

## Storm Data and Unusual Weather Phenomena - April 2014

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

	04/01/14 00:00 CST	0	Drought
	04/30/14 23:59 CST	0	

The dry spring continued through April for the Oklahoma Panhandle, with most areas receiving less than one inch of precipitation during the month. In what should have been the start to the growing season, most of the Panhandle received less than 50% of normal precipitation. These short-term deficits added to long-term deficits that since October 2010 were drier than similar periods from the 1930s and 1950s droughts. As short-term precipitation deficits worsened, Exceptional (D4) Drought conditions expanded to cover all of the Panhandle by the end of April. Guymon recorded 0.55 inches of precipitation for the month (0.96 inches below normal).

Soil moisture was rated mostly very short by month's end. High winds and dried out soils led to areas of blowing dust problems. Dryland winter wheat was zeroed out in many areas by crop insurance adjusters. Rangeland remained dormant, and producers were still supplementing cattle. Stocker cattle were placed on graze-out wheat or moved to feed yards where possible. Upper soil zones ranged from extreme agriculturally dry (1 to 5 percent full) in the western Panhandle to severe agriculturally dry (5 to 10 percent full) in the eastern Panhandle. Deeper soil moisture was mostly less than 30 percent of normal, with some isolated areas between 50 and 70 percent of normal. The Palmer Drought Severity Index indicated a rating of Severe Drought conditions for the Oklahoma Panhandle. A governor's burn ban was in effect for the Oklahoma Panhandle counties.

Reservoirs and stream flows across the majority of the Oklahoma Panhandle were at below normal levels, leading to moderate hydrologic drought.

Economic losses due to the drought through April were predominately the result of supplemental watering, winter wheat losses, reduction of cattle herd sizes, and supplemental feed for cattle on drought-thinned rangeland and pastures.

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

	04/13/14 17:00 CST	0	Winter Weather
	04/14/14 08:00 CST	0	

A series of shortwaves and a cold front brought a late season snow to the Oklahoma Panhandle. The cold front moved through the Oklahoma Panhandle around midday with an initial shortwave. This cold front allowed surface temperatures to drop below freezing shortly after sunset. By this time, the next shortwave had approached the Oklahoma Panhandle. The shortwave provided isentropic lift overtop the post-frontal airmass, and initiated light show showers shortly after 9 PM CST. While the snow was light, breezy conditions caused brief near zero visibilities, and slick conditions on elevated surfaces such as bridges and overpasses. The snow showers dissipated by 8 AM CST on the 14th as the shortwave moved east of the Oklahoma Panhandle.

The following is a list of snow amounts: 2 inches of snow in Boise City (Cimarron County); 1.5 inches of snow in Guymon (Texas County); and 2 inches of snow in Beaver (Beaver County).

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

	04/13/14 22:30 CST	0	Cold/Wind Chill
	04/14/14 09:00 CST	0	

A cold front moved through the Oklahoma Panhandle during the day of the 13th. The cooler post frontal airmass allowed temperatures to drop well below freezing overnight. These subfreezing temperatures threatened sensitive vegetation during the growing season. Overnight low temperatures ranged from 22 degrees at Kenton (Cimarron County) to 27 at Beaver (Beaver County). Temperatures warmed above freezing by 9:00 AM CST.

The following is the overnight lows that fell below freezing: 22 degrees at Kenton (Cimarron County); 26 degrees at Guymon (Texas County); and 27 degrees at Beaver (Beaver County).

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

	04/14/14 22:00 CST	0	Cold/Wind Chill
	04/15/14 08:00 CST	0	

A cold front moved through the Oklahoma Panhandle during the late night hours of the 14th. The cooler post frontal airmass allowed temperatures to drop well below freezing by the early morning hours of the 15th. These subfreezing temperatures threatened sensitive vegetation during the growing season. Overnight low temperatures ranged from 23 degrees at Boise City (Cimarron County) to 24 at Beaver (Beaver County). Temperatures warmed above freezing by 8:00 AM CST.

