

Storm Data and Unusual Weather Phenomena - November 2024

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

PARMER COUNTY --- 2.7 SSW FARWELL [34.34, -103.04], 6.5 N FARWELL [34.47, -103.04], 2.0 NW PARMERTON [34.59, -102.84], 3.3 WSW HUB [34.51, -102.80]

11/02/24 02:30 CST	0	Flash Flood (due to Heavy Rain)
11/02/24 08:30 CST	0	Source: Law Enforcement

Rain showers and thunderstorms moving out of New Mexico early on the morning of the second repeatedly trained over Parmer County producing nearly four inches of rain within a few hours. Law enforcement in Parmer County as well as pictures from social media showed water over US Highway 60 between Farwell and Bovina as well as several other roadways. Additionally, law enforcement reported several vehicles were stranded in flood waters.

LAMB COUNTY --- 4.0 SSE SPADE [33.87, -102.12]

11/02/24 08:02 CST	0	Thunderstorm Wind (MG 59 kt)
11/02/24 08:07 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Anton measured severe wind gusts from 0802 CST through 0807 CST. A peak wind gust of 68 mph was measured at 0802 CST.

LUBBOCK COUNTY --- 4.0 NNE SHALLOWATER [33.73, -101.95]

11/02/24 08:32 CST	0	Thunderstorm Wind (MG 53 kt)
11/02/24 08:32 CST	0	Source: Mesonet

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

LUBBOCK COUNTY --- 3.0 W (LBB)LUBBOCK INTL AR [33.67, -101.87], 3.2 WSW WOLFFORTH [33.48, -102.07], 2.1 WNW WOODROW [33.46, -101.86], 3.6 ESE (LBB)LUBBOCK INTL AR [33.65, -101.76]

11/02/24 09:00 CST	0	Flash Flood (due to Heavy Rain)
11/02/24 12:00 CST	0	Source: NWS Employee

Rain and thunderstorms grew upscale along an outflow boundary moving eastward across the South Plains. This activity trained over Lubbock County creating flash flooding across the city of Lubbock. Numerous reports were received of water over area roadways in and around the city of Lubbock. Additionally, several vehicles were stranded due to high waters.

TERRY COUNTY --- MEADOW [33.33, -102.20]

11/02/24 19:17 CST	0	Hail (1.00 in)
11/02/24 19:17 CST	0	Source: Broadcast Media

Local broadcast media relayed a report of quarter size hail in Meadow.

LUBBOCK COUNTY --- 2.0 WNW WOODROW [33.46, -101.85], 4.6 SSE DOUD [33.50, -101.91], 2.6 S LUBBOCK [33.54, -101.85], 1.5 S BURRIS [33.51, -101.78]

11/02/24 20:00 CST	0	Flash Flood (due to Heavy Rain)
11/02/24 22:00 CST	0	Source: Public

Additional thunderstorms moved over the city of Lubbock on the evening of the second. These storms produced heavy rainfall in a short amount of time across an area that already experienced flash flooding earlier in the day. These additional thunderstorms created flash flooding across the southern portion of the city of Lubbock.

Several rounds of thunderstorms occurred throughout the day on the second. Lift from an approaching mid-level disturbance sparked rapid thunderstorm development as it overspread a moist and unstable atmosphere spreading back into eastern New Mexico. Several of these storms became strong to severe early on, while torrential rain led to areas of flash flooding. The thunderstorm activity in eastern New Mexico quickly expanded into a large complex as it spread into West Texas late on the first into early on the second. One stronger segment embedded in the initial line of storms moving across the South Plains early in the morning generated a wind gust as high as 68 mph in Lamb County. Another severe wind gust, peaking at 61 mph, was measured in Lubbock County as the line progressed eastward. However, much more widespread was the heavy rain that this activity provided to the region. Locations over the southwestern Texas Panhandle, in Parmer County, recorded rain totals near and above three inches with the first round of thunderstorms early in the morning. Roads quickly became inundated and several vehicles flooded out. Heavy rain advanced into the central South Plains mid-morning, bringing deluges to many spots, including in and around Lubbock. A quick one to three inches of rain produced widespread street flooding in Lubbock and quickly saturated the top soils. As temperatures warmed into the 70s and lower 80s south of an outflow boundary, a new round of robust thunderstorms formed over southeast New Mexico into the northern Permian Basin during the afternoon. This activity weakened as it moved over the much cooler air over the South and Rolling Plains during the evening but it did bring more heavy rain to the region.

