

Storm Data and Unusual Weather Phenomena - June 2023

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

(TX-Z035) LUBBOCK

	06/01/23 01:55 CST	0	High Wind (MAX 56 kt)
	06/01/23 03:38 CST	0	

Large scale ascent increased during the early morning hours of the first from an upper level low located over western Arizona. Rich moisture through the mid and upper levels of the atmosphere allowed for scattered showers to develop. Relatively dry lower levels of the atmosphere allowed for these showers to produce strong wind gusts at the surface. Several severe wind gusts were observed by Texas Tech University West Texas mesonet sites in Lubbock County. A mesonet site near Slaton measured a maximum wind gust of 59 mph while a mesonet near Wolfforth measured a maximum wind gust of 65 mph.

LYNN COUNTY --- 5.8 W O'DONNELL [32.96, -101.93], 5.1 NNE WILSON [33.39, -101.70], 11.1 ENE WILSON [33.39, -101.56], 3.7 SE GRASSLAND [33.09, -101.56], 4.2 E O'DONNELL [32.96, -101.76]

	06/01/23 08:30 CST	0	Flash Flood (due to Heavy Rain)
	06/01/23 13:30 CST	0	Source: Mesonet

Thunderstorms with heavy rainfall became anchored over Lynn County during the mid-morning hours. The Texas Tech University West Texas mesonet site near O'Donnell measured 7.02 inches of rainfall. The intense rain rates and amount of rainfall resulted in the closure of a portion of US Highway 87 between O'Donnell and Tahoka. Numerous water rescues were completed and many vehicles became stranded in the flood waters.

GARZA COUNTY --- 2.8 N SOUTHLAND [33.39, -101.56], 9.4 ENE BUENOS [33.39, -101.34], 2.4 W AUGUSTUS [33.13, -101.34], 6.5 SW GRAHAM CHAPEL [33.09, -101.56]

	06/01/23 09:30 CST	0	Flash Flood (due to Heavy Rain)
	06/01/23 14:30 CST	0	Source: Mesonet

Thunderstorms that became anchored over Lynn County bringing extensive flash flooding slowly moved into central and northern Garza County spreading intense rain rates along with it. Widespread flash flooding was reported throughout central and northern Garza County. Additionally, a tractor trailer rolled over on US Highway 84 near Farm to Market Road 399 also causing a multiple vehicle wreck.


FLOYD COUNTY --- 2.0 NNE FLOYDADA [34.01, -101.32]

	06/01/23 13:26 CST	0	Thunderstorm Wind (MG 53 kt)
	06/01/23 13:27 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Floydada measured severe wind gusts from decaying thunderstorms from 1326 CST through 1327 CST.

Rich moisture, a weak upper level disturbance, and several low-level boundaries worked in concert to bring torrential rainfall to portions of the south-central and southeastern South Plains on the first. One of the primary factors, in addition to the plentiful moisture, was a low-level boundary, originating from thunderstorm activity that affected the Texas Panhandle the previous evening into the overnight hours, that provided a focus for shower and thunderstorm development. Widespread and intense thunderstorms became anchored over the south-central South Plains including a good portion of Lynn County. Torrential rainfall rates continued for nearly two hours, from around 0830 CST to 1030 CST, before finally diminishing, then ending completely by early afternoon. The Texas Tech University West Texas mesonet site near O'Donnell measured 7.02 inches, much of which fell in the two hour window from mid to late morning. The area of heaviest thunderstorms eventually shifted northeastward late morning and early afternoon, dropping widespread three to four inch totals from Tahoka (Lynn County) to Post (Garza County). The intense rainfall rates and impressive rain totals led to significant flash flooding that affected much of US Highway 87 between Tahoka and Lamesa as well as US Highway 380 from Tahoka to east of Post. The rapid onset of flooding resulted in numerous vehicles becoming inundated by water on the highways and ultimately resulted in the closure of portions of US Highways 87 and 380 from the first into the second. Many water rescues occurred and many vehicles were stranded.

