

## Storm Data and Unusual Weather Phenomena - October 2014

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

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

10/01/14 00:00 CST	0	Drought
10/31/14 23:59 CST	0	

October saw above normal precipitation for the western two thirds of the Oklahoma Panhandle, with more scattered rain falling over Beaver County. Most areas measured at least 1.0 to 1.5 inches during the month, and an isolated area or two saw over 3 inches. Throughout the month, Extreme (D3) Drought conditions persisted across the central Oklahoma Panhandle, while western and eastern portions of the Panhandle were rated at Severe (D2) Drought conditions. Guymon recorded 1.88 inches of precipitation for the month (0.31 inches above normal).

Soil moisture was rated mostly short to adequate during the month. Crops fared well during the month, and some development was even limited by too much rain and cloudiness. Rangeland and pastures continued to improve in some areas, but cattle herd sizes remained limited due to prolonged drought. Upper soil zones were mostly in the 10 to 30 percent full range, with locations in the eastern Panhandle generally drier. Deeper soil moisture was still below normal in much of the Oklahoma Panhandle, but values were estimated to be greater than 150 percent of normal where rainfall had been most frequent over the previous few months. The Palmer Drought Severity Index indicated a rating of Moderate Drought for the Oklahoma Panhandle. No burn bans were in effect.

Reservoirs and stream flows across the Oklahoma Panhandle were generally below normal levels through October.

Economic losses due to the drought through October were predominantly the result of supplemental watering in the driest areas and supplemental feed for cattle on drought-thinned rangeland and pastures.

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#### CIMARRON COUNTY --- 6.2 N KENTON [36.99, -102.97], 1.6 WNW REGNIER [36.99, -102.88]

10/09/14 18:13 CST	0	Hail (1.00 in)
10/09/14 18:16 CST	0	Source: Trained Spotter

A cluster of thunderstorms moved into Cimarron County during the evening hours of the 9th. As this cluster of storms approached the town of Kenton (Cimarron County), a trained storm spotter reported quarter size hail (1.00 inch) six miles north of town. After producing this hail the cluster of storms continued to move eastward across the county.

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#### CIMARRON COUNTY --- 0.6 E BOISE CITY [36.73, -102.51], 7.2 SSW KEYES [36.73, -102.30]

10/09/14 19:23 CST	0	Hail (1.75 in)
10/09/14 19:28 CST	0	Source: Broadcast Media

A cluster of thunderstorms moved into Cimarron County during the evening hours of the 9th. As this cluster of storms approached the town of Boise City (Cimarron County), local broadcast media reported golf ball size hail (1.75 inches) in town. After producing this hail the cluster of storms continued to move eastward across the county.

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#### TEXAS COUNTY --- 0.7 S GOODWELL [36.59, -101.63], 6.2 E GOODWELL [36.59, -101.52]

10/09/14 19:24 CST	0	Hail (1.00 in)
10/09/14 19:28 CST	0	Source: Public

A cluster of thunderstorms moved into Texas County during the evening hours of the 9th. As this cluster of storms approached the town of Goodwell (Texas County), a member of the public reported quarter size hail (1.00 inch) in town. After producing this hail the cluster of storms continued to move eastward across the county.

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#### CIMARRON COUNTY --- 0.6 E BOISE CITY [36.73, -102.51], 4.1 E BOISE CITY [36.73, -102.45]

10/09/14 19:30 CST	0	Hail (1.50 in)
10/09/14 19:34 CST	0	Source: State Official

A cluster of thunderstorms moved into Cimarron County during the evening hours of the 9th. As this cluster of storms approached the town of Boise City (Cimarron County), the 911 call center in Boise City reported ping pong ball size hail (1.50 inches) in town. After producing this hail the cluster of storms continued to move eastward across the county.

