National Weather Service
Storm Data and Unusual Weather Phenomena

June 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

NEW MEXICO, Southeast

Eddy County

5 SW Carlsbad — **05** — **1608MST 1618MST** — **0** **0** **0** **0** — **Thunderstorm Wind (MG54)**

Convection characterized by weak radar reflectivity signatures developed above a very dry boundary layer over the southeast New Mexico plains during the afternoon of the 5th. This activity produced a severe dry microburst near the Carlsbad Airport. The ASOS located at the airport measured a gust to 62 MPH. Eyewitnesses described a large amount of blowing dust near the airport. Reports indicate the dust foot spread east from the airport over the next ten minutes. Lawn furniture was blown about by the winds, but no significant damage was reported.

Lea County

8 ESE Tatum — **16** — **1726MST** — **0** **0** **20K** **0** — **Thunderstorm Wind (EG61)**

A rural resident of northeast Lea County reported severe thunderstorm winds estimated between 60 and 70 MPH. The resident's home was severely damaged by the winds.

Lea County

15 E Tatum — **16** — **1734MST** — **0** **0** **5K** **0** — **Hail(2.50)**

Tennis ball size hail was reported in the small community of Bronco near the New Mexico/Texas state line.

An isolated severe thunderstorm produced damaging thunderstorm winds and giant hail in northeast Lea County during the early evening of the 16th.

Lea County

Hobbs — **18** — **1544MST** — **0** **0** **0** **0** — **Hail(1.00)**

Quarter size hail was reported in the city of Hobbs.

Lea County

5 NE Eunice — **18** — **1635MST** — **0** **0** **0** **0** — **Hail(0.88)**

Nickel size hail was reported along State Highway 18 northeast of Eunice

Lea County

2 SW Tatum to 2 SE Tatum — **18** — **1740MST** — **0** **0** **0** **0** — **Thunderstorm Wind (MG61)**

A 70 MPH severe thunderstorm wind gust was measured by a home weather station southwest of Tatum. No damage was reported.

Severe thunderstorms developed over the plains of southeast New Mexico during the late afternoon of the 18th. This activity produced large hail and severe winds.

Eddy County

3 W Artesia — **21** — **1450MST** — **0** **0** **0** **0** — **Thunderstorm Wind (MG62)**

Relatively weak convection characterized by shallow radar reflectivity values less than 35 dBz resulted in a dry microburst near the Artesia Airport. Precipitation aloft evaporated as it fell through a very deep and dry boundary layer. Temperature/dewpoint spreads were approximately 60 degrees F at the surface. Residents in Artesia also reported gusts to 50 MPH with blowing dust. No damage was reported.

Lea County

Lovington — **24** — **1403MST 1408MST** — **0** **0** **0** **0** — **Hail(1.00)**

Penny to quarter size hail covered the ground in Lovington.

Lea County

13 W Hobbs to Hobbs — **24** — **1500MST 1505MST** — **0** **0** **0** **0** — **Thunderstorm Wind (MG50)**

A severe thunderstorm wind gust to 58 MPH was measured at the Hobbs Airport west of the city. Gusts to 60 MPH were also estimated by the Hobbs Fire Department in the city. No damage was reported.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

NEW MEXICO, Southeast

Lea County

1 W Eunice to Eunice | **24** | **1608MST 1628MST** | **0** | **0** | **0** | **0** | **Hail(1.00)**

Quarter size hail fell in the west side of Eunice for twenty minutes. No damage was reported.

Lea County

Hobbs | **24** | **1630MST 1800MST** | **0** | **0** | **20K** | **0** | **Flash Flood**

Local officials reported between one and four feet of water flowing through some city streets in Hobbs. Several vehicles were washed off of the roadways. Several high water rescues were conducted, but no injuries were reported.

A complex of strong to severe thunderstorms moved south across Lea County during the late afternoon and early evening of the 24th. These storms produced large hail up to the size of quarters and flash flooding. Hail covered the ground near Lovington and Eunice. Several motorists in Hobbs were rescued from their vehicles when up to four feet of water swept them off of city streets.

Eddy County

Hope | **26** | **2140MST 2230MST** | **0** | **0** | **0** | **0** | **Flash Flood**

An area of heavy rainfall embedded within a large convective complex over southeast New Mexico during the late evening on the 26th resulted in flash flooding. Local officials reported high water over roadways around the community of Hope.

Lea County

20 W Jal | **29** | **1630CST 1800CST** | **0** | **0** | **0** | **0** | **Flash Flood**

Very heavy rainfall affected parts of southern Lea County during the pre-dawn hours of the 29th. Radar estimates indicated between four and six inches of rain fell in the area along and just north of State Road 128 in rural areas west of Jal. An additional complex of storms and heavy rainfall tracked across the southern parts of Lea County during the late afternoon. Radar estimated two to three inches of additional rainfall over the same areas soaked by the morning rains. This additional heavy rainfall fell within a one hour period, and flash flooding resulted. A rancher reported that Ochoa Ranch Road was washed out by the flowing flood waters.

TEXAS, West

Jeff Davis County

2 S Ft Davis to 12 SE Ft Davis | **03** | **1323CST 1345CST** | **0** | **0** | **3K** | **0** | **Hail(0.88)**

At least one vehicle was damaged by large hail along State Route 118.

Presidio County

1 E Marfa to 10 ESE Marfa | **03** | **1420CST 1425CST** | **0** | **0** | **0** | **0** | **Hail(0.75)**

Hail was reported along a nine mile stretch of U.S. Highway 90.

Presidio County

Presidio | **03** | **1530CST** | **0** | **0** | **0** | **0** | **Thunderstorm Wind (EG52)**

Presidio County

Shafter to 6 NNE Shafter | **03** | **1537CST 1555CST** | **0** | **0** | **0** | **0** | **Thunderstorm Wind (EG61)**

Severe thunderstorm winds were estimated at speeds between 60 and 70 MPH from Shafter to the Cibola Creek Ranch off of U.S. Highway 67. The winds were accompanied by "blinding" dust.

