

Storm Data and Unusual Weather Phenomena - June 2009

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

(TX-Z038) KING, (TX-Z043) KENT, (TX-Z044) STONEWALL

06/01/09 00:00 CST	0	Drought
06/30/09 23:59 CST	2.50M	

Despite a wet summer and early fall of 2008, precipitation was scarce over the west Texas South Plains region from late October 2008 through May 2009, especially over the southern Rolling Plains. As a result, Severe (D2) drought conditions, which developed during late January 2009, were ongoing over Kent and King Counties at the beginning of June and Extreme (D3) drought was in place over Stonewall County.

Beneficial rainfall totals of one to four inches improved moisture conditions over the southern Rolling Plains during mid and late June. This caused long-term rainfall deficits to improve into the 60% to 70% range of climatological normal values. Thus the U.S. Drought Monitor indicated an end of Extreme (D3) drought in Stonewall County on the 16th, and subsequent cessation of Severe (D2) drought over King County on the 23rd and Kent County by the month's end.

With the persistence of Severe (D2) drought over Stonewall County throughout June, however, some agricultural impacts continued to influence the local economy. The onset of periodic convective wetting rains helped the local cotton industry, although some planting was delayed due to the relative lack of rain in May. In addition, state agricultural officials estimate that cattle losses related to the drought will exceed \$1 billion. Only a fraction of those losses occurred in the South Plains region with most of the land used for cotton production.

The total economic impact across the South Plains region in June was estimated at \$2 million, with approximately \$26 million dollars of economic loss occurring locally since the onset of severe (D2) drought conditions in January 2009.

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

06/01/09 19:10 CST	0	Thunderstorm Wind (MG 54 kt)
06/01/09 19:10 CST	0	Source: Mesonet

The Texas Tech University West Texas Mesonet measured a severe thunderstorm wind gust of 62 mph near Turkey. No damage was reported.

HALE COUNTY --- PLAINVIEW [34.20, -101.70]

06/01/09 20:12 CST	0	Hail (0.88 in)
06/01/09 20:15 CST	0	Source: Fire Department/Rescue

Multiple reports of nickel to quarter size hail were received from motorists traveling along Interstate 27 in Plainview.

CHILDRESS COUNTY --- 13.0 NW CHILDRESS [34.55, -100.36], 2.0 NNE CHILDRESS [34.45, -100.19]

06/01/09 20:15 CST	5K	Thunderstorm Wind (MG 50 kt)
06/01/09 20:35 CST	0	Source: Mesonet

A swath of damaging thunderstorm winds impacted portions of Childress County during the 20:00 CST hour of the 1st. A National Weather Service cooperative observer reported that winds initially partially blew the roof off of a tin barn northwest of Childress at 20:15 CST. At 20:35 CST, the Texas Tech University West Texas Mesonet site near Childress recorded a severe thunderstorm wind gust of 58 mph. No additional damages were reported in Childress proper.

KING COUNTY --- GROW [33.82, -100.32]

06/01/09 21:05 CST	0	Hail (0.88 in)
06/01/09 21:05 CST	0	Source: Fire Department/Rescue

The Dickens Fire Department reported nickel size hail in Grow.

CROSBY COUNTY --- RALLS [33.68, -101.38]

06/01/09 21:15 CST	0	Hail (1.00 in)
06/01/09 21:15 CST	0	Source: Fire Department/Rescue

Local fire department officials reported quarter size hail in Ralls.

SWISHER COUNTY --- 3.0 WNW KRESS [34.39, -101.80], 7.0 E KRESS [34.37, -101.63]

06/01/09 23:50 CST	0	Hail (0.75 in)
06/02/09 00:10 CST	3M	Source: Public

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Pea to penny size hail combined with 40 to 45 mph winds to cause extensive damage to young cotton crops along a swath from just west of Kress to near Claytonville along Farm to Market Road 145. Local farmers reported that the wind-driven hail "completely destroyed" several fields.				

Isolated to scattered thunderstorms impacted portions of the northeastern South Plains and the Rolling Plains of west Texas during the evening hours of the 1st. Several storms became severe and produced hail up to the size of quarters and damaging thunderstorm winds. The most significant impacts occurred in Childress County where one structure sustained wind damage, and in Swisher County where wind-blown hail destroyed a number of young cotton crops.

KENT COUNTY --- 4.0 E CLAIREMONT [33.17, -100.68], CLAIREMONT [33.17, -100.75]

06/02/09 13:47 CST	20K	Hail (1.75 in)
06/02/09 14:37 CST	0	Source: Fire Department/Rescue

Multiple reports of large hail were received from the Clairemont vicinity as a large supercell thunderstorm developed along a pre-existing outflow boundary and remained almost stationary. Local fire department officials initially reported golfball size hail east of Clairemont along U.S. Highway 380 at 13:47 CST. By 13:58, very large hail was reported in Clairemont as the storm grew in coverage and intensity and effectively back built toward the town. Nickel size hail continued to fall near Clairemont until 14:37 CST. Although minor damage to vehicles and roofs occurred, no major damage was reported.

CROSBY COUNTY --- 13.0 S RALLS [33.49, -101.38]

06/02/09 13:53 CST	0	Hail (1.75 in)
06/02/09 13:53 CST	0	Source: Public

The public reported golfball size hail in Caprock. No damage was reported.

LUBBOCK COUNTY --- 2.2 W BURRIS [33.53, -101.82], 5.0 SW IDALOU [33.62, -101.74]

06/02/09 13:55 CST	0	Hail (1.00 in)
06/02/09 14:05 CST	0	Source: Broadcast Media

Multiple reports of hail up to the size of quarters were received from portions of east Lubbock as scattered thunderstorms began to intensify along a pre-existing outflow boundary.

KENT COUNTY --- CLAIREMONT [33.17, -100.75]

06/02/09 13:58 CST	30K	Hail (2.75 in)
06/02/09 13:58 CST	0	Source: Storm Chaser

Very large baseball size hail stones were reported by storm chasers in Clairemont. These hail stones were produced by a prolific supercell thunderstorm that developed over the Clairemont vicinity along a pre-existing outflow boundary. The storm moved very little for almost an hour. Minor damages to vehicles and roofs were reported.

GARZA COUNTY --- 13.0 N POST [33.37, -101.38], 11.0 ENE POST [33.24, -101.20]

06/02/09 14:42 CST	0	Hail (1.00 in)
06/02/09 14:54 CST	0	Source: Trained Spotter

Storm spotters and local law enforcement officials reported a swath of hail up to the size of quarters, and occasionally larger, from north of Post to Farm to Market Road 2008 east-northeast of the city.