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Widespread flooding on US Highway 87 north of O'Donnell on 1 June 2023. The image is courtesy of Aaron Rigsby.

HOCKLEY COUNTY --- 4.8 W COBLE [33.61, -102.58], 4.9 WNW COBLE [33.62, -102.58], 4.5 WNW COBLE [33.62, -102.58], 4.5 W COBLE [33.61, -102.58]

06/02/23 13:00 CST	0	Flood (due to Heavy Rain)
06/02/23 15:00 CST	0	Source: Public

Video evidence was sent to the forecast office in Lubbock of water rushing over Santa Fe Street east of Whiteface.

HALE COUNTY --- 5.0 ENE ABERNATHY [33.86, -101.77]

06/02/23 14:17 CST	0	Thunderstorm Wind (MG 52 kt)
06/02/23 14:25 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Abernathy measured severe wind gusts from 1417 CST through 1425 CST. A peak wind gust of 60 mph was measured at 1417 CST.

LUBBOCK COUNTY --- 6.0 E NEW DEAL [33.73, -101.73]

06/02/23 14:38 CST	0	Thunderstorm Wind (MG 51 kt)
06/02/23 14:40 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near New Deal measured severe wind gusts from 1438 CST through 1440 CST. A peak wind gust of 59 mph was measured from 1439 through 1440 CST.

GARZA COUNTY --- 5.5 SSW GRAHAM CHAPEL [33.08, -101.52]

06/02/23 15:05 CST	0	Thunderstorm Wind (MG 53 kt)
06/02/23 15:07 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Graham measured severe wind gusts from 1505 CST through 1507 CST. A peak wind gust of 61 mph was measured at 1505 CST.

LYNN COUNTY --- 1.0 N O'DONNELL [32.98, -101.83]

06/02/23 15:36 CST	0	Thunderstorm Wind (MG 72 kt)
06/02/23 15:47 CST	0	Source: Mesonet

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A Texas Tech University West Texas mesonet near O'Donnell measured severe wind gusts from 1536 CST through 1547 CST. A peak wind gust of 83 mph was measured at 1543 CST.

CHILDRESS COUNTY --- (CDS)CHILDRESS ARPT [34.43, -100.30], 2.0 NNE CHILDRESS [34.45, -100.19]

	06/02/23 16:55 CST		0	Thunderstorm Wind (MG 56 kt)
	06/02/23 17:14 CST		0	Source: Mesonet

At 1655 CST, the Automated Surface Observing System at Childress Municipal Airport measured a severe wind gust of 60 mph. Shortly after at 1709 CST, a Texas Tech University West Texas mesonet site two miles north-northeast of Childress measured a severe wind gust of 64 mph.

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

	06/02/23 17:40 CST		0	Thunderstorm Wind (MG 56 kt)
	06/02/23 17:40 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Jayton measured a wind gust of 64 mph.

A strong short wave trough moving through New Mexico on the afternoon of the second provided a large amount of large scale lift to the region allowing for widespread thunderstorm activity. Very steep mid-level lapse rates, strong surface heating, and ample low level moisture created a very unstable atmosphere by early afternoon. Initial thunderstorm development early in the afternoon was unable to become severe but once discrete storms morphed into a mesoscale convective system, storms became severe with severe wind gusts across the South Plains and Rolling Plains.

PARMER COUNTY --- BOVINA [34.52, -102.90]

	06/03/23 17:59 CST		0	Hail (1.00 in)
	06/03/23 17:59 CST		0	Source: Trained Spotter

A trained spotter reported quarter size hail in Bovina.

PARMER COUNTY --- 2.5 NW FRIONA [34.65, -102.76], 2.8 W FRIONA [34.62, -102.78], 1.8 S FRIONA [34.60, -102.73], 1.1 SE FRIONA BENDER ARPK [34.64, -102.66], 1.8 WNW FRIONA BENDER ARPK [34.66, -102.71]

	06/03/23 20:30 CST		0	Flash Flood (due to Heavy Rain)
	06/03/23 22:30 CST		0	Source: Law Enforcement

Slow moving storms with intense rain rates moved over Parmer County dropping as much as one inch of rainfall in less than 20 minutes. The Friona Police Department reported that US Highway 60 in Friona was flooded. Additionally, portions of US Highway 60 outside of Friona had water over the roadway.