Several thunderstorms produced severe winds and large hail in the vicinity of the Davis Mountains on the afternoon of the 3rd

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

Jeff Davis County

31 NNW Ft Davis — **04** — **1440CST** — **0** — **0** — **0** — **0** — **Hail(0.75)**

Penny size hail covered the ground with drifts up to two and a half feet deep.

Reeves County

20 WNW Balmorhea to 23 WNW Balmorhea — **04** — **1520CST** — **0** — **0** — **0** — **0** — **Hail(1.75)**

The Reeves County Emergency Manager and the public reported intermittent large hail ranging in size from dimes to golfballs along Interstate 10 from near the Reeves/Jeff Davis County Line to the Interstate 10 and Interstate 20 split.

Jeff Davis County

5 ESE Valentine to 5 SE Valentine — **04** — **1640CST** — **0** — **0** — **0** — **0** — **Hail(0.75)**

Jeff Davis County

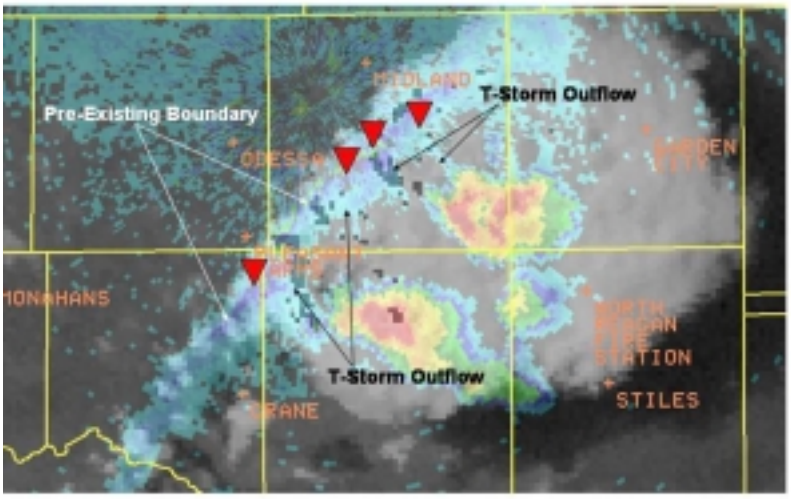
5 SE Valentine — **04** — **1640CST** — **0** — **0** — **0** — **0** — **Thunderstorm Wind (EG52)**

Penny size hail and 60 MPH winds were reported southeast of Valentine along U.S. Route 90.

Severe thunderstorms developed in the vicinity of the Davis Mountains during the afternoon of the 4th. Large hail and severe thunderstorm winds were reported with these storms.

Midland County

11 S Midland to 10.3 SSW Midland — **05** — **1652CST 1655CST** — **0.8** — **20** — **0** — **0** — **0** — **0** — **Tornado (F0)**



The above image is a composite of the visible satellite imagery and the KMAF 88D 0.5 degree base reflectivity at 1648 CST on June 5, 2004. Although the coldest (highest) cloud tops are dislocated to the northwest due to satellite parallax, multiple outflow boundaries can be seen as reflectivity "fine lines" intersecting a pre-existing boundary under a field of towering cumulus clouds west of two isolated severe thunderstorms. In the minutes following this composite image, a series of four landspout tornadoes were observed by the public and multiple law enforcement and emergency managment officials in Midland and northeastern Crane Counties (tornado locations are shown by red triangles).

The first in a series of landspout tornadoes developed just west of State Highway 349 south of Midland.

Midland County

5 SSE Midland to 4 S Midland — **05** — **1657CST 1702CST** — **1** — **30** — **0** — **0** — **0** — **0** — **Tornado (F0)**

A second landspout tornado developed just east of U.S. Highway 349 south of Midland

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

Midland County

5 ESE Midland | **05** | **1704CST**
1708CST | **1** | **20** | **0** | **0** | **0** | **0** | **Tornado (F0)**

A third landspout tornado was observed southeast of the city. This tornado likely crossed State Route 158.

Crane County

15 N Crane to 15.7 NNW Crane | **05** | **1715CST** | **0.7** | **20** | **0** | **0** | **0** | **0** | **Tornado (F0)**

The Odessa Police Department reported a tornado (landspout) in northeast Crane County near U.S. Highway 385.

A series of at least four landspout tornadoes developed as outflow from two isolated severe thunderstorms interacted with a pre-existing boundary remnant from the previous night's convection. Strong towering cumulus clouds above the boundary interactions provided sufficient vertical stretching to result in narrow dust filled vortices that visually extended toward the cloud bases. These landspouts were observed by many people in Midland and law officials in Odessa resulting in numerous reports from both public and local emergency officials.

Jeff Davis County

10 W Ft Davis | **05** | **1745CST** | | | **0** | **0** | **0** | **0** | **Thunderstorm Wind (MG61)**

A rural resident measured a 70 MPH wind gust from a severe thunderstorm.

Presidio County

4 N Marfa | **05** | **1855CST** | | | **0** | **0** | **0** | **0** | **Thunderstorm Wind (MG52)**

A severe thunderstorm wind gust was measured by the Marfa AWOS.