The following is a listing of low temperatures per county: 23 degrees at Boise City (Cimarron County); 23 degrees at Guymon (Texas

## Storm Data and Unusual Weather Phenomena - April 2014

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----------	-----------	-------------------	---------------------	------------------------

County); and 24 degrees at Beaver (Beaver County).

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**BEAVER COUNTY --- 3.4 ENE CLEAR LAKE [36.69, -100.21], 4.1 E CLEAR LAKE [36.69, -100.20]**

04/20/14 16:40 CST	0	Hail (0.75 in)
04/20/14 16:41 CST	0	Source: Emergency Manager

An embedded storm within a larger cluster of storms collapsed as it moved near the town of Slapout (Beaver County). The Emergency Manager reported penny size hail (0.75 inch) 7 miles northwest of the town of Slapout. After producing this hail the storm continued to weaken as it moved into western Oklahoma.

**A cluster of thunderstorms developed across the eastern Oklahoma Panhandle during the early evening hours of the 20th. These storms quickly strengthened to strong levels before moving into western Oklahoma shortly before 5 PM CST.**

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**(OK-Z002) TEXAS**

04/24/14 00:44 CST	0	High Wind (MAX 52 kt)
04/24/14 00:46 CST	0	

A cold front moved through the Oklahoma Panhandle during the early morning hours of the 24th. The increased surface pressure gradient behind the front allowed strong winds aloft mix to the surface to cause a high wind gust of 59 mph at the Oklahoma Mesonet site at Goodwell and 60 mph at the Guymon ASOS (Texas County). These high wind gusts occurred off and on from midnight through 1 am, and no other high wind reports were received afterwards.

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

04/26/14 09:55 CST	0	High Wind (MAX 56 kt)
04/26/14 18:30 CST	0	

A cold front moved through the Oklahoma Panhandle during the early morning hours of the 27th. The stronger post-frontal pressure gradient allowed for high wind conditions to develop by midday and persist into the evening hours. By 6:30 PM CST, the pressure gradient had weakened sufficiently to bring an end to high wind conditions for the Oklahoma Panhandle.

The following is a list of the highest winds: 64 mph high wind gust at Boise City (Cimarron County); 59 mph high wind gust at Goodwell (Texas County); 61 mph high wind gust at Guymon (Texas County); and 40 mph sustained high winds at Beaver (Beaver County).

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**(OK-Z002) TEXAS**

04/27/14 12:00 CST	0.20M	Dust Storm
04/27/14 15:00 CST	5	0

A cold front moved through the Oklahoma Panhandle during the early morning hours of the 27th. The strong winds behind the front lofted dirt into the air which led to isolated dust storm conditions. The lowered visibility led to a 10 car pile up on Highway 54 near Tyrone (Texas County) around 12:40 PM CST. The vehicles involved were a combination of cars, trucks, and semi-tractor trailers. One driver was trapped within the vehicle and was only freed after the jaws of life was utilized. Four horses in a trailer being towed by one of the trucks involved were also trapped with one sustaining injuries. No major injuries or fatalities were relayed in relation to this accident. The strong winds subsided by 3 PM CST and brought an end to the localized dust storm conditions.

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Location

Date/Time

Deaths &  
Injuries

Property &  
Crop Dmg

Event Type and Details



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*Image of ten car pile up near Tyrone. Provided by Herald Tyson Texas County Emergency Manager.*

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

04/29/14 07:50 CST	0	High Wind (MAX 51 kt)
04/29/14 17:00 CST	0	

A cut off upper level low set up residence over the central US during the week of the 29th. This caused an unseasonably deep surface low pressure system to develop over Missouri. The deepness of this low caused a tightening of the pressure gradient over the Oklahoma Panhandle on the 29th. The strong pressure gradient caused a combination of high wind gusts and sustained winds from roughly 8 AM CST and persisted until 5 PM CST. The high winds caused difficulty for traffic traveling east-west orientated roads. By 5 PM CST, the surface low had progressed northeastward towards the Great Lakes which allowed the pressure gradient across the Oklahoma Panhandle to diminish and bring an end to high wind conditions.

