

## Storm Data and Unusual Weather Phenomena - May 2013

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

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#### (OK-Z001) CIMARRON, (OK-Z002) TEXAS, (OK-Z003) BEAVER

	05/01/13 00:00 CST	0	Drought
	05/31/13 23:59 CST	75M	

Drought conditions across the Oklahoma Panhandle worsened due to limited precipitation during the month of May. The entire Oklahoma Panhandle now falls with Exceptional (D4) drought. While some precipitation occurred during the month of May, Guymon only recorded 0.16 inches of precipitation (2.28 inches below normal). The month was the 47th warmest and 4th driest May on record for the Oklahoma Panhandle.

Limited dormant fuels remain in prime condition for the spread of fires across the Panhandle. The Keetch-Byram Drought Index remained steady state for the month of May with Texas County in the 600 to 800 range, while the remainder of the Oklahoma Panhandle remains in the 400 to 600 range.

The sparse precipitation for the month and several freezes severely impacted developing crops. The Palmer Drought Severity Index for the month of May showed a degradation of conditions across the Panhandle with the entire Panhandle now rated as Severe Drought. Water watches remain in effect for several public water systems through May while voluntary to mandatory water restrictions have been enacted.

Economic losses due to the drought through May were estimated near \$25 million (D4) a county, and were predominately the result for poor growth of developing crops, heavy supplemental watering, and supplemental feed for cattle in pastures and rangeland.

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#### (OK-Z002) TEXAS

	05/01/13 05:55 CST	0	High Wind (MAX 50 kt)
	05/01/13 05:56 CST	0	

A cold front moved through the Oklahoma Panhandle during the early morning hours of the 1st. The strong post frontal surface pressure gradient caused surface winds to increase into the 35 to 39 mph range for several hours. An isolated high wind gust was reported by the Oklahoma Mesonet site in Goodwell (Texas County) at 5:55 AM CST as stronger upper level winds were able to mix to the surface. No other high wind gusts were reported after 5:55 am CST since the surface pressure gradient weakened in response to the cold front progressing well into central Texas.

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#### (OK-Z001) CIMARRON, (OK-Z002) TEXAS, (OK-Z003) BEAVER

	05/02/13 00:15 CST	0	Cold/Wind Chill
	05/02/13 08:00 CST	0	

A cold front moved through the Oklahoma Panhandle during the day on the 1st, and the post frontal airmass allowed temperatures to drop below freezing quickly after sunset. These subfreezing temperatures threatened sensitive vegetation during the start of the growing season. Overnight lows ranged from 29 degrees at Boise City (Cimarron County) to 32 degrees at Guymon (Texas County). Temperatures quickly warmed above freezing during the late morning of the 2nd.

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#### (OK-Z001) CIMARRON, (OK-Z002) TEXAS, (OK-Z003) BEAVER

	05/02/13 23:53 CST	0	Cold/Wind Chill
	05/03/13 09:00 CST	0	

A residual cold airmass over the Oklahoma Panhandle from a cold frontal passage earlier in the week allowed temperatures to drop below freezing during the evening hours of the 2nd. These subfreezing temperatures threatened sensitive vegetation during the start of the growing season. Overnight lows ranged from 22 degrees at Boise City (Cimarron County) to 30 degrees at Slapout (Beaver County). Temperatures quickly warmed above freezing during the late morning of the 3rd.

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#### (OK-Z001) CIMARRON, (OK-Z002) TEXAS, (OK-Z003) BEAVER

	05/04/13 03:00 CST	0	Cold/Wind Chill
	05/04/13 08:00 CST	0	

The residual cold airmass over the Oklahoma Panhandle from a cold frontal passage earlier in the week had begun to modify. This kept overnight low temperatures from cooling as quickly as previous nights. Freezing temperatures were not obtained until the early morning hours on the 4th. These subfreezing temperatures threatened sensitive vegetation during the start of the growing season. Overnight lows ranged from 26 degrees at Kenton (Cimarron County) to 32 degrees at Guymon (Texas County). Temperatures quickly warmed above freezing during the mid-morning of the 4th.

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#### (OK-Z001) CIMARRON, (OK-Z002) TEXAS

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/05/13 03:00 CST		0	Cold/Wind Chill
	05/05/13 07:00 CST		0	

The residual cold airmass over the Oklahoma Panhandle from a cold frontal passage earlier in the week had begun to modify. This kept overnight low temperatures from cooling as quickly as previous nights. Freezing temperatures were not obtained until the early morning hours on the 5th. These subfreezing temperatures threatened sensitive vegetation during the start of the growing season. Overnight lows ranged from 29 degrees at Kenton (Cimarron County) to 31 degrees at Goodwell (Texas County). Temperatures quickly warmed above freezing during the late morning of the 5rd.

### BEAVER COUNTY --- 1.5 SSW BEAVER [36.80, -100.53]

05/18/13 17:20 CST	0	Thunderstorm Wind (MG 51 kt)
05/18/13 17:21 CST	0	Source: Mesonet

A storm developed just southwest of the town of Beaver (Beaver County) around 5 PM CST. The storm intensified quickly, and moved over the city. Once over the city, it began to merge with a congealing line stretching northward into the High Plains. During this merger the storm moved over the Oklahoma Mesonet site in Beaver (Beaver County), where it produced a downdraft gust of 59 mph. Once the storm merged with the line it accelerated to the northeast and exited the county.

A strong upper level trough moved into eastern New Mexico and Colorado during the afternoon hours of the 18th. The lift provided by this trough allowed storms to initiate across the eastern Oklahoma Panhandle and allowed these storms to utilize an area of elevated instability which stretched from the Oklahoma Panhandle northward into the Central High Plains. With deep layer shear values of 30 to 35 mph, scattered storms quickly congealed into a linear structure with a primary threat of damaging wind. Once the storm merged with the line it quickly moved to the east and exited the county. No reports of damage or of injuries were reported with this storm.

### BEAVER COUNTY --- 8.9 NNW CLEAR LAKE [36.80, -100.33], 8.9 WSW KNOWLES [36.81, -100.32]

05/28/13 14:08 CST	0	Tornado (EF0, L: 0.82 mi , W: 25 yd)
05/28/13 14:11 CST	0	Source: NWS Storm Survey

A landspout tornado formed during the afternoon hours of the 28th. Eye-witness accounts described the landspout as a brief spin-up that started from the ground and connected with the base of a developing thunderstorm. Several pictures were taken by the eye-witnesses from U.S. Highway 83 approximately 4 miles south of Beaver (Beaver County). A National Weather Service survey team, using the eye-witness accounts, located the track of this landspout. Very little damage was evident given the landspout formed over grasslands and away from developed real estate. The max estimated wind speed was 60 mph. No injuries or fatalities were associated with this landspout tornado.

### BEAVER COUNTY --- 5.7 E FORGAN [36.90, -100.43], 6.7 ESE FORGAN [36.88, -100.41]

05/28/13 14:29 CST	0	Tornado (EF0, L: 1.77 mi , W: 25 yd)
05/28/13 14:40 CST	0	Source: NWS Storm Survey

A landspout tornado formed during the afternoon hours of the 28th near the town of Beaver (Beaver County). Eye-witness accounts stated the landspout developed north of the Beaver Sand Dunes State Park east of State Road 23. A National Weather Service survey team located the start of the track approximately 4 miles north of Beaver (Beaver County). Eye-witness reported that the landspout traveled to the northwest, crossed State Road 23, and traveled west of State Road 23 before dissipating approximately 5 miles north-northwest of Beaver (Beaver County). The survey team verified the eye-witness accounts and noted that little damage was evident since the landspout formed over undeveloped grassland. The estimated max wind speed with this tornado was 60 mph. No injuries or fatalities were associated with this landspout.

### BEAVER COUNTY --- 3.5 N FORGAN [36.95, -100.54], 6.6 NNW FORGAN [36.99, -100.57]

05/28/13 15:08 CST	0	Hail (1.50 in)
05/28/13 15:09 CST	0	Source: Emergency Manager

A discrete supercell thunderstorm developed along a retreating dryline during the evening hours of the 28th. As the storm moved to the northwest it began producing hail across the northern portion of Beaver County. The Beaver County Emergency Manager reported ping pong ball size hail north of the city of Forgan (Beaver County). The supercell continued moving to the northwest before weakening slightly as it moved into southern Kansas.

### BEAVER COUNTY --- 2.2 E FLORIS [36.87, -100.66], 3.0 NNE FLORIS [36.91, -100.68]

05/28/13 15:43 CST	0	Hail (1.00 in)
05/28/13 15:45 CST	0	Source: Emergency Manager

A discrete supercell thunderstorm developed along a retreating dryline during the evening hours of the 28th. As the storm moved to the northwest it produced hail across the northern portion of Beaver County. The Beaver County Emergency Manager reported quarter size hail east of the city of Floris (Beaver County). The supercell continued moving to the northwest before weakening slightly as it moved into southern Kansas.

### BEAVER COUNTY --- 1.5 SSE ELMWOOD [36.60, -100.51], 3.6 ENE ELMWOOD [36.64, -100.46]

05/28/13 17:58 CST	0.80M	Thunderstorm Wind (EG 56 kt)
05/28/13 18:00 CST	0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - May 2013

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A cluster of thunderstorms developed along a retreating dryline across the north central Texas Panhandle, moved to the northeast, and entered Beaver County. While over the city of Elmwood (Beaver County), the thunderstorms produced a localized downburst that blew 8 power poles down. The Beaver County Emergency Manager relayed a report of the damage to the National Weather Service office in Amarillo (Potter County). The cluster of thunderstorms would continue a northeastern track before dissipating over southern Kansas.

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**BEAVER COUNTY --- 1.5 SSW BEAVER [36.80, -100.53]**

	05/28/13 18:10 CST		0	Thunderstorm Wind (MG 51 kt)
	05/28/13 18:11 CST		0	Source: Mesonet

A cluster of thunderstorms developed along a retreating dryline across the north central Texas Panhandle, moved to the northeast, and entered Beaver County. As the thunderstorms were over the city of Beaver (Beaver County), the Oklahoma Mesonet recorded a downburst gust of 59 mph. The cluster of thunderstorms would continue a northeastern track before dissipating over southern Kansas.

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**BEAVER COUNTY --- 1.5 SSW BEAVER [36.80, -100.53]**

	05/28/13 18:21 CST		0	Thunderstorm Wind (MG 59 kt)
	05/28/13 18:22 CST		0	Source: Mesonet

A cluster of thunderstorms developed along a retreating dryline across the north central Texas Panhandle, moved to the northeast, and entered Beaver County. As the thunderstorms were over the city of Beaver (Beaver County), the Oklahoma Mesonet recorded a downburst gust of 68 mph. The cluster of thunderstorms would continue a northeastern track before dissipating over southern Kansas.

**A severe weather outbreak brought hail, damaging winds, and tornadoes to portions of the Oklahoma Panhandle from the afternoon of the 28th into the early morning hours of the 29th. The morning upper air analysis on the 28th showed a mid-level shortwave trough rotating around the base of a longwave trough situated from Idaho to Arizona. At the surface, a dryline was situated from the northeastern Oklahoma Panhandle to the southwestern Texas Panhandle. The 6 AM CST upper air sounding from Amarillo showed a low level capping inversion with significant elevated instability. Also deep layer shear was primed for the development of discrete supercells. By noon, the northern portion of the dryline had moved into south central Kansas before stretching back into the southwestern Texas Panhandle, as instability values increased across the area. At this time, the combination of a residual cold frontal boundary and the dryline helped to form two landspout tornadoes as thunderstorms developed along the dryline across Beaver County. These tornadoes formed over undeveloped land and produced little damage.**

**During the late evening the dryline began to retreat westward as the nocturnal low level jet transported moisture from the Gulf of Mexico northwestward. This allowed the remnants of a supercell that brought severe weather to the Texas Panhandle to move into Beaver County. These storms produced isolated downbursts while decaying over the county.**

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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*Picture of a landspout 4 miles south of Beaver (Beaver County). Picture provided by Jennifer Palucki.*

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**(OK-Z001) CIMARRON, (OK-Z003) BEAVER**

05/28/13 17:30 CST	0	High Wind (MAX 58 kt)
05/29/13 03:36 CST	0	

Several reports of high wind gusts were reported from the afternoon hours of the 28th into the early morning hours of the 29th. One such high wind gust was reported by the Oklahoma Mesonet site 3 miles south east of Boise City (Cimarron County). This high wind was due to the close proximity to a surface low in southeastern Colorado and being behind a dryline stretched across the far eastern Oklahoma Panhandle. The well mixed atmosphere and tighter surface pressure gradient allowed an stronger winds aloft to reach the surface resulting in an isolated high wind gusts of 59 mph.