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

	06/03/23 20:43 CST		0	Thunderstorm Wind (MG 52 kt)
	06/03/23 20:43 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Happy measured a wind gust of 60 mph.

SWISHER COUNTY --- 2.0 N EUNICE [34.51, -101.75], 1.1 SSE EUNICE [34.46, -101.75], 2.8 WSW EUNICE [34.47, -101.80], 2.3 WNW TULIA ARPT [34.57, -101.81], 2.6 NE TULIA ARPT [34.57, -101.74]

	06/03/23 22:00 CST		0	Flash Flood (due to Heavy Rain)
	06/04/23 00:00 CST		0	Source: Law Enforcement

The same slow moving storms that brought intense rainfall and flash flooding to Parmer County also moved over Swisher County. Similarly, the intense rainfall brought over an inch of rainfall in less than 20 minutes. The Tulia Police Department reported that several roads in town were flooded along with a few County Roads along US Highway 87.

Upslope flow and weak surface convergence along a dryline near the Texas/New Mexico state line allowed for scattered thunderstorms to develop late in the afternoon into the evening on the third. Weak mid level winds and a moist atmosphere created a favorable environment for efficient rainfall producing storms. While the storms did produce some large hail and damaging wind gusts, the primary threat from the storms was the intense rainfall rates. Slow moving storms combined with the intense rates to create flash flooding in and around Friona (Parmer County) and Tulia (Swisher County).

BRISCOE COUNTY --- 7.5 WNW SILVERTON [34.53, -101.41], 6.1 NW SILVERTON [34.52, -101.39]

	06/09/23 16:07 CST		0	Hail (1.50 in)
	06/09/23 16:07 CST		0	Source: Trained Spotter

Several reports were received of hail northwest of Silverton along State Highway 207 ranging in size from half dollar to ping pong balls.

Despite a lack of large scale lift on the afternoon of the ninth, enhanced low level convergence along the caprock escarpment allowed

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for isolated thunderstorms to develop around Briscoe County. Ample instability in place allowed one of these storms to become severe producing large hail northwest of Silverton (Briscoe County).

SWISHER COUNTY --- 1.3 W HAPPY [34.73, -101.87], 1.1 N HAPPY [34.75, -101.85]

06/11/23 19:22 CST			0	Hail (2.75 in)
06/11/23 19:29 CST			0	Source: Public

Several reports were received of a swath of hail from just southwest of Happy into the town of Happy. The size of the hail ranged from half dollar to baseball size. There were reports of damaged windshields.

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

06/11/23 19:29 CST			0	Thunderstorm Wind (MG 57 kt)
06/11/23 19:29 CST			0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Happy measured a severe wind gust of 66 mph.

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

06/11/23 20:04 CST			0	Thunderstorm Wind (MG 54 kt)
06/11/23 20:04 CST			0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Vigo Park measured a severe wind gust of 62 mph.

BRISCOE COUNTY --- 5.0 NNE SILVERTON [34.54, -101.27]

06/11/23 20:31 CST			0	Hail (2.75 in)
06/11/23 20:31 CST			0	Source: Fire Department/Rescue

A local fire department reported hail ranging in size from ping pongs to baseballs. No damage was reported.

BRISCOE COUNTY --- 5.2 NNE CAPROCK CANYONS STATE PARK [34.48, -101.05]

06/11/23 20:57 CST			0	Hail (1.25 in)
06/11/23 20:57 CST			0	Source: Storm Chaser

A storm chaser reported half dollar size hail along State Highway 256.

HALL COUNTY --- 2.0 NNE TURKEY [34.43, -100.87]

06/11/23 21:15 CST			0	Hail (2.00 in)
06/11/23 21:15 CST			0	Source: Law Enforcement

Law enforcement reported hail up to two inches in diameter northeast of Turkey along State Highway 86. No damage was reported.