Presidio County

Marfa | **05** | **1925CST** | | | **0** | **0** | **0** | **0** | **Hail(0.88)**

Reeves County

7 SSW Pecos to 7 S Pecos | **05** | **1958CST**
2000CST | **0.7** | **30** | **0** | **0** | **0** | **0** | **Tornado (F0)**

The large outflow boundary that was enhanced by severe storms over southern Midland and northern Upton Counties continued west across the western Permian Basin and the Upper Trans Pecos. This feature was observed using local warning radar until it interacted with strong to severe convection moving off the higher terrain of southwest Texas. As the outflow boundary encountered this convection near Pecos, local officials observed the first of two tornadoes that occurred in eastern Reeves County south of Pecos near State Highway 17. This tornado may have been a landspout given that at the time the parent thunderstorm was not characterized by severe indicators in reflectivity and velocity Doppler radar data, however, explosive development was noted within the next ten to fifteen minutes prior to the following events. No damage was reported.

Reeves County

8 ESE Pecos | **05** | **2005CST** | | | **0** | **0** | **0** | **0** | **Hail(0.88)**

Nickel size hail was reported along Farm to Market 1450.

Reeves County

10 SE Pecos to 11 SE Pecos | **05** | **2005CST**
2010CST | **1** | **50** | **0** | **0** | **0** | **0** | **Tornado (F0)**

The parent thunderstorm that produced the previous tornado event began to show evidence of explosive development, including a well defined Weak Echo Region and a weak mesocyclone. This storm's development was likely enhanced as relatively weaker convection interacted with a westward moving outflow boundary. Numerous reports were received of a tornado southeast of Pecos. This tornado was located in rural areas east of Toyah Lake and just south of Farm to Market Road 1450. No damage was reported.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

Ward County

10 WSW Pyote — **05** — **2035CST** — **0** **0** **0** **0** — **Hail(0.88)**

Nickel size hail was reported along Interstate 20.

Reeves County

2 E Pecos — **05** — **2045CST 2135CST** — **0** **0** **0** **0** — **Flash Flood**

The Texas Department of Public Safety reported flooding of Farm to Market Road 1450 just east of Pecos.

Winkler County

12 WSW Kermit — **05** — **2108CST 2300CST** — **0** **0** **0** **0** — **Flash Flood**

Flash flooding resulted in running water flowing over State Highway 302 west of Kermit.

Pecos County

Coyanosa to 1 S Coyanosa — **05** — **2129CST 2131CST** — **0** **0** **0** **0** — **Hail(0.88)**

An active and very complicated round of severe thunderstorms affected west Texas during the late afternoon and evening of the 5th. Severe weather development was focused in two areas of the region. Convective initiation occurred first near a sub-synoptic scale outflow boundary that was situated across the southeast Permian Basin. This feature was a remnant from overnight convection to the northeast of the area. Two supercell thunderstorms developed along the boundary over rural areas of southeast Midland and northern Upton Counties. As these storms moved east, storm-scale outflow boundaries were observed in local warning radar base reflectivity and velocity data arcing away from the storms toward the west. Both of these boundaries interacted with the larger scale baroclinic boundary under a field of strongly growing convective towers over southern and central Midland County and northeast Crane County. A series of at least four landspout tornadoes were observed as these interactions occurred.

The mesoscale boundary began propagating west-northwest across the basin as the supercell storms provided convective enhancement to the cool (east) side of the boundary. Meanwhile strong to severe thunderstorms began propagating east from the mountainous areas of southeast New Mexico and southwest Texas. The convectively enhanced outflow boundary interacted with the complex of storms over the Upper Trans Pecos region. Large hail and two tornadoes were observed in east-central Reeves County.

Jeff Davis County

9 W Ft Davis — **06** — **1800CST** — **0** **0** **0** **0** — **Thunderstorm Wind (MG57)**

High based thunderstorms developed over the Davis Mountains on the afternoon of the 6th. These storms developed above a very dry and deeply mixed boundary layer, and in an environment favorable for intense convective winds. A rural resident west of Fort Davis measured a 65 MPH wind gust with a home weather station as a severe thunderstorm moved across the area.

Presidio County

5 N Shafter — **07** — **1935CST 1940CST** — **0** **0** **0** **0** — **Thunderstorm Wind (EG61)**

For the second time in a week, severe thunderstorm winds impacted the Cibola Ranch north of Shafter. Employees at the ranch reported that large tree limbs were broken by 70 MPH winds on the evening of the 7th as an isolated severe thunderstorm moved south across parts of Presidio County.

Brewster County

5 S Marathon — **08** — **1715CST** — **0** **0** **0** **0** — **Hail(0.75)**

Severe multicell thunderstorms affected the Marathon area on the afternoon of the 8th. The U.S. Border Patrol reported three quarter

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

inch hail at the check point south of Marathon on U.S. Highway 385.

Terrell County

9 NW Dryden | **09** | **1700CST 1705CST** | **0** | **0** | **0** | **0** | **Hail(0.75)**

An isolated supercell thunderstorm propagated south across Terrell County during the late afternoon of the 9th. The storm generally affected rural areas of the county, but a local rancher reported three quarter inch hail northwest of Dryden.

Terrell County

Sanderson to 6 W Dryden | **11** | **1558CST 1655CST** | **0** | **0** | **0** | **0** | **Hail(1.75)**

A supercell thunderstorm tracked southeast along U.S. Highway 90 in Terrell County. Multiple reports of large hail ranging in size from quarters to tennis balls were received between Sanderson and the Terrell County Airport.

Terrell County

2 SE Sanderson | **11** | **1600CST** | **0** | **0** | **5K** | **0** | **Hail(2.50)**

The Terrell County Judge reported tennis ball size hail along U.S. Highway 90 just southeast of Sanderson.

Terrell County

6 W Dryden | **11** | **1651CST** | **0** | **0** | **15K** | **0** | **Hail(2.50)**

Tennis ball size hail was reported at the Terrell County Airport.

Terrell County

Sanderson | **11** | **1734CST** | **0** | **0** | **0** | **0** | **Hail(0.75)**

A second severe thunderstorm developed near the city of Sanderson and resulted in large hail.