**Two stalled baroclinic zones from earlier convection and a cold front laid across the Oklahoma Panhandle in the afternoon hours of the 9th. Less than 1500 J/Kg micape developed over the Panhandle. Straight long hodographs favored splitting supercells and favorably oriented boundaries gave right movers something to latch onto. Storms decreased in intensity prior to 8 PM CST.**

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

## Storm Data and Unusual Weather Phenomena - October 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/23/14 02:30 CST		0	Dense Fog
	10/23/14 08:00 CST		0	

The combination of ample low level moisture from earlier rains and calm winds led to the development of dense fog across Texas and Beaver County during the early morning hours of the 23rd. This fog dropped visibility to less than a quarter mile in the city of Guymon (Texas County) and Beaver (Beaver County). This lower visibility caused traffic to slow during the morning commute. By 8 AM CST, the dense fog dissipated.

**(OK-Z001) CIMARRON**

10/28/14 02:15 CST	0	Cold/Wind Chill
10/28/14 04:45 CST	0	

The combination of light winds and clear skies led to overnight lows across Cimarron County to drop between 33 and 36 degrees to create frost. The overnight low at Kenton was 34 degrees. These conditions threatened crops during the late growing season. By 5 AM CST, conditions warmed above 36 degrees to bring an end to frost conditions.

**(OK-Z001) CIMARRON**

10/28/14 04:00 CST	0	Frost/Freeze
10/28/14 05:00 CST	0	

The combination of light winds and clear skies led to the development of a light frost across the western Oklahoma Panhandle. Overnight low temperatures at Kenton (Cimarron County) and Boise City (Cimarron County) dropped to 34 degrees with winds below 10 mph. These conditions threatened crops during the late growing season. By 5 AM CST, temperatures warmed above 36 degrees to bring an end to the frost conditions.

**(OK-Z001) CIMARRON**

10/31/14 03:30 CST	0	Cold/Wind Chill
10/31/14 08:20 CST	0	

The combination of clear skies and light winds led to overnight lows dropping to 29 degrees at Kenton (Cimarron County) during the early morning hour of the 31st. This freezing low temperature threatened crops during the late growing season. BY 8:20 AM, temperatures warmed above 32 degrees to bring an end to the freezing conditions.

**(OK-Z002) TEXAS**

10/31/14 05:10 CST	0	Cold/Wind Chill
10/31/14 07:50 CST	0	

The combination of light winds and temperatures below 36 degrees led to the development of frost across Texas County during the early morning hours of the 31st. The temperature dropped to 33 degrees at Hooker (Texas County), Guymon (Texas County), and Goodwell (Texas County). These frost conditions threatened crops during the late growing season. By 8 AM CST, the temperature warmed above 36 degrees to bring an end to these frost conditions.

### TEXAS, North Panhandle

**(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z005) LIPSCOMB, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z010) HEMPHILL, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z015) WHEELER, (TX-Z017) RANDALL, (TX-Z018) ARMSTRONG, (TX-Z019) DONLEY, (TX-Z020) COLLINGSWORTH**

10/01/14 00:00 CST	0	Drought
10/31/14 23:59 CST	0	

October saw below normal precipitation for much of the Texas Panhandle, though several episodes of rainfall did keep moisture in the Panhandle throughout the month. Most areas measured at least half an inch during the month, with scattered areas measuring as much as 4 to 5 inches. Extreme (D3) Drought remained along a line from east of Dalhart to near Clarendon and in the extreme northeastern Panhandle. The southwestern Texas Panhandle remained a mix of Abnormally Dry (D0) to Moderate (D1) Drought conditions following rain from September and October, and areas surrounding Perryton improved to Moderate (D1) Drought conditions during October. Otherwise, the remainder of the Panhandles were rated at Severe (D2) Drought conditions. Amarillo recorded 1.08 inches of precipitation for the month (0.58 inches below normal), Dalhart recorded 1.01 inches of precipitation (0.46 inches below normal), and Borger recorded 0.85 inches of precipitation (0.87 inches below normal).

Soil moisture was rated mostly short to adequate during the month. Crops fared well during the month, and some development was even limited by too much rain and cloudiness. Rangeland and pasture continued to improve in some areas, but cattle herd sizes

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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remained limited due to prolonged drought. Upper soil zones were mostly in the 10 to 30 percent full range, with locations in the western Panhandle generally drier. Deeper soil moisture was still below normal in much of the Texas Panhandle, but values were estimated to be greater than 150 percent of normal where rainfall had been most frequent over the previous few months. The Palmer Drought Severity Index indicated a rating of Moderate Drought to Near Normal conditions for the Texas Panhandle. Countywide burn bans were supported in several counties.

