

Storm Data and Unusual Weather Phenomena - March 2025

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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TEXAS, South Panhandle

CHILDRESS COUNTY --- 1.1 WNW KIRKLAND [34.39, -100.09]

03/02/25 14:15 CST	0	Hail (1.00 in)
03/02/25 14:15 CST	0	Source: Public

A public report was received of quarter size hail west of Kirkland.

A compact upper level low pressure system tracked across New Mexico and West Texas from the morning to afternoon on the second. Strong forcing for ascent with this system combined with a dryline in the Rolling Plains and abundant instability generated isolated thunderstorms in the extreme southeastern Texas Panhandle into western Oklahoma. One of these storms became severe in eastern Childress County producing quarter size hail.

(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z033) COCHRAN

03/03/25 15:40 CST	0	High Wind (MAX 58 kt)
03/03/25 18:55 CST	0	

On the third, a large and intense mid to upper level system emerged from the Intermountain West. Despite considerable cloud cover, winds gradually increased through the afternoon, particularly across the western Texas Panhandle and western South Plains, where wind gusts of 55 to 70 mph were common. The intense wind lofted copious amounts of blowing dust, primarily originating from northern Mexico, Far West Texas, and southeastern New Mexico. This dust dropped the visibility to a few miles or lower late in the afternoon into the evening.

High wind gusts from the Texas Tech University West Texas mesonet are listed below:

67 mph at Earth (Lamb County),
67 mph at Friona (Parmer County),
65 mph at Hart (Castro County),
64 mph at Muleshoe (Bailey County),
62 mph at Amherst (Lamb County),
61 mph at Dimmitt (Castro County),
60 mph at Tulia (Swisher County), and
58 mph at Morton (Cochran County).

(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z025) HALL, (TX-Z026) CHILDRESS, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z030) FLOYD, (TX-Z031) MOTLEY, (TX-Z032) COTTLE, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z037) DICKENS, (TX-Z038) KING, (TX-Z039) YOAKUM, (TX-Z040) TERRY, (TX-Z041) LYNN, (TX-Z042) GARZA, (TX-Z043) KENT, (TX-Z044) STONEWALL

03/04/25 05:55 CST	0	High Wind (MAX 68 kt)
03/04/25 17:50 CST	0	

(TX-Z032) COTTLE

03/04/25 12:00 CST	0	Dust Storm
03/04/25 16:00 CST	0	

A strong storm system, which brought high winds to the western South Plains the day prior to the western South Plains and southwestern Texas Panhandle, emerged onto the High Plains bringing widespread high winds to the entire region. Wind speeds quickly rose after sunrise immediately in advance of a band of precipitation racing southeastward from the western Texas Panhandle into the northern and central South Plains. Where temperatures were coolest, a burst of snow impacted the extreme southwestern Texas Panhandle. However, the duration of snowfall was not prolonged and with temperatures near freezing did not produce any significant accumulation. After the precipitation ended by late morning, widespread blowing dust returned to the area. Wind gusts of 60 to 70 mph were common over the entire area, with several gusts in excess of 70 mph measured in the Rolling Plains and eastern Texas Panhandle. The intense winds did cause some damage including downing trees and power lines as well as causing roof damage in Dickens (Dickens County). Thick blowing dust also contributed to a vehicle running into the ditch south of Paducah (Cottle County).

High wind gusts from the Texas Tech University West Texas mesonet network are below:

78 mph at White River Lake (Crosby County),
74 mph at Graham (Garza County),
73 mph at Guthrie (King County),
70 mph at Jayton (Kent County),
70 mph at Paducah (Cottle County),

