

## Storm Data and Unusual Weather Phenomena - April 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

04/01/09 00:00 CST			0	Drought
04/30/09 23:59 CST			3M	

The month of April saw an overall improvement in an ongoing severe (D2) long-term drought which commenced over much of the west Texas Rolling Plains in January 2009.

Despite a wet summer and early fall of 2008, precipitation was scarce over the west Texas South Plains region from late October 2008 through the first half of April 2009. Severe (D2) drought developed over the Rolling Plains during late January and persisted through April.

Severe (D2) drought was ongoing over Childress, Cottle, Dickens, Kent, King, and Stonewall Counties at the beginning of April. An increase in the coverage and intensity of rainfall was noted with increased thunderstorm activity over much of west Texas by mid April, however, and widespread heavy rains occurred during a severe weather outbreak on the 16th. The increased precipitation had a major impact in ending drought conditions over most of the Rolling Plains, and by the end of April, severe (D2) drought had receded to include only Kent, King, and Stonewall Counties where long term precipitation totals during the November-December-January-February-March-April time frame remain at only 30% to 40% of climatic averages. The U.S. Drought Monitor, however, indicated an expanding area of intensifying extreme (D3) drought over western north Texas at the end of the month, just east of the Rolling Plains region.

Area grasslands were very dry during early April, and the ambient fire danger was extreme. A series of high wind events contributed to a few episodes of widespread wildfire activity across the Southern Plains during the first week of April. At least four significant wildfires developed over the local area on the 2nd and 4th. These fires destroyed one home and damaged oil field equipment. Increased rainfall and warming overnight temperatures, however, contributed to green-up and a decrease in ambient fire danger by mid April.

Following the failure of winter wheat crops in previous months, agricultural impacts were relatively minimal in April. Conditions precluded the planting of some cool season crops including winter wheat. Local cotton experts remain optimistic that soil moisture profiles remain favorable following the September-early October rains, but suggest that normal springtime rainfalls will be critical to the success of the upcoming season's cotton crops.

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 usage locally being for cotton production.

The total economic impact across the South Plains region in April was estimated at \$3 million, with approximately \$18 million dollars of economic loss occurring locally since the onset of severe (D2) drought conditions in January 2009.

(TX-Z022) CASTRO, (TX-Z024) BRISCOE, (TX-Z025) HALL, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z032) COTTLE, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z039) YOAKUM, (TX-Z040) TERRY, (TX-Z041) LYNN, (TX-Z042) GARZA

04/01/09 22:40 CST			0.17M	High Wind (MAX 58 kt)
04/02/09 10:30 CST			0	

(TX-Z033) COCHRAN

04/02/09 02:15 CST			0	Wildfire
04/02/09 14:00 CST			0	

(TX-Z030) FLOYD

04/02/09 04:00 CST			0	Winter Weather
04/02/09 06:00 CST			0	

A very dynamic upper air storm system dug southward over the plains of eastern New Mexico and then ejected eastward over the South Plains of west Texas during the late hours of the 1st and early morning hours of the 2nd. This system produced a variety of weather hazards over the South Plains, with widespread high winds being the primary impact.

Severe gusts up to 67 mph were measured by the Texas Tech University West Texas Mesonet at many locations across the South Plains, both in advance of a strong cold frontal passage and in the post frontal air. These winds caused minor structural damage to a building in O'Donnell (Lynn County). A tree was blown onto a house in Plainview (Hale County) and caused minor damage to the structure's roof. A 100 foot radio communications tower was destroyed by the winds in Paducah (Cottle County) during the mid-morning hours. The tower fell onto and damaged three vehicles in a parking lot, and also downed utility lines. An estimated 250 homes and businesses lost power as a result of the damages, but no injuries were reported. In addition, the winds downed utility lines

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at an oil well facility in western Cochran County. The downed lines sparked a wind-driven wildfire which consumed between 300 and 500 acres before it was extinguished during the afternoon hours of the 2nd. The fire remained over open country and no damages were reported.

As the upper air storm system passed over the South Plains during the pre-dawn hours of the 2nd, a band of mixed wintry precipitation developed from the extreme southwestern Texas Panhandle eastward over the northeastern South Plains. A mixture of sleet and snow resulted in a localized band of light accumulations, including a measured one inch accumulation at Floydada (Floyd County).

Total damages across the region were estimated at \$135,000.

A list of measured severe wind gusts follows: 67 mph at Plains (Yoakum County), 64 mph at Memphis (Hall County) and White River Lake (Crosby County), 63 mph at Graham (Garza County), 62 mph at Silvertown (Briscoe County), 61 mph at Plainview (Hale County) and west of Sundown (Cochran County), 60 mph at Lubbock (Lubbock County), 59 mph at Dimmitt (Castro County), and 58 mph at Morton (Cochran County).



*High winds downed a 100 foot radio communications tower in Paducah (Cottle County) during the morning hours of the 2nd. The tower fell onto and damaged cars in a parking lot. Photo courtesy: Randy Detwiler - Paducah Fire Department.*

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(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z027) BAILEY, (TX-Z039) YOAKUM	04/04/09 09:35 CST	55K	High Wind (MAX 57 kt)
	04/04/09 16:00 CST	0	

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(TX-Z021) PARMER

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	04/04/09 10:10 CST		15K	Dust Storm
	04/04/09 13:00 CST		0	
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(TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z039) YOAKUM	04/04/09 11:10 CST		55K	Wildfire
	04/04/09 18:00 CST		0	

A potent storm system swept over the U.S. Southern Plains on the 4th and produced damaging westerly winds that contributed to blowing dust and wildfires across west Texas.

While the most significant public impacts occurred over the Texas Panhandle, winds sustained at speeds greater than 40 mph and gusts up to 66 mph were recorded by the Texas Tech University West Texas Mesonet and the KVII-TV Schoolnet over the extreme southwestern Panhandle and the northern South Plains. Local officials reported that these winds caused near-zero visibilities in blowing dust along U.S. Highway 60 in Parmer County, where a few minor vehicular collisions occurred. The structure of a business in downtown Friona (Parmer County) was partially unroofed by the winds, and a downed tree fell onto a car in Dimmitt (Castro County). No injuries were reported.

The strong winds downed a number of utility lines, which combined with abnormally warm temperatures and drought conditions resulted in at least three large wildfires. A 1,000 acre wildfire ignited just after 10:00 CST near Texas Highway 86 on the Castro and Swisher County Line. This fire destroyed a home, but no injuries were reported. A fire estimated to have consumed 400 acres began just east of Claytonville (Swisher County) and spread eastward over the Briscoe County line shortly after 12:30 CST. A third wildfire burned at least 300 acres and damaged oil field equipment in western Yoakum County, when winds downed power lines north of Denver City just after 16:00 CST. The fires resulted in no injuries on the South Plains, but wind and fire-related weather hazards combined to result in an estimated \$125,000 in damages.

A list of measured severe wind gusts follows: 66 mph at Lazbuddie (Parmer County), 65 mph at Dimmitt (Castro County), 65 mph at Friona (Parmer County), 63 mph at Hart (Castro County), and 61 mph at Silverton (Briscoe County).



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*Damaging wind gusts and blinding dust impacted the extreme southwestern Texas Panhandle and the northwestern South Plains of west Texas on the 4th. Winds up to 65 mph damaged a Main Street business in Friona (Parmer County). Photo courtesy: Ron Carr - Friona Star - Friona, Texas.*

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(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z025) HALL, (TX-Z026) CHILDRESS, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z030) FLOYD, (TX-Z031) MOTLEY, (TX-Z032) COTTLE, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z037) DICKENS, (TX-Z039) YOAKUM, (TX-Z041) LYNN, (TX-Z042) GARZA, (TX-Z044) STONEWALL	04/09/09 08:25 CST		0.25M	High Wind (MAX 54 kt)
	04/09/09 14:10 CST		0	

A storm system impacted the Southern Plains on the 9th and produced widespread strong westerly winds and blowing dust over west Texas. Sustained winds up to 44 mph and gusts as high as 62 mph were recorded at a number of Texas Tech University West Texas Mesonet and Automated Surface Observing System sites across the South Plains region.