Stream flows across the Texas Panhandle ranged from near normal to below normal during October. The reservoirs of Lake Meredith and Palo Duro were near 5 percent and 2 percent capacity respectively, and Greenbelt Lake was below 13 percent capacity. Water watches for several public water systems persisted through October while voluntary to mandatory mild water restrictions were continued.

Economic losses due to the drought through October were predominantly the result of supplemental watering in the driest areas and supplemental feed for cattle on drought-thinned rangeland and pastures.

**POTTER COUNTY --- 12.5 N AMARILLO [35.38, -101.84], 13.6 NNE (AMA)AMARILLO INTL A [35.39, -101.61]**

10/09/14 18:13 CST		0	Hail (1.00 in)
10/09/14 18:16 CST		0	Source: Broadcast Media

A supercell moved across Potter County during the evening hours of the 9th. As the storm moved north of Amarillo (Potter County), local broadcast media reported quarter size hail (1.00 inch) twelve miles north of Amarillo (Potter County). After producing this hail, the supercell continued to moved eastward across the county.

**POTTER COUNTY --- 14.9 NNW (AMA)AMARILLO INTL A [35.42, -101.82], 14.4 N (AMA)AMARILLO INTL A [35.43, -101.70]**

10/09/14 18:15 CST		0	Hail (2.00 in)
10/09/14 18:18 CST		0	Source: Storm Chaser

A supercell moved across Potter County during the evening hours of the 9th. As the storm moved north of Amarillo (Potter County), a storm chaser reported hen egg size hail (2.00 inches) fifteen miles north of Amarillo (Potter County) which cracked a vehicle windshield. After producing this hail, the supercell continued to moved eastward across the county.

**CARSON COUNTY --- 3.5 ESE MASTERSON [35.41, -101.56], 4.3 NNW PANHANDLE [35.41, -101.41]**

10/09/14 18:59 CST		0	Hail (2.50 in)
10/09/14 19:02 CST		0	Source: Storm Chaser

A supercell moved across Carson County during the evening hours of the 9th. As the storm moved north of Pantex (Carson County), a storm chaser reported tennis ball size hail (2.50 inches) six miles north of Pantex (Carson County). After producing this hail, the supercell continued to moved eastward across the county.

**CARSON COUNTY --- 0.6 E WHITE DEER [35.43, -101.17], 5.2 E WHITE DEER [35.44, -101.09]**

10/09/14 19:36 CST		0	Hail (2.75 in)
10/09/14 19:40 CST		0	Source: Public

A supercell moved across Carson County during the evening hours of the 9th. As the storm moved over the town of White Deer (Carson County), a member of the public reported baseball size hail (2.75 inches) in town. After producing this hail, the supercell continued to moved eastward across the county.

**GRAY COUNTY --- 4.3 SSE KINGS MILL [35.42, -101.04], 3.4 SSE PAMPA [35.48, -100.95]**

10/09/14 20:10 CST		0	Tornado (EF1, L: 7.03 mi , W: 125 yd)
10/09/14 20:22 CST		0	Source: NWS Storm Survey

A supercell thunderstorms produced a weak EF-1 tornado which caused intermittent damage along a 7 mile path from 4.2 miles south of Kingsmill (Gray County) to 3.8 miles south-southeast of Pampa (Gray County). The tornado snapped several wooden utility poles along Farm-to-Market Road 2300 between the intersection of County Roads L and N. This disrupted electrical service to several hundred customers. Damage to these utility poles is indicative of winds between 95 and 100 MPH.

