

Climate and Weather Summary for March 2025

Temperatures in March averaged well-above normal at Abilene and San Angelo. Precipitation was well-below normal at both locations. Table 1 summarizes March 2025 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 Mar. Precipitation (In.)
Abilene	63.5°	5.4°	58.1°	0.64"	-1.09"	1.73"
San Angelo	63.6°	4.2°	59.4°	0.12"	-1.36"	1.48"

Table 1: Mar. 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	93° on Mar. 29	63° Mar. 26, 29	62° on Mar. 8	30° on Mar. 20	0.54" Mar. 4
San Angelo	93° on Mar. 18	64° on Mar. 26	64° on Mar. 8	28° on Mar. 20	0.12" Mar. 4

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

- Several weather events occurred in March with strong, gusty winds, intrusions of very dry air and episodes of blowing dust with reduced visibility.
- Peak daily wind gusts were 40 mph or more on 10 days at Abilene, and 9 days in San Angelo.
- Abilene tied its 3rd warmest March on record (average monthly temperature 63.5° tied with March, 1967 and 1938).
- San Angelo set its 6th warmest March on record (average monthly temperature 63.6°).

Total precipitation and percentage of normal precipitation, for March, are shown in Figures 1 and 2 (next page. These maps were generated at the High Plains Regional Climate Center.

Precipitation (in)
3/1/2025 – 3/31/2025

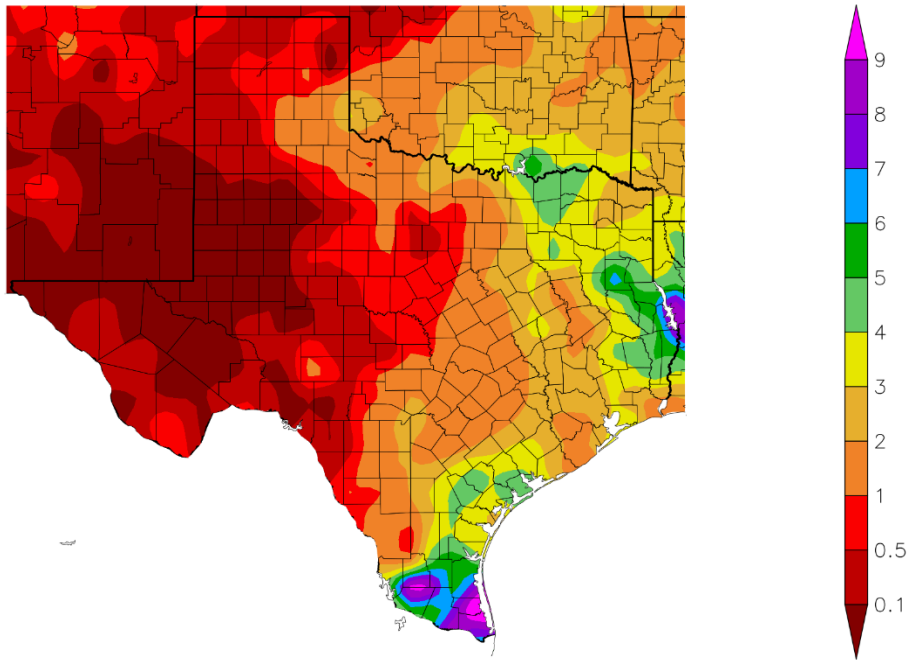


Figure 1: Total Precipitation for March.