Despite upper level high pressure being over the area, isolated thunderstorms were able to develop near a stalled out frontal boundary in the extreme southern Texas Panhandle. A very unstable atmosphere allowed these supercell thunderstorms to grow very tall and thus produce giant hail. One storm produced a swath of giant hail and severe wind gusts across several counties. This storm tracked from near Happy (Swisher County) to near Turkey (Hall County) dropping hail as large as baseballs near Happy, Silverton (Briscoe County), Caprock Canyons State Park (Briscoe County), and Turkey.

(TX-Z033) COCHRAN

06/16/23 18:42 CST			0	High Wind (MAX 51 kt)
06/16/23 18:42 CST			0	

Hot and dry conditions developed on the afternoon of the 16th underneath a strong upper level high pressure system. Isolated virga showers were able to develop underneath the high pressure in the western South Plains. Due to the very dry near surface conditions, one of these virga showers produced a severe wind gust at Morton (Cochran County). A Texas Tech University West Texas mesonet site near Morton measured a severe wind gust of 59 mph.

KENT COUNTY --- 3.1 ESE CLAIREMONT [33.16, -100.70]

06/17/23 16:46 CST			0	Hail (1.75 in)
06/17/23 16:46 CST			0	Source: Storm Chaser

A storm chaser reported golf ball size hail east of Clairemont along US Highway 380.

STONEWALL COUNTY --- 10.7 SSW ASPERMONT ARPT [32.99, -100.35], 10.5 S ASPERMONT ARPT [32.97, -100.28]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/17/23 17:18 CST		0	Tornado (EFU, L: 4.29 mi , W: 50 yd)
	06/17/23 17:49 CST		0	Source: Storm Chaser

Numerous storm chasers reported a tornado in far southern Stonewall County over open ranch land. No known damage occurred.

STONEWALL COUNTY --- 11.1 SSE ASPERMONT ARPT [32.98, -100.16]

06/17/23 17:33 CST	0	Hail (4.00 in)
06/17/23 17:33 CST	0	Source: Storm Chaser

A storm chaser estimated softball size hail near the Stonewall/Fisher County line along US Highway 83. No damage was reported.

On the afternoon of the 17th, isolated supercell thunderstorms developed across the Rolling Plains, east of a dryline. These storms were aided by a short wave trough moving through northeastern New Mexico but much of the local area in West Texas remained capped leading to only isolated development. Very strong instability led to hail up to golf ball size in Kent County. This same supercell thunderstorm went on to produce a tornado in far southern Stonewall County over open ranch land.

(TX-Z022) CASTRO

06/20/23 20:04 CST	0	High Wind (MAX 53 kt)
06/20/23 20:05 CST	0	

Hot and dry conditions developed on the afternoon of the 20th underneath a strong upper level high pressure system. Isolated virga showers were able to develop underneath the high pressure in the extreme southwestern Texas Panhandle. Due to the very dry near surface conditions, one of these virga showers produced a severe wind gust at Dimmitt (Castro County). A Texas Tech University West Texas mesonet site near Dimmitt measured a severe wind gust of 61 mph.

MOTLEY COUNTY --- 2.2 NE WHITEFLAT [34.12, -100.85], 2.1 NE WHITEFLAT [34.12, -100.85]

06/21/23 18:50 CST	0	Tornado (EFU, L: 0.18 mi , W: 30 yd)
06/21/23 18:51 CST	0	Source: Storm Chaser

The first of several tornadoes developed approximately seven miles north of Matador. Storm chasers stated that there was a brief tornado touchdown over open ranch land. No known damage occurred.