The winds severely damaged a Texas Forest Service greenhouse near Idalou (Lubbock County) and destroyed a bank awning in Wolfforth (Lubbock County). A number of homes reportedly sustained minor roof damage in the Lubbock vicinity. Property damages were estimated near \$250,000.

The winds additionally combined with the ongoing drought to result in several fire starts across the South Plains, but none of the fire starts evolved into significant wildfires. A devastating wildfire outbreak, however, impacted areas east of the South Plains region.

A list of severe wind gusts measured by area surface observing sites follows: 62 mph at Childress (Childress County), 62 mph at Lubbock (Lubbock County), 61 mph at Turkey (Hall County), 60 mph at Anton (Hockley County), 60 mph at Aspermont (Stonewall County), 59 mph at Amherst (Lamb County), 59 mph at Floydada (Floyd County), 59 mph at O'Donnell (Lynn County), 59 mph at Paducah (Cottle County), 59 mph at Plainview (Hale County), 59 mph at Roaring Springs (Motley County), 58 mph at Hart (Lamb County), and 58 mph at Plains (Yoakum County).

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*A bank teller awning was destroyed by high winds in Wolfforth (Lubbock County) shortly before noon CST on the 9th. Photo courtesy: Karen Michael - FrenshipToday.com*

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**YOAKUM COUNTY --- 10.5 W DENVER CITY [32.97, -103.03], 9.0 WNW DENVER CITY [33.02, -102.99]**

04/11/09 15:40 CST	0	Hail (1.00 in)
04/11/09 15:45 CST	0	Source: Public

Penny size hail reportedly covered the ground at a cotton gin west of Denver City along Texas Highway 83 by 15:40 CST. At 15:45 CST, quarter size hail was reported west-northwest of Denver City.

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**YOAKUM COUNTY --- 8.0 W DENVER CITY [32.97, -102.99]**

04/11/09 15:50 CST	15K	Thunderstorm Wind (EG 56 kt)
04/11/09 15:50 CST	0	Source: Law Enforcement

Local law enforcement officials reported that utility lines were blown down along Texas Highway 83 west of Denver City. The damage occurred near the path of a Doppler radar indicated mesocyclone, but the occurrence of a tornado could not be confirmed.

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**YOAKUM COUNTY --- 7.0 WNW DENVER CITY [33.01, -102.96]**

04/11/09 16:35 CST	0	Thunderstorm Wind (MG 52 kt)
04/11/09 16:35 CST	0	Source: Mesonet

A linear multicell thunderstorm complex impacted Yoakum County in the wake of an earlier supercell storm. This second round of thunderstorms produced a severe wind gust of 60 mph that was recorded by the Texas Tech University West Texas Mesonet west-northwest of Denver City. No damage was reported.

**A significant severe weather episode impacted portions of southeastern New Mexico and the west Texas Permian Basin during the late**

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afternoon and evening hours of the 11th. The storms developed east of a dryline and south of a warm front which advanced northward over the South Plains region. Thus cool stable air north of the frontal boundary precluded widespread severe weather over much of the South Plains, but a few thunderstorms, including a supercell storm, impacted the far southwestern portions of the South Plains region. While Doppler radar indicated the potential for a tornado with this storm over southern Yoakum County, no tornado was confirmed. Large hail and damaging thunderstorm winds, however, were observed.

**CHILDRESS COUNTY --- 4.0 NW CHILDRESS [34.46, -100.25]**

04/12/09 14:54 CST		0		Hail (0.88 in)
04/12/09 14:54 CST		0		Source: Law Enforcement

Local law enforcement officials reported nickel size hail along U.S. Highway 287 just northwest of Childress.

Scattered thunderstorms developed over the extreme southeastern Texas Panhandle and the northern South Plains during the afternoon hours of the 12th as a middle atmospheric storm system moved over the area. At least one thunderstorm became severe and produced hail up to the size of nickels northwest of Childress.

**SWISHER COUNTY --- KRESS [34.37, -101.75], TULIA [34.53, -101.77], 2.8 WSW TULIA ARPT [34.54, -101.83], 3.0 W KRESS [34.38, -101.80]**

04/16/09 12:50 CST		0.50M		Flood (due to Heavy Rain)
04/16/09 23:20 CST		0		Source: Newspaper

Thunderstorms began to impact portions of Swisher County just before 13:00 CST on the 16th. These storms quickly became severe and displayed occasional supercellular characteristics as they effectively trained over the Interstate 27 corridor.

A combination of heavy rainfall and accumulating hail resulted in a prolonged closure of Interstate 27 during the afternoon and overnight hours of the 16th and into the morning of the 17th. The most significant impacts occurred between Kress and Tulia. Up to 50 vehicles became stranded on the interstate as high water and hail covered the driving surface. Some motorists were rescued from their stalled automobiles with the use of boats and fire engines. Up to 5.27 inches of rainfall was measured by the Texas Tech University West Texas Mesonet site near Tulia, and 5.90 inches was measured by the Tulia National Weather Service cooperative observer. Ponded water receded sufficiently from the highway by 07:00 CST on the 17th, and the interstate was re-opened. No serious injuries were reported, but combined damages from hail and floods were estimated near \$1 million.

**SWISHER COUNTY --- 1.0 SW KRESS [34.36, -101.76], 5.0 S TULIA [34.46, -101.77]**

04/16/09 13:00 CST		0.50M		Hail (1.25 in)
04/16/09 14:30 CST		0		Source: Trained Spotter

A supercell thunderstorm which developed over portions of northern Hale and southern Swisher Counties evolved into a small convective complex which effectively trained over Interstate 27. As a result, vast amounts of large hail and very heavy rainfall resulted in dangerous travel conditions.

Hail up to the size of half dollars accumulated to depths greater than half a foot in places along Interstate 27 between Kress and Tulia. The hail combined with nearly six inches of rainfall produced significant flooding. A local law enforcement official was quoted as saying that "it was just like an ice jam...it looked like North Dakota", referring to recent national headlines concerning historic ice jam flooding in that state. Newspaper reports indicate that more than 50 vehicles were stranded by hail and high water. Several motorists were rescued from stalled vehicles by boat and fire engines. As a result, local officials were forced to close portions of Interstate 27 until hail and flood waters receded sufficiently around 07:00 CST on the 17th. Combined damages from hail and flood were estimated near \$1 million.

**LAMB COUNTY --- AMHERST [34.02, -102.42]**

04/16/09 14:35 CST		0		Hail (1.00 in)
04/16/09 14:35 CST		0		Source: Public

The public reported quarter size hail from a severe thunderstorm in Amherst.

**LYNN COUNTY --- WILSON [33.32, -101.73]**

04/16/09 14:35 CST		0		Hail (0.88 in)
04/16/09 14:35 CST		0		Source: Storm Chaser

A severe storm developed over northern Lynn County and produced large hail at Wilson. At 14:57 CST, storm chasers traveling through Wilson reported that nickel size hail remained on the ground in the storm's wake, nearly a half hour after the storm impacted the area.

**SWISHER COUNTY --- 2.5 N KRESS [34.41, -101.75], 3.7 S EUNICE [34.43, -101.75]**

04/16/09 14:44 CST		0		Tornado (EF0, L: 1.00 mi , W: 75 yd)
04/16/09 14:45 CST		0		Source: Storm Chaser

Storm chasers witnessed a tornado north of Kress at 14:45 CST. The brief tornado remained in open fields just east of Interstate 27, near the intersection of County Roads Z and 16. Local officials reported that the tornado caused no damage.