Percent of Normal Precipitation (%)
3/1/2025 – 3/31/2025

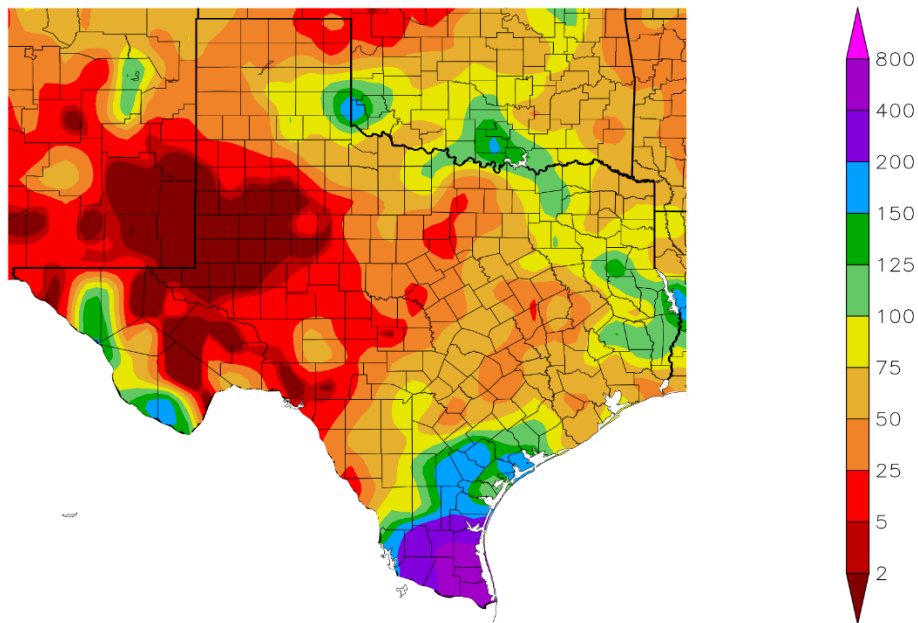


Figure 2: Percentage of Normal Precipitation for March.

March precipitation was well-below normal across nearly all of west-central Texas (orange and red shading in Fig. 2).


March 2025 Weather Highlights

With rather dry airmasses and low daytime relative humidity, daily temperature ranges (between the morning lows and afternoon highs) were large (35 to 45 degrees) on numerous days in March.

Daytime temperatures were warm Mar. 1-3, and gusty south winds occurred ahead of a dryline Mar. 2-3. Peak wind gusts on March 2 were 40-50 mph at numerous locations in northern and central parts of west-central Texas. The highest recorded gust was 56 mph at Rotan.

Very strong winds and blowing dust occurred Mar. 4, as a potent upper level storm system tracked east across the southern Plains. With the approach of the system and a Pacific cold front, a line of thunderstorms developed during the post-Midnight hours and moved rapidly east across central and eastern parts of west-central Texas. A few of the storms were strong to severe with damaging winds and hail up to quarter size. Prior to the development of storms, gusty south winds occurred with development of a low-level jet. A peak wind gust of 66 mph was recorded at the Junction Airport. A few severe weather reports were received with the line of storms. Brief heavy rain accompanied the storms. Rainfall amounts generally varied from one tenth to one-half inch, with localized higher amounts east of a Throckmorton to Abilene to Coleman line. After passage of the Pacific cold front, strong west winds developed on the morning of Mar. 4 and continued in the afternoon. Peak wind gusts were 50-65 mph across much of the area. With this setup, an area of blowing dust overspread the area. Visibilities were reduced to 2-5 miles, with localized reports of less than 1 mile.

The table below shows Peak Wind Gusts at West Texas Mesonet Sites March 4.