MOTLEY COUNTY --- 2.2 NE WHITEFLAT [34.12, -100.85], 2.1 S MATADOR [33.99, -100.82]

06/21/23 18:51 CST	4	0	Tornado (EF3, L: 9.14 mi , W: 600 yd)
06/21/23 19:09 CST	15	0	Source: NWS Storm Survey

The second of several tornadoes touched down north of Matador in an open field east of State Highway 70. The tornado then tracked to the south through open country until it reached just north of Farm to Market Road 94 where it damaged a few power poles. It then traveled to the south-southeast where it destroyed a house on the far north side of the city. Three vehicles at this residence were rolled at least a few hundred yards away from the house with two of the vehicles unable to be located. The tornado continued to track south along State Highway 70 where it damaged two additional houses and rolled another truck several hundred feet. The tornado then tracked back to the southwest and crossed State Highway 70 and damaged several houses northwest of the intersection of State Highway 70 and US Highway 62, as well as rolling several vehicles including a tractor-trailer. The tornado then crossed US Highway 62 between the Texas Department of Transportation facility and State Highway 70 where it rolled an RV, destroyed a house, and steel framed retail store, and partially collapsed a power substation. The tornado continued traveling to the southeast paralleling State Highway 70 and damaged several more single family residences with another house being destroyed. The tornado then crossed State Highway 70 just south of Cross Lane where it destroyed a 500 foot radio tower as well as some light poles. The tornado then dissipated over an open field southeast of the Matador rest stop.

Direct Fatalities: F85PH, M59VE, M43VE, M23VE

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

06/21/23 18:52 CST	0	Thunderstorm Wind (MG 56 kt)
06/21/23 18:52 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Turkey measured a severe wind gust of 64 mph.

MOTLEY COUNTY --- MATADOR [34.02, -100.82]

06/21/23 19:15 CST	0	Hail (4.50 in)
06/21/23 19:15 CST	0	Source: Emergency Manager

An emergency management official and NWS cooperative weather observer reported hail ranging in size from baseballs to 4.50 inches in diameter.

MOTLEY COUNTY --- 1.0 NNW ROARING SPGS BUZZ AR [33.94, -100.84]

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	06/21/23 19:22 CST		0	Thunderstorm Wind (MG 65 kt)
	06/21/23 19:28 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Roaring Springs measured severe wind gusts from 1922 CST through 1928 CST. A peak wind gust of 75 mph was measured at 1922 CST.

DICKENS COUNTY --- 6.3 NE AFTON [33.82, -100.73], 6.2 NE AFTON [33.82, -100.73]

	06/21/23 19:36 CST		0	Tornado (EFU, L: 0.06 mi , W: 30 yd)
	06/21/23 19:37 CST		0	Source: NWS Employee

The third of several tornadoes occurred in northern Dickens County. An off-duty NWS employee relayed photos of a tornado over open country. No known damage occurred.

MOTLEY COUNTY --- 4.1 W MATADOR [34.01, -100.89], 4.0 NW ROARING SPGS BUZZ AR [33.97, -100.88]

	06/21/23 19:37 CST		0	Tornado (EFU, L: 2.82 mi , W: 100 yd)
	06/21/23 19:40 CST		0	Source: Broadcast Media

The fourth of several tornadoes occurred approximately four miles west of Matador. Local broadcast media live streamed a tornado that crossed US Highway 62. No known damage occurred.

MOTLEY COUNTY --- 1.1 NNW ROARING SPGS BUZZ AR [33.94, -100.84]

	06/21/23 19:51 CST		0	Thunderstorm Wind (MG 70 kt)
	06/21/23 19:58 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Roaring Springs measured severe wind gusts from 1951 CST through 1958 CST. A peak wind gust of 80 mph was measured at 1953 CST. There was minor damage to the mesonet site.

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

	06/21/23 20:15 CST		0	Thunderstorm Wind (MG 56 kt)
	06/21/23 20:15 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near McAadoo measured a severe wind gust of 65 mph.

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

	06/21/23 20:17 CST		0	Thunderstorm Wind (MG 58 kt)
	06/21/23 20:38 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Guthrie measured severe wind gusts from 2017 CST through 2038 CST. A peak wind gust of 67 mph was measured at 2034 CST.

