

Storm Data and Unusual Weather Phenomena - July 2024

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TEXAS, South Panhandle				
COCHRAN COUNTY --- 14.6 S WHITEFACE [33.39, -102.61]				
	07/04/24 16:01 CST	0		Thunderstorm Wind (MG 59 kt)
	07/04/24 16:11 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Sundown measured severe wind gusts from 1601 CST through 1611 CST. A peak wind gust of 68 mph was measured at 1602 CST.				
HOCKLEY COUNTY --- 4.0 S LEVELLAND [33.52, -102.37], 6.0 N ROPESVILLE [33.51, -102.15]				
	07/04/24 16:24 CST	0		Thunderstorm Wind (MG 70 kt)
	07/04/24 16:57 CST	0		Source: Mesonet
A swath of severe thunderstorm winds were observed south of Levelland to north of Ropesville . A Texas Tech University West Texas mesonet site near Levelland measured severe wind gusts from 1624 CST through 1648 CST. A peak wind gust of 80 mph was measured at 1638 CST. Additionally, a trained spotter estimated 80 mph wind gusts north of Ropesville.				
LUBBOCK COUNTY --- 4.1 S WOLFFORTH [33.44, -102.02]				
	07/04/24 17:14 CST	0		Thunderstorm Wind (EG 52 kt)
	07/04/24 17:14 CST	0		Source: NWS Employee
An off-duty NWS employee estimated wind gusts of 60 mph south of Wolfforth.				
A cold front moved into the South Plains on Independence Day serving as a focus for rapid thunderstorm development during the mid to late afternoon hours. Thunderstorms initially developed near the Texas/New Mexico state line from the western South Plains into southeast New Mexico underneath a very hot near surface atmosphere. The hot, deeply mixed lower levels of the atmosphere also supported plenty of potential for evaporative cooling as heavy precipitation fell into the layer from above. The rain-cooled air accelerated downward, creating strong to severe wind gusts as the air hit the ground and spread out. The most intense wind gusts, as high as 80 mph, impacted areas south of Levelland (Hockley County) to north of Ropesville (Hockley County).				
LAMB COUNTY --- SPRINGLAKE [34.23, -102.30]				
	07/07/24 16:47 CST	0		Hail (1.50 in)
	07/07/24 16:47 CST	0		Source: Public
A report from the public was received of hail ranging in size from half dollars to ping pongs.				
LUBBOCK COUNTY --- 1.0 N WOLFFORTH [33.51, -102.02]				
	07/07/24 17:35 CST	0		Hail (1.00 in)
	07/07/24 17:35 CST	0		Source: Public
A report was received of quarter size hail north of Wolfforth.				
LUBBOCK COUNTY --- REESE VLG [33.60, -102.02], 4.0 E LUBBOCK [33.58, -101.78]				
	07/07/24 17:39 CST	0		Thunderstorm Wind (MG 64 kt)
	07/07/24 18:02 CST	0		Source: Mesonet
A swath of severe thunderstorm winds ripped across the northern portion of the county and city of Lubbock extending from Reese Center to four miles east of Lubbock from 1739 CST through 1802 CST. Most of these severe wind reports were from the Texas Tech University West Texas mesonet . A peak gust of 74 mph was measured at 1801 CST four miles east of Lubbock by a Texas Tech University West Texas mesonet . Additionally, the Automated Surface Observing System at Lubbock International Airport measured a wind gust of 66 mph at 1753 CST.				
HALE COUNTY --- 6.0 ENE ABERNATHY [33.86, -101.75]				
	07/07/24 17:43 CST	0		Thunderstorm Wind (MG 57 kt)
	07/07/24 17:46 CST	0		Source: Mesonet
A Texas Tech University West Texas mesonet site near Abernathy measured severe wind gusts from 1743 CST through 1746 CST. A peak wind gust of 66 mph was measured at 1743 CST.				
LUBBOCK COUNTY --- 5.0 S WOLFFORTH [33.43, -102.02], 2.0 NE SLATON [33.45, -101.63]				
	07/07/24 17:50 CST	0		Thunderstorm Wind (MG 57 kt)
	07/07/24 18:39 CST	0		Source: Mesonet

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A swath of severe thunderstorm winds were observed across the southern portion of Lubbock County . This swath of winds began approximately five miles south of Wolfforth and ended near Slaton . A peak wind gust of 66 mph was measured at 1819CST by a Texas Tech University West Texas mesonet site near Slaton. Additionally, a shipping container was reportedly overturned near Woodrow .

DICKENS COUNTY --- 3.0 NNW MC ADOO [33.77, -101.00]

07/07/24 17:54 CST	0	Thunderstorm Wind (MG 62 kt)
07/07/24 18:04 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near McAadoo measured severe wind gusts from 1754 CST through 1804 CST. A peak gust of 71 mph was measured at 1758 CST.

CROSBY COUNTY --- 1.0 SE RALLS [33.67, -101.37], 6.0 NW WHITE RIVER LAKE [33.52, -101.16]

07/07/24 18:27 CST	0	Thunderstorm Wind (MG 65 kt)
07/07/24 19:02 CST	0	Source: Mesonet

A swath of severe thunderstorm winds were observed by the Texas Tech University West Texas mesonet across Crosby County . The swath was located from near Ralls to near White River Lake. A peak wind gust of 75 mph was measured at 1831 CST near White River Lake.

(TX-Z039) YOAKUM

07/07/24 18:55 CST	0	High Wind (MAX 53 kt)
07/07/24 18:56 CST	0	

GARZA COUNTY --- 5.4 SSW GRAHAM CHAPEL [33.08, -101.52], 8.8 ENE JUSTICEBURG [33.08, -101.06]

07/07/24 18:56 CST	0	Thunderstorm Wind (MG 63 kt)
07/07/24 19:17 CST	0	Source: Mesonet

Several Texas Tech University West Texas mesonet sites across Garza County observed a swath of severe thunderstorm winds including near Graham , Post, and Lake Alan Henry. A peak wind gust of 73 mph was measured at 1856 CST near Post.

KENT COUNTY --- 1.0 SSE JAYTON [33.24, -100.57]

07/07/24 19:50 CST	0	Thunderstorm Wind (MG 53 kt)
07/07/24 19:50 CST	0	Source: Mesonet

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

An approaching short wave trough interacted with a surface pressure trough, a stalled out cold front, strong heating, and abundant moisture to create prolific severe thunderstorm winds across portions of the South Plains and Rolling Plains on the afternoon of the seventh. By late in the afternoon, temperatures had warmed into the upper 90s to lower 100s across the central and western South Plains. At the same time, a surface low formed in the extreme southwestern Texas Panhandle with a surface pressure trough extending southward and a stalled out cold front extending eastward. The strong heating east and south of these features created a very unstable atmosphere able to develop thunderstorms. A multi-cell cluster of thunderstorms formed along these features and moved to the east during the late afternoon. A dry sub-cloud layer allowed these storms to produce numerous swaths of severe wind gusts, especially as they moved across Lubbock County. The storms eventually grew upscale into the Rolling Plains and weakened early in the evening. Additionally, a strong outflow boundary well out ahead of thunderstorms produced a severe wind gust of 61 mph at Plains (Yoakum County) measured by the Texas Tech University West Texas mesonet.