LUBBOCK COUNTY --- 6.0 WNW LUBBOCK [33.61, -101.95], SHALLOWATER [33.68, -101.98]

06/02/09 14:50 CST	0	Hail (1.50 in)
06/02/09 15:10 CST	0	Source: Trained Spotter

Numerous reports of nickel to ping-pong ball size hail were received along a swath from northwest Lubbock to Shallowater. The hail occurred as a supercell thunderstorm developed along a westward moving outflow boundary.

GARZA COUNTY --- 11.0 ENE POST [33.24, -101.20]

06/02/09 14:54 CST	0	Hail (2.75 in)
06/02/09 14:54 CST	0	Source: Law Enforcement

Law enforcement officials reported baseball size hail along Farm to Market Road 2008 just north of U.S. Highway 82 in eastern Garza County. No significant damage was reported.

HOCKLEY COUNTY --- SMYER [33.58, -102.17]

06/02/09 15:30 CST	0	Hail (1.75 in)
06/02/09 15:30 CST	0	Source: Post Office

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Post office employees reported golfball size hail in Smyer as a supercell thunderstorm moved westward into Hockley County from northwestern Lubbock County. No damage was reported.

TERRY COUNTY --- 3.0 W MEADOW [33.33, -102.25]

	06/02/09 15:40 CST		0	Tornado (EF0, L: 0.01 mi , W: 25 yd)
	06/02/09 15:40 CST		0	Source: NWS Employee

An off-duty National Weather Service employee observed a brief landspout tornado in northeastern Terry County around 15:40 CST. The tornado, which persisted for less than one minute, occurred as new convection was developing above pre-existing outflow boundaries. The tornado appeared as a dusty soda straw, with the visible portion of the dust tube extending more than half way to the cloud base.

GARZA COUNTY --- 8.0 ENE JUSTICEBURG [33.07, -101.07]

	06/02/09 15:45 CST		0	Thunderstorm Wind (MG 63 kt)
	06/02/09 15:45 CST		0	Source: Mesonet

The Texas Tech University West Texas Mesonet site near Lake Alan Henry recorded a 72 mph thunderstorm wind gust at 15:45 CST. No damage was reported.

BAILEY COUNTY --- 2.0 N NEEDMORE [34.06, -102.73]

	06/02/09 15:46 CST		0	Hail (1.75 in)
	06/02/09 15:46 CST		0	Source: Public

The public reported golfball size hail along Texas Highway 214 north of Needmore. No damage was reported.

HOCKLEY COUNTY --- ROPESVILLE [33.42, -102.15]

	06/02/09 16:03 CST		0	Hail (1.00 in)
	06/02/09 16:03 CST		0	Source: Law Enforcement

Local law enforcement officials reported quarter size hail in Ropesville.

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

	06/02/09 16:15 CST		0	Hail (1.75 in)
	06/02/09 16:15 CST		0	Source: Storm Chaser

Storm chasers reported golfball size hail in Meadow at 16:5 CST. No damage was reported.

LUBBOCK COUNTY --- 3.0 NW SHALLOWATER [33.71, -102.02]

	06/02/09 16:26 CST		0	Hail (0.75 in)
	06/02/09 16:26 CST		0	Source: Trained Spotter

Skywarn storm spotters reported penny size hail along U.S. Highway 84 northwest of Shallowater as renewed convection developed over northwestern Lubbock County.

BAILEY COUNTY --- 5.0 NW NEEDMORE [34.08, -102.79]

	06/02/09 16:45 CST		0	Hail (1.00 in)
	06/02/09 16:45 CST		0	Source: Broadcast Media

A second severe storm impacted the Needmore vicinity and produced quarter size hail at 16:45 CST.

BAILEY COUNTY --- MULESHOE [34.22, -102.73]

	06/02/09 19:12 CST		0	Hail (0.88 in)
	06/02/09 19:12 CST		0	Source: Emergency Manager

An evening thunderstorm impacted Muleshoe shortly after 19:00 CST. The Bailey County Emergency Manager reported nickel size hail in the city.

Severe thunderstorms initiated along a pre-existing outflow boundary oriented northwest-to-southeast over the central South Plains during the afternoon hours of the 2nd. Storm modes initially favored isolated supercells which produced very large hail and localized wind gusts up to 72 mph. As storm-scale cold pools expanded in coverage, more scattered multicell storms developed westward over the western South Plains. At least one non-mesocyclonic tornado was observed as new convection intensified over Terry County. Only limited reports of hail damage to vehicles and roofs were received.

PARMER COUNTY --- 3.0 E BOVINA [34.52, -102.85]

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	06/04/09 18:10 CST		0	Hail (1.00 in)
	06/04/09 18:25 CST		0	Source: Public

The public reported that nickel to quarter size hail fell just east of Bovina for about fifteen minutes.

SWISHER COUNTY --- HAPPY [34.73, -101.85], 4.0 N KRESS [34.43, -101.75]

	06/04/09 18:41 CST		20K	Thunderstorm Wind (MG 51 kt)
	06/04/09 19:10 CST		0	Source: Mesonet

The KVII-TV Schoolnet recorded a thunderstorm wind gust of 59 mph at 18:41 CST. No damage was reported. The parent complex of thunderstorms continued to intermittently produce damaging winds as it propagated south-southeastward over Swisher County. A post-storm survey by Texas Tech University West Texas Mesonet meteorologists discovered several snapped wooden power poles along U.S. Highway 87 north of Kress.

BAILEY COUNTY --- 2.0 NW PROGRESS [34.30, -102.85], MULESHOE [34.22, -102.73]

	06/04/09 18:45 CST		0	Hail (1.00 in)
	06/04/09 19:01 CST		0	Source: Law Enforcement

Local law enforcement and emergency management officials reported that large hail up to the size of quarters fell along U.S. Highway 84 from near Progress to Muleshoe. At 18:45 CST marble to quarter size hail was initially reported just northwest of Progress. By 19:01 CST, dime to nickel size hail reportedly fell in Muleshoe.

LAMB COUNTY --- 2.0 W EARTH [34.23, -102.44]

	06/04/09 19:09 CST		0	Hail (0.75 in)
	06/04/09 19:09 CST		0	Source: Storm Chaser

Storm chasers reported penny size hail along U.S. Highway 70 west of Earth.