DICKENS COUNTY --- 6.3 E DICKENS [33.62, -100.72], 6.5 E DICKENS [33.62, -100.72]

	06/21/23 20:18 CST		0	Tornado (EFU, L: 0.35 mi , W: 50 yd)
	06/21/23 20:19 CST		0	Source: Storm Chaser

The fifth and final of several tornadoes occurred just east of Dickens. A storm chaser reported a tornado crossing US Highway 82. No known damage occurred.

DICKENS COUNTY --- 1.0 W SPUR [33.48, -100.87], 6.2 SE SPUR MUNI ARPT [33.40, -100.76]

	06/21/23 20:26 CST		0	Thunderstorm Wind (MG 73 kt)
	06/21/23 20:37 CST		0	Source: NWS Storm Survey

A swath of strong winds and damage associated with a rear flank downdraft occurred over a three county area . The Texas Tech University West Texas mesonet site near Spur measured a wind gust of 84 mph at 2032 CST. However, there was no significant damage noted in Spur.

KENT COUNTY --- 6.3 WNW GIRARD [33.40, -100.76], 6.0 SSE JAYTON KENT CO ARPT [33.16, -100.52]

	06/21/23 20:37 CST		0	Thunderstorm Wind (EG 104 kt)
	06/21/23 21:17 CST		0	Source: NWS Storm Survey

A swath of strong winds and damage associated with a rear flank downdraft occurred over a three county area . In Girard, an NWS survey team found two homes that had their roofs partially or completely removed. In Jayton, several smaller outbuildings were completely destroyed along with some peeling back of porch roofs. The Texas Tech University West Texas mesonet site near Jayton measured a 109 mph peak wind gust at 2107 CST. Additional damage to trees and partial peeling of a home's roof was found on Farm to Market Road 1083 southwest of Jayton. Minor damage occurred to the mesonet near Jayton.

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CROSBY COUNTY --- 6.0 NW WHITE RIVER LAKE [33.52, -101.16]				
	06/21/23 20:38 CST		0	Thunderstorm Wind (MG 51 kt)
	06/21/23 20:38 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near White River Lake measured a severe wind gust of 59 mph.				
KENT COUNTY --- JAYTON [33.25, -100.58]				
	06/21/23 21:15 CST		0	Hail (4.00 in)
	06/21/23 21:15 CST		0	Source: Law Enforcement
Law enforcement in Jayton reported hail as large as four inches in diameter along State Highway 70 between Jayton and Girard. This hail resulted in an unknown amount of damage along State Highway 70 in northeastern Kent County.				
STONEWALL COUNTY --- 7.0 WSW PEACOCK [33.16, -100.52], 13.4 SW ASPERMONT ARPT [32.96, -100.38]				
	06/21/23 21:17 CST		0	Thunderstorm Wind (MG 95 kt)
	06/21/23 21:45 CST		0	Source: NWS Storm Survey

A swath of strong winds and damage associated with a rear flank downdraft occurred over a three county area . This swath of winds that caused damage in Dickens and Kent County ended approximately 13 miles southwest of Aspermont.