The following is a list of high wind reports: sustained high winds of 47 mph at Guymon (Texas County); sustained high winds of 45 mph at Beaver (Beaver County); high wind gust of 59 mph at Boise City (Cimarron County) at 8:20 Am CST; high wind gust of 58 mph at Goodwell (Texas County) at 2:40 PM CST; and high wind gust of 59 mph at Guymon (Texas County) at 3:25PM CST.

**TEXAS, North Panhandle**

**(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) COLLINGSWORTH**

04/01/14 00:00 CST	0	Drought
04/30/14 23:59 CST	0	

A dry spring pattern continued through April for the Texas Panhandle, with most areas receiving less than one inch of precipitation during the month. Short-term deficits worsened especially in the western Panhandle, where less than one quarter of an inch fell. In what should have been the start to the growing season, precipitation ranged from less than 5% to near 50% of normal through the month. Long-term precipitation deficits going back to October 2010 matched or were worse than similar periods in the 1930s and 1950s droughts of record. By the end of April, Exceptional (D4) Drought conditions expanded to cover all of the Texas Panhandle. Amarillo recorded 0.57 inches of precipitation for the month (0.83 inches below normal), Dalhart recorded 0.11 inches of precipitation (0.97 inches below normal), and Borger recorded 0.13 inches of precipitation (1.41 inches below normal).

Soil moisture was rated mostly very short by month's end. High winds and dried out soils led to continued blowing dust problems in some areas. Farmers prepared for spring planting while much of the winter wheat crop was zeroed out by crop insurance adjusters. Winter wheat under irrigation did well and was used as a forage for cattle where available. Rangeland remained dormant, and producers were still supplementing cattle or reducing herd sizes. Upper soil zones remained at extremely dry levels in the Panhandle, ranging from less than 1 percent full in parts of the western Panhandle to between 5 and 10 percent full in parts of the eastern Panhandle. Deeper soil moisture was mostly less than 30 percent of normal. The Palmer Drought Severity Index indicated a rating of Severe Drought conditions for the Texas Panhandle. Countywide burn bans were supported in most counties.

Stream flows across the majority of the Panhandle were at below normal to much below normal levels, causing Moderate to Severe Hydrologic Drought. The reservoirs of Palo Duro and Greenbelt Lake were below 4 percent and 14 percent capacity respectively, and Lake Meredith was at zero percent capacity. Water watches for several public water systems persisted through April while voluntary to mandatory mild water restrictions have been enacted.

Economic losses due to the drought through April were predominately the result of supplemental watering, winter wheat losses, reduction of cattle herd sizes, and supplemental feed for cattle on drought-thinned rangeland and pastures.

**(TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z017) RANDALL**

04/03/14 13:22 CST	0	Dust Storm
04/03/14 14:00 CST	0	

A cold front moved through the Texas Panhandle during the midday hours of the 3rd. The combination of a tight surface pressure gradient and strong winds aloft mixing to the surface led strong surface winds of 35 MPH to 38 MPH. These strong winds lofted loose dirt into the air and reduced surface visibility to less than a quarter mile in Skellytown (Carson County), and Amarillo (Potter and Randall

## Storm Data and Unusual Weather Phenomena - April 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Counties). Less than a quarter mile visibility was reported at 1:22 PM CST by a trained spotter traveling State Highway 152 near Skellytown. Less than a quarter mile visibility was observed by the NWS office in Amarillo (Potter County), and off duty NWS Meteorologist at Soncy Street and 34th Ave (Randall County) between 1:00 PM CST and 2:00 PM CST. Winds decreased after 2:00 PM CST and brought an end to dust storm conditions.

**(TX-Z012) POTTER**

	04/03/14 13:27 CST	0		High Wind (MAX 52 kt)
	04/03/14 13:28 CST	0		

A cold front moved through the Texas Panhandle during the midday hours of the 3rd. The combination of a tight surface pressure gradient and strong winds aloft mixing to the surface led to a 60 mph high wind gust at the Amarillo (Potter County) ASOS at 1:27 PM CST. This was an isolated gust and no further gusts were observed.