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<b>LUBBOCK COUNTY --- 2.6 ENE BROADVIEW [33.66, -101.91], 0.7 NW NEW DEAL [33.74, -101.84]</b>				
	04/16/09 14:45 CST		0	Hail (1.00 in)
	04/16/09 14:55 CST		0	Source: Public
A severe thunderstorm produced large hail over the northern portions of Lubbock shortly before 15:00 CST. Initial reports indicated that penny size hail fell over University Avenue, about four miles north of Loop 289. By 14:55 CST quarter size hail was reported in New Deal.				
<b>CASTRO COUNTY --- HART [34.38, -102.12]</b>				
	04/16/09 15:14 CST		0	Hail (0.88 in)
	04/16/09 15:19 CST		0	Source: Newspaper
Newspaper reports indicate that nickel size hail fell in Hart for five minutes around 21:15 CST.				
<b>LUBBOCK COUNTY --- 1.8 W SLIDE [33.42, -101.93], 3.3 SSW IDALOU [33.63, -101.71]</b>				
	04/16/09 15:17 CST		5M	Hail (1.75 in)
	04/16/09 16:50 CST		0	Source: Trained Spotter
A supercell thunderstorm developed over extreme southwestern Lubbock County and tracked east-northeastward. This storm produced a destructive hail swath over the southern portions of Lubbock during the 15:00 and 16:00 CST hours of the 16th.				
Large hail up the size of nickels was initially reported at 15:17 CST near the intersection of Slide Road and Woodrow Road south-southwest of the city. The storm intensified as it tracked over south Lubbock and hail up to the size of golfballs (occasionally larger) covered the ground along a large swath spanning from the southwestern subdivisions of the city northeastward to Ransom Canyon and Roosevelt.				
Hail up to the size of golfballs reportedly damaged roofs on up to 800 homes and several automobiles along the storm's track. Hail damages city-wide, however, are estimated near \$40 million. Most of the damages occurred across several affluent southwest Lubbock subdivisions where giant hail stones larger than two inches in diameter were observed, and three injuries occurred.				
<b>LUBBOCK COUNTY --- 4.8 S DOUD [33.50, -101.93]</b>				
	04/16/09 15:39 CST		15M	Hail (2.00 in)
	04/16/09 15:39 CST		0	Source: Public
Multiple reports were received of two inch diameter hail in the Meadow South subdivision and adjacent areas of southwest Lubbock between Frankford Avenue and Slide Road shortly before 15:40 CST. Damage to roofs, skylights, and vehicles was widespread in this section of the city. More than 1,200 homes and approximately 500 vehicles were damaged in the mentioned subdivisions, with an estimated \$15 million in economic loss.				
Hail damage across the city of Lubbock is estimated to total \$40 million and resulted in three injuries.				
<b>LUBBOCK COUNTY --- 4.5 SSE DOUD [33.51, -101.91]</b>				
	04/16/09 15:40 CST		20M	Hail (2.50 in)
	04/16/09 15:40 CST	3	0	Source: Public
Giant two and a half inch hail stones fell over the South Haven, Sun Ridge, and Lake Ridge subdivisions of southwest Lubbock between Slide Road and Quaker Avenue around 15:40 CST. The hailstones damaged roofs and skylights on over a 1,000 homes in the mentioned subdivisions, and three persons sought medical treatment at local hospitals for minor injuries related to the hail. Hail stones also reportedly killed a number of birds. Well over 600 vehicles were damaged in these subdivisions and adjacent areas of the city. Damages in the mentioned subdivisions were estimated at \$20 million, with hail damage across the city of Lubbock estimated to total \$40 million.				
<b>HALE COUNTY --- EDMONSON [34.28, -101.90], 3.0 NW EDMONSON [34.31, -101.94]</b>				
	04/16/09 16:00 CST		0	Hail (0.75 in)
	04/16/09 16:35 CST		0	Source: Newspaper
Local newspaper reports indicate that large hail covered the ground in Edmonson, and that a combination of accumulating hail and heavy rainfall caused water to pond over Texas Highway 194 northwest of the town. No damage was reported.				
<b>LUBBOCK COUNTY --- 3.4 N ACUFF [33.65, -101.61], 4.3 E IDALOU [33.67, -101.61]</b>				
	04/16/09 16:02 CST		0	Tornado (EF0, L: 1.75 mi , W: 50 yd)
	04/16/09 16:07 CST		0	Source: Storm Chaser

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<p>A second supercell thunderstorm was ongoing over eastern Lubbock County at the same time that another supercell to the southwest was producing destructive hail over the city of Lubbock. The supercell storm in eastern Lubbock County became more organized with respect to low-level rotation per Doppler radar velocity observations, and produced at least two tornadoes near U.S. Highway 82 between Idalou and Lorenzo around 16:00 CST. These tornadoes were documented by storm chasers.</p> <p>The first tornado developed south of U.S. Highway 82 approximately four miles east-southeast of Idalou, and moved northeastward nearly two miles. The tornado, which appeared as a classic funnel with a dust-tube debris cloud, remained in open fields east of Ranch Road 789 and south of U.S. Highway 82 and resulted in no damage.</p>				
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<b>LUBBOCK COUNTY --- 4.1 E IDALOU [33.66, -101.61], 3.7 ENE IDALOU [33.69, -101.62]</b>				
	04/16/09 16:03 CST		1K	Tornado (EF0, L: 2.15 mi , W: 100 yd)
	04/16/09 16:14 CST		0	Source: Storm Chaser

The next tornado associated with the eastern Lubbock County supercell developed immediately south of U.S. Highway 82 and quickly crossed the highway about four miles east of Idalou. This tornado, filmed by veteran storm chasers, was briefly ongoing simultaneously to the first tornado. A business sustained minor damage when tin panels were raised on the structures roof as the tornado crossed U.S. Highway 82. The tornado then continued north-northwestward as the parent mesocyclone occluded, intermittently touching down and at times taking on a multi-vortex structure. No significant damage was found by local officials or during a post-storm National Weather Service survey.

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<b>LUBBOCK COUNTY --- 3.5 ENE LUBBOCK [33.60, -101.80]</b>				
	04/16/09 16:15 CST		15K	Heavy Rain
	04/16/09 17:30 CST		0	Source: Trained Spotter

Skywarn storm spotters reported that a combination of accumulating hail and heavy rainfall resulted in ponding water over the intersection of north Loop 289 and U.S. Highway 62/82 in northeast Lubbock. Additional newspaper and law enforcement reports indicate that three motorists were assisted when their vehicles became stranded in high water over Lubbock city streets, and an additional car was reportedly "submerged" in Idalou. Urban street flooding additionally prompted Texas Tech University to cancel evening classes, and minor water damage occurred to a business.

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<b>GARZA COUNTY --- POST [33.18, -101.38]</b>				
	04/16/09 16:18 CST		50K	Hail (1.00 in)
	04/16/09 16:20 CST		0	Source: Law Enforcement

Local law enforcement and fire fighting officials reported that nickel to quarter size hail covered the ground in Post. The accumulating hail combined with heavy rainfall to result in minor flooding of several city streets. A post-storm survey by the National Weather Service revealed minor damage to a number of roofs in Post, and large swaths of de-leafed mesquite trees near the city.

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<b>GARZA COUNTY --- POST [33.18, -101.38]</b>				
	04/16/09 16:20 CST		0	Heavy Rain
	04/16/09 17:00 CST		0	Source: Fire Department/Rescue

A combination of heavy rainfall and accumulating hail resulted in minor flooding of several city streets in Post. No road closures or damages were reported.

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<b>HALE COUNTY --- EDMONSON [34.28, -101.90], 3.0 NW EDMONSON [34.31, -101.94]</b>				
	04/16/09 16:35 CST		0	Heavy Rain
	04/16/09 17:30 CST		0	Source: Newspaper

Local newspaper reports indicate that a combination of accumulating hail and heavy rainfall resulted in water covering portions of Texas Highway 194 northwest of Edmonson. No damage was reported.

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<b>FLOYD COUNTY --- 8.0 SW FLOYDADA [33.90, -101.43], 2.0 W FLOYDADA [33.98, -101.36]</b>				
	04/16/09 17:02 CST		0	Hail (1.00 in)
	04/16/09 17:15 CST		0	Source: Fire Department/Rescue

Local fire and law enforcement officials reported that dime to quarter size hail covered the ground along a swath southwest and west of Floydada.