LUBBOCK COUNTY --- REESE AFB [33.60, -102.05], REESE VLG [33.60, -102.02]

	06/04/09 20:30 CST		25K	Thunderstorm Wind (MG 82 kt)
	06/04/09 20:37 CST		0	Source: Mesonet

The Texas Tech University West Texas Mesonet site and research complex at Reese Center obtained high-resolution measurements of a damaging swath of thunderstorm winds between 20:30 CST and 20:37 CST, as an intense supercell storm produced extreme outflow winds and large hail in the Reese Center vicinity. The Texas Tech University West Texas Mesonet site at Reese center initially recorded a 74 mph gust at 20:30 CST and a 65 mph gust at 20:35 CST. Meanwhile, additional research instrumentation on the west end of the complex measured numerous gusts in the 80 mph and 90 mph range. A peak gust of 94 mph was measured by one of these instruments at a height of thirteen feet above the ground. Fortunately, the strongest winds occurred over open terrain immediately west of the Reese Center complex, however, a number of light weight structures sustained damage from the winds that were at times accompanied by golfball size hail. Some instrumentation was destroyed. The roof was partially removed from at least one large storage barn, and other out door equipment was displaced and heavily damaged. No injuries were reported.

HOCKLEY COUNTY --- 4.0 S LEVELLAND [33.52, -102.37], 6.0 NW ROPESVILLE [33.48, -102.22]

	06/04/09 20:31 CST		0	Thunderstorm Wind (MG 59 kt)
	06/04/09 20:38 CST		0	Source: Mesonet

A swath of 60 mph to 70 mph winds impacted central Hockley County shortly after 20:30 CST as severe thunderstorms swept southward over the area. A Texas Tech University West Texas Mesonet meteorologist estimated gusts in the 60 mph to 70 mph range between 20:31 CST and 20:35 CST northwest of Ropesville. Small hail and blinding dust reportedly accompanied the winds, and pea to dime size hail covered the ground. By 20:38 CST, the Texas Tech University West Texas Mesonet site near Levelland recorded a peak gust of 68 mph. No significant damage was reported.

LUBBOCK COUNTY --- REESE VLG [33.60, -102.02]

	06/04/09 20:35 CST		2K	Hail (1.75 in)
	06/04/09 20:40 CST		0	Source: Mesonet

Texas Tech University West Texas Mesonet meteorologists reported that golfball size hail blown by thunderstorm winds damaged instrumentation at Reese Center.

TERRY COUNTY --- BROWNFIELD [33.18, -102.28]

	06/04/09 21:10 CST		0	Thunderstorm Wind (MG 67 kt)
	06/04/09 21:10 CST		0	Source: Emergency Manager

The Terry County Emergency Manager measured a 77 mph thunderstorm wind gust at 21:10 CST. No significant damage was reported. A near-by Texas Tech University West Texas Mesonet site recorded a 56 mph peak wind two miles south of Brownfield at the same time.

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TERRY COUNTY --- BROWNFIELD [33.18, -102.28]

	06/04/09 21:58 CST	0	0	Hail (0.88 in)
	06/04/09 21:58 CST	0	0	Source: Trained Spotter

Storm spotters reported pea to nickel size hail in Brownfield shortly before 22:00 CST.

A convective complex developed over the western Texas Panhandle during the late afternoon and early evening hours of the 4th. This system resulted in damaging winds and large hail as it propagated south-southeastward over the west Texas South Plains during the evening. The complex evolved into a broken line of organized multicell and occasional supercellular storms as it quickly swept southward along a pre-existing outflow boundary. Several of the more intense cells within the complex produced extreme wind gusts and golfball size hail. The most significant impacts occurred over western Lubbock County, where a swath of extreme thunderstorm winds and wind-blown hail damaged light weight structures and instrumentation at the Texas Tech University West Texas Mesonet facility at Reese Center.



The severe storm and associated arcus shown here produced severe winds in Hockley County during the evening hours of the 4th. Photo courtesy: Todd Lindley - National Weather Service - Lubbock, Texas.

COTTLE COUNTY --- CHALK [33.88, -100.22], SWEARINGEN [34.15, -100.15]

	06/06/09 16:20 CST	0	0	Hail (0.88 in)
	06/06/09 16:55 CST	0	0	Source: Public

Penny to nickel size hail accompanied a severe thunderstorm that moved north-northeastward across eastern Cottle County. The public initially reported nickel size hail at Chalk at 16:20 CST. Penny size hail was later reported at Swearingen just before 17:00 CST.

CHILDRESS COUNTY --- 3.0 SE CHILDRESS [34.39, -100.16]

	06/06/09 17:35 CST	50K	0	Thunderstorm Wind (EG 56 kt)
	06/06/09 17:35 CST	0	0	Source: Law Enforcement

Local law enforcement officials reported that thunderstorm winds damaged utility poles and lines just southeast of Childress shortly after 17:30 CST. The damages resulted in widespread power outages between Childress and Kirkland.

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Scattered thunderstorms developed over the extreme southeastern Texas Panhandle and the northern Rolling Plains of west Texas during the late afternoon hours of the 6th. A few storms became severe and produced large hail up to the size of nickels and damaging thunderstorm winds. Thunderstorm winds in Childress County caused extensive damage to the local utility network and resulted in widespread power outages.

STONEWALL COUNTY --- PEACOCK [33.18, -100.40]

06/07/09 18:55 CST			5K	Hail (2.50 in)
06/07/09 18:55 CST			0	Source: Public

A Peacock resident measured giant hail stones two and a half inches in diameter shortly before 19:00 CST. Given the rural nature of the area, damages were limited.

KING COUNTY --- 19.0 ESE GUTHRIE [33.51, -100.03]

06/07/09 19:20 CST			0	Hail (1.00 in)
06/07/09 19:25 CST			0	Source: Public

Quarter size hail was reported along Farm to Market Road 222 south of U.S. Highway 82.

An anticyclonic (left-moving) supercell thunderstorm was shed from convection over the Permian Basin and raced north-northeastward over the southern Rolling Plains of west Texas at nearly 50 mph. This storm produced giant hail as it impacted areas near Peacock (Stonewall County).

KENT COUNTY --- 1.0 N JAYTON [33.26, -100.58]

06/08/09 16:37 CST			0	Hail (1.00 in)
06/08/09 16:37 CST			0	Source: Public

The public reported quarter size hail just north of Jayton.

Scattered thunderstorms developed during the late afternoon hours of the 8th over the southern Rolling Plains of west Texas. At least one isolated storm became severe and produced large hail up to the size of quarters near Jayton (Kent County).