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LYNN COUNTY --- O'DONNELL [32.97, -101.83]				
	11/04/24 00:05 CST		0	Hail (0.88 in)
	11/04/24 00:05 CST		0	Source: Broadcast Media
GARZA COUNTY --- POST [33.18, -101.38], 1.0 NE POST [33.19, -101.37]				
	11/04/24 00:59 CST		0	Hail (1.00 in)
	11/04/24 01:05 CST		0	Source: Broadcast Media
Multiple reports were received of one inch diameter hail in and around Post.				
A cut off upper level low pressure system and a dryline generated lift during the early morning hours of the fourth. A cluster of thunderstorms developed in Lynn County and moved northeastward into Garza County where it produced quarter size hail in and around Post (Garza County).				
CROSBY COUNTY --- 1.0 SE RALLS [33.67, -101.37]				
	11/08/24 00:46 CST		0	Thunderstorm Wind (MG 53 kt)
	11/08/24 00:46 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Ralls measured a severe wind gust of 61 mph.				
An upper level cut off low pressure system slowly moving eastward across Arizona and New Mexico spurred widespread showers and thunderstorms on the evening of the seventh into the early morning hours of the eighth. Warm air advection ahead of the low brought elevated instability in excess of 1000 J/kg. A line of thunderstorms became severe as it moved across Crosby County generating a severe wind gust near Ralls.				
TERRY COUNTY --- 4.1 NE GOMEZ [33.23, -102.34], 4.0 N BROWNFIELD ARPT [33.23, -102.18], 3.8 S BROWNFIELD ARPT [33.12, -102.19], 3.8 S GOMEZ [33.12, -102.38]				
	11/17/24 23:30 CST		0	Flash Flood (due to Heavy Rain)
	11/18/24 02:00 CST		0	Source: Public
Heavy rain in a short period of time brought flash flooding in and around the city of Brownfield late on the 17th into the early morning hours of the 18th.				
HOCKLEY COUNTY --- 1.3 ENE SMYER [33.59, -102.15], 2.3 ENE SMYER [33.59, -102.13], 2.2 E SMYER [33.58, -102.13], 1.0 E SMYER [33.58, -102.15]				
	11/18/24 00:00 CST		0	Flash Flood (due to Heavy Rain)
	11/18/24 02:30 CST		0	Source: Broadcast Media
Flash flooding was observed just east of Smyer along Texas State Highway 114 early in the morning of the 18th. Heavy rainfall from a line of thunderstorms produced a torrential amount of rainfall in a short period of time.				
GARZA COUNTY --- 5.4 SSW GRAHAM CHAPEL [33.08, -101.52]				
	11/18/24 00:06 CST		0	Thunderstorm Wind (MG 51 kt)
	11/18/24 00:06 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Graham measured a severe wind gust of 59 mph.				
LUBBOCK COUNTY --- 2.2 SW CARLISLE [33.55, -101.99], 3.2 WNW (LBB)LUBBOCK INTL AR [33.69, -101.87], 3.5 SSW IDALOU [33.62, -101.70], 1.7 WSW BURRIS [33.52, -101.81], 5.0 S DOUD [33.50, -101.92]				
	11/18/24 00:15 CST		0	Flash Flood (due to Heavy Rain)
	11/18/24 02:45 CST		0	Source: Law Enforcement
A slow moving line of thunderstorms produced heavy rainfall over Lubbock County which caused flash flooding over the city of Lubbock . Numerous reports were received of water over area roadways. Additionally, law enforcement reported a vehicle submerged under water under the overpass of 19th street and Interstate-27.				
CROSBY COUNTY --- 1.0 SE RALLS [33.67, -101.37]				
	11/18/24 00:46 CST		0	Thunderstorm Wind (MG 56 kt)
	11/18/24 00:48 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Ralls measured severe wind gusts from 0046 CST through 0048 CST. A peak gust of 64 mph was measured at 0048 CST.				
COTTLE COUNTY --- 10.0 SW PADUCAH [33.92, -100.42]				

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	11/18/24 01:46 CST		0	Thunderstorm Wind (MG 56 kt)
	11/18/24 01:56 CST		0	Source: Mesonet
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(TX-Z030) FLOYD				
	11/18/24 01:56 CST		0	High Wind (MAX 52 kt)
	11/18/24 01:58 CST		0	
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LUBBOCK COUNTY --- 3.0 E BURRIS [33.52, -101.73], 3.1 E BURRIS [33.52, -101.73], 3.0 E BURRIS [33.53, -101.73], 2.9 E BURRIS [33.53, -101.73]				
	11/18/24 08:00 CST		0	Flash Flood (due to Heavy Rain)
	11/18/24 11:00 CST		0	Source: Emergency Manager

Runoff from heavy rainfall over the city of Lubbock early in the morning of the 18th made its way into the North Fork Double Mountain Fork Brazos River beginning on the east side of the city of Lubbock. This water eventually moved downstream into Buffalo Springs Lake. The emergency manager for Buffalo Springs Lake reported two feet of water flowing over Farm to Market Road 835 west of the lake. The emergency manager reported that the road had to be closed.

Widespread moderate to heavy rain fell on much of the South Plains and Rolling Plains region from late on the 17th through the early morning hours of the 18th. An intense mid level storm system in combination with abundant moisture from the Gulf of Mexico and Pacific brought this heavy rainfall. This storm system initially strengthened over southern California and the northern Gulf of California, where strong jet energy carved out a closed low. After forming, the low started moving eastward through northern Mexico on the 16th before accelerating northeastward late on the 17th, passing over Far West Texas and racing across the South Plains on the 18th. Spotty and generally light showers during the day on the 17th quickly grew in coverage and intensity during the evening as the moisture and lift worked in tandem. Widespread moderate to heavy rain formed over the Permian Basin and expanded and spread northward across the South Plains late on the 17th. Meager instability limited the lightning production but the deep and warm lower atmosphere did not limit the rainfall coverage or intensity. Bands of the heaviest rain targeted parts of the central and southern South Plains, particularly along and near the US Highway 62 corridor from Brownfield (Terry County) up to Lubbock (Lubbock County). Within this swath, two to three inches of rain fell in short order, with areas around Brownfield to tallying around four inches. Runoff from the torrential downpours quickly resulted in flash flooding, and caused several roadways to become difficult to impossible to pass. As the line moved eastward, it encountered even richer low-level moisture and instability which allowed the thunderstorms to intensify, producing more lightning and severe wind gusts as they advanced from the southeastern South Plains into the Rolling Plains.