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<b>GARZA COUNTY --- JUSTICEBURG [33.03, -101.20], 10.0 NE JUSTICEBURG [33.13, -101.08]</b>				
	04/16/09 17:05 CST		20K	Hail (1.50 in)
	04/16/09 17:45 CST		0	Source: NWS Storm Survey



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An intense supercell thunderstorm impacted areas from near Justiceburg northeastward to the Lake Alan Henry vicinity. Large, and occasionally giant hail was reported along its track.

Residents interviewed during a post-storm National Weather Service survey described a swath of ping pong ball (and occasionally larger) hail that impacted areas from Justiceburg to north of Lake Alan Henry. The hail caused minor roof damage to a few homes, however, much larger hail stones caused more extensive damage east and northeast of Justiceburg near Lake Alan Henry.

**GARZA COUNTY --- 3.0 E JUSTICEBURG [33.03, -101.15]**

04/16/09 17:15 CST			25K	Hail (2.50 in)
04/16/09 17:15 CST			0	Source: NWS Storm Survey

The owners of a general store located between Justiceburg and Lake Alan Henry along Farm to Market Road 3519 reported tennis ball size hail as an intense supercell storm impacted the area between 17:00 and 17:30 CST. The hail damaged air conditioning units on the store's roof and caused damage to vehicles.

**CROSBY COUNTY --- LORENZO [33.67, -101.53]**

04/16/09 17:18 CST			0	Hail (1.75 in)
04/16/09 17:18 CST			0	Source: Trained Spotter

Skywarn storm spotters reported that golfball size hail covered the ground in Lorenzo.

**GARZA COUNTY --- 10.0 S POST [33.04, -101.38]**

04/16/09 17:20 CST			0	Hail (1.50 in)
04/16/09 17:30 CST			0	Source: Public

Ping pong ball size hail reportedly covered the ground along Texas Farm to Market Road 659 south of Post. This as the third in a series of severe storms impacted portions of Garza County.

**GARZA COUNTY --- 9.0 ENE JUSTICEBURG [33.08, -101.06]**

04/16/09 17:30 CST			30K	Hail (3.50 in)
04/16/09 17:30 CST			0	Source: NWS Storm Survey

Operators at the Lake Alan Henry Marina reported giant hail near "Turkey Ridge" at the intersection of Farm to Market Roads 3519 and 2458. Hail up to the size of softballs damaged a number of roofs and vehicles in the area. No injuries were reported.

**CROSBY COUNTY --- 2.0 SW RALLS [33.66, -101.40], 1.5 SW RALLS [33.66, -101.40]**

04/16/09 17:45 CST			0	Tornado (EF0, L: 0.50 mi , W: 200 yd)
04/16/09 17:46 CST			0	Source: Storm Chaser

The supercell thunderstorm that produced a destructive swath of damaging hail over Lubbock (Lubbock County) produced a brief tornado near Ralls as it tracked northeastward over northern Crosby County.

A number of veteran storm chasers observed a brief tornado just southwest of Ralls at 17:45 CST. The tornado appeared as a broad multiple-vortex spin-up of dust, but resulted in no damage as it remained in open fields.

**GARZA COUNTY --- 19.5 E POST [33.18, -101.04]**

04/16/09 17:50 CST			0	Hail (1.75 in)
04/16/09 17:50 CST			0	Source: NWS Storm Survey

Local ranch workers interviewed during a post-storm National Weather Service survey reported that golfball size hail fell along U.S. Highway 380 on the Garza and Kent County line shortly before 18:00 CST. Large swaths of de-leaved mesquite trees marked the path of the large hail in the area. No property damage was reported. The parent storm was the same supercell thunderstorm that earlier produced giant hail near Justiceburg and Lake Alan Henry.

**KENT COUNTY --- 16.5 W CLAIREMONT [33.17, -101.04], 11.5 NW CLAIREMONT [33.29, -100.89]**

04/16/09 17:50 CST			0	Hail (1.75 in)
04/16/09 18:25 CST			0	Source: NWS Storm Survey

Local ranchers interviewed during a post-storm National Weather Service survey reported that a swath of golfball size hail fell from the Garza and Kent County line along U.S. Highway 380 to near the intersection of Farm to Market Roads 1081 and 2320. Large swaths of de-leaved mesquite trees were evident within the reported hail swath, but no property damage was reported. The parent storm was the same supercell thunderstorm that earlier produced giant hail near Justiceburg and Lake Alan Henry in Garza County.

**GARZA COUNTY --- 4.0 W POST [33.18, -101.45], 4.0 NW POST [33.22, -101.43]**

## Storm Data and Unusual Weather Phenomena - April 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	04/16/09 18:08 CST		0	Hail (1.75 in)
	04/16/09 18:18 CST		0	Source: Law Enforcement
<p>Another severe thunderstorm produced a swath of large hail that ranged between the size of nickels and golfballs west of Post, and impacted portions of U.S. Highway 84 northwest of that city shortly after 18:00 CST. This storm was an anticyclonic "left-moving" supercell.</p>				
<b>GARZA COUNTY --- 2.0 WSW JUSTICEBURG [33.02, -101.23], 1.5 W JUSTICEBURG [33.03, -101.23]</b>				
	04/16/09 18:20 CST		1K	Tornado (EF0, L: 0.75 mi , W: 50 yd)
	04/16/09 18:21 CST		0	Source: Storm Chaser
<p>Yet another intense supercell storm moved northeastward over southeastern Garza County during the 18:00 CST hour.</p> <p>Mutliple storm chasers and the public observed a deeply occluded mesocyclone with a well-developed funnel-shaped lowering southwest of Justiceburg. A veteran storm chaser near the storm observed intermittent wisps of condensation at the ground at 18:20 CST. The brief tornado lasted approximately one minute and remained over open country. Shingles were reportedly blown off of a home in the area, but no other damages were reported.</p>				
<b>LUBBOCK COUNTY --- 9.0 S IDALOU [33.54, -101.68], IDALOU [33.67, -101.68]</b>				
	04/16/09 19:05 CST		0	Hail (1.25 in)
	04/16/09 19:06 CST		0	Source: Trained Spotter
<p>Law enforcement officials and Skywarn storm spotters reported large hail that ranged in size from quarters to half dollars along a swath from Ransom Canyon to Idalou as a cluster of severe thunderstorms impacted northeastern Lubbock County.</p>				
<b>HOCKLEY COUNTY --- ANTON [33.82, -102.17]</b>				
	04/16/09 19:10 CST		0	Hail (0.88 in)
	04/16/09 19:10 CST		0	Source: County Official
<p>An Anton city employee reported that penny to nickel size hail briefly fell in Anton shortly after 19:00 CST.</p>				
<b>KENT COUNTY --- 16.0 W CLAIREMONT [33.17, -101.03], 10.8 N POLAR [33.17, -101.02]</b>				
	04/16/09 19:15 CST		0	Tornado (EF0, L: 0.50 mi , W: 50 yd)
	04/16/09 19:16 CST		0	Source: NWS Storm Survey
<p>The previously tornadic supercell that impacted Justiceburg (southeastern Garza County) continued to move northeastward into western Kent County. A local rancher interviewed during a post-storm National Weather Service survey witnessed a brief tornado in open ranch land. The tornado occurred immediately south of U.S. Highway 380 and just east of the Garza and Kent County line. No damage was reported, but the rancher reported hearing a loud roar as the tornado passed.</p>				
<b>HALE COUNTY --- PETERSBURG [33.87, -101.60]</b>				
	04/16/09 19:29 CST		0	Hail (1.00 in)
	04/16/09 19:29 CST		0	Source: Fire Department/Rescue
<p>Quarter size hail was reported in Petersburg by local fire department officials as a cluster of severe storms impacted far southeastern Hale County and parts of northeastern Lubbock County.</p>				
<b>KENT COUNTY --- 12.0 NW CLAIREMONT [33.29, -100.90]</b>				
	04/16/09 19:56 CST		0	Hail (1.75 in)
	04/16/09 19:56 CST		0	Source: Trained Spotter
<p>Skywarn storm spotters reported golfball size hail along Texas Farm to Market Road 1081 northwest of Clairemont.</p>				
<b>LUBBOCK COUNTY --- 5.3 NW SHALLOWATER ARPT [33.73, -102.07], 8.2 WNW CALDWELL [33.82, -102.05]</b>				
	04/16/09 19:56 CST		80K	Tornado (EF1, L: 6.32 mi , W: 125 yd)
	04/16/09 20:16 CST		0	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - April 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>A relatively long-lived, but weak (EF-1), tornado developed rapidly within a convective complex over northwestern Lubbock County shortly before 20:00 CST and tracked north-northeastward into southwestern Hale County.</p> <p>The tornadic circulation was initially embedded within heavy rain, but was well sampled at close range by the Lubbock, Texas (KLBB) WSR-88D radar. The tornado developed just south of U.S. Highway 84 at 19:56 CST. The tornado quickly crossed U.S. Highway 84 five miles northwest of Shallowater, where a National Weather Service damage survey team found tumble weeds suspended within utility wires. The tornado then tracked north-northeastward to the west of Farm to Market Road 179. The tornado downed utility poles, damaged four structures, a livestock trailer, and additionally uprooted a large tree before crossing the Lubbock and Hale County line one mile west of the County Line community.</p> <p>Two mobile homes sustained minor damage from the tornado. Skirting was removed from one home, and mud splatters were evident on the structure. A large roof panel was additionally removed from a second mobile home along county roads west of Farm to Market 179. A well-built permanent house sustained minor damage immediately southwest of County Line, near the Lubbock and Hale County line. A carport and outbuilding were destroyed at the residence and minor roof damage occurred from debris loaded wind. In addition, a large metal garage structure on the property was partially collapsed when tornadic winds caused the door to fail. A large boat stored within the structure was subsequently damaged when it was pushed by wind-loaded debris through a portion of the structure's back wall.</p> <p>By 20:15 CST drier air began to occlude the tornadic circulation. This allowed visibility around the tornado to improve and a National Weather Service employee began witnessing and photographing the tornado and associated utility power flashes as it approached the Lubbock and Hale County line. The tornado blew down approximately a dozen wooden utility poles along its path as it crossed into Hale County one mile west of the County Line community at 20:16 CST.</p> <p>The tornado continued until 20:20 CST in southwestern Hale County, where it resulted in additional damages to farm implements, utility poles, and an oil field shed. Damages to the two mobile homes, a single family residence and metal garage, trees, and to wooden utility poles support an EF-1 rating with estimated wind speeds between 85 and 95 mph. The tornado traveled nearly eight miles between 19:56 CST and 20:20 CST and accounted for \$130,000 in damages along its path in Lubbock and Hale Counties. No injuries were reported.</p>				
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<b>HALE COUNTY --- 1.1 W COUNTYLINE [33.82, -102.05], 1.8 NW COUNTYLINE [33.84, -102.05]</b>	04/16/09 20:16 CST		50K	Tornado (EF1, L: 1.25 mi , W: 125 yd)
	04/16/09 20:20 CST		0	Source: NWS Storm Survey