YOAKUM COUNTY --- 3.0 N PLAINS [33.22, -102.83], 14.8 ENE PLAINS YOAKUM CO ARP [33.31, -102.61]

06/10/09 07:15 CST			0	Hail (1.00 in)
06/10/09 07:42 CST			0	Source: Public

Multiple reports of quarter size hail were received along a swath from just north of Plains to Farm to Market Road 1780 in extreme northeastern Yoakum County.

LUBBOCK COUNTY --- 12.0 SW LUBBOCK [33.46, -102.00], 5.0 SE LUBBOCK [33.53, -101.79]

06/10/09 08:17 CST			0	Hail (1.00 in)
06/10/09 08:39 CST			0	Source: Law Enforcement

Several reports of large hail were received from areas of southern Lubbock County as thunderstorms increased in coverage during the mid morning hours of the 10th. Law enforcement officials initially reported dime to quarter size hail along County Road 1600 between Alcove and Upland Avenues at 08:17 CST. Trained storm spotters additionally reported penny size hail near the intersection of South Loop 289 and U.S. Highway 84.

LAMB COUNTY --- 4.0 S LITTLEFIELD [33.86, -102.32], 5.0 S LITTLEFIELD [33.85, -102.32]

06/10/09 08:25 CST			0	Hail (0.88 in)
06/10/09 08:37 CST			0	Source: Public

The public reported penny to nickel size hail along a stretch of U.S. Highway 385 south of Littlefield.

HALE COUNTY --- PLAINVIEW [34.20, -101.70]

06/10/09 08:30 CST			1K	Lightning
06/10/09 08:30 CST			0	Source: Newspaper

Local newspaper accounts reported that lightning struck a tree at a residence at the 700 block of Independence Street in Plainview during a thunderstorm that impacted the area on the morning of the 10th. The lightning strike severely damaged the tree and caused pieces of tree bark to fly into and shatter several windows. Event time is estimated, and no injuries were reported.

CROSBY COUNTY --- 1.0 SE RALLS [33.67, -101.37]

06/10/09 08:50 CST			0	Thunderstorm Wind (MG 58 kt)
06/10/09 08:50 CST			0	Source: Mesonet

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The Texas Tech University West Texas Mesonet site near Ralls recorded a thunderstorm wind gust of 67 mph at 08:50 CST. No damage was reported.

LAMB COUNTY --- 6.0 S OLTON [34.09, -102.13]

	06/10/09 09:00 CST	0	Thunderstorm Wind (MG 56 kt)
	06/10/09 09:00 CST	0	Source: Mesonet

The Texas Tech University West Texas Mesonet site near Olton measured a 65 mph thunderstorm wind gust at 09:00 CST. No damage was reported.

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

	06/10/09 13:03 CST	0	Hail (0.88 in)
	06/10/09 13:03 CST	0	Source: Law Enforcement

Local law enforcement officials reported nickel size hail in Jayton.

Scattered thunderstorms erupted during the mid morning hours of the 10th over the plains of eastern New Mexico, southwest Texas, and the western South Plains and Permian Basin. This activity developed as a strong upper air storm system ejected eastward from the Desert Southwest.

The morning convection produced large hail up to the size of quarters and severe wind gusts as it overspread the western and central South Plains. Thunderstorm activity then pushed eastward during the day and at least one additional storm became severe with large hail near Jayton (Kent County). The only report of damaging weather occurred in Hale County where a lightning strike damaged a tree and broke windows at a residence in Plainview.

LUBBOCK COUNTY --- 1.9 SSW DOUD [33.54, -101.94], 1.2 SE DOUD [33.56, -101.91]

	06/13/09 14:20 CST	0	Hail (1.00 in)
	06/13/09 14:25 CST	0	Source: Broadcast Media

The broadcast media and trained storm spotters reported penny to quarter size hail in west Lubbock.

MOTLEY COUNTY --- ROARING SPGS [33.90, -100.85]

	06/13/09 15:03 CST	0	Hail (1.75 in)
	06/13/09 15:03 CST	0	Source: Fire Department/Rescue

The Matador Fire Department reported golfball size hail in Roaring Springs. No damage was reported.

BRISCOE COUNTY --- QUITAQUE [34.37, -101.05]

	06/13/09 15:05 CST	0.10M	Hail (4.00 in)
	06/13/09 15:18 CST	0	Source: Fire Department/Rescue

The public and local fire department officials reported that predominately golfball size hail was mixed with intermittent hail stones as large as softballs in Quitaque. The hail reportedly combined with damaging thunderstorm winds to knock out "many" windows in Quitaque. Combined damages from wind and hail were estimated to approach \$200,000. No injuries were reported.

BRISCOE COUNTY --- QUITAQUE [34.37, -101.05], 5.0 NNW QUITAQUE [34.44, -101.08]

	06/13/09 15:05 CST	50K	Hail (1.75 in)
	06/13/09 15:20 CST	0	Source: Law Enforcement

Numerous reports of large hail were received from the Quitaque and Caprock Canyons State Park areas of Briscoe County shortly after 15:00 CST. Initial reports indicated that golfball size hail, and occasionally larger hail stones, combined with damaging thunderstorm winds to knock out "many" windows in Quitaque. Combined damages from wind and hail were estimated to approach \$200,000. No injuries were reported.

BRISCOE COUNTY --- QUITAQUE [34.37, -101.05]

	06/13/09 15:10 CST	50K	Thunderstorm Wind (EG 52 kt)
	06/13/09 15:18 CST	0	Source: Fire Department/Rescue

Numerous reports of wind-blown hail were received from the Quitaque vicinity. Thunderstorm wind gusts estimated near 60 mph blew golfball to softball size hail through "many" windows in the town. Combined damages from wind and hail were estimated to approach \$200,000. No injuries were reported.

BRISCOE COUNTY --- 5.0 NNW QUITAQUE [34.44, -101.08]

	06/13/09 15:20 CST	0	Hail (2.50 in)
	06/13/09 15:20 CST	0	Source: Broadcast Media

The broadcast media relayed reports of tennis ball size hail in Caprock Canyons State Park. No damage was reported.

