

Storm Data and Unusual Weather Phenomena - November 2014

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

CIMARRON COUNTY

	11/01/14 00:00 CST		0	Drought
	11/30/14 23:59 CST		0	Source: Drought Monitor

Severe Drought (D2) as depicted on the U.S. Drought Monitor.

(OK-C025) CIMARRON, (OK-Z002) TEXAS, (OK-Z003) BEAVER

	11/01/14 00:00 CST		0	Drought
	11/30/14 23:59 CST		0	

November saw below normal precipitation for the Oklahoma Panhandle, most areas receiving less than one quarter of an inch. 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 0.14 inches of precipitation for the month (0.39 inches above normal).

Soil moisture was rated from very short to adequate during the month. Crops fared well during the month, with the break in precipitation allowing many crops to catch up on harvesting. Rangeland and pasture 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 central 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 conditions for the Oklahoma Panhandle. Countywide burn bans were supported in several counties.

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

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

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

	11/06/14 05:30 CST		0	Cold/Wind Chill
	11/06/14 07:30 CST		0	

Light winds and clear skies allowed overnight temperatures to drop between the range of 33 and 36 degrees to cause frost conditions at Goodwell (Texas County) and Beaver (Beaver County). The frost conditions at these locations threatened crops at the end of the growing season. By 8:00 AM CST, temperatures warmed above 36 degrees to bring an end to frost conditions.

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

	11/10/14 21:50 CST		0	Cold/Wind Chill
	11/11/14 09:00 CST		0	

A strong cold front moved across the Oklahoma Panhandle during the evening hours of the 10th. The post-frontal airmass allowed temperatures to drop well below freezing across all of the Oklahoma Panhandle to bring an end to the growing season. The overnight low for Goodwell (Texas County) was 18 degrees and the low for Slapout (Beaver County) was 18 degrees. By noon on the 11th, temperatures warmed above 28 degrees to bring an end to the hard freeze conditions.

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

	11/16/14 02:00 CST		0	Winter Weather
	11/16/14 10:00 CST		0	

A cold front moved across the Oklahoma Panhandle during the evening hours of 15th. The post frontal airmass cooled the lowest layers of the atmosphere during the overnight hours of the 15th and into the early morning hours of the 16th. By this point, an upper level shortwave moving out of New Mexico provided sufficient lift for snow showers to develop. These snow showers persisted for the better part of the overnight hours before ending daytime hours across the Texas Panhandle. Snow began to diminish by midday. By storms end, snow totals ranged from 2 to 4 inches across the Oklahoma Panhandle.

The following is a list of storm total amounts per county: 2.5 inches at Boise City (Cimarron County); 3 inches at Guymon (Texas County); and 3 inches at Beaver (Beaver County).

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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-Z009) ROBERTS, (TX-Z010) HEMPHILL, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z015) WHEELER, (TX-Z018) ARMSTRONG, (TX-Z019) DONLEY, (TX-Z020) COLLINGSWORTH

11/01/14 00:00 CST	0	Drought
11/30/14 23:59 CST	0	

November brought less than normal precipitation to most of the Texas Panhandle, with only the far southeastern Panhandle counties receiving over 1 inch of precipitation. Most areas measured less than half an inch. 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. Otherwise, the remainder of the Panhandles were rated at Moderate to Severe (D2) Drought conditions. Amarillo recorded 0.34 inches of precipitation for the month (0.46 inches below normal), Dalhart recorded 0.15 inches of precipitation (0.43 inches below normal), and Borger recorded 0.23 inches of precipitation (0.61 inches below normal).

Soil moisture was rated from very short to adequate during the month. Crops fared well during the month, with the break in precipitation allowing many crops to catch up on harvesting. Rangeland and pasture 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 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 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 much below normal during November. The reservoirs of Lake Meredith and Palo Duro were below 6 percent and 2 percent capacity respectively, and Greenbelt Lake was near 12 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 November were predominantly the result of supplemental watering in the driest areas and supplemental feed for cattle on drought-thinned rangeland and pastures.