A relatively long-lived, but weak (EF-1), tornado developed rapidly within a convective complex over northwestern Lubbock County shortly before 20:00 CST and tracked north-northeastward into southwestern Hale County.

The tornado crossed the Lubbock and Hale County line at 20:16 CST one mile west of County Line, where a number of wooden utility poles were downed. The tornado then tracked northward for more than a mile and resulted in damage at a farmstead where a cotton stripper basket was blown 250 yards and destroyed. The tornado additionally destroyed a small outbuilding near an oil field northwest of County Line.

The tornado then dissipated as observed by close-range radar sampling and visually by a National Weather Service employee at 20:20 CST about a mile and a half northwest of County Line.

Damages to utility poles and the outbuilding, as well as damages to four structures and a large tree in northwestern Lubbock County support an EF-1 rating with wind speeds between 85 and 95 mph. The tornado traveled nearly eight miles between 19:56 CST and 20:20 CST, and accounted for a total of \$130,000 in damages along its path in Lubbock and Hale Counties. No injuries were reported.

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<b>HALE COUNTY --- 5.8 NE COUNTYLINE [33.88, -101.96], 6.6 SSE COTTON CENTER [33.91, -101.96]</b>	04/16/09 20:26 CST		75K	Tornado (EF1, L: 2.00 mi , W: 75 yd)
	04/16/09 20:30 CST		0	Source: Law Enforcement

A tornadic circulation reformed within the Lubbock and Hale County convective complex, east of the dissipated "County Line" tornado's track. Although the tornado was never witnessed by spotters or local officials, the tornado vortex was well sampled at close range by the Lubbock, Texas (KLBB) WSR-88D radar, and damage subsequently confirmed that a tornado indeed occurred.

This tornado developed very near Farm to Market Road 54 at 20:26 CST, about five and a half miles west-northwest of Abernathy, and moved northward along a two mile long track. The weak tornado broke a number of tree limbs within a shelter belt at a homestead along Farm to Market Road 54, then collapsed a small privately-owned two-way radio tower northeast of the intersection of Farm to Market Roads 54 and 2528. Damage to the radio tower was determined to support an EF-1 rating with wind speeds estimated between 90 and 100 mph. The tornado then dissipated at 20:30 CST approximately eight miles northwest of Abernathy.

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<b>KENT COUNTY --- 10.8 WNW CLAIREMONT [33.25, -100.91]</b>	04/16/09 20:38 CST		0	Tornado (EF0, L: 0.25 mi , W: 75 yd)
	04/16/09 20:38 CST		0	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - April 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>An intense Doppler radar indicated low-level circulation developed within the southwestern flank of an evolving convective complex over remote areas of northwestern Kent County shortly after 20:30 CST. No visual observations of a tornado were received. A post-storm National Weather Service survey, however, discovered tumble weeds and other vegetative debris suspended in utility wires just south of Farm to Market Road 2320 and east of that roadways intersection with Farm to Market Road 1081, approximately eleven miles northwest of Clairemont. This evidence of a localized wind event was consistent with survey observation where a well-documented tornado crossed a major U.S. highway in northwestern Lubbock County earlier in the evening, and is well correlated to the intense radar derived tornadic vortex signature. Event time is estimated per radar.</p>				
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<b>KENT COUNTY --- 4.0 W GIRARD [33.35, -100.74], 4.3 WNW GIRARD [33.37, -100.74]</b>				
	04/16/09 21:05 CST		0	Tornado (EF0, L: 1.50 mi , W: 100 yd)
	04/16/09 21:07 CST		0	Source: Public
<p>Multiple public and law enforcement reports of a tornado were well corresponded to an intense radar-derived tornadic vortex signature just southwest and west of Girard shortly after 21:00 CST. One public report indicated that a family heard a loud "roar" as the tornado passed near their home four miles southwest of Girard. Despite multiple witnesses, a post-storm National Weather Service survey found no damage in the area which is predominantly open mesquite-covered range land.</p>				
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<b>LYNN COUNTY --- 7.0 N TAHOKA [33.28, -101.78], 5.0 S TAHOKA [33.11, -101.78], 1.6 N PETTY [33.30, -101.98], 3.6 NNW NEW HOME [33.36, -101.95], 4.3 NNE NEW HOME [33.38, -101.89]</b>				
	04/16/09 21:10 CST		0	Flash Flood (due to Heavy Rain)
	04/16/09 23:00 CST		0	Source: Emergency Manager
<p>The Lynn County Emergency Manager reported that repeated waves of thunderstorms throughout the late afternoon and evening hours had produced heavy rainfall and resulted in flash flooding over portions of Lynn County. Reports indicated that extensive areas of flowing flood waters inundated portions of U.S. Highway 87 near Tahoka. Flood waters additionally flowed over Farm to Market Roads 211 and 1730 near New Home. No damage or injuries were reported.</p>				
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<b>LUBBOCK COUNTY --- 2.4 WSW ACUFF [33.59, -101.66], 1.9 WNW ACUFF [33.61, -101.65]</b>				
	04/16/09 21:14 CST		25K	Tornado (EF1, L: 1.50 mi , W: 100 yd)
	04/16/09 21:21 CST		0	Source: Trained Spotter
<p>Another tornadic circulation developed within a broken convective complex near the Roosevelt community in eastern Lubbock County during the 21:00 CST hour on the 16th. Again, this event was well sampled at close range by the Lubbock, Texas (KLBB) WSR-88D radar, and was confirmed by Skywarn storm spotters and by the occurrence of property damage.</p>				
<p>A weak tornado developed just southwest of the intersection of Farm to Market Roads 40 and 400 between Roosevelt and Acuff at approximately 21:12 CST. The tornadic winds were sufficient to collapse a low-end and dated 20x30 foot barn and to damage the skirting and roofing of a mobile home near that intersection. A small metal awning also was blown off of a business and a fence was blown down as the tornado moved northeastward into open country. Skywarn storm spotters observed the tornado and associated utility power flashes about three and a half miles southeast of Idalou just before it dissipated at 21:20 CST.</p>				
<p>Damage to the barn supports an EF-1 rating, with estimated wind speeds approaching 95 mph. Damages were estimated at \$25,000. No injuries were reported.</p>				
<p>Nickel size hail was additionally reported in the immediate vicinity of the tornado.</p>				
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<b>LUBBOCK COUNTY --- 6.5 SSE IDALOU [33.58, -101.64]</b>				
	04/16/09 21:15 CST		0	Hail (0.88 in)
	04/16/09 21:15 CST		0	Source: Trained Spotter
<p>Skywarn storm spotters reported nickel size hail at the intersection of Texas Farm to Market Roads 40 and 400 between Roosevelt and Acuff. A tornado additionally impacted the area during the time of the hail.</p>				
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<b>DICKENS COUNTY --- 16.9 E SPUR MUNI ARPT [33.41, -100.56]</b>				
	04/16/09 21:35 CST		0	Tornado (EF0, L: 0.25 mi , W: 75 yd)
	04/16/09 21:35 CST		0	Source: Law Enforcement
<p>A law enforcement officer observed a brief tornado over open range land in extreme southeastern Dickens County shortly after 21:30 CST. The tornado was associated with a small radar reflectivity derived supercell structure that evolved on the southern flank of the previously tornadic storm near Girard (Kent County). No damage was reported.</p>				
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<b>KING COUNTY --- 13.4 SW GUTHRIE 6666 ARPT [33.49, -100.51]</b>				
	04/16/09 21:52 CST		0	Tornado (EF0, L: 0.25 mi , W: 75 yd)
	04/16/09 21:52 CST		0	Source: Storm Chaser