Mitchell County

Westbrook | **11** | **1800CST 1815CST** | **0** | **0** | **0** | **0** | **Hail(1.25)**

Hail ranging in size from peas to walnuts fell in Westbrook for fifteen minutes.

Mitchell County

Westbrook to 11 SSE Colorado City | **11** | **1850CST 1935CST** | **0** | **0** | **0** | **0** | **Hail(1.75)**

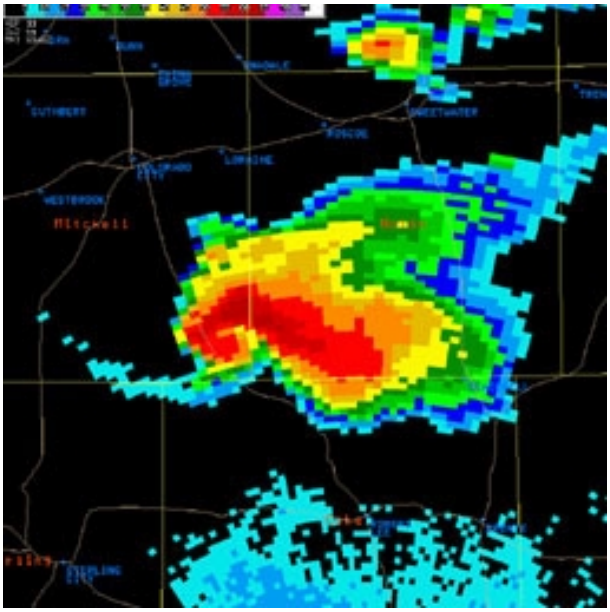
A second severe thunderstorm developed near Westbrook and resulted in numerous reports of large hail up to the size of golfballs along a broad swath from the city of Westbrook to along State Route 208 south of Colorado City. This storm evolved into a right moving classic supercell as it tracked southeast across the central parts of Mitchell County

Mitchell County

19 SSE Colorado City to 24 SSE Colorado City | **11** | **2025CST 2110CST** | **0** | **0** | **80K** | **0** | **Thunderstorm Wind (EG65)**

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West



The above image is the 0.5 degree base reflectivity data from the KSJT 88D at 2056 CST on June 11, 2004. Classic tornadic supercell signatures can be seen in the Doppler radar imagery as a strong tornado persisted over southeastern Mitchell County for approximately forty minutes. The gust front of damaging rear flank downdraft winds can be seen in the form a "fine line" of light reflectivity echoes arcing out from the hook echo. The tornado and damaging winds associated with this storm resulted in over 300 thousand dollars worth of damage and three injuries.

A broad swath of severe thunderstorm winds resulted in up to forty downed power and utility poles over southeastern Mitchell County. A National Weather Service damage survey concluded that these winds were associated with the storm's occlusion and precluded tornadogenisis. These rear flank downdraft winds snapped poles along State Route 208 and in rural areas east of the highway to the county line.

Mitchell County

17 SSE Colorado City to 20 SE Colorado City	**11**	**2028CST 2110CST**	**10.3**	**200**	**0**	**3**	**250K**	**0**	**Tornado (F2)**

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

Eight mobile homes were destroyed just before the tornado dissipated twenty miles southeast of Colorado City. The trailers served as bunks for hunters and gamers visiting the ranch property, and were not occupied at the time of the storm. The above photo shows one of the trailers as it came to rest against a small camper trailer.

A National Weather Service damage survey team concluded that a significant tornado struck rural areas of southeastern Mitchell County during the evening of the 11th. The team examined a damage path marked by shredded vegetation (mostly mesquite trees), downed utility poles, agricultural fences, and a complex of destroyed mobile homes that extended over ten miles in a continuous horseshoe shaped path that crossed State Route 208 twenty miles south-southeast of Colorado City.

The tornado developed seventeen miles south-southeast of Colorado City around 2028 CST. Damage indicates the tornado's motion was initially toward the southeast then east as it crossed the heavily traveled State Route 208. Two Texas Tech University students traveling north on 208 (south of the tornado's path) watched as a Ford Expedition drove into the tornadic circulation. The large sports utility vehicle was blown 100 yards off of the highway. Evidence supports the vehicle was rolled a considerable distance by the tornadic winds, but it is unclear whether it became airborne. Three motorists were transferred to local hospitals. One person sustained serious injuries that included a broken back.

A detailed damage path analysis and corresponding radar data suggest that the tornado then tracked very slowly east a few miles before curving to the northeast. Similar curved damage paths (turning left of the tornado's original motion) are commonly observed when well-developed tornadoes enter the dissipation stage. The tornado proved to remain very dangerous, however, as eight mobile homes were destroyed by the tornado near the end of its life cycle twenty miles southeast of Colorado City. The light weight and unanchored structures were blown over and shredded by the dissipation stage tornadic winds. The trailers were arranged in a complex and were used to provide shelter for groups of hunters that frequent the ranch property. They were not occupied when the tornado struck.

In summary, a significant round of severe thunderstorms affected parts of west Texas during the afternoon and evening of the 11th. At least two supercell storms produced giant hail and one strong tornado over the region.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

A supercell thunderstorm tracked across Terrell County in the west Texas Lower Trans Pecos region during the late afternoon hours. Multiple reports of large hail including two different instances of tennis ball sized stones were received as this storm tracked east along U.S. Highway 90 between Sanderson and Dryden.