During the late afternoon hours, the dryline began to retreat to the west. At the same time decaying showers were overrunning the dryline before quickly dissipating. As these showers dissipated they caused isolated high wind gusts near the town of Beaver (Beaver County). One such gust was observed by the Oklahoma Mesonet site 1 mile south-southwest of Beaver (Beaver County) at 67 mph. An estimated 62 mph high wind gusts blew a tree down on a county road 6 miles southwest of Beaver (Beaver County). Another estimated 62 mph high wind gusts was responsible for breaking tree limbs off in the city of Beaver with some of the branches up to 4 inches in diameter.

Two final high wind gusts were reported by the Oklahoma Mesonet during the early morning hours on the 29th. One of the gusts was measure to be 58 mph with the final high wind gusts measured to be 61 mph. These gusts were associated with decaying showers that sent off an outflow which brought stronger winds aloft to the surface. No further high wind gusts were observed after 3:35 AM CST on the 29th.

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**TEXAS, North Panhandle**

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(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z004) OCHILTREE, (TX-Z005) LIPSCOMB, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z009) ROBERTS, (TX-Z010) HEMPHILL, (TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z015) WHEELER, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL, (TX-Z018) ARMSTRONG, (TX-Z019) DONLEY, (TX-Z020)

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>COLLINGSWORTH</b>				
	05/01/13 00:00 CST		0	Drought
	05/31/13 23:59 CST		0.41B	
<p>Drought conditions worsened during the month of May despite a few precipitation events during the latter half of the month. Exceptional (D4) drought encompasses the northern and western portions of the Texas Panhandle with Extreme (D3) drought affecting the southeastern portion of the Texas Panhandle. Severe (D2) drought only affects Gray County.</p> <p>May brought many late freezes and several opportunities for precipitation. Amarillo recorded 2.80 inches of precipitation for May (0.51 above normal), Dalhart recorded 0.44 inches of precipitation (1.80 inches below normal), and Borger recorded 1.08 inches of precipitation (1.81 inches below normal). This May was the 32nd warmest and 5th driest May on records for the Texas High Plains Region.</p> <p>The scattered precipitation during the month of May has helped improve some of the dormant fuels across the Panhandle. The Keetch-Byram Drought Index showed marginal improvement from April. The northwestern portion of the Texas Panhandle falls within the 600 to 800 range while the majority of the area stayed within the 400 to 600 range. The 200 to 400 range now encompasses Roberts County, Hutchinson County, and Gray County. Countywide burn bans remain in effect for all of the Texas Panhandle except for Hansford, Roberts, Hemphill, Oldham, Gray, Donley, Collingsworth and Deaf Smith Counties.</p> <p>The sparse precipitation for the month and several freezes severely impacted developing crops. Irrigated crops remain in fair conditions however; it is not the peak water demand period for these crops. Rangeland and pastures across the Texas Panhandle have remained in poor to very poor condition as observed by the Texas Crop and Weather Report. The Palmer Drought Severity Index for the month of May showed degradation in conditions to Extreme Drought for the Texas High Plains.</p> <p>Reservoirs and stream flows across the Panhandles have remained at below normal levels. The reservoirs of Palo Duro and Greenbelt Lake are both below 12 percent capacity with Lake Meredith at zero percent capacity. Water watches for several public water systems persisted through May while voluntary to mandatory mild water restrictions have been enacted.</p> <p>Economic losses due to the drought through May were estimated near \$5 million (D2)/\$10 million (D3)/\$20 million (D4) a county, and were predominately the result for poor growth of new crops, heavy supplemental watering, reduction of cattle herd sizes, and supplemental feed for cattle in pastures and rangeland.</p>				
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<p>(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z004) OCHILTREE, (TX-Z005) LIPSCOMB, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z011) OLDDHAM, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL, (TX-Z018) ARMSTRONG</p>				
	05/01/13 21:55 CST		0	Cold/Wind Chill
	05/02/13 08:40 CST		0	
<p>A cold front moved through the Texas Panhandle during the day on the 1st, and the post frontal airmass allowed temperatures to drop below freezing quickly after sunset. These subfreezing temperatures threatened sensitive vegetation during the start of the growing season. Overnight lows ranged from 30 degrees at Bootleg (Deaf Smith County) to 32 degrees at Perryton (Ochiltree County). Temperatures quickly warmed above freezing during the late morning of the 2nd.</p>				
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<p>(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z004) OCHILTREE, (TX-Z005) LIPSCOMB, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z009) ROBERTS, (TX-Z010) HEMPHILL, (TX-Z011) OLDDHAM, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z015) WHEELER, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL, (TX-Z018) ARMSTRONG, (TX-Z019) DONLEY, (TX-Z020) COLLINGSWORTH</p>				
	05/02/13 21:55 CST		0	Cold/Wind Chill
	05/03/13 09:00 CST		0	
<p>A residual cold airmass over the Texas Panhandle from a cold frontal passage earlier in the week allowed temperatures to drop below freezing during the evening hours of the 2nd. These subfreezing temperatures threatened sensitive vegetation during the start of the growing season. Overnight lows ranged from 21 degrees at Hereford (Deaf Smith County) to 31 degrees at Boys Ranch (Oldham County). Temperatures quickly warmed above freezing during the late morning of the 3rd.</p>				
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<p>(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z004) OCHILTREE, (TX-Z005) LIPSCOMB, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z009) ROBERTS, (TX-Z010) HEMPHILL, (TX-Z011) OLDDHAM, (TX-Z016) DEAF SMITH</p>				
	05/04/13 04:00 CST		0	Cold/Wind Chill
	05/04/13 08:00 CST		0	
<p>The residual cold airmass over the Texas Panhandle from a cold frontal passage earlier in the week had begun to modify. This kept overnight low temperatures from cooling as quickly as previous nights. Freezing temperatures were not obtained until the early morning hours on the 4th. These subfreezing temperatures threatened sensitive vegetation during the start of the growing season. Overnight lows ranged from 26 degrees at Dalhart (Hartley and Dallam County) to 32 degrees at Miami (Roberts County). Temperatures quickly warmed above freezing during the mid-morning of the 4th.</p>				

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<b>(TX-Z004) OCHILTREE, (TX-Z016) DEAF SMITH</b>				
	05/05/13 05:00 CST		0	Cold/Wind Chill
	05/05/13 07:00 CST		0	

The residual cold airmass over the Texas Panhandle from a cold frontal passage earlier in the week had begun to modify. This kept overnight low temperatures from cooling as quickly as previous nights. Freezing temperatures were not obtained until the early morning hours on the 5th. These subfreezing temperatures threatened sensitive vegetation during the start of the growing season. Overnight lows ranged from 30 degrees at Hereford (Deaf Smith County) to 31 degrees at Perryton (Ochiltree County). Temperatures quickly warmed above freezing during the late morning of the 5rd.

<b>COLLINGSWORTH COUNTY --- 5.5 N QUAIL [34.96, -100.46], 7.5 NE SAMNORWOOD [35.12, -100.18]</b>				
	05/08/13 15:32 CST		0	Hail (1.25 in)
	05/08/13 15:33 CST		0	Source: Public

A thunderstorm moved to the northeast across the southeastern Texas Panhandle, 7 miles north of the city of Quail (Collingsworth County) it produced hail up to the size of half dollar.

<b>WHEELER COUNTY --- 4.3 SW MOBEETIE [35.48, -100.49], 2.4 NE NEW MOBEETIE [35.56, -100.41]</b>				
	05/08/13 15:45 CST		0	Hail (1.75 in)
	05/08/13 15:50 CST		0	Source: Trained Spotter

A thunderstorm moved across Wheeler County during the afternoon hours of the 8th. One mile south of Mobeetie (Wheeler County) a trained storm spotter reported golf ball size hail as the thunderstorm moved to the northeast.

<b>COLLINGSWORTH COUNTY --- 10.4 WSW QUAIL [34.80, -100.60], 4.3 NW QUAIL [34.92, -100.51]</b>				
	05/08/13 16:08 CST		0	Hail (0.88 in)
	05/08/13 16:12 CST		0	Source: Trained Spotter

A trained storm spotter observed a decaying thunderstorm producing nickel size hail seven miles east of Hedley (Donley County).

<b>COLLINGSWORTH COUNTY --- 6.3 N QUAIL [34.97, -100.47], 3.9 SSW DOZIER [35.03, -100.38]</b>				
	05/08/13 16:24 CST		0	Hail (1.25 in)
	05/08/13 16:31 CST		0	Source: Trained Spotter

A trained storm spotter observed a thunderstorm seven miles north of Quail (Collingsworth County) producing half dollar size hail.

<b>WHEELER COUNTY --- 1.5 WSW SHAMROCK [35.21, -100.27], 0.8 NE SHAMROCK [35.23, -100.24]</b>				
	05/08/13 16:49 CST		0	Hail (1.75 in)
	05/08/13 16:56 CST		0	Source: Trained Spotter

A thunderstorm moved over the city of Sherman (Wheeler County) during the afternoon hours of the 8th. While over the city, the thunderstorm produced hail up to the size of golf balls as reported by a trained storm spotter.

<b>WHEELER COUNTY --- 0.7 WSW SHAMROCK [35.21, -100.26], 0.7 NE SHAMROCK [35.23, -100.24]</b>				
	05/08/13 16:50 CST		0	Hail (1.75 in)
	05/08/13 16:55 CST		0	Source: Law Enforcement

A thunderstorm moved over the city of Sherman (Wheeler County) during the afternoon hours of the 8th. While over the city, the thunderstorm produced hail up to the size of golf balls as reported by law enforcement.

**The combination of a surface cold front stretched across the central Texas Panhandle and weak upper level divergence lead to the development of thunderstorms during the afternoon hours of the 8th. These thunderstorms intensified quickly in an area of modest instability and moderate deep layer shear. Once sufficiently organized, the thunderstorms advanced eastward ahead of the cold front producing scattered hail reports in Collingsworth and Wheeler Counties. As these thunderstorms entered western Oklahoma, they encountered a stronger capped environment. Without the additional forcing provided by the front they quickly diminished.**

<b>DONLEY COUNTY --- 5.0 SW HOWARDWICK [35.02, -100.98], 1.0 NW HOWARDWICK [35.08, -100.93]</b>				
	05/09/13 16:51 CST		0	Hail (0.88 in)
	05/09/13 16:57 CST		0	Source: Public

As a thunderstorm developed over Donley County, it produced nickel size hail 5 miles southwest of Howardwick (Donley County). This storm slowly moved to the northeast and began to quickly decay due to the inflow getting cut off by another developing thunderstorm to the south. Before dissipating this thunderstorm also produced pea size hail one mile northwest of Howardwick (Donley County).

