Storm Data and Unusual Weather Phenomena - August 2023

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details

TEXAS, South Panhandle

HALL COUNTY --- 2.0 WSW TURKEY [34.39, -100.91]

	08/04/23 19:27 CST	0	Thunderstorm Wind (MG 57 kt)
	08/04/23 19:29 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Turkey measured severe wind gusts from 1927 CST through 1929 CST. A peak wind gust of 66 mph was measured at 1928 CST.

Despite subsidence from an upper level ridge, strong heating and just enough mid-level moisture in the atmospheric column were able to create isolated thunderstorms in the extreme southern Texas Panhandle. Very dry sub-cloud layers allowed one of these storms to produce severe wind gusts near Turkey (Hall County).

TERRY COUNTY --- 2.0 S BROWNFIELD [33.15, -102.28], 2.4 NNE GOMEZ [33.21, -102.37]

	08/07/23 20:28 CST	0	Thunderstorm Wind (MG 52 kt)
	08/07/23 20:28 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Brownfield measured a severe wind gust of 60 mph. These winds caused damage to a vineyard just to the northwest of Brownfield destroying a center pivot irrigation system.

Early on the seventh a cold front moved through the region bringing cooler temperatures to the area. This front then retreated back northward as a warm from during the daytime. Strong instability south of the front and a weak short wave trough aloft contributed to scattered thunderstorms from late afternoon through the evening. One of these storms developed a wet microburst as it moved across Terry County. A vineyard to the northwest of Brownfield (Terry County) sustained damage from this wet microburst. A center pivot irrigation system was destroyed and some crops were damaged.

(TX-Z022) CASTRO

	08/08/23 19:35 CST	0	High Wind (MAX 51 kt)
	08/08/23 19:35 CST	0	

HALL COUNTY --- 2.0 S LESLEY [34.64, -100.80], 1.0 NE MEMPHIS [34.73, -100.52]

	08/08/23 21:19 CST	0	Thunderstorm Wind (MG 59 kt)
	08/08/23 21:51 CST	0	Source: Mesonet

A swath of severe thunderstorm winds were measured from two miles south of Lesley through one mile northeast of Memphis . The Texas Tech University West Texas mesonet sites near Lesley and Memphis measured severe wind gusts from 2119 CST through 2151 CST. A peak wind gust of 66 mph was measured at the Lesley mesonet while the Memphis mesonet measured a peak gust of 68 mph.

On the afternoon of the eighth, scattered thunderstorms developed off the higher terrain of eastern New Mexico from a weak short wave trough moving overhead. A large outflow boundary developed from this initial convection as it crossed the Texas/New Mexico state line. A severe wind gust of 59 mph along this outflow boundary occurred near Hart (Castro County) as measured by the Texas Tech University West Texas mesonet. Additional thunderstorms developed along this outflow boundary in the extreme southeastern Texas Panhandle as it moved eastward. A severe thunderstorm produced a swath of severe winds from Lesley (Hall County) to Memphis (Hall County).

CHILDRESS COUNTY --- 3.9 SE ARLIE [34.68, -100.03]

	08/12/23 00:48 CST	0	Thunderstorm Wind (EG 70 kt)
	08/12/23 00:48 CST	0	Source: Trained Spotter

An isolated thunderstorm produced extensive wind damage in rural northeastern Childress County near the intersection of US Highway 62 and Farm to Market Road 1642. Several power poles were snapped and a center pivot irrigation system was overturned.

Isolated thunderstorms that formed late in the afternoon and evening of the 11th persisted into the early morning hours of the 12th as they moved across the Rolling Plains. One of these storms produced wind damage in far northeastern Childress County underneath a very dry sub-cloud layer. Several power poles were snapped as well as a tipped over center pivot irrigation system.

(TX-Z028) LAMB

	08/13/23 19:55 CST	0	High Wind (MAX 52 kt)
	08/13/23 19:55 CST	0	

An MCS developed in the Texas Panhandle as a result of strong surface heating and abundant mid-level moisture overhead. This MCS generated a strong outflow boundary which moved south into the Texas South Plains. As the outflow boundary quickly moved southward, it was able to create a severe wind gust near Olton (Lamb County). A Texas Tech University West Texas mesonet site near

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Olton measured a wind gust to 60 mph as the outflow boundary pushed through.

(TX-Z035) LUBBOCK

08/29/23 16:04 CST		0	Strong Wind (MAX 43 kt)
08/29/23 16:04 CST		0	

A mesoscale convective vortex approached the region from the north on the afternoon of the 29th. As a result, isolated thunderstorms developed under a deeply mixed atmosphere. A landspout was observed along an outflow boundary underneath a convective storm east of Reese Center (Lubbock County).