The tornado continued across mostly open fields toward the northeast, and crossed Texas Highway 70 approximately 3.7 miles south of Pampa (Gray County). Shortly after crossing State Highway 70, the tornado caused damage to three homesteads along Farm-to-Market Road 749. This damage included loss of shingles and partial roof uplift of a manufactured home. A concrete anchored porch was destroyed and metal poles became projectiles that entered the home. A large tree was blown onto the roof of a neighboring home resulting in structural damage. A flag pole was bent from the wind and a small outbuilding was destroyed. As the tornado moved into an adjacent field, several round bales of hay were blown about in various directions. One bale damaged a fence and was displaced upwards of one half mile from its original location. Damage along Farm-to-Market Road 749 south of the intersection of County Road I is indicative of 75 to 85 mph winds and a path width of 125 yards was observed.

**GRAY COUNTY --- 1.3 ENE LEFORS [35.44, -100.80], 5.4 ENE LEFORS [35.46, -100.73]**

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/09/14 20:35 CST		0	Hail (2.50 in)
	10/09/14 20:38 CST		0	Source: Fire Department/Rescue

A supercell moved across Gray County during the evening hours of the 9th. As the storm moved over the town of Lefors (Gray County), the local fire department reported tennis ball size hail (2.50 inches) in town. After producing this hail, the supercell continued to moved eastward across the county.

<b>GRAY COUNTY --- 6.4 SSW LAKETON [35.46, -100.66], 6.3 S LAKETON [35.46, -100.61]</b>				
	10/09/14 20:55 CST		0	Hail (1.75 in)
	10/09/14 20:56 CST		0	Source: Trained Spotter

A supercell moved across Gray County during the evening hours of the 9th. As the storm moved east of Lefors (Gray County), a trained storm spotter reported golf ball size hail (1.75 inches) eight miles east-northeast of Lefors (Gray County). After producing this hail, the supercell continued to moved eastward across the county.

<b>HARTLEY COUNTY --- 4.3 SW (DHT)DALHART MUNI AR [35.98, -102.61], 3.7 S (DHT)DALHART MUNI AR [35.97, -102.54]</b>				
	10/09/14 21:10 CST		0	Hail (1.75 in)
	10/09/14 21:12 CST		0	Source: Law Enforcement

A supercell moved across Hartley County during the evening hours of the 9th. As the storm moved south of Dalhart (Hartley County), local law enforcement reported golf ball size hail (1.75 inches) eight miles southwest of Dalhart (Hartley County). After producing this hail, the supercell continued to moved eastward across the county.

<b>HARTLEY COUNTY --- 6.6 NNW HARTLEY [35.97, -102.44], 8.8 NE HARTLEY [35.97, -102.29]</b>				
	10/09/14 21:38 CST		0	Hail (2.75 in)
	10/09/14 21:40 CST		0	Source: Emergency Manager

A supercell moved across Hartley County during the evening hours of the 9th. As the storm moved between the towns of Dalhart and Hartley (Hartley County), the County Emergency Manager reported baseball size hail (2.75 inches) on U.S. Highway 87 six miles north-northwest of Hartley. After producing this hail, the supercell continued to moved eastward across the county.

**Two stalled baroclinic zones from earlier convection and a cold front laid across the Panhandles in the afternoon hours of the 9th. Up to 1500 J/Kg micape developed in the southern Texas Panhandle with lesser amounts further north. Straight long hodographs favored splitting supercells and favorably oriented boundaries gave right movers something to latch onto. One dominate right moving supercell formed in eastern Oldham County and rode an east-west oriented boundary all the way through Wheeler County. This storm exhibited signs of rotation and twice tightened to the point of necessitating tornado warnings. Hail up to tennis ball size hail was reported sporadically throughout the event. Another storm near Dalhart later in the night formed along the other boundary and became supercellular producing a very intense low level couplet and baseball size hail. Storms finally decreased in intensity around midnight.**

<b>DEAF SMITH COUNTY --- 1.5 NNW HEREFORD [34.84, -102.41]</b>				
	10/12/14 16:24 CST		0	Thunderstorm Wind (MG 52 kt)
	10/12/14 16:25 CST		0	Source: Broadcast Media

Scattered thunderstorms developed across Deaf Smith County during the evening hours of the 12th. As a storm approached the town of Hereford (Deaf Smith County), the KVII schoolnet site one mile north-northwest of Hereford recorded a 60 mph downburst. After producing this downburst the storm continued to move eastward across the county.