A supercell thunderstorm developed in the far southern Texas Panhandle during the late afternoon of the 21st of June. This supercell moved south-southeastward through the western Rolling Plains during the evening and eventually moved into the Texas Big Country and the San Angelo National Weather Service forecast area around 2200 CST. This storm quickly intensified in Motley County just north of Matador where the first of five reported tornadoes occurred around 1850 CST, however no survey was conducted as no damage was reported. This storm then produced a third of a mile wide tornado that went through the west side of Matador around 1900 CST killing four people and injuring 15 others. One of the fatalities was an 85 year old woman at home. A 59 year old truck driver died while in his semi-trailer. The final two fatalities were a 43 year old male and 23 year old male in a recreational vehicle. Peak wind gusts corresponding to the observed damage were estimated to be in the 145 mph to 165 mph range, resulting in an EF-3 rating. This rating was determined through consultation with engineers from the Texas Tech University National Wind Institute, who also performed a damage survey in Matador. It also produced extremely large hail with the largest stone measuring 4.50 inches in diameter on the east side of Matador. The storm continued moving to the south-southeast where a 75 mph gust was reported at the Roaring Springs West Texas Mesonet site at 1922 CST, most likely associated with a rear flank downdraft surge. As it entered northern Dickens County another tornado was reported by an off-duty NWS employee approximately 5.5 miles northeast of Afton, however no damage was reported with this tornado. A second supercell produced a brief tornado west-southwest of Matador at 1937 CST that also produced no known damage. Shortly afterward, that supercell began to merge with the initial supercell with the fifth and final tornado being reported on US Highway 82 approximately eight miles east of Dickens and no damage was observed with this tornado either. As the storm continued to move to the south-southeast a broad rear flank downdraft was noted on radar with the peak measured gust of 109 mph at the West Texas Mesonet site in Jayton at 2107 CST with 19 minutes of continuous severe wind gusts. These strong winds also occurred with hail up to four inches in diameter leading to damage observed along State Highway 70 in northeast Kent County including in and around the towns of Girard and Jayton.

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Widespread severe damage and ongoing cleanup on the west side of Matador the day after a tornado hit town. Photograph from the NWS storm survey team.

CASTRO COUNTY --- DIMMITT [34.55, -102.32]

06/23/23 16:45 CST	0	Hail (1.00 in)
06/23/23 16:45 CST	0	Source: Public

A report was received of hail up to quarter size in Dimmitt.

HOCKLEY COUNTY --- 1.0 E SMYER [33.58, -102.15]

06/23/23 17:00 CST	0	Hail (1.00 in)
06/23/23 17:00 CST	0	Source: Trained Spotter

A trained spotter reported quarter size hail east of Smyer.

LUBBOCK COUNTY --- 3.6 SE WOLFFORTH [33.47, -101.97], (LBB)LUBBOCK INTL AR [33.67, -101.82]

06/23/23 17:07 CST	50M	Hail (4.50 in)
06/23/23 17:42 CST	0	Source: NWS Employee

A large swath of giant hail occurred over an extensive portion of the city of Lubbock causing widespread damage to roofs and vehicles . The largest hailstone observed was 4.50 inches in diameter.

LUBBOCK COUNTY --- 1.0 S SLATON [33.42, -101.65]

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	06/23/23 18:12 CST		0	Hail (1.75 in)
	06/23/23 18:12 CST		0	Source: Public

A report was received of golf ball size hail just south of Slaton.

GARZA COUNTY --- 1.7 SE SOUTHLAND [33.33, -101.53]

	06/23/23 18:59 CST		0	Hail (1.75 in)
	06/23/23 18:59 CST		0	Source: Law Enforcement

Law enforcement in Garza County reported golf ball size hail southeast of Southland.

KENT COUNTY --- JAYTON [33.25, -100.58]

	06/23/23 20:05 CST		0	Hail (1.00 in)
	06/23/23 20:05 CST		0	Source: COOP Observer

An NWS cooperative weather observer reported quarter size hail in Jayton.

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

	06/23/23 20:10 CST		0	Thunderstorm Wind (MG 52 kt)
	06/23/23 20:10 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Jayton measured a wind gust of 60 mph.

GARZA COUNTY --- 1.0 NE POST [33.19, -101.37]

	06/23/23 20:15 CST		0	Thunderstorm Wind (MG 76 kt)
	06/23/23 20:18 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Post measured severe wind gusts from 2015 CST through 2018 CST. A peak wind gust of 87 mph was measured at 2015 CST.

(TX-Z026) CHILDRESS, (TX-Z032) COTTLE

	06/23/23 21:20 CST		0	High Wind (MAX 58 kt)
	06/23/23 22:09 CST		0	

Strong daytime heating and good moisture levels proved sufficient for scattered thunderstorm development up and down much of the High Plains on the afternoon and evening of the 23rd. In addition, a storm system emerging from the northern Rockies provided moderate to strong vertical wind shear over this same corridor, which promoted storm organization. Several of the thunderstorms gained strong mid-level rotation. These supercell thunderstorms generated very large hail and torrential downpours as they tracked eastward through the evening hours. One storm took aim at the south side of Lubbock (Lubbock County), producing golf ball to baseball size hail, and even larger in spots. The giant stones were widely spaced, but inflicted property damage where they impacted objects like cars and buildings.