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<b>DONLEY COUNTY --- 3.2 ESE ASHTOLA [34.98, -101.02], 2.7 E ASHTOLA [35.00, -101.02]</b>				
	05/09/13 17:02 CST		10K	Hail (1.75 in)
	05/09/13 17:12 CST		0	Source: Storm Chaser
<p>A thunderstorm developed over southern Donley County and slowly drifted to the south while intensifying. A storm chaser intercepted this thunderstorm as it crossed US Highway 287 5 miles west-southwest of Greenbelt Lake (Donley County). By that point the thunderstorm was producing copious amounts of hail up to golf ball size. Three to four inches of hail accumulation was estimated by the storm chaser on the highway. This created slick spots on US Highway 287 which caused a few motorists to lose control and swerve into the ditch. No injuries were reported with these accidents.</p>				
<b>GRAY COUNTY --- 1.9 NNE LEFORS [35.46, -100.81], 1.4 ESE LEFORS [35.42, -100.80]</b>				
	05/09/13 18:23 CST		0	Hail (1.75 in)
	05/09/13 18:28 CST		0	Source: Emergency Manager
<p>The merger of two discrete thunderstorms over central Gray County caused the production of hail from quarter to golf ball size. The Gray County Emergency Manager reported that the hail accumulated enough to cover the ground in the town of Lefors (Gray County). The merged storms slowly tracked to the south before dissipating over northern Donley County.</p>				
<b>GRAY COUNTY --- 1.3 ENE LEFORS [35.44, -100.80], 1.5 ESE LEFORS [35.42, -100.79]</b>				
	05/09/13 18:41 CST		0	Hail (1.75 in)
	05/09/13 18:44 CST		0	Source: Trained Spotter
<p>The merger of two discrete thunderstorms over central Gray County caused the production of hail from quarter to golf ball size. A trained storm spotter in Lefors (Gray County) reported golf ball hail in the city. The merged storms slowly tracked to the south before dissipating over northern Donley County.</p>				
<b>GRAY COUNTY --- 1.1 ENE LEFORS [35.43, -100.80], 1.1 E LEFORS [35.43, -100.80]</b>				
	05/09/13 18:51 CST		0	Hail (1.00 in)
	05/09/13 18:55 CST		0	Source: Emergency Manager
<p>A decaying thunderstorm from a prior storm merger produced quarter size hail 1 mile south of Lefors (Gray County) as reported by the Gray County Emergency Manager. Four inches of accumulated quarter size hail was also reported by the Gray County Emergency Manager on US Highway 273. This created slick road conditions, but no vehicle accidents were reported.</p>				
<b>POTTER COUNTY --- 3.7 ESE (AMA)AMARILLO INTL A [35.20, -101.66]</b>				
	05/09/13 19:46 CST		0	Thunderstorm Wind (EG 52 kt)
	05/09/13 19:47 CST		0	Source: Broadcast Media
<p>A collapsing thunderstorm produced a 60 mph wind gust. A storm chaser for a local broadcast media outlet observed this wind gust at the fork of US Highway 287 and Interstate 40 (Potter County). No damage or injuries were associated with this wind gust.</p>				
<p><b>An elongated mid-level trough positioned from the Midwest to the Baja Peninsula provided the large scale forcing to help numerous thunderstorms to develop during the afternoon and evening hours of the 9th. Residual surface outflow boundaries also provided low level forcing to allow developing thunderstorms obtain access to marginal to moderate elevated instability across the Texas Panhandle. However, the thunderstorms that developed across the southeastern Texas Panhandle had the more favorable environment for development thanks to a relative maximum of elevated instability and ample deep layer shear. Several reports of hail were relayed to the National Weather Service as thunderstorms moved across the southeastern Texas Panhandle with golf ball being the largest size given. While hail was the primary hazard for this event a 60 mph thunderstorm wind gust was observed in Potter County as the upper level trough axis rotated through the Texas Panhandle. Convection across the Texas Panhandle ended prior to 9 PM CST due to the upper level forcing progressing to the east.</b></p>				
<b>POTTER COUNTY --- 6.0 SW AMARILLO [35.14, -101.90]</b>				
	05/09/13 19:24 CST		0	Heavy Rain
	05/09/13 19:54 CST		0	Source: NWS Employee
<p>Thunderstorms developed over Amarillo shortly before 7:30 PM CST. These thunderstorms lasted for a half hour and produced brief heavy rain. A National Weather Service employee reported 0.47 inches of rain at their residence (Potter County).</p>				
<b>POTTER COUNTY --- 6.0 SW AMARILLO [35.14, -101.90]</b>				
	05/09/13 19:24 CST		0	Heavy Rain
	05/09/13 19:54 CST		0	Source: Broadcast Media
<p>Thunderstorms developed over Amarillo shortly before 7:30 PM CST. These thunderstorms lasted for a half hour and produced brief heavy rain. The KVII schoolnet site at Cornado Elementary School (Potter County) reported 0.83 inches of heavy rain in association with these thunderstorms. No reports of street flooding accompanied this report.</p>				

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>POTTER COUNTY --- 6.7 SW AMARILLO [35.14, -101.91]</b>				
	05/09/13 19:24 CST		0	Heavy Rain
	05/09/13 19:54 CST		0	Source: Broadcast Media
Thunderstorms developed over Amarillo shortly before 7:30 PM CST. These thunderstorms lasted for a half hour and produced brief heavy rain. The KVII schoolnet site at Bonham Middle School (Potter County) reported 0.50 inches of heavy rain in association with these thunderstorms. No reports of street flooding accompanied this report.				
<b>POTTER COUNTY --- AMARILLO [35.20, -101.82]</b>				
	05/09/13 19:24 CST		0	Heavy Rain
	05/09/13 19:54 CST		0	Source: Broadcast Media
Thunderstorms developed over Amarillo shortly before 7:30 PM CST. These thunderstorms lasted for a half hour and produced brief heavy rain. The KVII studio in downtown Amarillo (Potter County) reported 0.41 inches of heavy rain in association with these thunderstorms. No reports of street flooding accompanied this report.				
<b>RANDALL COUNTY --- 7.0 SW AMARILLO [35.13, -101.91]</b>				
	05/09/13 19:24 CST		0	Heavy Rain
	05/09/13 19:54 CST		0	Source: Public
Thunderstorms developed over Amarillo shortly before 7:30 PM CST. These thunderstorms lasted for a half hour and produced brief heavy rain. A total of 0.52 inches of precipitation was reported in southwest Amarillo (Randall County) by a member of the public.				
<p>An elongated mid-level trough positioned from the Midwest to the Baja Peninsula provided the large scale forcing to help numerous thunderstorms to develop during the afternoon and evening hours of the 9th. Residual surface outflow boundaries also provided low level forcing to allow developing thunderstorms obtain access to marginal to moderate elevated instability across the Texas Panhandle. While the Precipitable Water value on the 9th was about average for early May, several reports of heavy rain were reported in and around Amarillo (Potter and Randall County). This heavy rain led to localized flooding of flood prone roads across southern and central Amarillo (Potter and Randall County). Precipitation across the Texas Panhandle ended prior to 9 PM CST due to the upper level forcing progressing to the east.</p>				
<b>(TX-Z004) OCHILTREE, (TX-Z012) POTTER, (TX-Z017) RANDALL, (TX-Z018) ARMSTRONG</b>				
	05/18/13 01:59 CST		0	High Wind (MAX 60 kt)
	05/18/13 17:15 CST		0	
<p>During the early morning hours of the 18th multiple high wind gusts were reported across the southern Texas Panhandle. Light showers formed across southwestern Randall County around 1:30 AM CST in response to a weak upper level trough moving northeastward out of New Mexico. However, the atmosphere below the cloud bases was extremely dry and evaporated precipitation prior to reaching the ground. Just before 2 AM CST, these virga showers moved over Palo Duro State Park (Randall County) where the accelerated downward motion caused by evaporation produced a 69 mph non-thunderstorm wind gust. This wind gust was measured by the West Texas Mesonet site in the park. The showers moved to the northeast into Potter County, and crossed over the Amarillo International Airport (Potter County). While over the airport, the showers produced another 69 mph wind gust at 2:32 AM CST, which was measured by the National Weather Service ASOS. The showers moved into Gray County by 4 AM CST, and began to show signs of diminishing. As the showers collapsed over Pampa (Gray County) they produced high winds, and a member of the public reported several small trees had become uprooted at 4:30 AM CST. With the showers diminished no further reports of high winds were received through the rest of the morning hours.</p>				
<p>Showers redeveloped during the afternoon hours of the 18th as a stronger upper trough across New Mexico and Colorado approached the Texas Panhandle. The dry sub-cloud layer was still in place, and caused precipitation from these showers to evaporate prior to reaching the ground. The strengthened downward motion produced high wind damage 19 miles south of the city of Perryton (Ochiltree County) at 4:33 PM CST. The Ochiltree Sheriff's Office reported that power poles on US Highway 281 between County Road 70 and County Road 83 had been blown down onto the road. By 5:00 PM CST, the showers had moved east of Perryton before producing additional high wind damage. The Ochiltree Sherriff's Office reported that power poles along US Highway 377 between Count Road 20 and County Road 21 had been blown down onto the road. By 5:15 PM CST, the showers had moved over the Texas Department of Transportation AWOS site east-northeast of Perryton where a 58 mph wind gust was measured. Shortly after producing this gust, the showers dissipated as storm outflows from the Oklahoma Panhandle eliminated the inflow for these showers.</p>				
<b>RANDALL COUNTY --- 0.8 E CANYON [34.98, -101.91], 1.5 E CANYON [34.98, -101.89]</b>				
	05/21/13 07:02 CST		0	Thunderstorm Wind (MG 53 kt)
	05/21/13 07:05 CST		0	Source: Trained Spotter

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>A thunderstorm developed over southern Randall County during the mid-morning hours of the 21st. As the thunderstorm moved to the northeast it encountered a strongly sheared environment which toppled the storm structure. The core of the thunderstorm collapsed 1 mile east of the city of Canyon (Randall County) causing a 61 mph downburst. This downburst was measured by a trained storm spotter near the West Texas A&amp;M University Event Center.</p>				

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<b>RANDALL COUNTY --- 0.2 NE CANYON [34.98, -101.92], 2.6 ENE CANYON [34.99, -101.87]</b>	05/21/13 07:05 CST	15K	Thunderstorm Wind (EG 53 kt)
	05/21/13 07:07 CST	0	Source: Emergency Manager

A thunderstorm developed over southern Randall County during the mid-morning hours of the 21st. As the thunderstorm moved to the northeast it encountered a strongly sheared environment which toppled the storm structure. The core of the thunderstorm collapsed 1 mile east of the city of Canyon (Randall County) causing a dangerous cross wind on Interstate 27. This cross wind caused two semi-tractor trailers to be overturned. No injuries were reported in association with this damage, wind speed estimated from similar report in the area, and property damage values estimated.

**A vigorous low pressure system swept across the Great Plains during the early morning hours of the 21st. A shortwave trough rotated around the base of this system and helped initiate showers and thunderstorms over the southern Texas Panhandle. However, the forcing was not sufficient for this convection to overcome the strong nocturnal inversion and tap into the marginal elevated instability. The strong deep layer shear easily toppled developing thunderstorms which led to isolated downbursts as thunderstorms collapsed. The shortwave quickly moved to the east, shifting the favorable environment for development out of the Texas Panhandle by the late morning hours.**



*Image of the overturned tractor trailer off of Interstate 27. Picture provided by the Amarillo Emergency Manager.*

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**POTTER COUNTY --- 0.8 SSE AMARILLO [35.19, -101.82]**

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/21/13 07:02 CST		0	Heavy Rain
	05/21/13 09:12 CST		0	Source: NWS Employee

Brief heavy rain caused water to cover one lane of Osage Road south of Interstate 40 in Amarillo (Potter County), as reported by an off duty National Weather Service Employee. The water quickly receded once the rain stopped.