<b>POTTER COUNTY --- 10.3 ESE VALLE DE ORO [35.42, -101.93]</b>				
	10/12/14 16:41 CST		0	Thunderstorm Wind (MG 52 kt)
	10/12/14 16:42 CST		0	Source: Mesonet

Scattered thunderstorms developed across Potter County during the evening hours of the 12th. As a storm approached the town of Valley De Oro (Potter County), the West Texas Mesonet site 10 miles east-southeast of Valley De Oro recorded a 60 mph downburst. After producing this downburst the storm continued to move eastward across the county.

<b>RANDALL COUNTY --- 3.0 NNE UMBARGER [34.99, -102.08]</b>				
	10/12/14 16:48 CST		0	Thunderstorm Wind (MG 54 kt)
	10/12/14 16:49 CST		0	Source: Mesonet

Scattered thunderstorms developed across Randall County during the evening hours of the 12th. As a storm approached the town of Umbarger (Randall County), the West Texas Mesonet site three miles north-northeast of Umbarger recorded a 62 mph downburst. After producing this downburst the storm continued to move eastward across the county.

<b>DEAF SMITH COUNTY --- 9.5 WSW WALCOTT [34.89, -102.99]</b>				
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## Storm Data and Unusual Weather Phenomena - October 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/12/14 16:49 CST		0	Thunderstorm Wind (MG 56 kt)
	10/12/14 16:50 CST		0	Source: Mesonet

Scattered thunderstorms developed across Deaf Smith County during the evening hours of the 12th. As a storm approached the town of Bootleg (Deaf Smith County), the West Texas Mesonet site eleven miles west-northwest of Bootleg recorded a 64 mph downburst. After producing this downburst the storm continued to move eastward across the county.

### RANDALL COUNTY --- 2.8 N CANYON [35.02, -101.92]

	10/12/14 16:58 CST		0	Thunderstorm Wind (MG 51 kt)
	10/12/14 16:59 CST		0	Source: Broadcast Media

Scattered thunderstorms developed across Randall County during the evening hours of the 12th. As a storm approached the town of Canyon (Randall County), the KVII Schoolnet site two miles north of Canyon recorded a 59 mph downburst. After producing this downburst the storm continued to move eastward across the county.

### POTTER COUNTY --- 3.5 ENE BUSHLAND [35.19, -102.01]

	10/12/14 16:59 CST		0	Thunderstorm Wind (MG 51 kt)
	10/12/14 17:00 CST		0	Source: Broadcast Media

Scattered thunderstorms developed across Potter County during the evening hours of the 12th. As a storm approached the town of Bushland (Potter County), the KVII Schoolnet site three miles east of Bushland recorded a 59 mph downburst. After producing this downburst the storm continued to move eastward across the county.

### POTTER COUNTY --- 4.5 NNW AMARILLO [35.26, -101.85]

	10/12/14 17:00 CST		0	Thunderstorm Wind (MG 51 kt)
	10/12/14 17:01 CST		0	Source: Broadcast Media

Scattered thunderstorms developed across Potter County during the evening hours of the 12th. As a storm approached the town of Amarillo (Potter County), the KVII Schoolnet site four miles north-northwest of Amarillo recorded a 59 mph downburst. After producing this downburst the storm continued to move eastward across the county.

### DEAF SMITH COUNTY --- 9.5 WSW WALCOTT [34.89, -102.99]

	10/12/14 17:05 CST		0	Thunderstorm Wind (MG 53 kt)
	10/12/14 17:06 CST		0	Source: Mesonet

Scattered thunderstorms developed across Deaf Smith County during the evening hours of the 12th. As a storm approached the town of Bootleg (Deaf Smith County), the West Texas Mesonet site eleven miles west-northwest of Bootleg recorded a 61 mph downburst. After producing this downburst the storm continued to move eastward across the county.