**(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-Z016) DEAF SMITH, (TX-Z017) RANDALL**

	04/13/14 17:00 CST	0		Winter Weather
	04/14/14 08:00 CST	0		

A series of shortwaves and a cold front brought a late season snow to the Texas Panhandle. The cold front moved through the Texas Panhandle around midday with an initial shortwave. This cold front allowed surface temperatures to drop below freezing shortly after sunset. By this time, the next shortwave had approached the Texas Panhandle. The shortwave provided isentropic lift overtop the post-frontal airmass, and initiated light show showers shortly after 9 PM CST. While the snow was light, breezy conditions caused brief near zero visibilities, and slick conditions on elevated surfaces such as bridges and overpasses. The snow showers dissipated by 8 AM CST on the 14th as the shortwave moved east of the Texas Panhandle.

The following is a list of snow amounts: 2 inches of snow in Texline (Dallam County); 1 inch of snow in Stratford (Sherman County); 1 inch of snow in Spearman (Hansford County); 2.5 inches of snow in Perryton (Ochiltree County); 1 inch of snow in Dalhart (Hartley County); 2 inches of snow in Lipscomb (Lipscomb County); 1 inch of snow in Dumas (Moore County); 1.5 inches of snow in Borger (Hutchinson County); 1 inch of snow in Miami (Roberts County); 1 inch of snow in Canadian (Hemphill County); 1 inch of snow in Wildorado (Oldham County); 1 inch of snow in Amarillo (Potter and Randall County); 1 inch of snow in Panhandle (Carson County); and 1.0 inch of snow in Dawn (Deaf Smith County).

**(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) COLLINGSWORTH**

	04/13/14 22:30 CST	0		Cold/Wind Chill
	04/14/14 09:00 CST	0		

A cold front moved through the Texas Panhandle during the day of the 13th. The cooler post frontal airmass allowed temperatures to drop well below freezing overnight. These subfreezing temperatures threatened sensitive vegetation during the growing season. Overnight low temperatures ranged from 23 degrees at Hereford (Deaf Smith County) to 32 at Wellington (Collingsworth County). Temperatures warmed above freezing by 9:00 AM CST.

The following is the overnight lows that fell below freezing: 25 degrees at Dalhart (Dallam and Hartley County); 26 degrees at Stratford (Sherman County); 26 degrees at Gruver (Hansford County); 27 degrees at Perryton (Ochiltree County); 24 degrees at Dumas (Moore County); 28 degrees at Borger (Hutchinson County); 26 degrees at Boys Ranch (Oldham County); 26 degrees at Amarillo (Potter and Randall County); 26 degrees at Panhandle (Carson County); 23 degrees at Hereford (Deaf Smith County); 27 degrees at Claude (Armstrong County); 29 degrees at Lipscomb (Lipscomb County); 30 degrees at Miami (Roberts County); 29 degrees at Canadian (Hemphill County); 27 degrees at Pampa (Gray County); 30 degrees at Wheeler (Wheeler County); 31 degrees Clarendon (Donley County); and 32 degrees at Wellington (Collingsworth County).

**(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) COLLINGSWORTH**

	04/14/14 22:00 CST	0		Cold/Wind Chill
	04/15/14 08:00 CST	0		

A cold front moved through the Texas Panhandle during the late night hours of the 14th. The cooler post frontal airmass allowed temperatures to drop well below freezing by the early morning hours of the 15th. These subfreezing temperatures threatened sensitive vegetation during the growing season. Overnight low temperatures ranged from 20 degrees at Amarillo (Potter and Randall County) to 27 at Borger (Hutchinson County). Temperatures warmed above freezing by 8:00 AM CST.