### RANDALL COUNTY --- 7.0 SW AMARILLO [35.13, -101.91]

05/21/13 07:02 CST	0	Heavy Rain
05/21/13 09:12 CST	0	Source: Public

A member of the public reported 0.46 inches of rain in quick bursts over the course of two and one half hour in southwest Amarillo (Randall County).

**A vigorous low pressure system swept across the Great Plains during the early morning hours of the 21st. A shortwave trough rotated around the base of this system and helped initiate showers and thunderstorms over the southern Texas Panhandle. However, the forcing was not sufficient for this convection to overcome the strong nocturnal inversion and tap into the marginal elevated instability. The strong deep layer shear easily toppled developing thunderstorms which led to brief periods of heavy rain. The water quickly receded once showers and thunderstorms ended over the city. The shortwave quickly moved to the east, shifting the favorable environment for development out of the Texas Panhandle by the late morning hours.**

### POTTER COUNTY --- 11.6 N AMARILLO [35.37, -101.85], 10.6 NNW (AMA)AMARILLO INTL A [35.36, -101.81]

05/23/13 16:36 CST	0	Hail (1.00 in)
05/23/13 16:38 CST	0	Source: Broadcast Media

A discrete thunderstorm developed over southern Moore County and moved to the southeast. As the storm moved to the southeast it entered Potter County and reached the northern city limits of Amarillo (Potter County). The thunderstorm produced 1 inch hail on US Highway 287 before having its inflow undercut by another thunderstorm. This thunderstorm quickly decayed and did not cause any further severe weather reports.

**Isolated thunderstorms developed over the south central Texas Panhandle during the late afternoon hours of the 23rd. Multiple surface boundaries, moderate elevated instability, and a weak midlevel shortwave proved insufficient to allow for thunderstorm initiation over the Texas Panhandle. Thunderstorm initiation occurred over Floyd County and the outflow from this thunderstorm gave the final bit of forcing needed to initiate two discrete thunderstorms, one over northern Potter and the other over southern Moore Counties. The thunderstorm over southern Moore County took a southeastern track which brought it to the northern city limits of Amarillo (Potter County). At the same time the northern Potter County thunderstorm took a northerly track, taking it into Moore County. The northerly track thunderstorm crossed behind the other thunderstorm and cut off the inflow to that thunderstorm. By this point the southeastern track storm had entered the northern city limits of Amarillo (Potter County). The Amarillo (Potter County) thunderstorm produced 1 inch hail on highway 287 before decaying due to its inflow being cut off by the other storm. The northern track thunderstorm moved into northern Moore County before decaying as well. No other thunderstorms developed due to the capping inversion strengthening after sunset.**

### DEAF SMITH COUNTY --- 8.4 W BOOTLEG [34.83, -102.96], 3.4 W BOOTLEG [34.83, -102.87]

05/25/13 19:19 CST	0	Hail (0.88 in)
05/25/13 19:20 CST	0	Source: Fire Department/Rescue

A line of thunderstorms moved out of eastern New Mexico and into the Texas Panhandle. As the storms moved over the city of Bootleg (Deaf Smith County), the fire department reported nickel size hail. The line moved quickly to the east, and only produced pea size hail.

### POTTER COUNTY --- 3.0 ENE BUSHLAND [35.19, -102.02], 5.1 E BUSHLAND [35.19, -101.98]

05/25/13 19:44 CST	0	Thunderstorm Wind (MG 53 kt)
05/25/13 19:46 CST	0	Source: Broadcast Media

A line of thunderstorms moved over the town of Bushland. This line encountered a stronger capped environment which caused the strongest cell to collapse. The outflow from this cell collapse was measured to be 61 mph by the KVII Schoolnet site in Bushland (Potter County). No thunderstorm wind damage was reported in associated with this gust. The outflow allowed thunderstorms to continue moving to the east but no further severe reports were received.

**Scattered thunderstorms developed over the eastern New Mexico Plains during the afternoon hours of the 25th. These storms developed along a dryline stretching from southern New Mexico to the central Oklahoma Panhandle. The low level convergence along the dryline allowed the storms to overcome low level capping inversions and tap into elevated instability that was in place across the Texas Panhandle. The thunderstorms moved to the east eventually becoming self-sustaining shortly after entering the southwestern Texas Panhandle. While over Oldham and Deaf Smith Counties these storms produced sub-severe hail across both counties. As the storms moved into Potter and Randall Counties, they encountered a more capped environment which caused the main thunderstorm to collapse. The cold pool created by this storm collapsed allowed thunderstorms to persist well into Potter and Randall Counties where reports of sub-severe hail and wind were reported to the National Weather Service in Amarillo (Potter County). A stronger capping inversion over Armstrong and Carson Counties quickly suppressed residual convection.**

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>(TX-Z016) DEAF SMITH</b>				
	05/25/13 20:34 CST		0	High Wind (MAX 50 kt)
	05/25/13 20:35 CST		0	
<p>A collapsing thunderstorm over Potter and Randall County sent an outflow boundary in all directions. To the west of the storm, the outflow boundary was measured to be 58 mph by the Texas Department of Transportation AWOS in Hereford (Deaf Smith County). No damage was reported in association of this outflow boundary.</p>				
<b>DONLEY COUNTY --- 0.2 WSW HOWARDWICK [35.07, -100.92], 2.2 NE HOWARDWICK [35.09, -100.89]</b>				
	05/26/13 19:59 CST		0	Hail (0.88 in)
	05/26/13 20:01 CST		0	Source: Storm Chaser
<p>An intensifying thunderstorm over the southern Texas Panhandle produced nickel size hail. A storm chaser reported this hail 3 miles north of the city of Howardwick (Donley County). No other information was given with this report.</p>				
<b>DONLEY COUNTY --- 3.4 E JERICHO [35.17, -100.86], 4.5 ENE JERICHO [35.18, -100.84]</b>				
	05/26/13 20:30 CST		0	Hail (1.75 in)
	05/26/13 20:31 CST		0	Source: Public
<p>A group of people traveling east on Interstate 40 encountered a decaying thunderstorm. At the US Highway 70 exit the group witnessed the thunderstorm producing golf ball size hail. No information as to whether there was damage to their vehicle or if any other damage was caused by this hail was given.</p> <p>During the afternoon hours of the 26th, a dryline had progressed into the central Texas Panhandle. The surface convergence along this dryline allowed an isolated thunderstorm to initiate despite marginal low level capping over eastern Armstrong and Carson Counties. The thunderstorm began moving to the east northeast along the county lines having sufficiently intensified to allow access to moderate elevated instability in place over the Texas Panhandle. A storm chaser observed sub-severe hail north of Howardwick (Donley County). As the thunderstorm continued to move across the county it began to encounter a stronger lower level capping inversion. This stronger inversion weakened the updraft and the thunderstorm started to decay. At this point the largest hail produced from this storm was reported southeast of Lake McClellan (Gray County) by a group traveling along Interstate 40. By 9 PM CST, the remnants of this thunderstorm were no longer visible on radar.</p>				
<b>RANDALL COUNTY --- 5.1 SSW AMARILLO [35.13, -101.85]</b>				
	05/28/13 15:33 CST		0	Thunderstorm Wind (MG 53 kt)
	05/28/13 15:34 CST		0	Source: Broadcast Media
<p>Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The KVII Schoolnet site at Duke Electric (Randall County) reported a 61 mph gust as a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.</p>				
<b>POTTER COUNTY --- (AMA)AMARILLO INTL A [35.22, -101.72]</b>				
	05/28/13 15:46 CST		0	Thunderstorm Wind (MG 50 kt)
	05/28/13 15:48 CST		0	Source: ASOS
<p>Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city of Amarillo (Potter and Randall County). The National Weather Service ASOS in Amarillo (Potter County) reported a 58 mph downburst as a thunderstorm moved overhead. The Thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.</p>				
<b>POTTER COUNTY --- 3.5 ENE BUSHLAND [35.19, -102.01]</b>				
	05/28/13 15:52 CST		0	Thunderstorm Wind (MG 52 kt)
	05/28/13 15:55 CST		0	Source: Broadcast Media
<p>Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts over the city of Bushland (Potter County). The KVII Schoolnet site at the Oasis RV Resort 3 miles east of Bushland (Potter County) reported a gust of 60 mph as a thunderstorm moved over head. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.</p>				
<b>RANDALL COUNTY --- 4.7 WNW TIMBERCREEK CANYON [35.07, -101.90]</b>				
	05/28/13 15:57 CST		0	Thunderstorm Wind (MG 60 kt)
	05/28/13 15:58 CST		0	Source: Broadcast Media

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The KVII schoolnet site at Midway Alternative High School (Randall County) reported a 69 mph gust while a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.</p>				
<b>POTTER COUNTY --- 5.7 W AMARILLO [35.20, -101.92]</b>				
	05/28/13 15:59 CST		0	Thunderstorm Wind (MG 50 kt)
	05/28/13 16:00 CST		0	Source: Broadcast Media
<p>Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The KVII Schoolnet site at the Northwest Texas Hospital reported a gust of 58 mph as a thunderstorm moved overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.</p>				
<b>POTTER COUNTY --- 0.9 NE (AMA)AMARILLO INTL A [35.23, -101.71]</b>				
	05/28/13 16:00 CST		0	Thunderstorm Wind (MG 54 kt)
	05/28/13 16:01 CST		0	Source: ASOS
<p>Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The National Weather Service ASOS in Amarillo (Potter County) reported a 62 mph gust as a thunderstorm moved over head. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.</p>				
<b>RANDALL COUNTY --- 5.3 SW AMARILLO [35.15, -101.89]</b>				
	05/28/13 16:00 CST		10K	Thunderstorm Wind (EG 56 kt)
	05/28/13 16:02 CST		0	Source: NWS Employee
<p>Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. As a thunderstorm moved over the residence of an off duty National Weather Service employee in southwestern Amarillo (Randall County) tree limbs from three to seven inches in diameter were blown off. The damage was caused by a localized downburst estimated to be 65 mph. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No injuries were associated with this gust.</p>				
<b>RANDALL COUNTY --- 3.1 SW AMARILLO [35.17, -101.86]</b>				
	05/28/13 16:16 CST		10M	Thunderstorm Wind (EG 56 kt)
	05/28/13 16:18 CST		0	Source: Emergency Manager
<p>Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. One such thunderstorm produced a downburst which snapped two power poles at the intersection of Washington Street and Farmers Road (Randall County). The Amarillo Emergency Manager (Potter and Randall County) relayed the report of damage and the Amarillo Police department were deployed to block off traffic in that area. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No injuries were associated with this gust.</p>				
<b>RANDALL COUNTY --- 1.1 W CANYON [34.98, -101.94]</b>				
	05/28/13 16:18 CST		10M	Thunderstorm Wind (EG 52 kt)
	05/28/13 16:19 CST		0	Source: Broadcast Media
<p>Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. One such thunderstorm produced a localized downburst which downed power poles on US Highway 60 west of the city of Canyon (Randall County). The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No injuries were associated with this gust.</p>				
<b>ARMSTRONG COUNTY --- 1.1 W WASHBURN [35.18, -101.60]</b>				
	05/28/13 16:20 CST		0.50M	Thunderstorm Wind (EG 52 kt)
	05/28/13 16:21 CST		0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>A decaying thunderstorm produced a localized downburst on US Highway 287 about 5 miles east of the Interstate 40 and US Highway 287 split (Armstrong County). A tractor trailer that was traveling on US Highway 287 was hit by this downburst and was blown over. No Injuries were relayed with this report from the Armstrong County Emergency Manager.</p>				

**HANSFORD COUNTY --- 1.4 NW GRUVER [36.28, -101.42], 1.8 N GRUVER [36.30, -101.40]**

05/28/13 16:27 CST		0	Hail (1.00 in)
05/28/13 16:29 CST		0	Source: Law Enforcement

An old outflow boundary helped to initiate a thunderstorm near Gruver (Hansford County). This thunderstorm produced quarter size hail 2 miles north of Gruver as reported by law enforcement.