### RANDALL COUNTY --- 3.6 NNW LAKE TANGLEWOOD [35.11, -101.80]

	10/12/14 17:06 CST		0	Thunderstorm Wind (MG 51 kt)
	10/12/14 17:07 CST		0	Source: Mesonet

Scattered thunderstorms developed across Randall County during the evening hours of the 12th. As a storm approached Lake Tanglewood (Randall County), the West Texas Mesonet site four miles north-northwest of Lake Tanglewood recorded a 59 mph downburst. After producing this downburst the storm continued to move eastward across the county.

### RANDALL COUNTY --- 0.9 NW LAKE TANGLEWOOD [35.07, -101.79]

	10/12/14 17:08 CST		0	Thunderstorm Wind (MG 50 kt)
	10/12/14 17:09 CST		0	Source: Broadcast Media

Scattered thunderstorms developed across Randall County during the evening hours of the 12th. As a storm approached Lake Tanglewood (Randall County), the KVII Schoolnet site one mile north-northwest of Lake Tanglewood recorded a 58 mph downburst. After producing this downburst the storm continued to move eastward across the county.

### POTTER COUNTY --- 6.4 NNW AMARILLO [35.29, -101.85]

	10/12/14 17:09 CST		0	Thunderstorm Wind (EG 52 kt)
	10/12/14 17:10 CST		0	Source: Broadcast Media

Scattered thunderstorms developed across Potter County during the evening hours of the 12th. As a storm approached the town of Amarillo (Potter County), local broadcast media reported a 60 mph downburst 6 miles north-northwest of Amarillo. After producing this downburst the storm continued to move eastward across the county.

### RANDALL COUNTY --- 2.1 S AMARILLO [35.17, -101.82]

## Storm Data and Unusual Weather Phenomena - October 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/12/14 17:09 CST		0	Thunderstorm Wind (MG 52 kt)
	10/12/14 17:10 CST		0	Source: Broadcast Media

Scattered thunderstorms developed across Randall County during the evening hours of the 12th. As a storm approached the town of Amarillo (Potter County), the KVII Schoolnet site two miles south of Amarillo recorded a 60 mph downburst. After producing this downburst the storm continued to move eastward across the county.

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### ARMSTRONG COUNTY --- 12.2 SW CLAUDE [34.98, -101.50]

	10/12/14 17:29 CST		0	Thunderstorm Wind (MG 56 kt)
	10/12/14 17:30 CST		0	Source: Mesonet

Scattered thunderstorms developed across Armstrong County during the evening hours of the 12th. As a storm approached the Palo Duro Canyon (Armstrong County), the West Texas Mesonet site ten miles east-northeast of Palo Duro Canyon recorded a 65 mph downburst. After producing this downburst the storm continued to move eastward across the county.

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### CARSON COUNTY --- 6.8 SE WHITE DEER [35.35, -101.11]

	10/12/14 17:40 CST		0	Thunderstorm Wind (MG 57 kt)
	10/12/14 17:41 CST		0	Source: Broadcast Media

Scattered thunderstorms developed across Carson County during the evening hours of the 12th. As a storm approached the town of Groom (Carson County), the KVII Schoolnet site ten miles north of Groom recorded a 66 mph downburst. After producing this downburst the storm continued to move eastward across the county.

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### HEMPHILL COUNTY --- 0.7 S CANADIAN HEMPHILL AR [35.89, -100.40]

	10/12/14 17:55 CST		0	Thunderstorm Wind (MG 52 kt)
	10/12/14 17:56 CST		0	Source: AWOS

Scattered thunderstorms developed across Hemphill County during the evening hours of the 12th. As a storm approached the town of Canadian (Hemphill County), the AWOS two miles southwest of Canadian recorded a 60 mph downburst. After producing this downburst the storm continued to move eastward across the county.

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### DONLEY COUNTY --- 2.7 NE HOWARDWICK [35.10, -100.89]

	10/12/14 18:00 CST		0	Thunderstorm Wind (MG 55 kt)
	10/12/14 18:01 CST		0	Source: Broadcast Media

Scattered thunderstorms developed across Donley County during the evening hours of the 12th. As a storm approached the town of Clarendon (Donley County), the KVII Schoolnet site 11 miles north of Clarendon recorded a 63 mph downburst. After producing this downburst the storm continued to move eastward across the county.