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KING COUNTY --- 11.0 W GUTHRIE [33.62, -100.52]				
	06/13/09 15:51 CST		0	Hail (1.00 in)
	06/13/09 15:51 CST		0	Source: COOP Observer
A National Weather Service cooperative observer reported quarter size hail along U.S. Highway 82 west of Guthrie.				
KING COUNTY --- 10.0 WSW GUTHRIE [33.56, -100.49]				
	06/13/09 16:05 CST		0	Thunderstorm Wind (MG 50 kt)
	06/13/09 16:05 CST		0	Source: Mesonet
The Texas Tech University West Texas Mesonet site southwest of Guthrie recorded a thunderstorm wind gust of 58 mph. No damage was reported.				
SWISHER COUNTY --- 6.0 W TULIA [34.53, -101.88], VIGO PARK [34.65, -101.48]				
	06/13/09 16:10 CST		50K	Hail (1.75 in)
	06/13/09 16:37 CST		0	Source: SHAVE Project
Multiple reports of large hail were received from near Tulia to Vigo Park. Reports indicated that quarter to golfball size hail damaged several vehicles in Tulia between 16:10 CST and 16:25 CST. By 16:37 CST penny size hail was reported in Vigo Park.				
KENT COUNTY --- 0.9 NNE JAYTON [33.26, -100.57], 1.0 SSE JAYTON [33.24, -100.57]				
	06/13/09 16:50 CST		50K	Thunderstorm Wind (MG 56 kt)
	06/13/09 17:15 CST		0	Source: Mesonet
The Texas Tech University West Texas Mesonet site near Jayton initially recorded a thunderstorm wind gust of 64 mph at 16:50 CST. By 17:15 CST, a 58 mph gust was additionally recorded by the same mesonet site. Local law enforcement officials reported that several utility lines and poles were blown down in the Jayton vicinity. Authorities reported that a number of residents were without power throughout much of the night.				
STONEWALL COUNTY --- 8.0 NNW ASPERMONT [33.26, -100.28], 3.7 ESE ASPERMONT [33.13, -100.17]				
	06/13/09 17:20 CST		0.25M	Thunderstorm Wind (MG 66 kt)
	06/13/09 17:55 CST	1	0	Source: Mesonet
A massive high precipitation supercell storm tracked southeastward over Stonewall County during the 17:00 CST hour on the 13th. The storm produced a large swath of damaging winds as it impacted areas near Aspermont. A Texas Tech University West Texas Mesonet site northeast of the city sustained a direct hit from a weak tornado which was embedded within the parent mesocyclone.				
Skywarn storm spotters and storm chasers initially reported thunderstorm winds estimated between 70 mph and 80 mph along U.S. Highway 83 north of Aspermont at 17:22 CST. At approximately the same time, the onset of severe 60 mph gusts occurred at the Aspermont mesonet station. Severe gusts persisted for thirty minutes at the mesonet site, and local law enforcement officials reported that a tractor-trailer was blown over near the intersection of U.S. Highways 83 and 380 northeast of Aspermont at 17:34 CST. The driver of the truck was treated for minor injuries and released. The passage of a tornado at the site was well-corroborated by detailed pressure analyses, storm chaser accounts, and post-storm surveys at 17:30 CST. Although the highest wind speeds measured by the mesonet station during the event were tornadic in nature, a peak non-tornadic wind gust of 76 mph was recorded at 17:45 CST, ten minutes after the tornado had passed.				
A post-storm survey by Texas Tech University West Texas Mesonet meteorologists revealed that utility poles were snapped along a three mile swath northeast of Aspermont. Minor damages to light weight structures and trailers was additionally common, along with wind damage to native mesquite trees and one center irrigation pivot system was destroyed. The most significant structural damage occurred three miles east of Aspermont just south of U.S. Highway 380, where a the roof was blown off of a well-constructed farm house and a large horse bard was substantially damaged. This damage was deemed to have most likely resulted from outflow winds given that all debris from the structures was blown downwind toward the southeast.				
STONEWALL COUNTY --- 2.5 N ASPERMONT [33.19, -100.23], 2.6 ESE ASPERMONT [33.14, -100.19]				
	06/13/09 17:25 CST		0.10M	Tornado (EF1, L: 4.00 mi , W: 200 yd)
	06/13/09 17:35 CST		0	Source: Mesonet

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A tornado tracked southeast through rural areas near Aspermont between 17:25 CST and 17:35 CST. This tornado was obscured by precipitation and blowing dust within a massive high precipitation supercell. Although storm chasers observed suspicious storm features and small debris fallout that led them to believe a tornado was lurking within the "bear's cage", visual observations of the tornado were virtually non-existent. The tornado, however, struck a Texas Tech University West Texas Mesonet site three miles northeast of Aspermont at 17:30 CST. Both meteorological data from the mesonet and a post-storm survey confirmed the occurrence of this tornado.

The tornado developed near the intersection of Farm to Market Roads 3431 and 1263 two and a half miles north of Aspermont. Texas Department of Transportation signs were blown in multiple directions near the intersection, and a 200 yard path in broken utility poles displayed distinctly different fall patterns than the many additional downed poles along the broader swath of ambient thunderstorm winds.

Two homes along Farm to Market Road 3431 were damaged east of the intersection. The most significant damage included a partially removed roof and the destruction of two barns. Multiple stock trailers were rolled, with one apparently displaced some distance and unaccounted for. A resident witnessed the event and described strong northwesterly winds, then a period of relatively light winds. During the calm, three white funnels were seen approaching the property; followed by the onset of a loud roar and an intense wind that caused the structure's roof to lift.

The damage path remained visible in native mesquite tree damage and damage to fences and utilities southeastward to the mesonet site located three miles northeast of Aspermont. At 17:30 CST the automated station recorded a peak gust of 100 mph and a corresponding brief surface pressure drop of 32 millibars. A guy wire to the station was broken, but significant operational damage did not occur.

The end of the tornado's path was difficult to discern, but it is believed the tornado dissipated before it reached U.S. Highway 380 east of Aspermont. Although evidence of additional tornadoes was not found in Stonewall County, the supercell cycled again and produced a significant tornado in adjacent parts of Haskell County.

Tornado related damages are estimated at \$100,000, with approximately \$350,000 in total losses attributed to both wind and tornado activity in the Aspermont vicinity on the 13th. No injuries were reported.

SWISHER COUNTY --- 1.0 NE TULIA [34.54, -101.76]

06/13/09 17:30 CST		0	Hail (0.75 in)
06/13/09 17:30 CST		0	Source: NWS Employee

A second severe storm impacted the Tulia area around 17:30 CST. Penny size hail was reported just northeast of the city by an off-duty National Weather Service meteorologist.

BRISCOE COUNTY --- 4.0 SW SILVERTON [34.43, -101.35]

06/13/09 17:32 CST		0	Tornado (EF0, L: 0.01 mi , W: 50 yd)
06/13/09 17:32 CST		0	Source: Storm Chaser

Multiple storm chasers, including off-duty National Weather Service meteorologists, and local law enforcement officials reported witnessing a brief tornado southwest of Silverton shortly after 17:30 CST. The tornado reportedly appeared as a narrow rope condensation funnel which extended more than half way to the surface with a brief dust whirl noted at the ground. The tornado remained in open country and no damage was reported.

