the northern and western Big Country, and northwestern Concho Valley, where snow cover was deeper. The GOES Visible Satellite image below shows snow cover on the morning of Feb. 6.

With sunny skies and west winds, temperatures on Feb. 6 recovered into mostly the 40s to lower 50s for afternoon highs.

A warming trend occurred Feb. 7-9 with a return to above normal temperatures. A strong cold frontal passage during the overnight hours of Feb. 9-10 was followed by much colder temperatures on Feb. 10.

Cold and wet conditions occurred Feb. 10-11, when periods of rain occurred with the approach of a strong upper level disturbance from the southwestern part of the country. Rainfall of one-half to 1.5 inches occurred across much of the area. A few storms contained small hail.

A warming trend with dry conditions ensued Feb. 14-17. On Feb. 16-17, temperatures were warm and spring-like, with highs mostly in the mid 70s to lower 80s. This warmth ended with a cold frontal passage (evening of Feb. 17 into the early morning of Feb. 18). Temperatures trended colder Feb. 18-19 and were well-below normal, with cloudy skies.

Rain occurred from the afternoon of the 18th into the post-Midnight hours of the 19th. Rainfall amounts are shown in Figure 2.

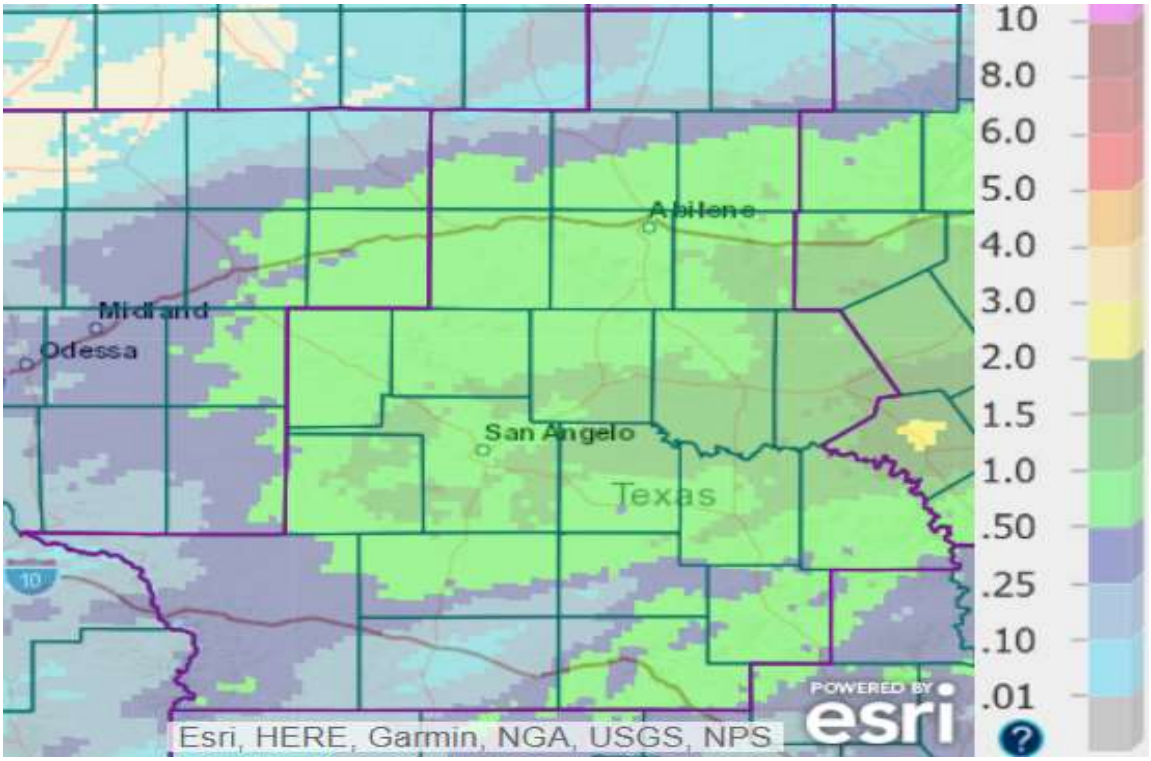

Figure 3: Rainfall for the 7-day period ending at 6 AM, Feb. 24. This captured the rain event Feb. 18-19.

Rainfall amounts varied between 0.5 inches and 1.5 inches across much of west-central Texas.

Damp and cold conditions on the 19th were accompanied by brisk north winds.

Mostly dry conditions prevailed during the last week of February. Temperatures fluctuated between above and below normal. Following a couple of cold frontal passages, temperatures were much colder on Feb. 26. Early morning wind chill values were in the upper teens to lower 20s, with brisk north winds. Afternoon highs were in the mid 40s to lower 50s. With a combination of clear skies, light winds and rather dry air, temperatures dropped into the teens and 20s for early morning lows on Feb. 27. The coldest readings, in the teens, occurred in low-lying areas and river valleys of central and southern parts of west-central Texas. The month ended with a warming trend.

Additional Tabular and Graphical Daily Climate Data