

Storm Data and Unusual Weather Phenomena - October 2021

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

(TX-Z028) LAMB, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z040) TERRY, (TX-Z041) LYNN, (TX-Z042) GARZA

10/10/21 13:11 CST	0	High Wind (MAX 63 kt)
10/10/21 16:05 CST	0	

LAMB COUNTY --- 9.0 WSW EARTH [34.18, -102.55]

10/10/21 13:59 CST	0	Thunderstorm Wind (MG 52 kt)
10/10/21 13:59 CST	0	Source: Mariner

A Texas Tech University West Texas mesonet site near Earth measured a wind gust to 60 mph. These winds were enhanced by strong gradient winds.

A strong upper level low moved from northern New Mexico across the Texas Panhandle during the day of the tenth. Strong daytime heating and deep mixing tapped into a low-level jet associated with the passing system. The winds were further enhanced along and immediately behind a Pacific cold front that raced from west to east across the South Plains through the mid to late afternoon hours. The peak wind gusts at most locations occurred immediately behind the Pacific front, when several sites recorded gusts in excess of 58 mph. Although the most intense gusts didn't last long, they did loft copious amounts of dust. Near Morton (Cochran County) a large tree was blown over which brought down several power lines. North of a stationary front, and closer to where the center of the mid-upper level system emerged, scattered showers and isolated storms developed during the afternoon. One more intense storm did provide brief heavy rain as it moved by just north of Muleshoe bringing wind gusts to 60 mph.

Peak high wind gusts from the Texas Tech University West Texas mesonet are below:

73 mph at Amherst (Lamb County), 65 mph at O'Donnell (Lynn County), 64 mph at Graham (Garza County), 62 mph at Brownfield (Terry County), 61 mph at Sundown (Cochran County), 60 mph at Levelland (Hockley County), and 58 mph at Anton (Hockley County).

KING COUNTY --- 10.0 WSW GUTHRIE [33.56, -100.49]

10/26/21 19:05 CST	0	Thunderstorm Wind (MG 52 kt)
10/26/21 19:05 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Guthrie measured a wind gust to 60 mph.

KENT COUNTY --- 8.3 W CLAIREMONT [33.16, -100.89]

10/26/21 19:12 CST	0	Hail (1.50 in)
10/26/21 19:12 CST	0	Source: Storm Chaser

A storm chaser measured hail up to ping pong ball size along US Highway 380 in Kent County.

COTTLE COUNTY --- 2.0 SSE HACKBERRY [33.90, -100.14]

10/26/21 19:42 CST	0	Thunderstorm Wind (MG 83 kt)
10/26/21 19:43 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Hackberry measured severe wind gusts from 1942 CST through 1943 CST. A peak wind gust of 96 mph was measured at 1943 CST.

A strong upper level storm system moving across northern New Mexico on the 26th brought severe thunderstorms to the Rolling Plains as moisture surged northward east of a dryline. As lift from the approaching system increased, storms rapidly developed along the dryline Tuesday evening across the central and eastern Rolling Plains. Strong wind shear and decent instability caused several of these storms to become severe as they rapidly evolved into a line. Ping pong ball sized hail was reported in rural Kent County. Even more impressive, a wind gust of 96 mph was measured by the Texas Tech University West Texas Mesonet near Hackberry (Cottle County) as the storms moved through.

(TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z025) HALL, (TX-Z026) CHILDRESS, (TX-Z032) COTTLE, (TX-Z036) CROSBY, (TX-Z042) GARZA

10/27/21 09:01 CST	0	High Wind (MAX 53 kt)
10/27/21 13:45 CST	0	

A slow moving upper level storm system which brought isolated severe thunderstorms to the Rolling Plains on the 26th, then brought strong winds on the 27th. A surface pressure gradient tightened by mid-morning and stronger northerly flow aloft quickly mixed to the surface. Most areas on the South Plains saw wind gusts in excess of 50 mph but the Rolling Plains and extreme southeastern Texas Panhandle saw wind gusts at or exceeding 58 mph. The Automated Surface Observing System at Childress Municipal Airport (Childress County) measured a wind gust to 60 mph.

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

61 mph at Memphis (Hall County),
60 mph at Graham (Garza County),
60 mph at Tulia (Swisher County),
60 mph at White River Lake (Crosby County),
59 mph at Paducah (Cottle County),
58 mph at Silverton (Briscoe County),
58 mph at Lesley (Hall County).

(TX-Z026) CHILDRESS

10/28/21 12:29 CST	0	High Wind (MAX 56 kt)
10/28/21 12:48 CST	0	

A slow moving upper level storm system over the Missouri River Valley allowed for another day of strong winds over the Rolling Plains and extreme southeastern Texas Panhandle. A peak wind gust of 64 mph was measured by the Automated Surface Observing System at Childress Municipal Airport (Childress County).