

Storm Data and Unusual Weather Phenomena - September 2024

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TEXAS, South Panhandle				
BAILEY COUNTY --- 2.0 SE MULESHOE [34.20, -102.71]				
	09/17/24 00:32 CST		0	Thunderstorm Wind (EG 61 kt)
	09/17/24 00:32 CST		0	Source: Broadcast Media
Severe downburst winds southeast of Muleshoe caused a train to derail.				
LAMB COUNTY --- 9.0 WSW EARTH [34.18, -102.55]				
	09/17/24 20:43 CST		0	Thunderstorm Wind (MG 60 kt)
	09/17/24 20:54 CST		0	Source: Mesonet
A Texas tech University West Texas mesonet site near Earth measured severe wind gusts from 2043 CST through 2054 CST. A peak wind gust of 69 mph was measured at 2043 CST. Additionally, wind driven hail damaged an anemometer on the mesonet site.				
A deep upper level low moving over the central Rockies brought large scale ascent over the region on the evening of the 17th. Strong surface heating during the day brought sufficient instability for severe thunderstorms. An isolated severe thunderstorm developed in eastern New Mexico and moved into Bailey County during the evening. This storm produced a wet microburst near Muleshoe (Bailey County) derailing a train. This storm went on to produce an observed severe wind gust of 69 mph near Earth in Lamb County.				
PARMER COUNTY --- 3.9 W PARMERTON [34.58, -102.89]				
	09/21/24 16:06 CST		0	Hail (0.75 in)
	09/21/24 16:06 CST		0	Source: Storm Chaser
CASTRO COUNTY --- 2.0 WSW DIMMITT [34.54, -102.35], DIMMITT [34.55, -102.32]				
	09/21/24 16:25 CST		0	Hail (2.00 in)
	09/21/24 16:25 CST		0	Source: Law Enforcement
Law enforcement in Castro County reported a swath of hail up to two inches in diameter along Texas State Highway 86 from approximately two miles west-southwest of Dimmitt into Dimmitt. Numerous windshields were reported to be destroyed.				
BAILEY COUNTY --- 5.0 WSW PROGRESS [34.25, -102.90], 5.3 WSW PROGRESS [34.24, -102.90], 6.3 WSW PROGRESS [34.24, -102.92], 6.0 WSW PROGRESS [34.25, -102.92]				
	09/21/24 17:05 CST		0	Flood (due to Heavy Rain)
	09/21/24 19:05 CST		0	Source: Storm Chaser
A storm chaser reported water over the roadway near the intersection of Farm to Market Roads 1731 and 1760.				
CASTRO COUNTY --- 5.5 W DIMMITT MUNI ARPT [34.57, -102.42], 1.3 NE DIMMITT MUNI ARPT [34.58, -102.30], 1.9 ESE DIMMITT [34.54, -102.29], 4.3 WSW DIMMITT [34.53, -102.39]				
	09/21/24 17:39 CST		0	Flash Flood (due to Heavy Rain)
	09/21/24 19:39 CST		0	Source: Law Enforcement
Local law enforcement in Castro County reported water flowing over several roadways northwest of Dimmitt. These included Farm to Market Roads 2393 and 1055. Additionally, street flooding was reported in Dimmitt.				
CASTRO COUNTY --- 4.0 NNW NAZARETH [34.60, -102.13], 4.0 N NAZARETH [34.61, -102.11]				
	09/21/24 17:45 CST		0	Tornado (EFU, L: 1.27 mi , W: 50 yd)
	09/21/24 17:47 CST		0	Source: Broadcast Media
Local broadcast media relayed a video report of a tornado in an open field approximately four miles north of Nazareth.				
CASTRO COUNTY --- 3.0 N HART [34.42, -102.12]				
	09/21/24 17:58 CST		0	Thunderstorm Wind (MG 60 kt)
	09/21/24 18:02 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Hart measured severe wind gusts from 1758 CST through 1802 CST. A peak wind gust of 69 mph was measured at 1800 CST.				
LAMB COUNTY --- 4.0 W LITTLEFIELD [33.92, -102.39]				

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	09/21/24 18:08 CST		0	Hail (0.75 in)
	09/21/24 18:08 CST		0	Source: Public

SWISHER COUNTY --- 2.0 ENE TULIA [34.54, -101.74]

09/21/24 18:32 CST	0	Thunderstorm Wind (MG 63 kt)
09/21/24 18:34 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Tulia measured severe wind gusts from 1832 CST through 1834 CST. A peak wind gust of 73 mph was measured at 1833 CST.

SWISHER COUNTY --- VIGO PARK [34.65, -101.48]

09/22/24 01:33 CST	0	Thunderstorm Wind (MG 68 kt)
09/22/24 01:42 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Vigo Park measured severe wind gusts from 0133 CST through 0142 CST. A peak wind gust of 78 mph was measured at 0133 CST. Additionally, an NWS cooperative weather observer reported several irrigation center pivots that were overturned. Numerous power poles were also blown down near the area.

A strong upper level low pressure system moving across the southwestern United States into the four-corners region brought ample lift to create scattered thunderstorms late in the afternoon of the 21st. Thunderstorms initially developed across eastern New Mexico by mid-afternoon in response to the approaching upper level system and moderate boundary layer instability. These thunderstorms moved into the extreme southwestern Texas Panhandle late in the afternoon producing large hail up to two inches in diameter and several severe wind gusts. Hail up to two inches in diameter in Dimmitt destroyed numerous car windshields. Several gustnadoes were observed along the leading edge of activity as it tracked across the area. Increasing low level shear, due to a low level jet, interacted with the inflow to a thunderstorm east of Dimmitt (Castro County) producing a brief tornado in an open field. Although storms were moving quickly during the late afternoon through early evening, repeated rounds of storms created flash flooding in and around Dimmitt and flooding in isolated other locations.