## Storm Data and Unusual Weather Phenomena - April 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The following is a listing of low temperatures per county: 24 degrees at Dalhart (Dallam and Hartley County); 23 degrees at Stratford (Sherman County); 23 degrees at Gruver (Hansford County); 21 degrees at Perryton (Ochiltree County); 23 degrees at Lipscomb (Lipscomb County); 25 degrees at Dumas (Moore County); 27 degrees at Borger (Hutchinson County); 27 degrees at Mesa Vista (Roberts County); 23 degrees at Canadian (Hemphill County); 26 degrees at Boys Ranch (Oldham County); 20 degrees at Amarillo (Potter and Randall County); 25 degrees at Panhandle (Carson County); 25 degrees at McLean (Gray County); 27 degrees at Wheeler (Wheeler County); 21 degrees at Hereford (Deaf Smith County); 24 degrees at Claude (Armstrong County); 21 degrees at Clarendon (Donley County); and 24 degrees at Wellington (Collingsworth County).

**WHEELER COUNTY --- 0.9 SW WHEELER [35.44, -100.28], 0.8 S WHEELER [35.44, -100.27]**

04/20/14 15:05 CST	0	Hail (1.75 in)
04/20/14 15:08 CST	0	Source: Law Enforcement

A supercell approached the city of Wheeler (Wheeler County) during the early evening hours of the 20th. A law enforcement official in the town of Wheeler (Wheeler County) reported golf ball (1.75 inches) size hail. The storms that produced this hail continued to slowly move to the southeast after producing this hail.

**WHEELER COUNTY --- 1.5 SSW TWITTY [35.30, -100.24], 1.6 S TWITTY [35.30, -100.23]**

04/20/14 15:10 CST	0	Hail (1.00 in)
04/20/14 15:11 CST	0	Source: Storm Chaser

A supercell moved south of the city of Twitty (Wheeler County) during the early evening hours of the 20th. A storm chaser 1 mile south of Twitty (Wheeler County) reported quarter (1.00 inch) size hail. The storms that produced this hail continued to slowly move to the southeast after producing this hail.

**WHEELER COUNTY --- 0.6 W MOBEETIE [35.52, -100.44], 1.6 ESE MOBEETIE [35.51, -100.41]**

04/20/14 16:57 CST	0	Hail (0.88 in)
04/20/14 16:59 CST	0	Source: Trained Spotter

A strengthening supercell passed south of the town New Mobeetie (Wheeler County) during the early evening hours of the 20th. A trained storm spotter one mile south of New Mobeetie (Wheeler County) reported nickel (0.88 inch) size hail. The storms that produced this hail continued to slowly move to the southeast after producing this hail.

**WHEELER COUNTY --- 0.6 W NEW MOBEETIE [35.53, -100.44], 3.7 E MOBEETIE [35.51, -100.37]**

04/20/14 17:10 CST	0	Hail (1.25 in)
04/20/14 17:12 CST	0	Source: Public

A supercell moved over the town of Mobeetie (Wheeler County) during the early evening hours of the 20th. While over the town, a member of the public reported half dollar (1.25 inches) size hail. The storm continued to slowly move to the southeast after producing this hail.

**WHEELER COUNTY --- 0.6 W NEW MOBEETIE [35.53, -100.44], 4.0 E MOBEETIE [35.51, -100.36]**

04/20/14 17:20 CST	5K	Hail (2.00 in)
04/20/14 17:22 CST	0	Source: Trained Spotter

A supercell moved over the town of Mobeetie (Wheeler County) during the early evening hours of the 20th. While over the town, a trained storm spotter reported hen egg (2.00 inches) size hail. They also reported that the hail caused damage to a residential home. The storm continued to slowly move to the southeast after producing this hail.

**COLLINGSWORTH COUNTY --- 0.6 E WELLINGTON [34.85, -100.21], 4.1 ESE WELLINGTON [34.83, -100.15]**

04/20/14 20:06 CST	0	Hail (1.00 in)
04/20/14 20:10 CST	0	Source: Storm Chaser

A supercell moved over the town of Wellington (Collingsworth County) during the early evening hours of the 20th. While over the town, a storm chaser reported quarter (1.00 inch) size hail. The storm continued to slowly move to the southeast after producing this hail.