**POTTER COUNTY --- 1.8 WSW AMARILLO [35.19, -101.85]**

05/28/13 16:28 CST		0	Thunderstorm Wind (MG 50 kt)
05/28/13 16:29 CST		0	Source: Broadcast Media

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The KVII schoolnet site at Amarillo College (Potter County) reported a 58 mph wind gust as a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.

**POTTER COUNTY --- (AMA)AMARILLO INTL A [35.22, -101.72]**

05/28/13 16:36 CST		0	Thunderstorm Wind (MG 50 kt)
05/28/13 16:37 CST		0	Source: ASOS

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The Amarillo (Potter County) ASOS reported a 58 mph gust while a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.

**POTTER COUNTY --- (AMA)AMARILLO INTL A [35.22, -101.72]**

05/28/13 16:44 CST		0	Thunderstorm Wind (MG 50 kt)
05/28/13 16:46 CST		0	Source: ASOS

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The Amarillo ASOS (Potter County) reported a 58 mph wind gust as a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.

**POTTER COUNTY --- 3.1 NW AMARILLO [35.23, -101.86]**

05/28/13 16:44 CST		0	Thunderstorm Wind (MG 53 kt)
05/28/13 16:45 CST		0	Source: Broadcast Media

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The KVII Schoolnet site at Carver Elementary (Potter County) reported a gust of 61 mph while a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.

**OCHILTREE COUNTY --- 1.3 WSW PERRYTON MUNI ARPT [36.39, -100.77]**

05/28/13 16:56 CST		0	Thunderstorm Wind (EG 52 kt)
05/28/13 16:57 CST		0	Source: Trained Spotter

A decaying thunderstorm produced a localized downburst on the east side of the city of Perryton (Ochiltree County). A trained spotter estimated the downburst to be near 60 mph. The downburst also caused a brief drop in visibility due to dust being kicked up. No injuries or damage was associated with this report.

**POTTER COUNTY --- 1.1 E AMARILLO [35.20, -101.80]**

05/28/13 16:57 CST		10M	Thunderstorm Wind (EG 55 kt)
05/28/13 16:59 CST		0	Source: Emergency Manager

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. While a thunderstorm was over the intersection of 6th Ave and Osage Road a roof was blown off a metal building due to a downburst. The Amarillo (Potter and Randall County) Emergency Manager reported this damage. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No injuries were associated with this gust.				

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### POTTER COUNTY --- 2.3 E AMARILLO [35.20, -101.78]

05/28/13 16:57 CST			1M	Thunderstorm Wind (EG 54 kt)
05/28/13 16:59 CST			0	Source: Emergency Manager

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. One such downburst blew down powerlines in the fairgrounds area of Amarillo (Potter County). The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No injuries were associated with this gust.

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### RANDALL COUNTY --- 5.1 SSW AMARILLO [35.13, -101.85]

05/28/13 16:57 CST			0	Thunderstorm Wind (MG 57 kt)
05/28/13 16:59 CST			0	Source: Broadcast Media

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The KVII Schoolnet site at Duke Electric (Randall County) reported a gust of 66 mph while a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.

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### POTTER COUNTY --- 0.9 NE (AMA)AMARILLO INTL A [35.23, -101.71]

05/28/13 17:02 CST			0	Thunderstorm Wind (MG 52 kt)
05/28/13 17:04 CST			0	Source: ASOS

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The Amarillo ASOS (Potter County) reported a gust of 60 mph while a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.

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### POTTER COUNTY --- 0.9 NE (AMA)AMARILLO INTL A [35.23, -101.71]

05/28/13 17:05 CST			0	Thunderstorm Wind (MG 57 kt)
05/28/13 17:07 CST			0	Source: ASOS

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The Amarillo ASOS (Potter County) reported a 66 mph gust while a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.

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### POTTER COUNTY --- 1.7 W AMARILLO [35.20, -101.85]

05/28/13 17:05 CST			0	Thunderstorm Wind (MG 56 kt)
05/28/13 17:06 CST			0	Source: Broadcast Media

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The KVII Schoolnet site at St. Mary's School reported a 64 mph gust while a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.

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### POTTER COUNTY --- 4.0 ENE (AMA)AMARILLO INTL A [35.25, -101.66]

05/28/13 17:06 CST			0	Thunderstorm Wind (MG 50 kt)
05/28/13 17:07 CST			0	Source: Broadcast Media

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The KVII Schoolnet site at Highland Park High School reported a 58 mph gust while a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.

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### POTTER COUNTY --- 5.0 NW AMARILLO [35.26, -101.87]

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/28/13 17:09 CST		0	Thunderstorm Wind (MG 53 kt)
	05/28/13 17:10 CST		0	Source: Broadcast Media

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The KVII Schoolnet site at Nustar Energy reported a 61 mpg gust while a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.

### POTTER COUNTY --- 5.1 W AMARILLO [35.20, -101.91]

	05/28/13 17:11 CST		0	Thunderstorm Wind (MG 52 kt)
	05/28/13 17:12 CST		0	Source: Broadcast Media

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The KVII schoolnet site at the Discovery Center (Potter County) reported a gust of 60 mph while a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.

### POTTER COUNTY --- 0.9 NE (AMA)AMARILLO INTL A [35.23, -101.71]

	05/28/13 17:13 CST		0	Thunderstorm Wind (MG 57 kt)
	05/28/13 17:14 CST		0	Source: ASOS

Thunderstorms formed along a dryline stretching east-northeastward across Randall and Potter Counties during the afternoon hours of the 28th. These thunderstorms would take a northeast track which allowed them to move over the dryline. This caused the thunderstorms to produce isolated downbursts across the city. The Amarillo ASOS (Potter County) reported a 66 mph wind gust as a thunderstorm was overhead. The thunderstorm decayed quickly after moving to the dry side of the dryline due to ingesting much drier air into the updrafts. No damage or injuries were associated with this gust.

### DEAF SMITH COUNTY --- 6.8 W BOOTLEG [34.82, -102.93], 4.0 W BOOTLEG [34.84, -102.88]

	05/28/13 17:42 CST		0	Hail (2.50 in)
	05/28/13 17:43 CST		0	Source: Trained Spotter

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. A trained storm spotter reported baseball size hail 5 miles west of Bootleg (Deaf Smith County). The supercell continued traveling in a northeastern direction which took it out of the county shortly after 10 pm. No injuries were relayed with this report.

### DEAF SMITH COUNTY --- 9.0 WSW BOOTLEG [34.79, -102.96], 6.9 WSW BOOTLEG [34.79, -102.92]

	05/28/13 17:45 CST		0	Tornado (EF0, L: 2.14 mi , W: 75 yd)
	05/28/13 17:50 CST		0	Source: NWS Storm Survey

A discrete supercell thunderstorm produced a brief tornado southwest of Bootleg (Deaf Smith County) during the evening hours of the 28th. Several eye witnesses reported this tornado and submitted pictures. A National Weather Service survey team located the path of this tornado and verified that the tornado was very narrow which matched the description of a rope tornado given by one eye witness. The max wind estimated with this tornado was 70 mph. The tornado remained over undeveloped grasslands and produced little damage. No injuries or fatalities were associated with this tornado.

### DEAF SMITH COUNTY --- 8.7 W BOOTLEG [34.82, -102.96], 4.6 W BOOTLEG [34.84, -102.89]

	05/28/13 17:55 CST		0	Hail (1.75 in)
	05/28/13 17:56 CST		0	Source: Trained Spotter

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. A trained storm spotter reported golfball size hail 6 miles west of Bootleg (Deaf Smith County). The supercell continued traveling in a northeastern direction which took it out of the county shortly after 10 pm. No injuries were relayed with this report.

### DEAF SMITH COUNTY --- 2.2 NW WALCOTT [34.95, -102.86], 5.3 NE WALCOTT [34.99, -102.77]

	05/28/13 19:00 CST		0	Hail (2.00 in)
	05/28/13 19:02 CST		0	Source: NWS Employee

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. An off duty National Weather Service employee reported tennis ball size hail 10 miles north of Bootleg (Deaf Smith County). The supercell continued traveling in a northeastern direction which took it out of the county shortly after 10 pm. No injuries were relayed with this report.

### DEAF SMITH COUNTY --- 6.7 NNE WALCOTT [35.02, -102.81], 5.6 W SIMMS [35.04, -102.76]

	05/28/13 19:18 CST		0	Hail (1.25 in)
	05/28/13 19:20 CST		0	Source: Storm Chaser

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. A trained storm spotter reported half dollar size hail 7 miles west of Simms (Deaf Smith County). The hail accumulated up to 2 inches deep in some spots. The supercell continued traveling in a northeastern direction which took it out of the county shortly after 10 pm. No injuries were relayed with this report.

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**DEAF SMITH COUNTY --- 2.6 NW SIMMS [35.05, -102.70], 2.7 NNE SIMMS [35.07, -102.64]**

05/28/13 19:32 CST		0	Hail (1.50 in)
05/28/13 19:34 CST		0	Source: Storm Chaser

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. A storm chaser reported ping pong ball size hail 15 miles south of Adrian (Deaf Smith County). The supercell continued traveling in a northeastern direction which took it out of the county shortly after 10 pm. No injuries were relayed with this report.

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**DEAF SMITH COUNTY --- 3.9 E SIMMS [35.03, -102.59], 6.1 E SIMMS [35.03, -102.55]**

05/28/13 19:47 CST		0	Hail (2.00 in)
05/28/13 19:50 CST		0	Source: Emergency Manager

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The Deaf Smith County Emergency Manager reported tennis ball size hail 5 miles east of Simms (Deaf Smith County). The hail clogged drainage systems close to the road and caused some of the fields to flood. The supercell continued traveling in a northeastern direction which took it out of the county shortly after 10 pm. No injuries were relayed with this report.

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**DEAF SMITH COUNTY --- 6.8 NW WALCOTT [34.99, -102.92], 7.3 NNW WALCOTT [35.02, -102.90]**

05/28/13 20:06 CST		0	Tornado (EF0, L: 2.06 mi , W: 150 yd)
05/28/13 20:11 CST		0	Source: NWS Storm Survey

A discrete supercell thunderstorm produced a tornado over northwest Deaf Smith County during the evening hours on the 28th. An eye witness on County Road RR west of Simms (Deaf Smith County) reported seeing the thunderstorm produce a funnel cloud which touched down, widened quickly, shrunk, and then lifted off the ground. A National Weather Service survey team located the path of this brief tornado and found that the tornado traveled a little over 2 miles in the 5 minutes it was connected with the ground. The max wind speed was estimated to be 80 mph. No injuries or fatalities were associated with this tornado.

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**OLDHAM COUNTY --- 3.9 SSW VEGA [35.20, -102.45], 3.4 SSE VEGA [35.20, -102.41]**

05/28/13 21:31 CST		0	Hail (0.88 in)
05/28/13 21:32 CST		0	Source: Law Enforcement

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. A Vega (Deaf Smith County) Police Officer reported nickle size hail 3 miles south of Vega. The supercell continued traveling in a northeastern direction which took it out of the county shortly after 10 pm. No injuries were relayed with this report.

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**DEAF SMITH COUNTY --- 12.5 NNW MILO CENTER [35.15, -102.46], 12.7 N MILO CENTER [35.16, -102.41]**

05/28/13 21:36 CST		0	Hail (1.75 in)
05/28/13 21:38 CST		0	Source: Law Enforcement

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. A Vega (Deaf Smith County) Police Officer reported golf ball size hail 6 miles south of Vega. The supercell continued traveling in a northeastern direction which took it out of the county shortly after 10 pm. No injuries were relayed with this report.