A second area of convection erupted over the eastern Permian Basin by late afternoon and continued into the evening hours. A severe storm associated with this activity produced half-dollar size hail in the Westbrook community. An isolated classic supercell evolved from this complex of storms and took on a distinctly deviant southeastward storm motion. This storm took on radar characteristics consistent with a classic tornadic supercell. Hail up to the size of golfballs was observed southeast of Colorado City as the storm evolved into its tornadic phase. A long-lived significant tornado tracked across mainly rural areas of Mitchell County just after sunset. The tornado resulted in three injuries when it crossed State Route 208 and blew a vehicle off of the highway. Severe rear flank downdraft winds also resulted in widespread wind damage south of the tornado's path

Pecos County

Belding	**12**	**1500CST**			**0**	**0**	**0**	**0**	**Hail(0.75)**

Large hail was reported in Belding

Pecos County

24 S Ft Stockton	**12**	**1530CST**			**0**	**0**	**0**	**0**	**Hail(1.75)**

Law enforcement officials reported golfball size hail along U.S. Highway 385 south of Fort Stockton. The officer also observed a funnel cloud to his southwest at the time of the report.

Pecos County

30 S Ft Stockton to 28 SSE Ft Stockton	**12**	**1555CST 1557CST**	**1.3**	**150**	**0**	**0**	**0**	**0**	**Tornado (F0)**

A Pecos County Sheriff's deputy observed a tornado just east of U.S. Highway 385. The deputy described the tornado as a well-developed cone-shaped vortex, approximately 150 yards in width, that remained in open range land for about two minutes as it moved east. The deputy searched the area for damage after the tornado dissipated, and reported "shredded" mesquite trees in the tornado's path. Otherwise, no damage to man-made structures occurred.

Brewster County

Marathon	**12**	**1600CST 1605CST**			**0**	**0**	**0**	**0**	**Hail(0.75)**

Penny size hail was reported in Marathon.

Brewster County

Alpine	**12**	**1605CST 1610CST**			**0**	**0**	**0**	**0**	**Hail(1.75)**

Hail ranging in size from dimes to golfballs was reported in the city of Alpine. No damage was reported.

Brewster County

Marathon to 15 E Marathon	**12**	**1700CST 1720CST**			**0**	**0**	**0**	**0**	**Hail(0.88)**

A second severe thunderstorm affected Marathon, and produced penny size hail in the city. This storm continued to produce large hail as it moved to the east. A motorist traveling along U.S. Highway 90 encountered nickel size hail east of Marathon

Pecos County

4 E Longfellow	**12**	**1700CST**			**0**	**0**	**0**	**0**	**Hail(1.00)**

A storm spotter reported nickel to quarter size hail on the Terrell and Pecos County line along U.S. Highway 90.

Terrell County

10 W Sanderson	**12**	**1700CST**			**0**	**0**	**0**	**0**	**Hail(1.00)**

A storm spotter reported nickel to quarter size hail on the Terrell and Pecos County line along U.S. Highway 90.

Terrell County

Sanderson	**12**	**1735CST**			**0**	**0**	**0**	**0**	**Thunderstorm Wind (EG52)**

A trained weather spotter estimated severe thunderstorm wind gusts to 60 MPH in Sanderson.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

A complex of severe thunderstorms, including several embedded supercell storms, developed in the vicinity of the Davis and Glass Mountains during the afternoon of the 12th. This activity moved east into the Lower Trans Pecos region of west Texas through the early evening hours. Large hail, severe winds, and at least one tornado accompanied the convective complex. Radar indications suggested that the strongest storms tracked over remote parts of southern Pecos County and northwest Terrell Counties, where several Tornado Warnings were issued based on Doppler radar signatures of intense mesocyclone circulations. Although one tornado was spotted by a sheriff's deputy dispatched to observe the storms, the most dangerous activity remained over open range land.

Severe convective development began to spread north along a dryline during the late afternoon and evening hours. A complex of thunderstorms that included at least three supercells affected parts of the Permian Basin, and produced large hail and damaging winds.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Property	Crops	Character of Storm
Ward County									
Monahans to 8 ENE Monahans	**12**	**1624CST 1640CST**			**0**	**0**	**20K**	**0**	**Hail(1.75)**
Crane County									
30 NW Crane to 29 NNW Crane	**12**	**1638CST 1642CST**			**0**	**0**	**5K**	**0**	**Hail(1.00)**
Ector County									
10 SW Penwell to 8 SW Penwell	**12**	**1640CST 1645CST**			**0**	**0**	**5K**	**0**	**Hail(1.00)**

Law enforcement officials reported a swath of large hail along Interstate 20 from the city of Monahans in Ward County, northeast to mile marker 92 in southwest Ector County. Hail up to the size of golfballs was reported in the vicinity of Monahans. Quarter size hail was observed northeast of Monahans along the interstate in extreme northwest Crane County and in southwest Ector County

Ector County									
8 W Odessa to Gardendale	**12**	**1655CST 1735CST**			**0**	**0**	**0**	**0**	**Hail(1.00)**

Numerous reports of large hail were received along a swath from West Odessa northeast to the Gardendale community. The hail ranged in size from nickels to quarters.

Ector County									
Gardendale	**12**	**1733CST**			**0**	**0**	**15K**	**0**	**Hail(2.50)**

Tennis ball size hail was reported in Gardendale. Minor roof and vehicle damage was reported

Midland County									
12 WNW Midland	**12**	**1736CST**			**0**	**0**	**0**	**0**	**Hail(0.88)**

A supercell thunderstorm developed over Ward County, and propagated northeast along and just north of Interstate 20. This storm produced golfball size hail near Monahans. Continuous nickel to quarter size hail was reported by law enforcement officials from Monahans Sandhills State Park northeast along Interstate 20 across extreme northwest Crane County and into southwest Ector County near mile marker 92. Numerous reports of nickel to quarter size hail also accompanied the storm from West Odessa to the Gardendale Community in northeast Ector County. Hailstones the size of tennis balls reportedly fell in Gardendale, but reports of damage were minimal. The storm continued to produce large hail to the size of nickels as it moved across northwest Midland County.

