

Storm Data and Unusual Weather Phenomena - August 2024

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

PARMER COUNTY --- 2.0 NE FRIONA [34.65, -102.71]

	08/03/24 20:30 CST	0	Thunderstorm Wind (MG 50 kt)
	08/03/24 20:30 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Friona measured a wind gust to 58 mph.

BAILEY COUNTY --- 2.0 SSW MULESHOE [34.19, -102.74]

	08/03/24 21:43 CST	0	Thunderstorm Wind (MG 55 kt)
	08/03/24 21:47 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Muleshoe measured severe wind gusts from 2143 CST through 2147 CST. A peak wind gust of 63 mph was measured at 2143 CST.

Hot temperatures and a remnant mesoscale convective vortex (MCV) combined to create scattered thunderstorms over the western Texas Panhandle on the afternoon of the third. An MCV drifted southward out of western Kansas creating scattered thunderstorms which then moved southward into the extreme southwestern Texas Panhandle during the evening. Dry sub-cloud air layer allowed these storms to create severe downburst winds near Friona (Parmer County) and Muleshoe (Bailey County).

YOAKUM COUNTY --- 3.0 N PLAINS [33.22, -102.83]

	08/14/24 18:37 CST	0	Thunderstorm Wind (MG 53 kt)
	08/14/24 18:37 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Plains measured a wind gust of 61 mph.

LAMB COUNTY --- 6.0 S OLTON [34.09, -102.13]

	08/14/24 22:00 CST	0	Thunderstorm Wind (MG 51 kt)
	08/14/24 22:00 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Olton measured a wind gust of 59 mph.

Very hot temperatures combined with a weak mid-level short wave trough creating isolated thunderstorms late in the afternoon into the evening of the 14th. A very deeply mixed boundary layer led to a dry sub-cloud layer and high based thunderstorms. A couple of these thunderstorms produced severe wind gusts near Plains (Yoakum County) and Olton (Lamb County).

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

	08/15/24 14:13 CST	0	Thunderstorm Wind (MG 55 kt)
	08/15/24 14:14 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Guthrie measured severe wind gusts from 1413 CST through 1414 CST. A peak wind gust of 63 mph was measured at 1413 CST.

MOTLEY COUNTY --- 2.0 E FLOMOT [34.22, -100.94]

	08/15/24 17:43 CST	0	Thunderstorm Wind (MG 78 kt)
	08/15/24 17:50 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Flomot measured severe wind gusts from 1743 CST through 1750 CST. A peak wind gust of 90 mph was measured at 1744 CST.

HOCKLEY COUNTY --- SMYER [33.58, -102.17]

	08/15/24 18:54 CST	0	Thunderstorm Wind (MG 60 kt)
	08/15/24 18:54 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site in Smyer measured a severe wind gust of 69 mph.

Another afternoon of isolated thunderstorms developed under very hot conditions and an approaching weak short wave trough. A cold front moved through the Texas Panhandle and stalled out from the western South Plains into the extreme southeastern Texas Panhandle. Thunderstorms initially developed along this boundary but with very dry sub-cloud layers, these thunderstorms were efficient strong wind producers. Several storms generated severe wind gusts including a wet microburst near Flomot (Motley County) producing a wind gust of 90 mph.

SWISHER COUNTY --- 1.0 E HAPPY [34.73, -101.83]

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	08/16/24 17:37 CST		0	Thunderstorm Wind (MG 56 kt)
	08/16/24 17:39 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Happy measured severe wind gusts from 1737 CST through 1739 CST. A peak wind gust of 65 mph was measured at 1737 CST.

CASTRO COUNTY --- 3.0 N HART [34.42, -102.12]

	08/16/24 18:51 CST		0	Thunderstorm Wind (MG 51 kt)
	08/16/24 18:51 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Hart measured a severe wind gust of 59 mph.

(TX-Z021) PARMER

	08/16/24 22:15 CST		0	High Wind (MAX 51 kt)
	08/16/24 22:15 CST		0	

A third consecutive afternoon of isolated thunderstorms developed across the region. Very hot temperatures allowed storms to initially develop in the central and southern Texas Panhandle and slowly move southeastward. A dry sub-cloud layer allowed these storms to produce strong wind gusts as the surface. Some of these isolated storms became severe with several Texas Tech University West Texas mesonet sites recording severe wind gusts. A wake low developed within the stratiform region of departing thunderstorms and generated a severe wind gust of 59 mph near Friona (Parmer County) measured by the Texas Tech University West Texas mesonet.

LYNN COUNTY --- 2.2 NW O'DONNELL [33.00, -101.85], 2.8 NE O'DONNELL [33.00, -101.80], 1.6 SW SKEEN [33.10, -101.80], 4.6 WSW SKEEN [33.10, -101.86]

	08/30/24 15:00 CST		0	Flash Flood (due to Heavy Rain)
	08/30/24 17:00 CST		0	Source: NWS Employee

An off-duty NWS employee and emergency manager reported flooding in southern Lynn County from heavy rainfall. Approximately six inches of water was over the roadway along US Highway 87 between O'Donnell and Tahoka.

LYNN COUNTY --- 1.0 N O'DONNELL [32.98, -101.83], 4.0 W SKEEN [33.11, -101.85]

	08/30/24 15:08 CST		0	Thunderstorm Wind (MG 54 kt)
	08/30/24 15:15 CST		0	Source: Mesonet

A wet microburst affected a portion of rural Lynn County between O'Donnell and Tahoka. A Texas Tech University West Texas mesonet site near O'Donnell measured severe wind gusts from 1508 CST through 1515 CST. A peak wind gust of 62 mph was measured at 1515 CST. Additionally, an NWS cooperative weather observer reported roof damage to a barn as well as crop damage from wind-driven small hail.

Isolated thunderstorms developed across the southern South Plains on the afternoon of the 30th. A very moist atmosphere was able to generate efficient rain producing thunderstorms. A slow moving isolated thunderstorm moving across southern Lynn County produced a wet microburst. Areas along US Highway 87 between O'Donnell and Tahoka were reported to have approximately six inches of water flowing over the roadway. Crop damage from wind-driven hail and roof damage to a barn were also reported.