BRISCOE COUNTY --- SILVERTON [34.47, -101.30]

06/13/09 17:32 CST		0	Hail (1.75 in)
06/13/09 17:46 CST		0	Source: Law Enforcement

Local law enforcement officials and storm spotters reported golfball size hail in Silverton. Deputies observed a brief tornado southwest of the city near the onset of the hail fall. No significant damages were reported.

HALE COUNTY --- 1.0 WSW SETH WARD [34.21, -101.70]

06/13/09 17:40 CST		0	Thunderstorm Wind (EG 56 kt)
06/13/09 17:40 CST		0	Source: SHAVE Project

Thunderstorm winds blew siding off of a barn just southwest of Seth Ward at 17:40 CST. By 17:45 CST, large hail began to fall at the damage site.

HALE COUNTY --- 1.0 WSW SETH WARD [34.21, -101.70], 6.0 E SETH WARD [34.22, -101.58]

06/13/09 17:40 CST		0	Hail (1.00 in)
06/13/09 18:15 CST		0	Source: SHAVE Project

The National Severe Storms Laboratory SHAVE Project reported quarter size hail, occasionally larger, in the Seth Ward vicinity between 17:45 and 18:15. The hail was preceded by damaging thunderstorm winds immediately southwest of Seth Ward.

HALE COUNTY --- 6.0 E SETH WARD [34.22, -101.58]

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/13/09 17:45 CST		0	Hail (2.00 in)
	06/13/09 17:47 CST		0	Source: SHAVE Project

Two inch diameter hail was reported by the The National Severe Storms Laboratory SHAVE Project east of Seth Ward. These very large hail stones briefly mixed with smaller quarter size hail. No significant damage was reported as a result of the hail.

BRISCOE COUNTY --- 5.5 SE SILVERTON [34.41, -101.23], 6.1 SE SILVERTON [34.41, -101.22]

	06/13/09 17:51 CST		0	Tornado (EF0, L: 0.75 mi , W: 75 yd)
	06/13/09 17:52 CST		0	Source: NWS Employee

The previously tornadic supercell near Silvertton continued to move east and produced a second tornado southeast of the city shortly before 18:00 CST. Storm chasers witnessed the rope-shaped tornado for approximately one minute as it emerged from precipitation. The tornado occurred in open country and no damage was reported.

BRISCOE COUNTY --- 7.0 ESE SILVERTON [34.43, -101.19]

	06/13/09 18:05 CST		0	Thunderstorm Wind (MG 56 kt)
	06/13/09 18:05 CST		0	Source: Mesonet

The Texas Tech University West Texas Mesonet site east of Silvertton recorded a peak thunderstorm gust of 65 mph at 18:05 CST. No damage was reported.

An active round of severe thunderstorm occurred over the west Texas South Plains during the afternoon and evening hours of the 13th. Several storms evolved into supercells, and produced very large hail, destructive winds, and weak tornadoes.

Thunderstorms initiated around 14:00 CST over the central South Plains, and quickly became severe with large hail initially reported in Lubbock (Lubbock County). More intense and organized supercell storms formed over the Rolling Plains by the mid to late afternoon hours, however, and moved southeastward. One particularly organized and long-lived high precipitation supercell impacted the Aspermont vicinity of Stonewall County, where it produced a swath of damaging winds and at least one tornado. A 100 mph wind gust and a corresponding 32 millibar pressure drop was measured when the tornado struck the Texas Tech University West Texas Mesonet site northeast of Aspermont. Although no injuries were reportedly related to the tornado, severe gusts north of Aspermont overturned a tractor trailer truck injuring the driver.

Additional supercells impacted portions of Briscoe and Hale Counties, and very large wind-blown hail caused damages in both counties. Two tornadoes were observed by storm chasers in the Silvertton and Quitaque vicinity of southern Briscoe County.

Total economic damages were estimated near \$650,000 across the South Plains region.

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Baseball size hail reportedly combined with damaging winds to break numerous windows in Quitaque during the afternoon hours of the 13th. Photo courtesy: Laura and Johnny Griffin.

LAMB COUNTY --- EARTH [34.23, -102.40]

06/14/09 15:09 CST	0		Hail (0.88 in)
06/14/09 15:09 CST	0		Source: Public

The public reported nickel size hail in Earth.

FLOYD COUNTY --- 6.0 N FLOYDADA [34.07, -101.33]

06/14/09 15:32 CST	0		Hail (1.00 in)
06/14/09 15:32 CST	0		Source: Law Enforcement

Local law enforcement officials reported quarter size hail along Texas Highway 207 north of Floydada.

BRISCOE COUNTY --- 4.0 W QUITAQUE [34.37, -101.12], 3.0 NE SILVERTON [34.50, -101.26]

06/14/09 15:40 CST	0		Hail (1.75 in)
06/14/09 15:57 CST	0		Source: Public

Scattered thunderstorms produced an intermittent swath of large hail over southern Briscoe County during the afternoon hours of the 14th. At 15:40 CST, quarter size hail was reported near Caprock Canyons State Park. Golfball size hail was additionally reported near Silverton just before 16:00 CST.

HALL COUNTY --- TURKEY [34.40, -100.88]

06/14/09 16:25 CST	0		Hail (0.75 in)
06/14/09 16:25 CST	0		Source: Fire Department/Rescue

Penny size hail was reported in Turkey.

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

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/14/09 16:35 CST		25K	Hail (2.00 in)
	06/14/09 16:35 CST		0	Source: Fire Department/Rescue

Local fire department officials reported two inch diameter hail in Matador at 16:35 CST. Minor damages to vehicles and roofs occurred.

MOTLEY COUNTY --- 0.6 SE MATADOR [34.01, -100.81]

	06/14/09 16:40 CST		25K	Hail (2.50 in)
	06/14/09 16:40 CST		0	Source: NWS Employee

An off-duty National Weather Service employee reported giant two and a half inch diameter hail in Matador. Minor damages to vehicles and roofs occurred.

COTTLE COUNTY --- PADUCAH [34.02, -100.30]

	06/14/09 17:06 CST		0	Hail (0.88 in)
	06/14/09 17:06 CST		0	Source: Fire Department/Rescue

The public reported nickel size hail in Paducah.