**COLLINGSWORTH COUNTY --- 2.3 E WELLINGTON [34.85, -100.18], 4.9 NW DODSON [34.82, -100.09]**

04/20/14 20:11 CST	0	Hail (1.00 in)
04/20/14 20:13 CST	0	Source: Public

A supercell moved east of the town of Wellington (Collingsworth County) during the early evening hours of the 20th. A member of the public 12 miles east of Wellington (Collingsworth County) reported quarter (1.00 inch) size hail. The storm continued to slowly move to the southeast after producing this hail.

**An upper level shortwave moved through the Texas Panhandle during the early evening hours of the 20th. The large scale lift provided by the shortwave combined with moderate instability across the southeastern Texas Panhandle to cause a cluster of thunderstorms to develop. While wind speeds vertically through the atmosphere were fairly light, there was enough directional shear for short lived**

## Storm Data and Unusual Weather Phenomena - April 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
----------	-----------	-------------------	---------------------	------------------------

supercells to develop. Due to weak steering flow, these supercells slowly drifted to the southeast and eventually crossed into southwestern Oklahoma after 8 PM CST. Work in progress.

**(TX-Z012) POTTER, (TX-Z017) RANDALL**

	04/20/14 23:58 CST		0	Dense Fog
	04/21/14 07:00 CST		0	

The combination of abundant low level moisture and light winds led to the development of dense fog over the city of Amarillo (Potter and Randall County) near midnight of the 21st. Less than a quarter mile visibility caused degraded travel conditions across the city including on Interstate 40. The dense fog dissipated by 7 AM CST as low level mixing increased.

**COLLINGSWORTH COUNTY --- 3.4 ENE QUAIL [34.90, -100.40], 6.2 ENE QUAIL [34.92, -100.35]**

	04/23/14 15:16 CST		0	Hail (0.75 in)
	04/23/14 15:17 CST		0	Source: Broadcast Media

A cluster of thunderstorms developed over Collingsworth County shortly after 3:00 PM CST. These storms quickly strengthen, and local broadcast media reported penny size (0.75 inch) hail east of Quail (Collingsworth County). The storm which produced this hail continued to move eastward across Collingsworth County.

**COLLINGSWORTH COUNTY --- 4.6 ENE QUAIL [34.90, -100.37], 6.8 NW WELLINGTON [34.91, -100.31]**

	04/23/14 15:23 CST		0	Hail (1.50 in)
	04/23/14 15:24 CST		0	Source: Broadcast Media

A cluster of thunderstorms developed over Collingsworth County shortly after 3:00 PM. These storms quickly strengthen, and a local broadcast media reported ping pong ball size hail (1.50 inches). The hail was able to cover the ground three inches deep. The storm which produced this hail continued to move eastward across Collingsworth County.

**WHEELER COUNTY --- 4.6 SW TWITTY [35.28, -100.29], 3.3 SSW TWITTY [35.28, -100.26]**

	04/23/14 15:38 CST		0	Hail (1.00 in)
	04/23/14 15:39 CST		0	Source: Broadcast Media

A cluster of thunderstorms developed over Wheeler County shortly after 3:00 PM. These storms quickly strengthen, and a trained storm spotter reported quarter size hail (1.00 inch) 5 miles north-northwest of Shamrock (Wheeler County). The storm which produced this hail continued to move eastward across Wheeler County.

**WHEELER COUNTY --- 4.7 SW TWITTY [35.28, -100.30], 3.2 SSW TWITTY [35.28, -100.26]**

	04/23/14 15:41 CST		0	Hail (1.00 in)
	04/23/14 15:42 CST		0	Source: Broadcast Media

A cluster of thunderstorms developed over Wheeler County shortly after 3:00 PM. These storms quickly strengthen, and a local broadcast media reported quarter size hail (1.00 inch) 5 miles north-northwest of Shamrock (Wheeler County). The storm which produced this hail continued to move eastward across Wheeler County.