Andrews County									
13 SE Andrews	**12**	**1630CST**			**0**	**0**	**0**	**0**	**Hail(0.75)**

Hail was reported along Farm to Market Road 1788 in southeast Andrews County.

Dawson County									
Patricia to 15 E Ackerly	**12**	**1721CST 1755CST**			**0**	**0**	**0**	**0**	**Hail(1.75)**

Hail ranging from the size of quarters to golfballs fell along a swath from the community of Patricia northeast to rural areas of eastern Dawson County.

A second supercell storm developed over southeast Andrews County. This storm moved northeast across rural portions of Martin

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

County and across much of southern and eastern Dawson County. The storm produced hail up to the size of golfballs. Due to the rural nature of western Martin County, no reports were received as the storm tracked across the county, however, storm chasers did observe funnel clouds as the storm approached the intersection of State Highways 349 and 176 in west-central Martin County

Borden County

6 E Gail	**12**	**1824CST**			**0**	**0**	**0**	**0**	**Hail(0.75)**

Scurry County

10 S Snyder to 3 E Snyder	**12**	**1835CST 1855CST**			**0**	**0**	**140K**	**0**	**Thunderstorm Wind (MG50)**

Scurry County

Snyder	**12**	**1840CST 1850CST**			**0**	**0**	**10K**	**0**	**Hail(1.00)**

The third supercell thunderstorm to affect parts of the Permian Basin late on the 12th evolved as part of a large convective complex that developed over the northeastern parts of the basin and the western low rolling plains of west Texas. This storm initiated near Lake J.B. Thomas in southeastern Borden County and moved northeast into Scurry County. This storm exhibited evidence of a persistently strong updraft through its life cycle, but was in the early stages of dissipation when it collapsed and produced a downburst near the city of Snyder. The mesonet site three miles east of Snyder measured a wind gust to 58 mph. Numerous public reports indicated dime to quarter size hail accompanied the thunderstorm along with extreme winds and torrential rains. Severe winds (likely higher than those measured by the mesonet instruments) resulted in five uprooted trees with trunks up to eighteen inches in diameter at the Snyder cemetery. A barn ten miles south of Snyder was also destroyed. Preliminary damage estimates from hail and wind in and around Snyder were approximately $150,000.

In summary, a very active severe weather episode impacted parts of west Texas on the 12th. Supercell thunderstorms initially developed along the higher terrain of the Davis and Glass Mountains. These storms moved east and became potentially tornadic across parts of southern Pecos, northern Brewster, and Terrell Counties. Damage from these potentially dangerous storms was precluded given their remote locations over rural areas of the west Texas Stockton Plateau and Lower Trans Pecos.

Additional severe thunderstorm development occurred late in the afternoon and into the early evening over the Permian Basin. At least three supercell thunderstorms tracked across the basin and resulted in large hail and damaging winds. The most significant damage inflicted by the severe weather event on the 12th occurred in the Snyder vicinity, where an intense downburst was accompanied by hail and damaging winds.

Brewster County

10 S Alpine	**15**	**1352CST**			**0**	**0**	**0**	**0**	**Hail(0.88)**

Nickel size hail was reported by the public south of Alpine on State Route 118

Pecos County

22 WNW Belding	**15**	**1620CST**			**0**	**0**	**0**	**0**	**Hail(0.88)**

A rural resident reported penny to nickel size hail in western Pecos County.

Reeves County

1 W Toyah	**15**	**1730CST**			**0**	**0**	**0**	**0**	**Hail(0.88)**

Scattered convection developed from the Big Bend north across the Trans Pecos region of west Texas on the afternoon and early evening of the 15th. A few of these storms became severe and produced large hail up to the size of nickels.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

Reeves County
Saragosa 16 1505CST 0 0 0 0 **Thunderstorm Wind (EG52)**
Severe thunderstorm winds stripped large branches out of trees in Saragosa.

Brewster County
10 ENE Alpine 16 1826CST 0 0 0 0 **Flash Flood**
2000CST
A fire department captain became stranded on Ranch Road 6 northeast of Alpine when heavy rainfall and flash flooding caused the normally dry Black Creek to run at least one hundred yards wide. The rushing water "scoured" trees and removed boulders.

Brewster County
Panther Junction 16 1837CST 0 0 0 0 **Hail(1.75)**
1845CST
Quarter to golfball size hail was reported at the Big Bend National Park headquarters.

Severe thunderstorms resulted in large hail, damaging winds, and flash flooding across the Davis Mountains and the Big Bend of west Texas during the late afternoon and evening of the 16th.

Reeves County
Toyah 17 1815CST 0 0 30K 0 **Thunderstorm Wind (EG44)**
A 100 year-old bank building in Toyah was destroyed when strong winds affected the community on the evening of the 17th. Radar reflectivity data depicted strong to severe thunderstorms well to the west of Toyah in adjacent Culberson County, however, only light reflectivity returns were indicated in the Toyah area and appeared to be associated with anvil blow-off down wind of the severe storms. The Reeves County Emergency Manager reported winds around 50 MPH when the building was destroyed. These winds were likely associated with outflow from the distant storms. The structural integrity of the historic building may have been compromised by the extensive flooding event which affected the community in early April.

Culberson County
10 E Plateau 17 1932CST 0 0 0 0 **Hail(1.75)**
Golfball hail covered the ground along Interstate 10 east of Plateau.

Scattered thunderstorms developed near the higher terrain of west Texas during the afternoon and evening of the 17th. An isolated storm became severe over southern Culberson County and resulted in large hail along Interstate 10. Outflow from strong convection likely resulted in the collapse of a historic building in Toyah (central Reeves County).

Reeves County
Pecos 18 1505CST 0 0 20K 0 **Thunderstorm Wind (EG52)**
Severe thunderstorm winds resulted in minor roof damage to a few structures in Pecos.