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**OLDHAM COUNTY --- 5.4 W WILDORADO [35.21, -102.30], 2.0 NNW WILDORADO [35.23, -102.21]**

05/28/13 22:03 CST		0	Hail (1.75 in)
05/28/13 22:05 CST		0	Source: Law Enforcement

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. A Wildorado (Oldham County) Police Officer reported golf ball size hail near the city of Wildorado. The supercell continued traveling in a northeastern direction which took it out of the county shortly after 10 pm. No injuries were relayed with this report.

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**OLDHAM COUNTY --- 4.3 WNW WILDORADO [35.22, -102.27], 1.9 NNW WILDORADO [35.22, -102.22]**

05/28/13 22:09 CST		0	Hail (1.75 in)
05/28/13 22:12 CST		0	Source: Trained Spotter

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. A trained storm spotter reported golf ball size hail near the town of Wildorado (Oldham County). The supercell continued traveling in a northeastern direction which took it out of the county shortly after 10 pm. No injuries were relayed with this report.

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>RANDALL COUNTY --- 13.8 N UMBARGER [35.15, -102.11], 13.5 W AMARILLO [35.18, -102.06]</b>				
	05/28/13 22:11 CST		10M	Hail (2.75 in)
	05/28/13 22:17 CST		0	Source: Emergency Manager
<p>A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. This supercell produced baseball size hail as it moved across the southern portion of Bushland (Randall County). The hail caused damage to structures and damaged power transformers which put off power flashes that the Bushland Emergency Manager reported. The supercell continued traveling in a northeastern direction which took it away from Bushland.</p>				
<b>POTTER COUNTY --- 3.6 WSW AMARILLO [35.19, -101.88], 3.3 W AMARILLO [35.19, -101.88]</b>				
	05/28/13 22:35 CST		0.10M	Hail (1.75 in)
	05/28/13 22:38 CST		0	Source: Amateur Radio
<p>A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. An amateur radio operator at the Western Crossings shopping center reported golf ball size hail. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.</p>				
<b>POTTER COUNTY --- 5.9 W AMARILLO [35.18, -101.92], 5.6 W AMARILLO [35.19, -101.92]</b>				
	05/28/13 22:38 CST		0.50M	Hail (1.75 in)
	05/28/13 22:43 CST		0	Source: Storm Chaser
<p>A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. A storm chaser at the intersection of Interstate 40 and Coulter Street reported golf ball size hail as the storm crossed their location. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.</p>				
<b>RANDALL COUNTY --- 7.3 WSW AMARILLO [35.16, -101.94], 7.0 WSW AMARILLO [35.16, -101.94]</b>				
	05/28/13 22:38 CST		50M	Hail (1.25 in)
	05/28/13 22:45 CST		0	Source: Amateur Radio
<p>A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. An amateur radio operator at the intersection of Soncy Road and 45th Ave reported half dollar size hail. Approximately 300 vehicles suffered hail damage at Street Toyota on the western side of this intersection and the adjacent neighborhood suffered varying degrees of roof damage. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.</p>				
<b>POTTER COUNTY --- 5.5 NW AMARILLO [35.26, -101.89], 5.7 NW AMARILLO [35.27, -101.88]</b>				
	05/28/13 22:39 CST		0.10M	Hail (1.75 in)
	05/28/13 22:46 CST		0	Source: Emergency Manager
<p>A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. The Amarillo Emergency Manager reported golf ball size hail at the intersection of Western Street and Loop 335 (Potter County). Motorist took shelter from the hail under the overpass. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.</p>				
<b>POTTER COUNTY --- 7.0 WSW AMARILLO [35.17, -101.94], 6.6 WSW AMARILLO [35.18, -101.93]</b>				
	05/28/13 22:40 CST		0.20B	Hail (2.75 in)
	05/28/13 22:51 CST		0	Source: Trained Spotter
<p>A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. A trained storm spotter at the intersection of 34th Ave and Soncy Road (Randall County) reported that baseball size hail had broken out the windows of 7 Bar and Grill. Several business and residential homes near this intersection suffered broken window, roof damage, and hundreds of vehicles at Gene Messer Ford of Amarillo suffered varying degrees of hail damage. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.</p>				
<b>RANDALL COUNTY --- 6.1 WSW AMARILLO [35.17, -101.92], 5.9 WSW AMARILLO [35.18, -101.92]</b>				
	05/28/13 22:41 CST		5M	Thunderstorm Wind (EG 52 kt)
	05/28/13 22:43 CST		0	Source: NWS Employee

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. As this supercell thunderstorm moved over the Windtree Apartment complex it produced a localized downburst which split a 3 foot diameter tree in two. The southward split portion of the tree fell onto southward facing apartments and broke windows and skylights of these apartments. No injuries were reported with this damage.

**POTTER COUNTY --- 0.9 WSW AMARILLO [35.20, -101.83], 0.6 W AMARILLO [35.20, -101.83]**

05/28/13 22:45 CST		10M	Hail (1.25 in)
05/28/13 22:55 CST		0	Source: Public

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. A member of the public reported a mix of quarter to half dollar fell at their residence and was enough to cover the yard. The hail also caused varying degrees of roof and vehicle damage. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.

**POTTER COUNTY --- 0.9 WSW AMARILLO [35.20, -101.83], 0.6 W AMARILLO [35.20, -101.83]**

05/28/13 22:47 CST		0.50M	Hail (1.00 in)
05/28/13 22:56 CST		0	Source: Public

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. A member of the public reported quarter size hail at their residence. This hail caused varying degrees of damage to roofs and vehicles. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.

**RANDALL COUNTY --- 6.7 WSW AMARILLO [35.18, -101.93], 5.9 W AMARILLO [35.19, -101.92]**

05/28/13 22:47 CST		10M	Hail (1.75 in)
05/28/13 22:56 CST		0	Source: NWS Employee

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. An off duty National Weather Service employee reported golf ball size hail at their residence. This hail caused damage to neighboring homes and vehicles. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.

**POTTER COUNTY --- 3.0 WSW AMARILLO [35.18, -101.87], 2.6 WSW AMARILLO [35.19, -101.86]**

05/28/13 22:50 CST		50M	Hail (1.50 in)
05/28/13 23:00 CST		0	Source: Public

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. A member of the public reported ping pong ball size hail near the intersection of 26th Ave and Georgia (Randall County). This hail caused damage to residential homes and business. A skylight on a residential home was broken by the hail. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.

**POTTER COUNTY --- 0.3 SW AMARILLO [35.20, -101.82], 0.2 NE AMARILLO [35.20, -101.82]**

05/28/13 22:51 CST		0.50M	Hail (0.88 in)
05/28/13 23:00 CST		0	Source: Trained Spotter

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. A trained spotter near the intersection of 10th Ave and Williams Street (Potter County) reported nickel size hail. This hail produces minor damage to vehicles and roofs in the area. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.

**POTTER COUNTY --- 3.9 NNW AMARILLO [35.25, -101.84], 4.3 N AMARILLO [35.26, -101.83]**

05/28/13 22:52 CST		1M	Hail (1.25 in)
05/28/13 23:00 CST		0	Source: Amateur Radio

A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. An amateur radio operator near the intersection of Central Ave and US Highway 87 reported half dollar size hail covering the ground. Several residential homes suffered varying degrees of damage to roofs. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>POTTER COUNTY --- 2.9 NW (AMA)AMARILLO INTL A [35.25, -101.75], 3.5 NNW (AMA)AMARILLO INTL A [35.27, -101.74]</b>				
	05/28/13 23:00 CST		1M	Hail (1.75 in)
	05/28/13 23:10 CST		0	Source: Public
<p>A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. As the supercell moved across the northeastern portion of Amarillo (Potter County), several motorists sought cover from golf ball size hail under the overpass at Fritch Highway and Loop 335. Residential homes near this intersection suffered varying degrees of damage from the hail. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.</p>				
<b>POTTER COUNTY --- 0.9 NE (AMA)AMARILLO INTL A [35.23, -101.71], 1.7 NNE (AMA)AMARILLO INTL A [35.24, -101.70]</b>				
	05/28/13 23:05 CST		0.15M	Hail (1.00 in)
	05/28/13 23:14 CST		0	Source: NWS Employee
<p>A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. The supercell brought a mix of pea to quarter size hail to the National Weather Service office (Potter County). The hail nearly covered the ground and caused minor damage to vehicles of employees. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.</p>				
<b>POTTER COUNTY --- 0.8 WSW AMARILLO [35.20, -101.83], 0.3 NNE AMARILLO [35.20, -101.82]</b>				
	05/28/13 23:14 CST		0.10B	Hail (1.75 in)
	05/28/13 23:21 CST		0	Source: Trained Spotter
<p>A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. A trained storm spotter in downtown Amarillo (Potter County) reported golf ball size hail covering the ground as the supercell moved through the area. This hail caused varying degrees of damage to residential homes, businesses, and vehicles in the area. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.</p>				
<b>POTTER COUNTY --- 5.9 W AMARILLO [35.19, -101.92], 5.5 W AMARILLO [35.21, -101.92]</b>				
	05/28/13 23:15 CST		50M	Hail (1.00 in)
	05/28/13 23:24 CST		0	Source: Public
<p>A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. A member of the public at Northwest Texas Hospital (Potter County) reported quarter size hail on Coulter Street in front of the hospital. The hail had accumulated to a foot deep on the road. This hail caused varying degrees of damage to vehicles and roofs in the area. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.</p>				
<b>POTTER COUNTY --- 0.6 NE (AMA)AMARILLO INTL A [35.23, -101.71], 1.4 NNE (AMA)AMARILLO INTL A [35.24, -101.71]</b>				
	05/28/13 23:30 CST		1M	Hail (1.25 in)
	05/28/13 23:39 CST		0	Source: NWS Employee
<p>A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell entered the city limits of Amarillo during the late night hours of the 28th. This supercell thunderstorm produced copious amounts of large destructive hail across the city. The supercell produced a mixture of pea to half dollar size hail at the National Weather Service office. This hail caused varying degrees of damage to vehicles and structures in the area. The supercell continued traveling in a northeastern direction which took it out of the Amarillo city limits shortly before midnight on the 29th.</p>				
<b>CARSON COUNTY --- 1.0 SW PANHANDLE [35.34, -101.39], 0.6 NE PANHANDLE [35.36, -101.37]</b>				
	05/28/13 23:53 CST		0	Hail (1.00 in)
	05/28/13 23:55 CST		0	Source: Law Enforcement
<p>A supercell thunderstorm that developed along a retreating dryline in Deaf Smith and Oldham Counties tracked to the northeast across the southern Texas Panhandle. The supercell neared the city of Panhandle (Carson County) where it produced quarter size hail. Law Enforcement officials in Panhandle reported the hail. The supercell quickly moved to the northeast and weakened slightly. No damage or injuries were associated with this report.</p>				
<p><b>A severe weather outbreak brought hail, damaging winds, tornadoes, and flash flooding to the Panhandles from the afternoon of the 28th into the early morning hours of the 29th. The morning upper air analysis on the 28th showed a mid-level shortwave trough rotating around the base of a longwave trough situated from Idaho to Arizona. At the surface, a dryline was situated from the northeastern Oklahoma Panhandle to the southwestern Texas Panhandle. The 6 AM CST upper air sounding from Amarillo showed a low level capping inversion with significant elevated instability. Also deep layer shear was primed for the development of discrete supercells. On the 12</b></p>				

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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PM CST sounding, instability values had increased further. By noon, the northern portion of the dryline had moved into south central Kansas before stretching back into the southwestern Texas Panhandle.