High wind reports from the Texas Tech University West Texas mesonet site are listed below:

67 mph at Paducah (Cottle County),
58 mph at Hackberry (Cottle County), and
58 mph at Childress (Childress County).

Maximum wind gusts from area ASOS stations are listed below:

59 mph at Childress Municipal Airport (Childress County).

(TX-Z021) PARMER

	06/27/23 17:11 CST		0	High Wind (MAX 59 kt)
	06/27/23 17:12 CST		0	

Very hot and dry conditions developed on the afternoon of the 27th underneath a strong upper level high pressure system. Isolated virga showers were able to develop underneath the high pressure in the extreme southwestern Texas Panhandle. Due to the very dry near surface conditions, one of these virga showers produced a severe wind gust at Friona (Parmer County). A Texas Tech University West Texas mesonet site near Friona measured a severe wind gust of 68 mph.

HOCKLEY COUNTY --- 4.0 NNW LEVELLAND [33.64, -102.39], 4.3 NW OPDYKE [33.65, -102.32], 2.6 ESE ANTON [33.81, -102.13], 3.8 WNW ANTON [33.85, -102.23]

Storm Data and Unusual Weather Phenomena - June 2023

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/30/23 15:15 CST		0	Flash Flood (due to Heavy Rain)
	06/30/23 17:15 CST		0	Source: Law Enforcement

Torrential rainfall led to near zero visibilities along US Highway 84 in northeastern Hockley County as reported by local law enforcement and from public reports. Storms slowly trained over the area from central Hockley County from north of Levelland to near Anton . Water was reportedly over the roadway along US Highway 385 between Whitharral and Levelland.

HOCKLEY COUNTY --- 6.0 SSW ANTON [33.74, -102.21]

06/30/23 16:19 CST	0	Thunderstorm Wind (MG 56 kt)
06/30/23 16:20 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Anton measured severe wind gusts from 1619 CST through 1620 CST. A peak wind gust of 65 mph was measured at 1620 CST.

CROSBY COUNTY --- 6.0 NW WHITE RIVER LAKE [33.52, -101.16]

06/30/23 17:38 CST	0	Thunderstorm Wind (MG 62 kt)
06/30/23 17:45 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near White River Lake measured severe wind gusts from 1738 CST through 1745 CST. A peak wind gust of 71 mph was measured at 1744 CST.

DICKENS COUNTY --- 1.0 W SPUR [33.48, -100.87]

06/30/23 18:38 CST	0	Thunderstorm Wind (MG 56 kt)
06/30/23 18:38 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet near Spur measured a severe wind gust to 64 mph.

A storm system approached the region from the southern Rockies and Desert Southwest. In addition, rich Gulf of Mexico moisture spread northward into the South Plains. As lift from the disturbance reached the moisture, scattered thunderstorms developed across the southwest Texas Panhandle and western South Plains on the afternoon of the 30th. The thunderstorms grew upscale into clusters and eventually a line of storms as they propagated eastward through the late afternoon and evening hours. Torrential rainfall accompanied the most intense activity, which led to flooded roadways in areas. One band of concentrated heavy rain became anchored from north-central Hockley County to southeast Lamb County, north of Levelland (Hockley County) to southeast of Littlefield (Lamb County). Several inches of fell in over the course of a couple hours, making travel difficult to impossible for a time along US Highways 84 and 385. Additional heavy rain was more transient in nature, but still created at least minor flooding in spots, including parts of Lubbock (Lubbock County). As the thunderstorm coverage and its associated rain cooled outflows grew in size, wind gusts increased. A couple of locations in the Rolling Plains recorded severe wind gusts.