Reeves County
3 SSE Pecos 18 1523CST 0 0 0 0 **Hail(0.75)**
Large hail was reported at the intersection of U.S. Highway 285 and Farm to Market Road 1450.

Brewster County
Panther Junction 18 1730CST 0 0 0 0 **Hail(1.75)**
Strong to severe thunderstorms erupted late in the afternoon of the 18th over the Big Bend. A park ranger reported golfball size hail at the Big Bend National Park headquarters. The event time listed is an estimatation.

Dawson County
Countywide 18 2227CST 0 0 15K 0 **Flash Flood**
19 0100CST
A complex of thunderstorms produced heavy rainfall over a large part of Dawson County. Local officials reported widespread

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

flooding in the city of Lamesa with high water in many city streets. Several vehicles were washed off of State Highway 137 seven to eight miles northwest of Lamesa where at least six inches of water flowed over the road. U.S. Highway 87 was also inundated by high water twelve miles north-northeast of Lamesa. In addition, flood waters covered State Highway 349 five miles south of the city.

Strong to severe thunderstorms developed over the Upper Trans Pecos region of west Texas during the afternoon of the 18th. A severe storm moved over the city of Pecos, and resulted in damaging winds and hail. Thunderstorm activity spread northeast through the evening hours. A complex of strong thunderstorms produced very heavy rainfall and widespread flash flooding in Dawson County.

Midland County

5 SSW (Maf) Midland In **20** **2117CST** **0** **0** **0** **0** **Thunderstorm Wind (EG52)**

A severe thunderstorm over southwest Midland County produced an intense downburst. Texas Department of Public Safety officers reported 60 MPH winds along Farm to Market Road 1788 just south of Interstate 20.

Reagan County

4 W Big Lake **21** **0530CST** **0700CST** **0** **0** **0** **0** **Flash Flood**

The intersection of Farm to Market Road 1676 and U.S. Highway 67 was inundated by flowing flood waters.

Showers and thunderstorms were numerous over the west Texas Permian Basin late in the evening of the 20th and into the early morning of the 21st. An isolated thunderstorm resulted in a severe downburst in southwestern Midland County during the late evening hours. Flash flooding became the primary threat during the early morning over the southeast basin

Howard County

Knott **21** **1745CST** **0** **0** **0** **0** **Hail(1.00)**

Nickel to quarter size hail covered the ground in Knott.

Howard County

3 S Big Spring **21** **1832CST** **0** **0** **0** **0** **Hail(1.75)**

Nickel to golfball size hail was reported along U.S. Highway 87 just south of Big Spring

Howard County

Big Spring to 11 S Big Spring **21** **1840CST** **2330CST** **0** **0** **20K** **0** **Flash Flood**

Extensive flash flooding was reported in the vicinity of Big Spring during the evening hours. A vehicle was washed off of a city street at 18:45 CST. The occupants were rescued by fire department personnel. Spotters reported several vehicles stalled in high flood waters along Farm to Market Road 700 at 19:40 CST. A foot of flowing water covered portions of U.S. Highway 87 near the intersection of Todd Road. In addition, an elderly man was stranded for several hours by flood waters covering Farm to Market Road 33 south of Big Spring near the Howard/Glasscock County line

Midland County

1 NW Midland to 1 SE Midland **21** **1850CST** **1855CST** **0** **0** **0** **0** **Hail(0.75)**

A severe thunderstorm developed over the northwest side of Midland and produced large hail as it moved east-southeast across the city. Penny size hail was reported in the Greentree subdivision on the northwest side of the city. Additional reports of hail were received from the area around mile marker 139 on Interstate 20.

Glasscock County

12 N Garden City to 15 N Garden City **21** **2026CST** **2300CST** **0** **0** **0** **0** **Flash Flood**

Skywarn Spotters reported that portions of Farm to Market Road 33 were barricaded by local highway officials. The highway was deemed impassable from twelve miles north of Garden City to the Howard/Glasscock County line due to flowing water caused by

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

flash flooding.

Scattered thunderstorms developed over the central and eastern Permian Basin of west Texas as a cold front began to work its way south into the area. A few of these storms became severe and produced large hail and flash flooding. The most significant activity occurred in the Big Spring area, where hail up to the size of golfballs and extensive flash flooding was reported. Despite the closing of several highways due to high water and reports of high water rescues, no injuries were reported

Midland County

Midland	**24**	**1610CST 1830CST**			**0**	**0**	**100K**	**0**	**Flash Flood**

Roads all over the city of Midland were flooded after a severe storm dumped over an inch of rain in the area during rush hour traffic during the afternoon of the 24th. The floods had rescue crews working feverishly with over fifty high water rescues conducted by Midland Fire Department personnel, including the rescue of a toddler that was abandoned in a stalled out vehicle. Photo courtesy of Kris J. Murante/Midland Reporter Telegram.

Flooding of city streets was widespread across the city of Midland as a severe thunderstorm tracked across the area. Between two and four feet of water rushed down Midland and Wadley Drives. At least four vehicles were submerged. Cars were also stranded in high water near the intersection of Briarwood and Oriole in the northwestern parts of the city. Portions of Illinois Street, Midkiff, and U.S. Highway 80 were also inundated by flood waters. A total of fifty-three high water rescues were conducted by the Midland Fire Department during the storm. A one year-old child was abandoned in the car seat of a stranded vehicle and had to be rescued by fire officials. Despite the magnitude of the flooding, no injuries were reported thanks to the work of local emergency workers.

Midland County

1 NW Midland to 5 SSE Midland	**24**	**1615CST 1625CST**			**0**	**0**	**0**	**0**	**Hail(1.00)**

Numerous reports were received of nickel to quarter size hail in and near the city of Midland. Nickel size hail was reported in the Greentree subdivision on the city's northwest side. Hail to the size of quarters was reported several blocks south in the Briarwood division. Nickel size hail was also reported in Cotton Flats just southeast of the city.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

Ector County

4 WSW Goldsmith | **24** | **1842CST 2100CST** | **0** | **0** | **0** | **0** | **Flash Flood**

Storm spotters reported high water flowing over State Highway 158 four miles west-southwest of Goldsmith near the intersection with State Highway 302.