## Storm Data and Unusual Weather Phenomena - April 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A storm chaser observed a brief tornado, seen within lightning flashes and associated with utility power flashes, over rural portions of southwestern King County shortly before 22:00 CST. The tornado remained over open range land south of U.S. Highway 82 southwest of Guthrie, and was associated with the same small-scale supercell storm which previously produced a tornado over southeastern Dickens County. No damage was reported.

**A severe weather outbreak occurred over west Texas during the afternoon and evening hours of the 16th and resulted in significant public impacts. Despite the occurrence of thirteen tornadoes across the South Plains region, most of the damage resulted from destructive hail and heavy rainfall.**

Thunderstorms first developed over the northern South Plains around 13:00 CST. These early afternoon storms initiated as supercells, but transitioned into a small-scale convective complex that produced extensive amounts of large hail and heavy rainfall. As the storms trained over the Interstate 27 corridor in Swisher County, a significant hail accumulation and flood event resulted in some 50 vehicles becoming stalled and a prolonged closure of the highway through the overnight hours.

Additional storms developed during the mid to late afternoon hours over the central South Plains. Two supercell thunderstorms impacted Lubbock County. One of these storms produced a destructive hail swath through the city of Lubbock damaging some 3,000 homes and more than 1,100 vehicles totaling an estimated \$40 million in damages. Meanwhile a second supercell storm over eastern Lubbock County produced a family of weak tornadoes along U.S. Highway 82 east of Idalou.

Other supercell storms impacted portions of Garza and Kent Counties during the late afternoon and early evening hours. These storms additionally produced damaging hail and brief tornadoes.

By late evening, storm modes transitioned toward broken convective complexes and multicell structures. An unstable low-level environment, however, continued to be characterized by an increasingly enhanced veering of the wind fields. Thus, despite a transition toward less discrete storm cells, the threat for tornadoes remained. Multiple small scale low-level circulations developed within the evolving convective complexes, and these circulations proved to be tornadic. An EF-1 tornado damaged five structures and downed power poles as it tracked nearly eight miles across northwestern Lubbock County and southwestern Hale County around 20:00 CST. Two additional EF-1 tornadoes impacted the Abernathy (Hale County) and Roosevelt (Lubbock County) areas through the 21:00 CST hour. Meanwhile, similar tornadic circulations developed within other storm complexes over portions of Dickens, Kent, and King Counties. Multiple reports of tornadoes were received from rural areas around the Spur, Girard, and Guthrie vicinities but no damages resulted.

In all, an estimated \$41.3 million in damages and three injuries resulted from severe weather across the South Plains region of west Texas on the 16th.

## Storm Data and Unusual Weather Phenomena - April 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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*A combination of accumulating hail and heavy rainfall resulted in "ice jam-like" flooding along Interstate 27 between Kress and Tulia in Swisher County during the afternoon and evening of the 16th. Photo courtesy: Julie White - via KCBD-TV - Lubbock, Texas.*

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**KING COUNTY --- 12.0 ESE GUTHRIE [33.55, -100.14], 15.0 ESE GUTHRIE [33.54, -100.09]**

04/26/09 13:28 CST	0	Hail (1.25 in)
04/26/09 13:33 CST	0	Source: Trained Spotter

An isolated supercell thunderstorm developed near a dryline over the eastern Rolling Plains of west Texas during the mid afternoon hours of the 26th. This storm produced a swath of large hail up to the size of half dollars along U.S. Highway 82, roughly between that highway's intersections with Texas Highway's 365 and 114. No damage was reported.

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**KING COUNTY --- 2.0 W GUTHRIE [33.62, -100.36], 2.0 N GUTHRIE [33.65, -100.33]**

04/26/09 16:13 CST	0	Hail (1.75 in)
04/26/09 16:17 CST	0	Source: Law Enforcement

Another round of more scattered thunderstorms developed along and east of the dryline by the late afternoon hours of the 26th. An isolated storm became severe in King County, and produced a swath of large hail up to the size of golfballs from just west of Guthrie to just north of that town. No damage was reported.

**A dryline served as a focus for thunderstorm development during the afternoon hours of the 26th over the Rolling Plains of west Texas. An isolated storm initially developed during the mid afternoon hours, and produced a swath of large hail in eastern King County. More scattered thunderstorm activity re-initiated during the late afternoon. Again, a severe storm embedded within this activity, produced up to golfball size hail in King County near Guthrie. No damage was reported.**

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

## Storm Data and Unusual Weather Phenomena - April 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	04/28/09 20:17 CST		0	Hail (0.75 in)
	04/28/09 20:17 CST		0	Source: Law Enforcement

Law enforcement officials reported penny size hail in Guthrie.

### PARMER COUNTY --- LAZBUDDIE [34.38, -102.62]

	04/29/09 00:57 CST		0	Hail (0.75 in)
	04/29/09 00:57 CST		0	Source: Broadcast Media

The local broadcast media relayed a report of penny size in Lazbuddie shortly before 01:00 CST on the 29th.

**Scattered thunderstorms impacted portions of the west Texas South Plains during the evening hours of the 28th and persisted into the very early morning hours of the 29th. A few storms became severe and produced hail up to the size of pennies.**

### STONEWALL COUNTY --- 15.0 SE ASPERMONT [33.00, -100.05]

	04/29/09 12:45 CST		0	Hail (0.75 in)
	04/29/09 12:45 CST		5K	Source: Public

The public reported that penny size hail damaged a number of pecan trees at an orchard southeast of Aspermont.