Latest Conditions as of 1157 PM, Tue Mar 04, 2025

Latest N C S ABQ AMA
Daily Sum 3hrΔ
Site Data 24hr Precip

Station	Time of Last	Temp	Dew Pt.	RH	Wind Direction	Wind Speed	Wind Gust	Max Wind	Max Temp	Min Temp	Max RH	Min RH	Altimeter	1HR Rain	Today's Rain
Abilene 3NE ↗ ↗ ↑	11:55 PM	52	30	43%	N	13	18	58 mph 289° @ 1257 PM	69	43	90	24	29.96"	0	0.57
Albany 3ENE ↗ ↗ ↑	11:55 PM	51	32	48%	N	9	12	61 mph 300° @ 0131 PM	70	43	91	24	29.95"	0	0.54
Clyde 2WNW ↗ ↗ ↑	11:55 PM	50	25	37%	N	14	18	56 mph 301° @ 0250 AM	67	43	87	19	29.97"	0	0.46
Doole 3WNW ↗ ↗ ↑	11:55 PM	53	33	46%	NW	5	6	62 mph 257° @ 1201 PM	71	46	98	23	29.95"	0	0.31
Fort Chadbourne ↗ ↗ ↑	11:55 PM	50	30	46%	NW	3	4	57 mph 290° @ 1148 AM	67	39	91	22	29.97"	0	0.17
Fort Lancaster ↗ ↗ ↑	11:55 PM	58	15	19%	N	9	11	55 mph 246° @ 0119 AM	74	54	76	12	29.98"	0	0
Fort McKavett ↗ ↗ ↑	11:55 PM	53	30	40%	W	2	2	53 mph 260° @ 1147 AM	69	50	89	21	29.97"	0	0.17
Haskell 1NW ↗ ↗ ↑	11:55 PM	49	30	47%	N	22	31	64 mph 300° @ 0221 PM	67	46	81	22	29.92"	0	0.09
Junction 1SSW ↗ ↗ ↑	11:55 PM	47	32	55%	NE	2	2	44 mph 148° @ 1229 AM	71	47	86	16	29.95"	0	0.08
Menard 2NW ↗ ↗ ↑	11:55 PM	51	32	47%	W	2	3	55 mph 299° @ 0221 PM	69	47	89	20	29.96"	0	0.13
Mertzon 3NNE ↗ ↗ ↑	11:55 PM	45	33	63%	S	2	2	51 mph 269° @ 1119 AM	70	44	100	18	29.97"	0	0.17
Rotan 5W ↗ ↗ ↑	11:55 PM	49	29	45%	N	10	14	64 mph 272° @ 1105 AM	67	49	77	13	29.98"	0	0
San Angelo 7NW ↗ ↗ ↑	11:55 PM	51	33	51%	N	5	7	60 mph 309° @ 0227 AM	70	44	92	24	29.95"	0	0.13
Segovia 7SSW ↗ ↗ ↑	11:55 PM	54	29	39%	N	5	7	50 mph 274° @ 1157 AM	69	49	97	16	29.96"	0	0.08
Shields 3E ↗ ↗ ↑	11:55 PM	55	32	42%	NW	13	16	58 mph 246° @ 1231 PM	70	45	95	23	29.92"	0	0.34
Stamford 5ESE ↗ ↗ ↑	11:55 PM	50	31	47%	N	10	13	59 mph 281° @ 1139 AM	68	43	84	20	29.96"	0	0.08
Sterling City 4WSW ↗ ↗ ↑	11:55 PM	49	27	43%	W	5	6	54 mph 255° @ 0138 AM	68	47	78	15	29.98"	0	0.10
Sweetwater 11SW ↗ ↗ ↑	11:55 PM	45	30	54%	N	10	11	61 mph 270° @ 1023 AM	65	45	84	17	29.99"	0	0.13
Throckmorton 1SW ↗ ↗ ↑	11:55 PM	48	30	49%	N	12	17	60 mph 314° @ 0436 PM	68	45	93	29	29.94"	0	0.47
Wall 2E ↗ ↗ ↑	11:55 PM	51	32	49%	SW	0	1	57 mph 270° @ 1123 AM	71	45	97	24	29.97"	0	0.14
Weinert 2NNE ↗ ↗ ↑	11:55 PM	46	30	52%	N	9	10	55 mph 320° @ 0343 PM	68	46	78	20	29.95"	0	0.11

Preliminary Local Storm Report Summary for March 4:

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=LSRSJT&e=202503050016>

Temperatures varied considerably Mar. 5-11. A strong warmup Mar. 6-7 was followed by much cooler temperatures Mar. 8-9, due to a cold frontal passage. The presence of the cold front with the arrival of an upper level disturbance brought scattered to numerous showers and thunderstorms to the northern half of the area, mostly between Midnight and Noon. Rainfall was locally heavy. Fig. X shows rainfall amounts from Midnight to Noon on Mar. 8.