By the late afternoon, across Potter and Randall Counties, the dryline had advanced into the western portions of both counties allowing showers and thunderstorms, which moved northeastward along dryline, to produce damaging wind gusts in the Amarillo (Potter and Randall County) area. These thunderstorm wind gusts blew a communication tower and billboard down at the Texas Blue Lake Pools in Amarillo (Randall County). Also a main communication tower for High Plains Radio was damaged which ended the broadcast for several of their across the Texas Panhandle radio stations. The Amarillo Police Department blocked off an area near the intersection of Osage Road and SE 27th Ave due to downed power lines and debris. As the dryline moved into the eastern portions of Potter and Randall Counties during the early evening, thunderstorms over the Amarillo area were cut off from moist inflows and decayed quickly. The extremely dry near surface air evaporated precipitation from the decaying storms causing non-thunderstorm high winds across the Amarillo area. These high winds blew the roof off the River Road ISD field house (Randall County) and downed power lines across the city. Xcel Energy reported nearly 6500 people lost power from the combination of thunderstorm and non-thunderstorm wind gusts, and 4000 people would remain without power until the 29th as power lines and poles were repaired or replaced.

During the late evening the dryline began to retreat westward as the nocturnal low level jet transported moisture from the Gulf of Mexico northwestward. As the dryline retreated across Oldham and Deaf Smith Counties, a near stationary discrete supercell formed and produced two short lived tornadoes in Deaf Smith County. These tornadoes formed over grasslands, and produced little damage. As the dryline continued to retreat to the west, the supercell took a northeastward track producing hail up to the size of hen eggs across Deaf Smith and Oldham Counties and produced several funnel clouds.

The storm continued to produce large hail and funnel clouds as it moved into Potter and Randall Counties. This large hail broke out skylights, broke windshields, busted out windows of portables, and damaged work vehicles at schools within the Bushland (Randall County) ISD. As the supercell approached the western portion of Amarillo (Randall and Potter County) several members of the public reported funnel clouds. Video evidence of one such funnel cloud showed the cloud lowering near to the ground, but no physical evidence of a touchdown was able to be identified by National Weather Service survey teams.

What this supercell did produce across Amarillo (Potter and Randall County) was copious amounts of destructive hail up to the size of baseballs and heavy rain. The City of Amarillo reported that 225 of its work vehicles had some form of hail damage with an estimated repair cost between \$2000 and \$8500. The City Building Safety Director reported approximately 75 percent of homes around the city suffered hail damage of varying degrees. The Amarillo Botanical Gardens suffered massive damage to plants across the four acre property totaling in thousands of dollars of damage. The hail also damaged a greenhouse in the rear portion of the property. The accumulation of hail and heavy rain also flooded the Garden's gallery while the strong winds blew a portion of the perimeter fencing down. Gene Messer Ford and AutoNation Chevrolet-Cadillac reported between 300 and 400 vehicles damaged from the hail with Gene Messer Ford estimating the damage to be between 3 and 4 million dollars. The total estimated of repair cost across the city of Amarillo (Randall and Potter Counties) is near \$400 million dollars which dwarfs the June 21, 2004 hail storm which cost the city \$175 million dollars.

The supercell continued traveling to the northeast entering into Carson County. Upon entering the county the supercell encountered an increasing unfavorable environment as the nocturnal inversion strengthened. However, before the dissipating the thunderstorm was able to produce quarter size hail in the city of Panhandle (Carson County). The remnants of the supercell proceeded to move to the northeast until dissipating over southern Kansas.

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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*Picture of tornado 9 miles west of Simms (Deaf Smith County). Picture provided by Adam Ball.*

(TX-Z004) OCHILTREE, (TX-Z007) MOORE, (TX-Z012) POTTER	05/28/13 17:15 CST	0	High Wind (MAX 68 kt)
	05/29/13 02:19 CST	0	

Several high wind gusts were observed between the afternoon hours of the 28th and the early morning hours of the 29th. A dryline was situated across the western portions of Potter and Randall Counties with storms east of this dryline. As the dryline moved into the east during the early evening, storms over the Amarillo area were cut off from moist inflows and decayed quickly. The extremely dry near surface air behind the dryline evaporated precipitation beneath these decaying storms leading to high winds from 5:15 PM CST to 6:26 PM CST across Potter County. The accelerated downward motion cause a sustain 58 mph wind and 71 mph gust at the Amarillo ASOS (Potter County), which was the second highest non-thunderstorm wind gust for the day. A resident 9 miles east of Amarillo (Potter County) reported a completely destroyed barn roof and a second damaged bar roof around the same time the 71 mph gust was reported by the Amarillo ASOS. On the north side of Amarillo (Potter County), a member of the public reported that the roof on a building next to the Dollar Tree on Amarillo Boulevard was lifted during a high wind gust. This gust was estimated to be near 64 mph. The KVII Schoolnet site at De Zavala Middle School (Potter County) reported a 63 mph gusts at 5:57 PM CST. The Amarillo Emergency Manager reported that the high winds blew the roof off the River Road ISD field house (Randall County) and downed power lines across the city. Xcel Energy reported nearly 6500 people lost power from the combination of thunderstorm and non-thunderstorm wind gusts on the 28th, and 4000 people would remain without power until the 29th as power lines and poles were repaired or replaced.

The outflow from decaying storms over Amarillo coupled with the retreating dryline to cause an isolated high wind gust in Dumas (Moore County). The Texas Department of Transportation AWOS reported a non-thunderstorm gust of 59 mph shortly before 9 PM CST. This same combination would lead to another non-thunderstorm gust in Perryton (Ochiltree County) around 2:18 AM CST. However, the decaying storm that approached the Perryton AWOS was the former supercell which brought a swath of hail up to baseball size from Deaf Smith County to Carson County. The collapse of that storm provided a much greater downward motion than what occurred in Dumas (Moore County), which is why it was the highest non-thunderstorm wind gust for the day at 78 mph. After this occurred, the nocturnal inversion strengthen sufficiently to prevent any further high wind gusts across the Texas Panhandle.

DEAF SMITH COUNTY --- 5.0 E SIMMS [35.03, -102.57]

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/28/13 19:41 CST		0	Heavy Rain
	05/28/13 19:58 CST		0	Source: Emergency Manager

The Emergency Manager for Deaf Smith County reported that hail up to the size of tennis balls (2.00 inches) was covering the ground and roadways. The hail clogged drainage systems which caused fields along the road to become flooded. The flood waters did not impact the roads and quickly receded once the drainage systems unclogged.

**During the late evening of the 28th, a dryline retreated westward across Deaf Smith County as the nocturnal low level jet transported moisture from the Gulf of Mexico northwestward. A near stationary discrete supercell formed along this retreating dryline and produced copious amounts of large hail and brief periods of heavy rain. The large hail clogged drainage systems which caused localized flooding in Deaf Smith County. Flooded areas were contained to low lying areas and did not affect roadways. The flood waters quickly receded once the supercell moved northeast out of the area and the drainage systems became unclogged. No injuries, high water rescues, or fatalities were associated with this localized flooding.**

**POTTER COUNTY --- 2.1 WNW AMARILLO [35.21, -101.86], 2.1 WNW AMARILLO [35.21, -101.86], 2.1 WNW AMARILLO [35.21, -101.85], 2.1 WNW AMARILLO [35.21, -101.85]**

05/28/13 23:05 CST	8K	Flash Flood (due to Heavy Rain)
05/28/13 23:50 CST	0	Source: Law Enforcement

A supercell thunderstorm brought copious amounts of large hail and heavy rain to Amarillo. The hail clogged drainage systems which caused localized flash flooding. One motorist was caught in flood waters at the underpass near Bowie Street and 6th Ave. The driver reported that water was rapidly rising into the interior of the vehicle, but was able to escape the flood waters unassisted. Once the water receded, a tow truck was able to remove the vehicle from underneath the overpass.

**POTTER COUNTY --- 0.5 SSE AMARILLO [35.19, -101.82], 0.5 SSE AMARILLO [35.19, -101.82], 0.6 SSE AMARILLO [35.19, -101.82], 0.6 SSE AMARILLO [35.19, -101.82]**

05/28/13 23:12 CST	0	Flash Flood (due to Heavy Rain)
05/28/13 23:50 CST	0	Source: Trained Spotter

After a supercell produced copious amounts of large hail and heavy rain, a trained spotter near the intersection of Interstate 40 and Ross Road reported two cars stranded under the underpass. No injuries or swift water rescues were associated with this report.

**POTTER COUNTY --- 2.9 WSW AMARILLO [35.19, -101.87], 2.9 WSW AMARILLO [35.19, -101.87], 2.9 WSW AMARILLO [35.19, -101.87], 2.9 WSW AMARILLO [35.19, -101.87]**

05/28/13 23:13 CST	0	Flash Flood (due to Heavy Rain)
05/28/13 23:50 CST	0	Source: Law Enforcement

After a supercell produced copious amounts of large hail and heavy rain the 2800 block of Duniven Street in Amarillo (Potter County) was affected by a localized flash flood. A vehicle became stranded in the flood waters and the Amarillo Police Department performed a high water rescue. No injuries were reported with this rescue and the flood waters receded quickly.

**POTTER COUNTY --- 3.8 NNE AMARILLO [35.25, -101.80], 3.8 NNE AMARILLO [35.25, -101.80], 3.7 NNE AMARILLO [35.25, -101.80], 3.7 NNE AMARILLO [35.25, -101.80]**

05/28/13 23:47 CST	0	Flash Flood (due to Heavy Rain)
05/28/13 23:51 CST	0	Source: Law Enforcement

A supercell thunderstorm brought copious amounts of large hail and heavy rain to Amarillo. The hail clogged drainage systems which caused localized flash flooding near the intersection of North Grand Street and East Hastings Ave. A motorist became stranded in the flood waters, and the Amarillo Police Department was called to perform a high water rescue. The motorist was uninjured and the flood waters quickly receded once the supercell moved out of the area.

**POTTER COUNTY --- 3.5 NE AMARILLO [35.24, -101.78], 3.4 WNW (AMA)AMARILLO INTL A [35.24, -101.78], 3.4 WNW (AMA)AMARILLO INTL A [35.24, -101.78], 3.4 NE AMARILLO [35.24, -101.78]**

05/28/13 23:51 CST	0	Flash Flood (due to Heavy Rain)
05/29/13 00:10 CST	0	Source: Law Enforcement

A supercell thunderstorm brought copious amounts of large hail and heavy rain to the city of Amarillo (Potter County). The large hail clogged drainage systems which caused localized flash flooding near the intersection of North Eastern Street and northeast 24th Ave. A motorist became stranded in the flood waters and the Amarillo Police Department were called out to perform a high water rescue. The motorist was uninjured and the flood waters quickly receded once the thunderstorm had moved out of the area.