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68 mph at Childress (Childress County), 68 mph at Northfield (Motley County), 67 mph at O'Donnell (Lynn County), 67 mph at McAdoo (Dickens County), 66 mph at Spur (Dickens County), 66 mph at Post (Garza County), 65 mph at Levelland (Hockley County), 65 mph at Matador (Motley County), 64 mph at Brownfield (Terry County), 64 mph at Wolfforth (Lubbock County), 63 mph at Plains (Yoakum County), 63 mph at Morton (Cochran County), 63 mph at Memphis (Hall County), 62 mph at Anton (Hockley County), 62 mph at Aspermont (Stonewall County), 62 mph at Tulia (Swisher County), 62 mph at Slaton (Lubbock County), 62 mph at Tahoka (Lynn County), 62 mph at Lake Alan Henry (Garza County), 62 mph at New Home (Lynn County), 62 mph at Hackberry (Cottle County), 61 mph at Vigo Park (Swisher County), 61 mph at Roaring Springs (Motley County), 61 mph at Floydada (Floyd County), 61 mph at Friona (Parmer County), 61 mph at Ralls (Crosby County), 61 mph at Hart (Castro County), 60 mph at Reese Center (Lubbock County), 60 mph at New Deal (Lubbock County), 59 mph at Amherst (Lamb County), 59 mph at Silverton (Briscoe County), 59 mph at Abernathy (Hale County), 58 mph at Happy (Swisher County), 58 mph at Lubbock (Lubbock County), 58 mph at Lesley (Hall County), 58 mph at Denver City (Yoakum County).				
The following high wind reports are from Automated Surface Observing Stations (ASOS) and Automated Weather Observing Stations (AWOS):				
74 mph at Childress Municipal Airport (Childress County), 70 mph at Denver City Municipal Airport (Yoakum County), 69 mph at Lubbock International Airport (Lubbock County), and 68 mph at Levelland Municipal Airport (Hockley County).				
Sustained high winds of 40 mph or greater were observed by the Texas Tech University West Texas mesonet sites below:				
44 mph at Muleshoe (Bailey County).				
(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z026) CHILDRESS, (TX-Z032) COTTLE, (TX-Z038) KING				
	03/08/25 13:00 CST	0		Winter Weather
	03/08/25 23:00 CST	0		
(TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z025) HALL, (TX-Z031) MOTLEY				
	03/08/25 14:00 CST	0		Heavy Snow
	03/09/25 00:00 CST	0		
A slow moving upper level low emerged from New Mexico and passed slowly across the South Plains region on the eighth. On the night of the seventh, a cold front moved through the region lowering temperatures for snow production. Initially, the air moving in behind the cold front was lacking in low level moisture. However, moisture gradually increased throughout the day as lift persisted ahead of the approaching upper level low. This led to precipitation expanding in coverage and intensify over the extreme southern Texas Panhandle and northern Rolling Plains during the afternoon and evening. Temperatures started out mild enough to support a cold rain, but the persistent and increasingly intense precipitation was sufficient to gradually cool the low levels enough to result in a change over to				

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snow. A band of heavy snowfall developed along a corridor from Silverton (Briscoe County) through Turkey (Hall County) and Northfield (Motley County) where six to nine inches of snow was observed.

Snowfall totals from NWS cooperative weather observers are listed below:

8.7 inches at Silverton (Briscoe County),
 8.5 inches at Northfield (Motley County),
 6.5 inches at Turkey (Hall County),
 4.0 inches at Flomot (Motley County),
 4.0 inches at Tulia (Swisher County),
 3.5 inches at Kirkland (Childress County),
 3.5 inches at Childress (Childress County),
 3.0 inches at Tell (Childress County),
 3.0 inches at 15S Paducah (King County),
 3.0 inches at Matador (Motley County),
 2.0 inches at 10S Paducah (Cottle County),
 2.0 inches at Friona (Parmer County),
 1.7 inches at Dimmitt (Castro County), and
 1.5 inches at Guthrie (King County).

(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z025) HALL, (TX-Z026) CHILDRESS, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z030) FLOYD, (TX-Z031) MOTLEY, (TX-Z032) COTTLE, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z037) DICKENS, (TX-Z038) KING, (TX-Z039) YOAKUM, (TX-Z040) TERRY, (TX-Z041) LYNN, (TX-Z042) GARZA, (TX-Z043) KENT, (TX-Z044) STONEWALL

03/14/25 04:38 CST	0	High Wind (MAX 73 kt)
03/14/25 18:01 CST	0	

(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z039) YOAKUM, (TX-Z040) TERRY, (TX-Z041) LYNN