TERRY COUNTY --- WELLMAN [33.05, -102.43], 2.5 WNW BROWNFIELD ARPT [33.18, -102.22]

	06/14/09 17:55 CST		0.20M	Thunderstorm Wind (MG 71 kt)
	06/14/09 18:09 CST		0	Source: Mesonet

A cluster of severe storms produced a swath of damaging winds along the U.S. Highway 62/385 corridor from near Wellman to Brownfield around 18:00 CST. Initial reports of damages were received from the Wellman vicinity, where the roof was blown off of an agricultural station shortly before 18:00 CST. As the winds spread northeastward, the Texas Tech University West Texas Mesonet site south of Brownfield measured a peak gust of 82 mph. The roof was partially blown off of a medical clinic in downtown Brownfield, and a large metal storage facility collapsed in the winds just east of the city. No injuries were reported.

COTTLE COUNTY --- PADUCAH [34.02, -100.30]

	06/14/09 18:03 CST		0	Hail (1.00 in)
	06/14/09 18:03 CST		0	Source: Fire Department/Rescue

A second severe storm impacted Paducah shortly after 18:00 CST and produced large hail up to the size of quarters.

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

	06/14/09 18:15 CST		0	Hail (1.75 in)
	06/14/09 18:15 CST		50K	Source: Emergency Manager

The Terry County emergency manager reported golfball size hail in Meadow. Some farmers reported having to replant cotton due to hail damage.

LUBBOCK COUNTY --- 3.0 ENE WOLFFORTH [33.52, -101.97], IDALOU [33.67, -101.68]

	06/14/09 18:21 CST		0.33M	Thunderstorm Wind (MG 57 kt)
	06/14/09 18:35 CST		0	Source: ASOS

Damaging winds raced out ahead of a complex of severe thunderstorms and overspread the Lubbock vicinity during the 18:00 CST hour of the 14th. At times, the winds were accompanied by large hail over the southwestern portions of the city.

Winds estimated near 60 mph reportedly downed fences in a residential area northeast of Wolfforth shortly after 18:20 CST. By 18:35 CST, the Automated Surface Observing System at Lubbock's Preston Smith International Airport recorded a peak gust of 66 mph. Across the city, at least twenty-six utility lines were downed by the winds and tree damage was reportedly widespread. One tree was blown onto a home and caused minor structural damage.

The winds continued to spread northeastward and caused significant damage in the Idalou and Acuff areas around 18:35 CST. Winds, accompanied by large hail, caused extensive damage to at least a dozen homes. Roofs were partially blown off of three homes, and the wind-blown hail shattered numerous windows and shredded siding and skirting on several mobile homes and well-built structures alike. At least two travel trailers and two center pivot irrigation systems were destroyed. Despite the damages, no injuries were reported.

HOCKLEY COUNTY --- 6.0 NW ROPESVILLE [33.48, -102.22]

	06/14/09 18:24 CST		0	Thunderstorm Wind (EG 52 kt)
	06/14/09 18:24 CST		0	Source: Mesonet

A Texas Tech University West Texas Mesonet meteorologist estimated thunderstorm wind gusts up to 60 mph. No damage was reported.

LUBBOCK COUNTY --- 3.0 S WOLFFORTH [33.46, -102.01], 1.1 SSE IDALOU [33.66, -101.67]

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/14/09 18:30 CST		0.30M	Hail (1.75 in)
	06/14/09 18:43 CST		0	Source: NWS Employee

Numerous reports of large hail, including from off-duty National Weather Service employees, were received from areas of southwest Lubbock between 18:30 CST and 18:43 CST. Penny to quarter size hail was initially reported southwest of the city at 18:30 CST. By 18:43 CST, the broadcast media reported golfball size hail near Woodrow. No damage was reported.

New convective development on the north side of thunderstorm cluster produced wind-driven quarter size hail that caused extensive damage to a number of structures in the Idalou vicinity between 18:30 CST and 18:35 CST. The winds and hail combined to result in heavy damages to at least a dozen structures. Numerous windows were shattered and several trailer homes sustained extreme siding and skirting damage. No injuries were reported.

HALL COUNTY --- 4.0 S ESTELLINE [34.49, -100.43]

06/14/09 18:39 CST	0	Hail (1.75 in)
06/14/09 18:39 CST	0	Source: Public

The public reported golfball size hail south of Estelline along Farm to Market Road 658. No damage was reported.

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

06/14/09 20:38 CST	0	Hail (0.88 in)
06/14/09 20:38 CST	0	Source: COOP Observer

A National Weather Service cooperative observer reported nickel size hail and wind gusts estimated near 60 mph at Vigo Park. No damage was reported.

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

06/14/09 20:38 CST	0	Thunderstorm Wind (EG 52 kt)
06/14/09 20:38 CST	0	Source: COOP Observer

A National Weather Service cooperative observer reported wind gusts estimated near 60 mph accompanied by nickel size hail at Vigo Park. No damage was reported.

Another active severe weather episode occurred on the west Texas South Plains during the afternoon and evening hours of the 14th.

Isolated severe storms, including a few supercells, initiated over the extreme southeastern Panhandle and the Rolling Plains during the afternoon hours. These storms produced large hail, including very large two and a half inch stones at Matador (Motley County).

During the late afternoon and early evening hours, high-based multicell storm clusters developed over the plains of southeastern New Mexico, the northwestern Permian Basin, and the southwestern South Plains. These storms produced large hail and damaging winds as they quickly moved northeastward over the western and central South Plains. The most significant impacts occurred along the U.S. Highway 62/82 corridor in Terry and Lubbock Counties. Destructive winds, measured up to 82 mph, and large hail combined to result in several instances of structural damage. At least a dozen homes in the community of Idalou (Lubbock County) sustained extensive damage from wind-blown hail. Total economic losses were estimated at \$700,000, but no injuries were reported.

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A large metal storage facility collapsed in severe thunderstorm winds at a cotton gin east of Brownfield, Texas, during the late afternoon of the 14th. Photo courtesy: National Weather Service - Lubbock, Texas.

MOTLEY COUNTY --- 1.0 S NORTHFIELD [34.27, -100.60]

06/15/09 17:16 CST	0	Hail (1.00 in)
06/15/09 17:16 CST	0	Source: COOP Observer

A National Weather Service cooperative observer reported quarter size hail near Northfield.

DICKENS COUNTY --- 1.0 S SPUR [33.47, -100.85], DICKENS [33.62, -100.83]

06/15/09 17:37 CST	0	Hail (1.75 in)
06/15/09 18:17 CST	0	Source: Law Enforcement

Multiple reports of large hail that ranged in size from pennies to golfballs were received from local law enforcement and fire department officials as a severe storm tracked north-northeastward from near Spur to Dickens. Initial reports indicated that penny and nickel size hail covered the ground in the Spur vicinity between 17:37 CST and 17:42 CST. A few of the hail stones, however, were reportedly as large as golfballs. The hail swath then spread northward along and just east of Texas Highway 70, where nickel size hail was reported in Dickens at 18:17 CST. No damage was reported.