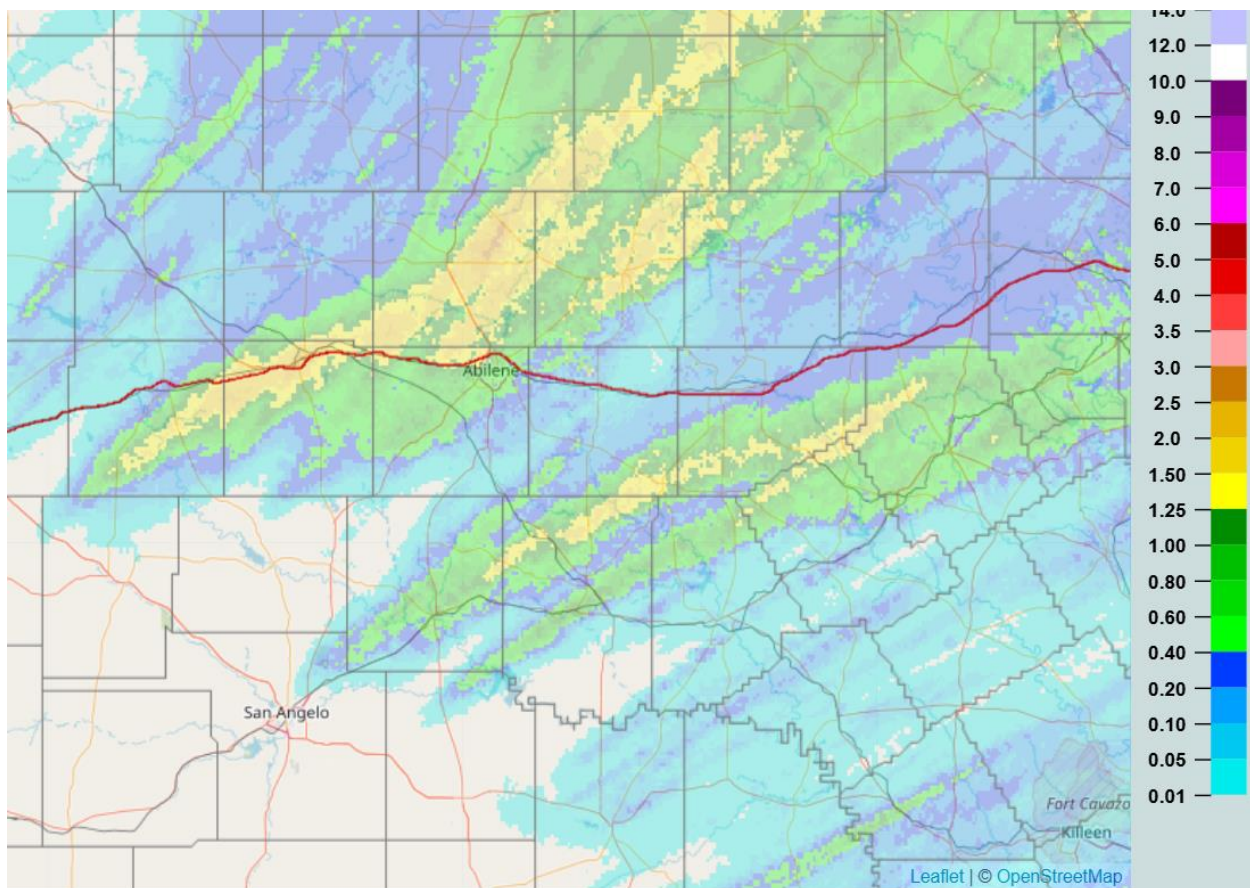
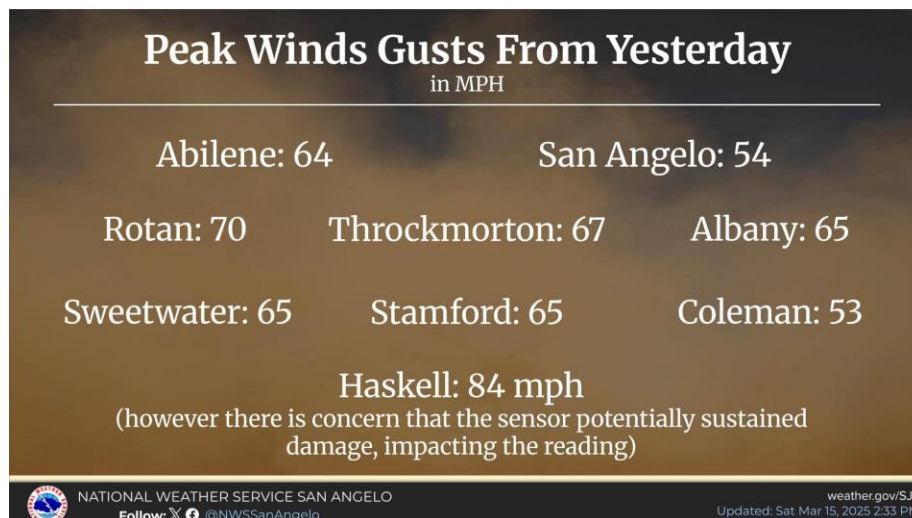