**COLLINGSWORTH COUNTY --- 7.0 SE LUTIE [34.96, -100.13], 10.6 ESE LUTIE [34.96, -100.06]**

	04/23/14 15:55 CST		0	Hail (1.50 in)
	04/23/14 15:56 CST		0	Source: Broadcast Media

A cluster of thunderstorms developed over Collingsworth County shortly after 3:00 PM CST. The storms quickly strengthened, and local broadcast media reported ping pong ball (1.50 inches) size hail 10 miles northeast of Wellington (Collingsworth County). The storms continued to move eastward after producing this hail.

**COLLINGSWORTH COUNTY --- 8.9 ESE LUTIE [34.96, -100.09]**

	04/23/14 15:55 CST		0	Thunderstorm Wind (EG 52 kt)
	04/23/14 15:56 CST		0	Source: Broadcast Media

A cluster of thunderstorms developed over Collingsworth County shortly after 3:00 PM CST. An embedded thunderstorm within a cluster of storms over Collingsworth County produced a 60 MPH downburst 10 miles northeast of Wellington (Collingsworth County). After producing this downburst the thunderstorm continued moving eastward until moving into western Oklahoma.

**A cluster of severe storms produced hail across the southeastern Texas Panhandle during the afternoon hours of the 23rd. During the early midday hours, a weak shortwave trough moved out of northeast New Mexico and across the Texas Panhandle. At the surface, a dryline developed through the central Texas Panhandle. Both of these forcing mechanisms combined with the unstable airmass across the eastern Panhandle to initiate storms. The storms quickly moved to the east to enter western Oklahoma, and bring an end to severe weather by 6:00 PM CST.**

## Storm Data and Unusual Weather Phenomena - April 2014

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<b>(TX-Z010) HEMPHILL</b>				
	04/24/14 04:14 CST	0		High Wind (MAX 51 kt)
	04/24/14 04:16 CST	0		

A cold front moved through the Texas Panhandle during the early morning hours of the 24th. The increased surface pressure gradient behind the front allowed strong winds aloft mix to the surface to cause a high wind gust at the West Texas Mesonet site 6 miles east of Canadian (Hemphill County). This high wind gust was brief and no other high wind reports were received.

<b>(TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z004) OCHILTREE, (TX-Z005) LIPSCOMB, (TX-Z016) DEAF SMITH</b>				
	04/26/14 11:35 CST	0		High Wind (MAX 50 kt)
	04/26/14 18:30 CST	0		

A cold front moved through the Texas Panhandle during the early morning hours of the 27th. The stronger post-frontal pressure gradient allowed for high wind conditions to develop by midday and persist into the evening hours. By 6:30 PM CST, the pressure gradient had weakened sufficiently to bring an end to high wind conditions for the Texas Panhandle.

The following is a list of the highest winds: 58 mph high wind gust at Hereford (Deaf Smith County); 43 mph sustained high winds at Stratford (Sherman County); 42 mph sustained high winds at Spearman (Hansford County); 40 mph sustained high winds at Perryton (Ochiltree County); and 43 mph sustained high winds at Lipscomb (Lipscomb County).

<b>(TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL</b>				
	04/26/14 16:00 CST	0		High Wind (MAX 52 kt)
	04/26/14 22:08 CST	0		

A brief high wind event occurred during the evening hours of the 26th. A strong pressure gradient developed over the southwestern Texas Panhandle during the evening hours of the 26th. At the same time, the lower levels of the atmosphere were well mixed which allowed stronger winds aloft to mix to the surface. Greater than 40 mph sustained winds were observed at Amarillo (Potter and Randall Counties), Vega (Oldham County), and Hereford (Deaf Smith County). These high winds were lasted from 4 PM CST to 8 PM CST before the surface pressure gradient relaxed sufficiently. However, a rogue high wind gust was measured at the West Texas Mesonet site 11 miles west-northwest of Bootleg at 10:07 PM CST before the nocturnal inversion strengthened enough to bring an end to all high wind conditions.