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### COLLINGSWORTH COUNTY --- 2.8 W DOZIER [35.08, -100.40]

	10/12/14 18:25 CST		0	Thunderstorm Wind (MG 59 kt)
	10/12/14 18:26 CST		0	Source: Mesonet

Scattered thunderstorms developed across Collingsworth County during the evening hours of the 12th. As a storm approached the town of Dozier (Collingsworth County), the West Texas Mesonet site three miles west of Dozier recorded a 68 mph downburst. After producing this downburst the storm continued to move eastward across the county.

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### COLLINGSWORTH COUNTY --- 2.8 W DOZIER [35.08, -100.40]

	10/12/14 18:26 CST		0	Thunderstorm Wind (MG 64 kt)
	10/12/14 18:27 CST		0	Source: Mesonet

Scattered thunderstorms developed across Collingsworth County during the evening hours of the 12th. As a storm approached the town of Dozier (Collingsworth County), the West Texas Mesonet site three miles west of Dozier recorded a 74 mph downburst. After producing this downburst the storm continued to move eastward across the county.

**A progressive upper level trough moved through the Southern Plains during the evening hours of the 12th. convection developed across the Texas Panhandle in response to this upper trough passage, and the strong upper level winds associated with this trough were able to mix to the surface in the downdraft of these thunderstorms. This caused several severe thunderstorms downbursts. By 6 PM CST, the upper trough progressed far enough east to propagate storms out of the Texas Panhandle.**

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### (TX-Z014) GRAY

	10/13/14 11:30 CST		0	High Wind (MAX 50 kt)
	10/13/14 11:31 CST		0	

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A strong surface pressure gradient and strong winds aloft mixing to the surface led to the occurrence of a high wind gust at McLean (Gray County) just before the noon hour on the 13th. The West Texas Mesonet site one mile east-northeast of McLean reported a 58 mph high wind gust at 11:30 AM CST. No further high wind gust was reported due to the surface pressure gradient weakening.

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(TX-Z016) DEAF SMITH

	10/14/14 04:00 CST	0		Frost/Freeze
	10/14/14 08:00 CST	0		

The combination of light winds and clear skies led to the development of frost in Hereford (Deaf Smith County) during the early morning hours of the 14th. This frost threatened sensitive crops during the growing season. By 8 AM CST, temperatures rose above 36 degrees to bring an end to frost conditions.

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(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z006) HARTLEY, (TX-Z019) DONLEY, (TX-Z020) COLLINGSWORTH

	10/23/14 03:30 CST	0		Dense Fog
	10/23/14 07:00 CST	0		

The combination of ample low level moisture from earlier rains and calm winds led to the development of dense fog across portions of the Texas Panhandle during the early morning hours of the 23rd. This fog dropped visibility to less than a quarter mile in the city of Dalhart (Dallam and Hartley County), Clarendon (Donley County), Wellington (Collingsworth County), Spearman (Hansford County), and Stratford (Sherman County). This lower visibility caused traffic to slow during the morning commute. By 7 AM CST, the dense fog dissipated.

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(TX-Z001) DALLAM, (TX-Z006) HARTLEY

	10/28/14 03:00 CST	0		Cold/Wind Chill
	10/28/14 05:00 CST	0		

The combination of light winds and clear skies led to overnight lows across Dallam and Hartley Counties to drop between 33 and 36 degrees to create frost. The overnight low at Dalhart was 36 degrees. These conditions threatened crops during the late growing season. By 5 AM CST, conditions warmed above 36 degrees to bring an end to frost conditions.

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(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z016) DEAF SMITH

	10/31/14 03:00 CST	0		Cold/Wind Chill
	10/31/14 08:30 CST	0		

The combination of light winds and clear skies led to overnight lows across portions of the Texas Panhandle to drop between 33 and 36 degrees to create frost. The overnight low at Dalhart (Dallam and Hartley County) was 36 degrees, 33 degrees at Dumas (Moore County), and 35 degrees at Stratford (Sherman County). These conditions threatened crops during the late growing season. By 9 AM CST, conditions warmed above 36 degrees to bring an end to frost conditions.