### HALL COUNTY --- 3.0 NNE TAMPICO [34.52, -100.70], 4.2 WNW PARNELL [34.55, -100.67]

	04/29/09 15:20 CST		0	Tornado (EF0, L: 2.75 mi , W: 100 yd)
	04/29/09 15:27 CST		0	Source: Law Enforcement

The Texas Department of Public Safety and the public reported a tornado in rural portions of Hall County shortly before 15:30 CST. The tornado remained in open range land west of Estelline, and north of Texas Highway 86. Area residents reported that a satellite tornado briefly developed and rotated around the main tornado. No damages were reported.

### HALL COUNTY --- 1.1 N PARNELL [34.54, -100.60], 1.8 NNE PARNELL [34.54, -100.59]

	04/29/09 15:25 CST		0	Tornado (EF0, L: 0.75 mi , W: 50 yd)
	04/29/09 15:26 CST		0	Source: Public

Rural residents in the Estillene area witnessed the life cycle of a tornado between 15:20 and 15:27 CST on the 29th. Eyewitness accounts described a small satellite tornado which developed in proximity to the main tornado for about a minute before the main tornado dissipated. Both tornadoes remained in open range land and resulted in no damages.

### COTLE COUNTY --- 1.0 W CEE VEE [34.22, -100.47]

	04/29/09 15:32 CST		0	Hail (1.75 in)
	04/29/09 15:32 CST		0	Source: Storm Chaser

Storm chasers reported golfball size hail along Farm to Market Road 1440 just west of Cee Vee.

### HALE COUNTY --- 1.0 N EDMONSON [34.29, -101.90], 2.0 N PLAINVIEW [34.23, -101.70]

	04/29/09 15:40 CST		0	Hail (1.25 in)
	04/29/09 16:25 CST		0	Source: Broadcast Media

Multiple reports of large hail up to the size of half dollars were received from just north of Edmonson to near Plainview. This swath of hail accompanied a developing supercell thunderstorm that tracked across northern Hale County.

### FLOYD COUNTY --- 10.0 E SOUTH PLAINS [34.22, -101.14]

	04/29/09 16:13 CST		0	Tornado (EF0, L: 0.25 mi , W: 75 yd)
	04/29/09 16:13 CST		0	Source: NWS Employee

An off-duty National Weather Service meteorologist witnessed a brief tornado in extreme northeastern Floyd County shortly before 16:15 CST. The tornado occurred as a developing supercell thunderstorm interacted with a pre-existing outflow boundary. No damages were reported.

### FLOYD COUNTY --- 14.0 ENE SOUTH PLAINS [34.30, -101.09], 16.0 ENE SOUTH PLAINS [34.32, -101.07]

	04/29/09 16:20 CST		0	Hail (1.75 in)
	04/29/09 16:34 CST		0	Source: Fire Department/Rescue

Local fire department officials reported large hail that ranged in size between quarters and golfballs near Farm to Market Road 1065 in far northeastern Floyd County. The supercell thunderstorm that produced the hail produced a tornado minutes before the hail was observed.

## Storm Data and Unusual Weather Phenomena - April 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>FLOYD COUNTY --- 6.5 WSW LONE STAR [34.25, -101.53], 8.0 ESE SOUTH PLAINS [34.18, -101.19]</b>				
	04/29/09 16:35 CST		0	Hail (1.75 in)
	04/29/09 17:51 CST		0	Source: Storm Chaser
<p>Multiple reports of large hail that ranged in size between quarters and and golfballs were received as a supercell thunderstorm tracked across northern Floyd County. Local newspapers reported golfball size hail in Providence, a small community in extreme northwestern Floyd County, as the storm initially moved into the county. Storm chasers reported quarter size hail at 16:54 CST west of South Plains. Skywarn storm spotters reported quarter size hail in South Plains at 17:01 CST. The hail continued to fall along a east-southeastward moving swath to near Cedar Hill, where local fire department officials additionally reported quarter size hail at 17:51 CST. The supercell storm that produced the hail swath eventually produced a family of tornadoes in eastern Floyd County.</p>				
<b>HALL COUNTY --- BRICE [34.70, -100.88]</b>				
	04/29/09 16:41 CST		0	Hail (1.75 in)
	04/29/09 16:41 CST		0	Source: Law Enforcement
<p>An anticyclonic "left-moving" supercell storm produced golfball size hail at Brice shortly after 16:40 CST. Local officials additionally reported a well-developed funnel cloud associated with this storm. The "right-moving" member of the preceding storm split produced very large hail in northeastern Briscoe County.</p>				
<b>BRISCOE COUNTY --- 14.9 NNE QUITAQUE [34.57, -100.95]</b>				
	04/29/09 16:42 CST		0	Hail (2.75 in)
	04/29/09 16:42 CST		0	Source: Law Enforcement
<p>Local law enforcement officials reported baseball size hail along Texas Highway 256 south of the Antelope Flat community. This giant hail was produced by the cyclonic "right-moving" member of a supercell storm split.</p>				
<b>BRISCOE COUNTY --- 4.0 E QUITAQUE [34.37, -100.98]</b>				
	04/29/09 17:02 CST		0	Hail (1.75 in)
	04/29/09 17:02 CST		0	Source: Fire Department/Rescue
<p>Fire department officials reported golfball size hail along Texas Highway 86 east of Quitaque.</p>				
<b>MOTLEY COUNTY --- 10.0 NW MATADOR [34.12, -100.94], 9.0 NNW MATADOR [34.14, -100.88]</b>				
	04/29/09 17:02 CST		0	Hail (1.75 in)
	04/29/09 17:02 CST		0	Source: Storm Chaser
<p>Multiple reports of golfball size hail were received from storm chasers along Texas Highway 70 northwest of Matador shortly after 17:00 CST.</p>				
<b>FLOYD COUNTY --- 4.2 SSE SOUTH PLAINS [34.17, -101.28], 10.7 SE SOUTH PLAINS [34.11, -101.19]</b>				
	04/29/09 17:11 CST		25K	Tornado (EF1, L: 4.00 mi , W: 125 yd)
	04/29/09 17:23 CST		0	Source: Storm Chaser
<p>Numerous storm chasers documented a long-lived tornado in northeastern Floyd County during the 17:00 CST hour of the 29th. The tornado initially developed at 17:11 CST northwest of Cedar Hill, and quickly evolved from its initial appearance as a thin rope to a fat cone-shaped vortex. The tornado tracked east-southeastward across Farm to Market Road 97 just west of Cedar Hill, where it downed four utility poles as it crossed that highway. At least a couple of the wooden poles were snapped just above ground level. The tornado continued east-southeastward as a satellite tornado developed north of the main tornado. Both tornadoes remained over open range land and no damages were reported. Video and photographs provided by several storm chasers suggest that the visible condensation funnel disappeared at 17:21 CST, but then reformed briefly as a thin rope-shaped vortex at 17:23 CST before the tornado dissipated.</p>				
<b>FLOYD COUNTY --- 11.7 ESE SOUTH PLAINS [34.15, -101.14], 12.3 ESE SOUTH PLAINS [34.14, -101.13]</b>				
	04/29/09 17:19 CST		0	Tornado (EF0, L: 0.75 mi , W: 75 yd)
	04/29/09 17:21 CST		0	Source: Storm Chaser
<p>Storm chasers documented a satellite tornado which accompanied a cone-shaped and long-lived tornado near Cedar Hill in northeastern Floyd County around 19:20 CST. The small satellite tornado remained in open range land southeast of Farm to Market Road 97 and resulted in no damages.</p>				
<b>FLOYD COUNTY --- 10.6 NNW DOUGHERTY [34.08, -101.12], 9.1 N DOUGHERTY [34.06, -101.10]</b>				
	04/29/09 17:58 CST		0	Tornado (EF0, L: 1.75 mi , W: 500 yd)
	04/29/09 18:03 CST		0	Source: Storm Chaser



## Storm Data and Unusual Weather Phenomena - April 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Several storm chasers photographed a large tornado in extreme eastern Floyd County around 18:00 CST. The tornado remained in desolate range land just above the Caprock Escarpment and southeast of Farm to Market Road 97, immediately west of the Floyd and Motley County line. Video provided by storm chasers suggest that the tornado moved east-southeastward for approximately five minutes before roping out and dissipating. Local authorities reported no damage in the area. A National Weather Service post-storm survey revealed that this large and potentially significant tornado struck inaccessible areas void of roads.