The following is a listing of wind speeds observed: Amarillo (Randall and Potter County) 40 to 43 mph sustained; Vega (Oldham County) 40 mph sustained ; Hereford (Deaf Smith County) 40 mph sustained; and Bootleg (Deaf Smith County) 60 mph gust.

<b>(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-Z016) DEAF SMITH, (TX-Z017) RANDALL, (TX-Z018) ARMSTRONG</b>				
	04/29/14 07:50 CST	20K		High Wind (MAX 52 kt)
	04/29/14 17:00 CST	0		

A cut off upper level low set up residence over the central US during the week of the 29th. This caused an unseasonably deep surface low pressure system to develop over Missouri. The deepness of this low caused a tightening of the pressure gradient over the Texas Panhandle on the 29th. The strong pressure gradient caused a combination of high wind gusts and sustained winds from roughly 8 AM CST and persisted until 5 PM CST. The high winds caused crosswinds on east-west oriented roads which led to a semi-tractor trailer and a camper trailer to overturn on Interstate 40 near mile marker 81 (Carson County). By 5 PM CST, the surface low had progressed northeastward towards the Great Lakes which allowed the pressure gradient across the Texas Panhandle to diminish and bring an end to high wind conditions.

The following is a list of high wind reports: sustained high winds of 41 mph at Borger (Hutchinson County); sustained high winds of 40 mph at Miami (Roberts County); sustained high winds of 40 mph at Canadian (Hemphill County); sustained high winds of 40 mph Dalhart (Dallam and Hartley County); sustained high winds of 42 mph at Stratford (Sherman County); sustained high winds of 43 mph at Dumas (Moore County); sustained high winds of 40 mph at Spearman (Hansford County); sustained high winds of 40 mph at Perryton (Ochiltree County); sustained high winds of 40 mph at Vega (Oldham County); sustained high winds of 40 at Hereford (Deaf Smith County); sustained high winds of 43 mph at Amarillo (Potter and Randall County); sustained high winds of 42 mph at Panhandle (Carson County); sustained high winds of 41 mph at Claude (Armstrong County); sustained high winds of 41 mph at Pampa (Gray County); high wind gust of 60 MPH at Dumas (Moore County) at 8:48 AM CST; high wind gust of 60 mph at Booker (Lipscomb County) at 9:09 AM CST; high wind gust of 60 mph at Umbarger (Randall County) at 9:21 AM CST; high wind gust of 59 mph at Dumas (Moore County) at 9:47 AM CST; high wind gust of 58 mph at Spearman (Hansford County) at 10:00 AM CST; high wind gust of 59 mph at Dalhart (Dallam and Hartley County) at 11:19 AM CST; and high wind gust of 59 mph at Dumas (Moore County) at 2:55 PM CST.

<b>(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z017) RANDALL, (TX-Z018) ARMSTRONG</b>				
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## Storm Data and Unusual Weather Phenomena - April 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	04/29/14 08:00 CST		0	Dust Storm
	04/29/14 13:00 CST		0	

High wind conditions on the 29th lofted dirt into the air to cause Dust Storm conditions for portions of the Texas Panhandle. Dust storm conditions developed over portions of the Texas Panhandle by 8 AM CST and persisted until 1 PM CST. Dust storm conditions caused serious issues for motorists as visibility as low as 200 feet was reported on highway 54 in Dallam County, and 300 feet in Dumas (Moore County). Near zero visibility was reported in Wildorado (Oldham County), on the southwest side of Amarillo (Randall County), at the NWS office on the northeast side of Amarillo (Potter County), in Stratford (Sherman County), in Claude (Armstrong County), and in Panhandle (Carson County). A report of one city block visibility was reported by a member of the public in Dalhart (Hartley County). By 1 PM CST, high wind conditions over the source region for the dust had begun to diminish and allowed dust storm conditions to end across the Texas Panhandle.