COTTLE COUNTY --- 5.0 WSW PADUCAH [33.99, -100.38]

06/15/09 18:20 CST	0	Hail (1.00 in)
06/15/09 18:20 CST	0	Source: Fire Department/Rescue

The Paducah Fire Department reported quarter size hail along U.S. Highway 62/70 west of Paducah.

KING COUNTY --- GUTHRIE [33.62, -100.33]

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/15/09 19:37 CST		0	Hail (2.00 in)
	06/15/09 19:37 CST		0	Source: Law Enforcement

Law enforcement officials reported that half dollar to golfball size hail covered the ground in Guthrie. A few of the hail stones reportedly were as large as two inches in diameter. No significant damage was reported.

Scattered thunderstorms, including a few storms which exhibited supercell characteristics, impacted the Rolling Plains of west Texas during the late afternoon and evening hours of the 15th. These storms produced large hail as large as golfballs, occasionally larger. Although no reports of significant damage were received, local authorities reported a few giant two inch diameter hail stones in Guthrie (King County).

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

	06/17/09 19:37 CST		0	Hail (0.88 in)
	06/17/09 19:37 CST		0	Source: Law Enforcement

Local law enforcement officials reported nickel size hail in Dimmitt.

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

	06/17/09 20:20 CST		0	Hail (1.75 in)
	06/17/09 20:34 CST		0	Source: Law Enforcement

Quarter size hail was initially reported in Dimmitt at 20:20 CST. The hail persisted as the storm intensified during the next ten to fifteen minutes. By 20:34 CST, local officials reported golfball size hail falling in the city. No damage was reported.

An isolated thunderstorm with weak supercell characteristics initiated near the intersection of multiple outflow boundaries over northern Lamb County during the early evening hours of the 17th. This storm moved northward and produced nickel size hail in Dimmit shortly after 19:30 CST. Additional convective development occurred along the initial storm's southern flank and eventually produced hail up to the size of golfballs in Dimmitt between 20:20 CST and 20:34 CST.

TERRY COUNTY --- 2.0 S BROWNFIELD [33.15, -102.28]

	06/18/09 18:40 CST		0	Thunderstorm Wind (MG 58 kt)
	06/18/09 18:40 CST		0	Source: Mesonet

The Texas Tech University West Texas Mesonet site near Brownfield recorded a thunderstorm wind gust of 67 mph at 18:40 CST. No damage was reported.

(TX-Z029) HALE, (TX-Z030) FLOYD, (TX-Z031) MOTLEY, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z037) DICKENS, (TX-Z040) TERRY, (TX-Z041) LYNN, (TX-Z042) GARZA, (TX-Z043) KENT

	06/18/09 18:45 CST	2	0.10M	Dust Storm
	06/18/09 21:25 CST		5.75M	

HOCKLEY COUNTY --- 4.0 S SMYER [33.52, -102.17]

	06/18/09 19:05 CST		0	Thunderstorm Wind (EG 52 kt)
	06/18/09 19:05 CST		0	Source: Mesonet

A Texas Tech University West Texas Mesonet meteorologist estimated thunderstorm winds in excess of 60 mph along Farm to Market Road 168 south of Smyer. No damage was reported.

LUBBOCK COUNTY --- 6.0 SSW WOLFFORTH [33.42, -102.06], LUBBOCK INTL ARPT [33.67, -101.82]

	06/18/09 19:10 CST		0	Thunderstorm Wind (MG 51 kt)
	06/18/09 19:40 CST		0	Source: Mesonet

The Texas Tech University West Texas Mesonet site near Wolfforth recorded a severe thunderstorm wind gust of 59 mph at 19:10 CST. Outflow winds then spread northeastward over the city of Lubbock, and a subsequent 59 mph gust was recorded by the Automated Surface Observing System at Lubbock's Preston Smith International Airport at 19:40 CST. The winds were accompanied by a blinding haboob dust storm, but no reports of significant damage were received.

LYNN COUNTY --- 3.0 NNE TAHOKA [33.22, -101.76]

	06/18/09 19:15 CST		0	Thunderstorm Wind (MG 50 kt)
	06/18/09 19:15 CST		0	Source: Mesonet

A peak thunderstorm wind gust of 58 mph was recorded by the Texas Tech University West Texas Mesonet site near Tahoka at 19:15 CST. No damage was reported.

Storm Data and Unusual Weather Phenomena - June 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A complex of strong to severe thunderstorms developed over the western South Plains during the late afternoon and early evening of the 18th. A few of these storms became severe and produced locally intense wind gusts up to 67 mph.

The most significant impacts from these storms, however, occurred as an organized and expansive cold pool of outflow winds expanded east-northeastward in advance of the convection over the central South Plains. The large outflow boundary lofted vast amounts of dust from the area's relatively bare cotton fields, and a large haboob dust storm evolved to envelop much of the central South Plains. Reduced visibility, at times less than a few hundred yards, and gusts in excess of 50 mph accompanied the haboob passage. The haboob became well-separated from its parent convection, and was sustained into the 21:00 CST hour east of the Caprock escarpment.

The haboob was likely a contributor to the occurrence of a fatal aircraft mishap in Floyd County. A prominent business owner and a passenger were killed when their Cessna 182 went down in a field fifteen miles east of Floydada near the small community of Dougherty. While an official determination into the cause of the accident is pending via an investigation by the National Transportation Safety Board and the Federal Aviation Administration, the time of the mishap corresponded to the occurrence of a westerly wind-shift and onset of 50+ mph surface winds and significantly reduced visibilities associated with the haboob. Doppler radar observations reveal that the top of the dust-filled outflow likely exceeded 6,500 feet above ground level.

In addition, the vast amounts of wind-driven dust destroyed thousands of acres of young cotton crops. With sensitive cotton plants just beginning to emerge, the "sand blasting" effect of the dust storm caused extensive damage.

Agricultural and property losses that resulted from the haboob dust storm likely approached \$6 million.



A haboob dust storm, seen in this image as it approached southwest Lubbock (Lubbock County) at 19:20 CST, resulted in significant agricultural and public impacts over much of the South Plains during the early evening hours of the 18th. Photo courtesy: Todd Lindley - National Weather Service - Lubbock, Texas.