Figure X: Rainfall from Midnight to Noon on March 8.

Strong, gusty west winds occurred Mar. 12, as a strong upper level disturbance moved east across the area. The strong winds brought an intrusion of very dry air, and an area of blowing dust overspread the west-central Texas during the late afternoon and early evening hours. Visibilities were reduced to 3-6 miles. Peak wind gusts were 50-60 mph at several in the Big Country north of Interstate 20. The highest recorded gust was 63 mph at a West Texas mesonet site 11 miles southwest of Sweetwater. Farther south across the rest of west-central Texas, peak wind gusts were mostly 40-50 mph. With the dry air intrusion, relative humidity values dropped into the 7-15 percent range. A wildfire was reported in San Saba County, to the northeast of Richland Springs.

Strong, gusty west winds followed passage of a weak cold front Mar. 14. With these winds, a large area of blowing dust overspread the area. Visibilities were mostly reduced to 3-6 miles. The graphic below shows several of the higher peak wind gusts which were recorded across the area.



Breezy south-southwest winds occurred Mar. 17-18. Afternoon temperatures were very warm Mar. 18, with highs in the mid 80s to lower 90s.

A weak cold frontal passage during the overnight hours of Mar. 18-19 was followed by strong, gusty west winds and an intrusion of blowing dust. West winds shifted to northwest with a secondary cold frontal passage, but remained strong and gusty Mar. 18. Blowing dust continued ahead of the secondary cold front. Peak wind gusts Mar. 18 were 40-55 mph at numerous locations.

A freeze occurred at numerous locations Mar. 20, as a high pressure system settled into the area. Clear skies, very dry air and light winds allowed temperatures to drop into the 20s and 30s for early morning lows Mar. 20.

This was followed by much warmer temperatures and gusty south to southwest winds Mar. 21. Highs were in the upper 70s and lower 80s, and peak wind gusts were 40 mph or more at a few locations (including Abilene and San Angelo). Daytime temperatures were generally warm late in the month, with dry conditions. The warmest days were Mar. 25 and 29, when highs were in the upper 80s and lower 90s.

A few strong to severe storms occurred Mar. 29 in the evening in parts of the Concho Valley and Heartland, and Mar. 30 in the early morning in parts of the Heartland. On Mar. 29, hail up to quarter size was reported at Lake Brownwood, and wind gusts 60-65 mph were reported near 4 miles west-southwest of Christoval.

The month ended with cooler temperatures Mar. 31, following a cold frontal passage.