Upton County

9 N Rankin | **24** | **2031CST 2200CST** | **0** | **0** | **0** | **0** | **Flash Flood**

A deputy reported nearly a foot of water flowing over State Highway 349 north of Rankin.

A complex of strong thunderstorms affected portions of the central Permian Basin of west Texas during the late afternoon and early evening of the 24th. Although flash flooding presented the main threat to life and property, an isolated severe storm developed within the complex and resulted in large hail in the city of Midland. Midland was also the focus for the most dangerous flash flooding of the episode. Flooding of streets was widespread across the city with numerous vehicles becoming stalled. The Midland Fire department conducted over fifty high water rescues to remove stranded motorists from the rushing flood waters.

Upton County

Mc Camey | **25** | **1601CST 1730CST** | **0** | **0** | **0** | **0** | **Flash Flood**

Upton County

Rankin | **25** | **1610CST 1730CST** | **0** | **0** | **0** | **0** | **Flash Flood**

Thunderstorms over the southeastern Permian Basin produced heavy rainfall and flash flooding that resulted in flowing water over many city streets in McCamey. Several city streets had to be barricaded by local highway officials. In addition, high water flowed over the intersection of State Highways 349 and U.S. Highway 67 in Rankin.

Gaines County

6 S Loop | **25** | **1815CST** | **0** | **0** | **0** | **200K** | **Thunderstorm Wind (EG52)**

Severe thunderstorm winds combined with small hail to wipe out two cotton crops in eastern Gaines County. The winds were strong enough to blow several truck tires a distance of one hundred yards.

Thunderstorm activity was widespread across the Permian Basin during the late afternoon and evening of the 25th. An isolated storm over eastern Gaines County became strong enough to produce agricultural damage. In addition, an area of very heavy rainfall over the southern Permian Basin resulted in flash flooding across southern Upton County.

Jeff Davis County

Ft Davis to 8 SE Ft Davis | **26** | **1446CST 1600CST** | **0** | **0** | **0** | **0** | **Flash Flood**

Local emergency management officials reported all roads and highways in the city were inundated by high water. Flooding of State Route 118 was also reported southeast of Fort Davis.

Brewster County

Alpine | **26** | **1533CST 1700CST** | **0** | **0** | **0** | **0** | **Flash Flood**

Law enforcement officials reported that many secondary roadways in Alpine were inundated by flood waters.

Upton County

Mc Camey to 3 S Mc Camey | **26** | **1804CST 2000CST** | **0** | **0** | **0** | **0** | **Flash Flood**

Local officials reported that city streets in McCamey were inundated by high water. Flooding was also reported south of the city along Farm to Market Road 1901 extending to the Crockett County line.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

Thunderstorm activity was again widespread over much of west Texas. An abnormally moist atmosphere provided conditions favorable for additional heavy rainfall

Terrell County

28 NNE Dryden	**28**	**0920CST** **1100CST**			**0**	**0**	**0**	**0**	**Flash Flood**

Thunderstorms produced heavy rainfall over the northern parts of Terrell County during the morning of the 28th. Flash flooding was reported at the Terrell County Gas Plant where high water was observed flowing over Texas State Highway 349.

Ector County

Odessa to 4 E Odessa	**29**	**1848CST** **2100CST**			**0**	**0**	**0**	**0**	**Flash Flood**

An isolated strong thunderstorm developed over northern Ector County. This storm resulted in very intense rainfall and flash flooding as it moved across the city of Odessa. U.S. Highway 385 was impassable due to flood waters on the north side of the city. In addition frontage roads along Business Interstate 20 were completely submerged by flowing water near Loop 338 on the east side of Odessa.

Midland County

15 SW Midland to Midland	**29**	**1943CST** **2300CST**			**0**	**0**	**25K**	**0**	**Flash Flood**

A car sits half submerged in more than two feet of water several yards away from a plainly marked flood guage. The driver tried to cross a flooded low water crossing on Highway 80/Business Interstate 20 in Midland. Flood waters rushed down Scharbuaer Draw inundating the heavily used highway and stranded several motorists. Vehicles were also stalled on numerous city streets. Photo courtesy of Tim Fischer/Midland Reporter Telegram.

The thunderstorm that produced flooding rainfall over Odessa continued moving east across northwest Midland County. Frontage roads along Business Interstate 20 flooded near the Midland and Ector County line. In the city of Midland, over four feet of water ran down Midland and Wadley Drives and resulted in several stalled out vehicles. Over a foot of water covered several roads near the fairgrounds on the east side of the city. No injuries were reported.

Pecos County

5 W Iraan to Iraan	**29**	**2134CST** **2330CST**			**0**	**0**	**0**	**0**	**Flash Flood**

Flash flooding caused high water to inundate many city streets in Iraan with up to three feet of water. Flooding was also reported

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

TEXAS, West

along U.S. Highway 190 west of Iraan.

Terrell County

9 W Sanderson	**29** **30**	**2225CST** **0000CST**			**0**	**0**	**0**	**0**	**Flash Flood**

Local officials reported high water flowing over U.S. Highway 90 west of Sanderson.

A modified tropical airmass remained over much of west Texas on the 29th. Thunderstorms initially developed in the Trans Pecos region of the state and across the plains of southeastern New Mexico. As this activity spread east over the Permian Basin and the Stockton Plateau, heavy rainfall resulted in flash flooding. The most significant flooding occurred in the city of Midland where several vehicles stalled when flood waters rushed down city streets.