**The combination of significant quantities of hail and heavy rain caused localized flash flooding across the city after the storm ended. The Amarillo Police Department reported 6 high water rescues associated with this flooding. The Amarillo ASOS (Potter County) reported 1.23 inches of rain for the day which fell short of the all-time record for 24 hour rainfall of 1.99 inches occurred in 1985. No injuries were reported with these high water rescues.**

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>HUTCHINSON COUNTY --- 1.6 WSW BORGER [35.66, -101.40], 0.8 WSW BORGER [35.66, -101.39]</b>				
	05/29/13 12:22 CST		0	Thunderstorm Wind (EG 52 kt)
	05/29/13 12:25 CST		0	Source: Amateur Radio
A weakening thunderstorm moved over the city of Borger (Hutchinson County) during the early afternoon hours of the 29th. The outflow produced by this thunderstorm was estimated to be 60 mph and blew tree limbs of four to five inches thick down.				
<b>ARMSTRONG COUNTY --- 0.5 E GOODNIGHT [35.03, -101.19], 0.6 ENE GOODNIGHT [35.03, -101.19]</b>				
	05/29/13 13:26 CST		0	Hail (1.00 in)
	05/29/13 13:30 CST		0	Source: Trained Spotter
A thunderstorm developed over Armstrong County during the early afternoon hours of the 29th. A trained storm spotter a half mile east of Goodnight (Armstrong County) observed this thunderstorm produce several pea size hail stones with a few quarter size hail stones as it moved to the northeast.				
<b>ARMSTRONG COUNTY --- 1.2 WSW GOODNIGHT [35.02, -101.22], 2.1 NNE GOODNIGHT [35.06, -101.19]</b>				
	05/29/13 13:30 CST		0	Hail (0.88 in)
	05/29/13 13:34 CST		0	Source: Emergency Manager
A thunderstorm with a history of producing pea to quarter size hail in Goodnight (Armstrong County) moved to the northeast. The Armstrong County Commissioner and Chief Deputy reported seeing hail shafts out of the base of this thunderstorm. As the storm passed over their location, 2 miles north of Goodnight, they observed nickel size hail. The Armstrong County Emergency Manager relayed this report to the National Weather Service Office in Amarillo (Potter County).				
<b>GRAY COUNTY --- 14.1 W ALANREED [35.24, -100.98], 13.1 WNW ALANREED [35.26, -100.96]</b>				
	05/29/13 14:03 CST		0	Hail (2.00 in)
	05/29/13 14:10 CST		0	Source: Storm Chaser
A rapidly intensifying supercell moved to the northeast across southern Grey County. A storm chaser traveling north along US Highway 70 intercepted the storm south of the Farm to Market road 2447 and US Highway 70 intersection. The storm chaser reported that the supercell produced hen egg size hail on US Highway 70. The supercell continued a northeasterly track and crossed Farm to Market road 2477 before merging with a developing squall line.				
<b>DONLEY COUNTY --- 2.3 SE HOWARDWICK [35.05, -100.89], 2.3 S HOWARDWICK [35.04, -100.92]</b>				
	05/29/13 14:35 CST		0	Hail (0.88 in)
	05/29/13 14:38 CST		0	Source: Trained Spotter
A trained storm spotter reported nickle size hail in Howardwick (Donley County). The hail was produced from a developing squall line that stretched from Grey County to Hall County and moving to the east-northeast.				
<b>DONLEY COUNTY --- 0.8 NNW CLARENDON [34.94, -100.90], 2.4 NE CLARENDON [34.95, -100.87]</b>				
	05/29/13 14:43 CST		0	Hail (0.75 in)
	05/29/13 14:46 CST		0	Source: Trained Spotter
A weakening embedded core within a squall line moving across Donely County produced hail 1 mile to the northeast of Clarendon. A trained storm spotter observed penny size hail on Jefferson Street near the Jefferson Street and Rural Road Q junction. No reports of damage accompanied this report.				
<b>GRAY COUNTY --- 0.1 SSW LEFORS [35.43, -100.82], 2.0 ENE LEFORS [35.45, -100.79]</b>				
	05/29/13 14:55 CST		0	Hail (1.75 in)
	05/29/13 15:00 CST		0	Source: Emergency Manager
The northern most embedded thunderstorm within a squall line moving across the southeastern Texas Panhandle passed over the town of Lefors (Gray County). This same embedded thunderstorm had a history of producing hen egg size hail stones west-northwest of Lake McClellan (Gray County). While over Lefors, the thunderstorm produced hail from dime size to golf ball size hail. The Gray County Emergency Manager reported that accumulated hail had clogged drainage systems which resulted in localized flooding. No reports of damage or injuries accompanied this report.				
<b>GRAY COUNTY --- 13.9 W ALANREED [35.18, -100.97]</b>				
	05/29/13 14:55 CST		15K	Thunderstorm Wind (EG 56 kt)
	05/29/13 14:56 CST		0	Source: Emergency Manager
An intensifying thunderstorm produced a 65 mph gusts over the Interstate 40 and State Highway 70 intersection. The Gray County Emergency Manager reported that the gust produced a cross wind on State Road 70 which tipped 2 semi-tractor trailers. No reports of injuries accompanied this report.				
<b>ROBERTS COUNTY --- 5.9 SSE MIAMI [35.62, -100.59], 6.2 S LORA [35.64, -100.54]</b>				

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/29/13 15:18 CST		0	Thunderstorm Wind (EG 52 kt)
	05/29/13 15:20 CST		0	Source: NWS Employee
<p>A squall line moved across Roberts County during the afternoon hours of the 29th. A National Weather Service employee ten miles to the northwest of Mobeetie estimated a 60 mph gust as the storm pass over their location. The storm also produced pea size hail. No damage reports accompanied this report.</p>				
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<b>HEMPHILL COUNTY --- 1.7 W GAGEBY [35.62, -100.36], 2.6 ENE GAGEBY [35.64, -100.29]</b>				
	05/29/13 15:33 CST		0	Thunderstorm Wind (EG 61 kt)
	05/29/13 15:37 CST		0	Source: NWS Employee
<p>A squall line moved across Hemphill County during the afternoon hours of the 29th. A National Weather Service employee estimated a 65 mph gust from a thunderstorm ten miles northeast of Mobeetie (Hemphill County).</p>				
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<b>COLLINGSWORTH COUNTY --- 2.9 WSW DOZIER [35.07, -100.40], 1.3 NW DOZIER [35.09, -100.37]</b>				
	05/29/13 15:36 CST		0	Thunderstorm Wind (EG 52 kt)
	05/29/13 15:39 CST		0	Source: Law Enforcement
<p>A Collingsworth County Sheriff officer 2 miles west of Dozier (Collingsworth County) reported a 60 mph gust from a squall line as it moved east across the county. No reports of damage accompanied this report.</p>				
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<b>COLLINGSWORTH COUNTY --- 7.8 SW WELLINGTON [34.78, -100.32], 4.3 SW WELLINGTON [34.80, -100.27]</b>				
	05/29/13 16:30 CST		0	Hail (1.00 in)
	05/29/13 16:35 CST		0	Source: Public
<p>An intensifying thunderstorm moved across the eastern portion of Collingsworth County during the late afternoon hours. As the thunderstorm approached Wellington (Collingsworth County) from the southwest it passed over a residence 6 mile southwest of Wellington and produced quarter size hail. No property damage accompanied this report.</p>				
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<b>HEMPHILL COUNTY --- 3.5 E CANADIAN [35.90, -100.32], 5.3 SSW GLAZIER [35.93, -100.26]</b>				
	05/29/13 16:31 CST		0	Thunderstorm Wind (MG 55 kt)
	05/29/13 16:34 CST		0	Source: Mesonet
<p>The West Texas Mesonet site 6 miles east of Canadian measured a 63 mph gust as a squall line moved toward Canadian.</p>				
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<b>COLLINGSWORTH COUNTY --- 0.9 SW WELLINGTON [34.84, -100.23], 1.2 ENE WELLINGTON [34.86, -100.20]</b>				
	05/29/13 16:45 CST		0	Hail (1.25 in)
	05/29/13 16:50 CST		0	Source: Public
<p>A thunderstorm moved over the city of Wellington (Collingsworth County) shortly before 5 pm on the 29th. While over the city it produced half dollar size hail at a residence 1 mile southeast of Wellington.</p>				
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<b>COLLINGSWORTH COUNTY --- 0.3 SSE WELLINGTON [34.85, -100.22], 1.0 ENE WELLINGTON [34.85, -100.20]</b>				
	05/29/13 16:54 CST		0	Hail (1.75 in)
	05/29/13 16:58 CST		0	Source: Law Enforcement
<p>A thunderstorm moved over the city of Wellington (Collingsworth County) shortly before 5 pm on the 29th. The Collingsworth County Sheriff's Office reported that while over the city the thunderstorm produced golf ball size size hail on 15th street.</p>				
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<b>COLLINGSWORTH COUNTY --- 2.4 S WELLINGTON [34.82, -100.22], 2.2 SE WELLINGTON [34.83, -100.20]</b>				
	05/29/13 16:54 CST		0	Hail (1.50 in)
	05/29/13 16:57 CST		0	Source: Trained Spotter
<p>A thunderstorm moved over the city of Wellington (Collingsworth County) shortly before 5 pm on the 29th. A trained storm spotter 2 miles south of Wellington near the intersection of Rural Road 180 and US Highway 83 reported ping pong size hail.</p>				
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<b>COLLINGSWORTH COUNTY --- 0.8 SSE WELLINGTON [34.84, -100.21], 1.0 SE WELLINGTON [34.84, -100.21]</b>				
	05/29/13 16:55 CST		0	Hail (1.75 in)
	05/29/13 16:59 CST		0	Source: COOP Observer
<p>A thunderstorm moved over the city of Wellington (Collingsworth County) shortly before 5 pm on the 29th. The National Weather Service COOP Observer 1 mile south of Wellington reported golf ball size hail as the storm passed over their residence.</p>				
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<b>COLLINGSWORTH COUNTY --- 0.9 E WELLINGTON [34.85, -100.20], 1.3 E WELLINGTON [34.85, -100.20]</b>				

## Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/29/13 16:55 CST		0	Hail (2.00 in)
	05/29/13 16:57 CST		0	Source: Storm Chaser

A thunderstorm moved over the city of Wellington (Collingsworth County) shortly before 5 PM CST on the 29th. A storm chaser on 15th street near the Marian Airpark reported hen egg size hail as the storm passed over their location. No reports of damage accompanied this hail report.

**COLLINGSWORTH COUNTY --- 0.8 SSW WELLINGTON [34.84, -100.22], 0.6 SSE WELLINGTON [34.84, -100.22]**

05/29/13 17:11 CST	0	Hail (1.25 in)
05/29/13 17:15 CST	0	Source: Public

A flanking thunderstorm moved over the city of Wellington (Collingsworth County) shortly after 5 pm after the city already seeing a previous thunderstorm produce hail up to the size of hen eggs. This thunderstorm produced half dollar size hail as it passed over a residence 1 mile south-southwest of Wellington.

**COLLINGSWORTH COUNTY --- 1.0 NW WELLINGTON [34.86, -100.23], 0.9 NNW WELLINGTON [34.86, -100.23]**

05/29/13 17:12 CST	0	Hail (1.25 in)
05/29/13 17:14 CST	0	Source: Public

A flanking thunderstorm moved over the city of Wellington (Collingsworth County) shortly after 5 pm after the city already seeing a previous thunderstorm produce hail up to the size of hen eggs. This thunderstorm produced half dollar size hail as it passed over a residence 1 mile northwest of Wellington.

**COLLINGSWORTH COUNTY --- 1.0 NW WELLINGTON [34.86, -100.23], 0.9 NW WELLINGTON [34.86, -100.23]**

05/29/13 17:17 CST	0	Hail (1.00 in)
05/29/13 17:20 CST	0	Source: Fire Department/Rescue

A flanking thunderstorm moved over the city of Wellington (Collingsworth County) shortly after 5 pm after the city already seeing a previous thunderstorm produce hail up to the size of hen eggs. A member of the Wellington fire and rescue reported quarter size hail 1 mile west-northwest of Wellington.

**May 29th brought a widespread severe weather outbreak to the eastern Texas Panhandle. Morning upper air analysis on the 29th showed a mid-level trough centered from Idaho to New Mexico with a low level closed low over Colorado and the western Oklahoma Panhandle. The lift provided by both of these large scale forcing mechanisms would easily overcome the capping inversion in place across the eastern Texas Panhandle by the early afternoon. At the surface, a dryline was positioned along the Eastern Plains of New Mexico during the morning hours before advancing eastward into the Texas Panhandle. By noon, this dryline had advanced to the central Texas Panhandle before stalling and provided a focusing point for convective initiation. Thunderstorms developed in an area of moderate elevated instability across the eastern Texas Panhandle which promoted rapid vertical growth. In the same area, vertical wind shear was ideal for the development of supercells. Along the dryline, discrete supercell thunderstorms developed shortly after the noon hour. These supercells produced 60+ mph gusts and hail up to the size of hen eggs. As the afternoon progresses discrete supercells progressed to the east and merged into a squall line. Several more reports of 60+ mph gusts and large hail were received by the National Weather Service Office in Amarillo (Potter County) as this squall line progressed out of the Texas Panhandle and into western Oklahoma shortly after 5 pm CST.**