(TX-Z003) HANSFORD, (TX-Z004) OCHILTREE, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL

11/06/14 04:00 CST	0	Cold/Wind Chill
11/06/14 08:00 CST	0	

The combination of light winds and clear skies led to the development of frost conditions across the Texas Panhandle during the morning hours of the 6th. Locations which experienced these crop threatening conditions were Dalhart (Dallam and Hartley Counties), Perryton (Ochiltree County), Dumas (Moore County), Boys Ranch (Oldham County), Amarillo (Potter and Randall Counties), Hereford (Deaf Smith County), and Gruver (Hansford County). By 9 AM CST, conditions warmed enough to bring this threatening conditions to an end.

(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

11/10/14 02:00 CST	0	Cold/Wind Chill
11/11/14 09:00 CST	0	

A strong cold front moved across the Texas Panhandle during the evening hours of the 10th. The post-frontal airmass allowed temperatures to drop well below freezing across all of the Texas Panhandle to bring an end to the growing season. Overnight lows ranged from 17 degrees at Dumas (Moore County) to 27 degrees at Wellington (Collingsworth County). By noon on the 11th, temperatures warmed above 28 degrees to bring an end to the hard freeze conditions.

(TX-Z015) WHEELER

11/10/14 12:45 CST	0	Wildfire
11/10/14 16:00 CST	0	

A large wildfire began about six miles west of Wheeler, Texas in Wheeler county around 1245CST off of Farm to Market Road 2473. The wildfire consumed approximately six hundred acres and there were no structures damaged or lost. There were no reports of injuries or fatalities and the wildfire was brought under control around 1600CST. A total of five fire departments or agencies responded to the wildfire.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(TX-Z011) OLDHAM				
	11/10/14 18:20 CST		0	High Wind (MAX 50 kt)
	11/10/14 18:22 CST		0	

An arctic front moved across the Texas Panhandle during the evening hours of the 10th. This front caused sustained winds to increase into the 35 mph range with gusts ranging from 45 to 55 mph. One gust was able to reach 58 mph at the West Texas Mesonet site 1 miles west-southwest of Boys Ranch (Oldham County). This was an isolated report and no other high wind gusts were reported.

(TX-Z001) DALLAM, (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				
	11/16/14 02:00 CST		0	Winter Weather
	11/16/14 17:30 CST		0	

A cold front moved across the Texas Panhandle during the evening hours of the 15th. The post frontal airmass cooled the lowest layers of the atmosphere during the overnight hours of the 15th and into the early morning hours of the 16th. By this point, an upper level shortwave moving out of New Mexico provided sufficient lift from snow showers to develop. These snow showers persisted for the better part of the daytime hours across the Texas Panhandle. Snow began to diminish across the Panhandle during the late afternoon hours. By storms end, snow totals ranged from 1 to 2 inches across the eastern and central Texas Panhandle to 4 inches across the southern Texas Panhandle.

The following is a list of storm total snow amounts per County: 1.5 inches at Perryton (Ochiltree County); 2 inches at Lipscomb (Lipscomb County); 2 inches at Spearman (Hansford County); 1.5 inches at Dalhart (Hartley and Dallam County); 2.5 inches at Dumas (Moore County); 1.5 inches at Borger (Hutchinson County); 3 inches at Miami (Roberts County); 2 inches at Canadian (Hemphill County); 2.5 inches at Amarillo (Potter County); 3.5 inches at Canyon (Randall County); 2.5 inches at Panhandle (Carson County); 4 inches at Claude (Armstrong County); 2 inches at Lefors (Gray County); 2 inches at Wheeler (Wheeler County); 2.5 inches at Clarendon (Donley County); 3 inches at Wellington (Collingsworth County); 4 inches at Hereford (Deaf Smith County); and 3.5 inches at Vega (Oldham County).

(TX-Z005) LIPSCOMB, (TX-Z010) HEMPHILL, (TX-Z015) WHEELER, (TX-Z020) COLLINGSWORTH				
	11/21/14 21:30 CST		0	Dense Fog
	11/22/14 02:30 CST		0	

The combination of a moist near surface layer, calm winds, and clear skies led to the development of dense fog across the eastern Texas Panhandle during the late night hours of the 21st and into the early morning hours of the 22nd. Visibilities were reduced to less than a quarter mile at Lipscomb (Lipscomb County), Canadian (Hemphill County), Wheeler (Wheeler County), and Wellington (Collingsworth County). These low visibilities improved across the eastern Texas Panhandle by 2:30 AM CST as a low cloud deck allowed temperatures to warm slightly.