**COTTLE COUNTY --- 12.0 NW PADUCAH [34.14, -100.45], 9.0 S PADUCAH [33.89, -100.30]**

04/29/09 18:25 CST		0	Hail (1.25 in)	
04/29/09 18:55 CST		0		Source: Fire Department/Rescue

An intense high-precipitation supercell produced a broad swath of wind-driven hail over central Cottle County during the 18:00 CST hour of the 29th. Storm chasers initially reported quarter size hail blown by winds estimated near 75 mph within the storm's rear flank downdraft west of Paducah along U.S. Highway 62/70 at 18:25 CST. Additional reports of large wind-blown hail were received as the parent storm tracked southeastward over the immediate Paducah vicinity. Reports indicate that the largest hail fell north of the city, where reports of tennis ball to baseball size hail stones were received.

**COTTLE COUNTY --- 5.0 W PADUCAH [34.02, -100.39], PADUCAH [34.02, -100.30]**

04/29/09 18:39 CST		0.15M	Thunderstorm Wind (EG 65 kt)	
04/29/09 18:51 CST		0		Source: Fire Department/Rescue

Local officials reported that large hail was accompanied by damaging thunderstorm winds estimated up to 75 mph along a swath of U.S. 62/70 from west of Paducah to near the city. The Paducah Fire Department initially estimated 75 mph winds and hail west of Paducah at 18:39 CST. A KVII-TV schoolnet site in Paducah recorded a peak gust of 59 mph at 18:46 CST. Winds estimated up to 75 mph, however, were again reported by the Cottle County Emergency Manager in Paducah at 18:51 CST. Damage to trees and utilities was reportedly widespread, including the loss of a historic tree at a church. A few light weight structures, such as barns and car ports, were additionally damaged. The roof also was reportedly blown off a business. No injuries were reported.

**COTTLE COUNTY --- 12.0 N PADUCAH [34.19, -100.30]**

04/29/09 18:55 CST		15K	Hail (2.50 in)	
04/29/09 18:55 CST		0		Source: Emergency Manager

Local emergency management officials reported baseball size hail along U.S. Highway 63/83 north of Paducah, and a resident of the Dunlap community reported tennis ball size hail. The giant hail accompanied the core of an intense high-precipitation supercell that produced a damaging swath of wind-driven hail over central Cottle County during the 18:00 CST hour of the 29th. Local newspaper accounts state that at least one motorist sustained severe damage to his vehicle while traveling along U.S. Highway 63/83 north of Paducah.

**DICKENS COUNTY --- 10.0 NE DICKENS [33.72, -100.71]**

04/29/09 19:15 CST		0	Hail (2.50 in)	
04/29/09 19:15 CST		0		Source: Law Enforcement

Law enforcement officials reported baseball size hail along Farm to Market Road 265 northeast of Dickens. No damages were reported.

**DICKENS COUNTY --- 3.0 SE AFTON [33.72, -100.76], 10.0 NE DICKENS [33.72, -100.71]**

04/29/09 19:15 CST		0	Hail (1.75 in)	
04/29/09 19:25 CST		0		Source: Law Enforcement

Multiple reports of large hail up to the size of golfballs, and occasionally larger, were received from local law enforcement officials northeast of Dickens shortly after 19:00 CST. This occurred as a newly developed supercell thunderstorm impacted central Dickens County.

**KING COUNTY --- 1.0 N FINNEY [33.79, -100.38]**

04/29/09 19:18 CST		0	Tornado (EF0, L: 0.25 mi , W: 50 yd)	
04/29/09 19:18 CST		0		Source: Newspaper

Newspaper accounts described a local rancher's eyewitness account of a tornado that occurred one mile north of Finney shortly before 19:30 CST. The witness stated that he observed a tornado travel a short distance across the north side of his property for about one minute before it dissipated. An analysis of Doppler radar imagery reveals a brief hook echo and velocity couplet near Finney as a complex of severe storms impacted the area. Event time is estimated via radar imagery.

**DICKENS COUNTY --- 15.6 E DICKENS [33.63, -100.56], 17.3 E DICKENS [33.63, -100.53]**

04/29/09 19:28 CST		0	Tornado (EF0, L: 1.75 mi , W: 75 yd)	
04/29/09 19:32 CST		0		Source: COOP Observer

A National Weather Service cooperative observer witnessed an intermittent tornado which remained in open range land west of the Pitchfork Ranch headquarters and north of U.S. Highway 82/114. No damages were reported.

## Storm Data and Unusual Weather Phenomena - April 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
KING COUNTY --- 3.0 NW GUTHRIE [33.65, -100.37], GUTHRIE [33.62, -100.33]	04/29/09 20:20 CST		0	Hail (1.75 in)
	04/29/09 21:00 CST		0	Source: Law Enforcement

Multiple public and law enforcement reports of large hail that ranged in size from nickels to golfballs were received in the Guthrie vicinity.

An active severe weather event evolved over the west Texas South Plains region during the afternoon and evening hours of the 29th. Overnight convection over the Southern Plains resulted in a complex surface weather pattern through the day on the 29th. Thunderstorms initiated shortly after midday along an outflow boundary over the northern Permian Basin and southern South Plains. One of these storms produced large hail in Stonewall County during the early afternoon.

More significant severe storms developed during the late afternoon hours, as convection initiated along another pre-existing outflow boundary and its intersecting triple point with a dryline. These storms developed in a very unstable airmass, and low-level wind shear along and north of the outflow boundary was sufficient to promote tornado development. Supercell thunderstorms that developed near this boundary began to produce tornadoes and very large hail over the northeastern South Plains and the extreme southeastern Panhandle shortly after 15:00 CST. While several of the tornadoes were relatively long-lived and appeared to be capable of significant damage, they remained over open range land. Only a single instance of tornado damage occurred, when an EF-1 tornado downed wooden utility poles along Farm to Market Road 97 near Cedar Hill in northeastern Floyd County.

The most significant public impacts from these storms occurred in Paducah (Cottle County), where a massive high-precipitation supercell produced very strong winds and wind-driven hail that damaged vehicles, light structures, trees, and utilities. No injuries were reported.



*A brief tornado developed east of South Plains in extreme northeastern Floyd County just before 16:15 CST on the 29th. Photo courtesy: Matt Ziebell - National Weather Service - Lubbock, Texas.*

## Storm Data and Unusual Weather Phenomena - May 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

05/01/09 00:00 CST	0	Drought
05/31/09 23:59 CST	6M	

Despite a wet summer and early fall of 2008, precipitation was scarce over the west Texas South Plains region, especially over the southern Rolling Plains from late October 2008 through May 2009. Severe (D2) drought initially developed over the Rolling Plains during late January 2009. By mid April 2009, several widespread rain events had helped to provide a temporary reprieve of drought conditions over most of the area. The area impacted by Severe (2) drought had lessened over the southern Rolling Plains. However, May 2009 saw a low coverage and intensity of convective rainfalls as compared to climatology. Thus, with long-term rainfall deficits on the increase, drought conditions intensified to Extreme (D3) drought over the southern Rolling Plains of West Texas by the end of May.

Severe (D2) drought was ongoing over Kent, King, and Stonewall Counties at the beginning of May. Rainfall deficits for the previous six month period increased to between four and six inches over the southern Rolling Plains by the end of the month. These deficits represented 40% to 50% of climatological averages.

Following the failure of winter wheat crops in previous months, agricultural impacts in May began to include delays in cotton planting -the area's primary industry. Local cotton experts reported that the lack of wetting rainfall events in May made it difficult for farmers to plant. However, the lack of rainfall would not become critical until early June, when crop insurance deadlines required cotton crops to be in the fields.

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 usage locally being for cotton production.

The total economic impact across the South Plains region in May was estimated at \$6 million with approximately \$24 million dollars of economic loss occurring locally since the onset of severe (D2) drought conditions in January 2009.