03/14/25 11:00 CST	0	Dust Storm
03/14/25 16:00 CST	0	

An intense cyclone emerging over the southern High Plains on the 14th brought widespread high-impact weather to the entire region. Multiple weather hazards were observed which included severe winds, thick blowing dust, precipitation, and extremely critical fire weather. A Pacific cold front raced through the region during the early morning hours and brought light precipitation, mostly to areas on the caprock, as well as an initial bout of severe wind gusts. This first round of severe wind gusts kicked up blowing dust which quickly shifted into Oklahoma and North Texas. More intense westerly winds developed over the region through the mid to late morning hours and continued through the late afternoon. The widespread and long duration intense wind storm carried copious amounts of dust from eastern New Mexico into West Texas and areas farther east. Visibilities of less than one half mile were common for areas on the caprock with many areas experiencing brownout conditions. Limited visibility contributed to numerous vehicle accidents across the region. This included 18-wheelers that were blown over by the wind. Law enforcement closed several highways due to low visibilities. The severe winds also caused significant tree and property damage. Most severe wind gusts were measured between 65 and 75 mph with a peak wind gust of 84 mph at both Friona (Parmer County) and Dimmitt (Castro County). Lubbock International Airport (Lubbock County) measured a wind gust of 82 mph which is the highest wind gust recorded during the three month period from March through May dating back to 1945.

High wind gusts from the Texas Tech University West Texas mesonet network are below:

84 mph at Friona (Parmer County),
 84 mph at Dimmitt (Castro County),
 80 mph at Plainview (Hale County),
 80 mph at Vigo Park (Swisher County),
 79 mph at Silverton (Briscoe County),
 78 mph at Hart (Castro County),
 78 mph at Happy (Swisher County),
 78 mph at Tulia (Swisher County),
 78 mph at Caprock Canyons State Park (Briscoe County),
 77 mph at Muleshoe (Bailey County),
 77 mph at Amherst (Lamb County),
 77 mph at Lesley (Hall County),
 77 mph at Turkey (Hall County),
 75 mph at Earth (Lamb County),
 75 mph at Olton (Lamb County),
 74 mph at Morton (Cochran County),


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74 mph at Flomot (Motley County),				
74 mph at Floydada (Floyd County),				
74 mph at South Plains (Floyd County),				
73 mph at Abernathy (Hale County),				
73 mph at O'Donnell (Lynn County),				
73 mph at Shallowater (Lubbock County),				
72 mph at Aiken (Hale County),				
72 mph at Roaring Springs (Motley County),				
72 mph at Matador (Motley County),				
72 mph at Estelline (Hall County),				
72 mph at Guthrie (King County),				
71 mph at McAdoo (Dickens County),				
71 mph at Aspermont (Stonewall County),				
71 mph at Levelland (Hockley County),				
70 mph at Memphis (Hall County),				
69 mph at Anton (Hockley County),				
69 mph at New Deal (Lubbock County),				
69 mph at Northfield (Motley County),				
69 mph at Lubbock (Lubbock County),				
68 mph at Childress (Childress County),				
68 mph at Ralls (Crosby County),				
68 mph at White River Lake (Crosby County),				
67 mph at Sundown (Cochran County),				
67 mph at Wolfforth (Lubbock County),				
67 mph at Slaton (Lubbock County),				
67 mph at Plains (Yoakum County),				
67 mph at Spur (Dickens County),				
66 mph at Denver City (Yoakum County),				
66 mph at Paducah (Cottle County),				
65 mph at New Home (Lynn County),				
65 mph at Graham (Garza County),				
65 mph at Jayton (Kent County),				
65 mph at Hackberry (Cottle County),				
64 mph at Post (Garza County),				
63 mph at Tahoka (Lynn County),				
62 mph at Brownfield (Terry County),				
60 mph at Lake Alan Henry (Garza County).				

The following high wind reports are from Automated Surface Observing Stations (ASOS) and Automated Weather Observing Systems (AWOS):

82 mph at Lubbock International Airport (Lubbock County),
72 mph at Plainview-Hale County Airport (Hale County),
71 mph at Childress Municipal Airport (Childress County),
68 mph at Levelland Municipal Airport (Hockley County),
59 mph at Denver City Airport (Yoakum County).

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Damage sustained to the Littlefield Football stadium. Photograph is courtesy of Pete Christy.

(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z025) HALL, (TX-Z026) CHILDRESS, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z030) FLOYD, (TX-Z031) MOTLEY, (TX-Z032) COTTLE, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z037) DICKENS, (TX-Z038) KING, (TX-Z039) YOAKUM, (TX-Z040) TERRY, (TX-Z041) LYNN, (TX-Z042) GARZA, (TX-Z043) KENT	03/18/25 12:53 CST	0	High Wind (MAX 69 kt)
	03/19/25 14:53 CST	0	

(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z025) HALL, (TX-Z026) CHILDRESS, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z030) FLOYD, (TX-Z031) MOTLEY, (TX-Z032) COTTLE, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY,

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(TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z037) DICKENS, (TX-Z039) YOAKUM, (TX-Z040) TERRY, (TX-Z041) LYNN, (TX-Z042) GARZA				
	03/18/25 18:00 CST		0	Dust Storm
	03/18/25 21:00 CST		0	

A powerful storm system on the 18th brought widespread high winds and thick blowing dust. This system moved out of the Great Basin into Colorado throughout the day. Although winds became breezy during the afternoon hours in response to this approaching storm system, the strongest winds didn't arrive until a Pacific Cold front moved through the area around sunset. This boundary brought an abrupt wind shift to the west along with thick blowing dust from eastern New Mexico and Far West Texas. Blowing dust resulted in brownout conditions across the region leading to hazardous travel conditions. Winds began to decrease from west to east late in the evening as another cold front moved into the area from the north. This secondary cold front brought renewed high winds across the extreme southeastern Texas Panhandle into the early morning hours of the 19th. Breezy northwest winds remained in place through the day on the 19th which led to an isolated severe wind gust on the afternoon of the 19th in Parmer County.

High wind gusts from the Texas Tech University West Texas mesonet network are below:

79 mph at Amherst (Lamb County),
69 mph at Graham (Garza County),
69 mph at Muleshoe (Bailey County),
69 mph at Wolfforth (Lubbock County),
68 mph at Shallowater (Lubbock County),
68 mph at Plains (Yoakum County),
68 mph at Slaton (Lubbock County),
68 mph at New Deal (Lubbock County),
68 mph at New Home (Lynn County),
68 mph at Floydada (Floyd County),
68 mph at O'Donnell (Lynn County),
68 mph at Olton (Lamb County),
67 mph at Sundown (Cochran County),
67 mph at Plainview (Hale County),
67 mph at Tahoka (Lynn County),
67 mph at Brownfield (Terry County),
67 mph at Paducah (Cottle County),
67 mph at Levelland (Hockley County),
66 mph at Lesley (Hall County),
66 mph at McAdoo (Dickens County),
66 mph at Ralls (Crosby County),
66 mph at Denver City (Yoakum County),
65 mph at Guthrie (King County),
65 mph at White River Lake (Crosby County),
65 mph at Hackberry (Cottle County),
65 mph at Anton (Hockley County),
65 mph at Roaring Springs (Motley County),
65 mph at Morton (Cochran County),
64 mph at Silverton (Briscoe County),
64 mph at Flomot (Motley County),
64 mph at Post (Garza County),
64 mph at Abernathy (Hale County),
63 mph at Caprock Canyons State Park (Briscoe County),
63 mph at Friona (Parmer County),
63 mph at Spur (Dickens County),
63 mph at Jayton (Kent County),
63 mph at Northfield (Motley County),
62 mph at Tulia (Swisher County),
62 mph at Turkey (Hall County),
62 mph at Hart (Castro County),
62 mph at Earth (Lamb County),
61 mph at Matador (Motley County),
60 mph at Dimmitt (Castro County),
60 mph at Estelline (Hall County),
60 mph at Lake Alan Henry (Garza County),
59 mph at Memphis (Hall County),
59 mph at Aiken (Hale County),
58 mph at Vigo Park (Swisher County),
58 mph at Happy (Swisher County).

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The following high wind reports are from Automated Surface Observing Stations (ASOS) and Automated Weather Observing Systems (AWOS):

- 78 mph at Lubbock International Airport (Lubbock County),
- 66 mph at Levelland Municipal Airport (Hockley County),
- 61 mph at Childress Municipal Airport (Childress County),
- 60 mph at Denver City Airport (Yoakum County),
- 59 mph at Plainview-Hale County Airport (Hale County).