

Storm Data and Unusual Weather Phenomena - September 2016

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

OKLAHOMA, Panhandle

(OK-Z002) TEXAS

| | | |
|--------------------|---|----------|
| 09/23/16 12:23 CST | 0 | Wildfire |
| 09/23/16 16:00 CST | 0 | |

The Rd. C Command wildfire began around 1223CST about seven miles north of Hough Oklahoma in Texas county. The wildfire started just north and just east of the intersection of C Road and N0815 Road. The wildfire consumed approximately two hundred and sixty acres and spread into a dry uncut corn field. The wildfire was caused by a combine belt bearing coming in contact with corn stalk materials. There was one structure that was threatened by the wildfire but was saved and the corn field was also saved. However, no homes or other structures were damaged or destroyed and there were also no reports of any injuries or fatalities. The wildfire was contained around 1600CST and approximately four fire departments or other fire agencies responded to the wildfire including units from Guymon, Hooker, Hough, and Morton Kansas.

TEXAS, North Panhandle

HARTLEY COUNTY --- 0.7 N (DHT)DALHART MUNI AR [36.03, -102.55]

| | | |
|--------------------|---|------------------------------|
| 09/06/16 17:09 CST | 0 | Thunderstorm Wind (MG 60 kt) |
| 09/06/16 17:09 CST | 0 | Source: ASOS |

HARTLEY COUNTY --- 0.7 N (DHT)DALHART MUNI AR [36.03, -102.55]

| | | |
|--------------------|---|------------------------------|
| 09/06/16 17:16 CST | 0 | Thunderstorm Wind (MG 60 kt) |
| 09/06/16 17:16 CST | 0 | Source: ASOS |

HARTLEY COUNTY --- 0.7 N (DHT)DALHART MUNI AR [36.03, -102.55]

| | | |
|--------------------|---|------------------------------|
| 09/06/16 17:42 CST | 0 | Thunderstorm Wind (MG 59 kt) |
| 09/06/16 17:42 CST | 0 | Source: ASOS |

Upper level moisture form Hurricane Newton was moving NNE into the western Panhandles with the help of a trough over the Northern Rockies and a weakening ridge over the coastal southeastern US. Out ahead of the main batch of heavier rain and low topped thunderstorms, storms on the leading edge tapping into 2000-3000 J/kg which produced severe wind gusts in the NW TX Panhandle.

HANSFORD COUNTY --- 4.9 N GRUVER [36.34, -101.41], 4.6 N GRUVER [36.34, -101.41]

| | | |
|--------------------|---|--------------------------------------|
| 09/09/16 17:20 CST | 0 | Tornado (EF0, L: 0.28 mi , W: 15 yd) |
| 09/09/16 17:21 CST | 0 | Source: Law Enforcement |

Brief tornado, likely a landspout, touched down north of Gruver. The event was witnessed by numerous residents who were attending a high school football game. No damage was reported as the tornado likely remained over open country. The location based off of radar.

A cold front progressed south out of Kansas. It was heading towards an environment of 1500-2500 J/Kg and effective shear of 20-35 kts in the eastern Panhandles. As a result, a short lived tornado did occur over northern Hansford County, TX as seen with photographic evidence.

CARSON COUNTY --- PANHANDLE [35.35, -101.38]

| | | |
|--------------------|---|-------------------------|
| 09/17/16 11:31 CST | 0 | Hail (1.00 in) |
| 09/17/16 11:31 CST | 0 | Source: Trained Spotter |

GRAY COUNTY --- 1.5 NNE MC LEAN [35.25, -100.59]

| | | |
|--------------------|---|----------------|
| 09/17/16 12:35 CST | 0 | Hail (2.00 in) |
| 09/17/16 12:35 CST | 0 | Source: Public |

GRAY COUNTY --- 1.5 NNE MC LEAN [35.25, -100.59]

| | | |
|--------------------|---|------------------------------|
| 09/17/16 12:35 CST | 0 | Thunderstorm Wind (ES 50 kt) |
| 09/17/16 12:35 CST | 0 | Source: Public |

Numerous large tree limbs snapped around a farmhouse complex. One large tree was uprooted landing on pickup temporarily trapping a resident inside. Half of metal barn collapsed.

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| GRAY COUNTY --- MC LEAN [35.23, -100.60] | | | | |
| | 09/17/16 12:35 CST | 0 | | Hail (1.00 in) |
| | 09/17/16 12:35 CST | 0 | | Source: Trained Spotter |
| GRAY COUNTY --- MC LEAN [35.23, -100.60] | | | | |
| | 09/17/16 12:35 CST | 0 | | Thunderstorm Wind (MG 52 kt) |
| | 09/17/16 12:35 CST | 0 | | Source: Trained Spotter |
| DALLAM COUNTY --- 5.0 SE TEXLINE [36.32, -102.97] | | | | |
| | 09/17/16 17:55 CST | 0 | | Hail (1.00 in) |
| | 09/17/16 17:55 CST | 0 | | Source: Trained Spotter |
| Pea to quarter size hail covering the ground with heavy rain for 20 minutes south-southeast of Texline. | | | | |
| DALLAM COUNTY --- TEXLINE [36.38, -103.02] | | | | |
| | 09/17/16 18:32 CST | 0 | | Hail (1.00 in) |
| | 09/17/16 18:32 CST | 0 | | Source: Trained Spotter |
| DALLAM COUNTY --- 2.2 NW DALHART [36.09, -102.55] | | | | |
| | 09/17/16 18:54 CST | 0 | | Hail (1.25 in) |
| | 09/17/16 18:54 CST | 0 | | Source: Storm Chaser |
| Hail up to the size of half dollars 3 miles northwest of Dalhart on us 87. | | | | |
| DALLAM COUNTY --- 3.4 ESE DALHART [36.06, -102.46] | | | | |
| | 09/17/16 19:13 CST | 0 | | Hail (1.75 in) |
| | 09/17/16 19:13 CST | 0 | | Source: Trained Spotter |
| DALLAM COUNTY --- 4.5 E DALHART [36.06, -102.44] | | | | |
| | 09/17/16 19:13 CST | 0 | | Hail (1.50 in) |
| | 09/17/16 19:13 CST | 0 | | Source: Trained Spotter |
| HARTLEY COUNTY --- 0.7 N (DHT)DALHART MUNI AR [36.03, -102.55] | | | | |
| | 09/17/16 19:13 CST | 0 | | Thunderstorm Wind (MG 52 kt) |
| | 09/17/16 19:13 CST | 0 | | Source: ASOS |
| HARTLEY COUNTY --- 0.7 N (DHT)DALHART MUNI AR [36.03, -102.55] | | | | |
| | 09/17/16 19:15 CST | 0 | | Thunderstorm Wind (MG 53 kt) |
| | 09/17/16 19:15 CST | 0 | | Source: ASOS |
| MOORE COUNTY --- 1.3 ENE DUMAS MUNI ARPT [35.86, -102.00] | | | | |
| | 09/17/16 20:07 CST | 0 | | Hail (1.75 in) |
| | 09/17/16 20:07 CST | 0 | | Source: Public |
| Golf ball size hail on US 87 2 miles west of Dumas. | | | | |
| MOORE COUNTY --- 6.0 WNW FOUR WAY [35.71, -102.07], 6.0 WNW FOUR WAY [35.71, -102.07] | | | | |
| | 09/17/16 20:41 CST | 0 | | Tornado (EF0, L: 0.01 mi , W: 15 yd) |
| | 09/17/16 20:42 CST | 0 | | Source: Emergency Manager |
| Rope tornado touched down briefly two times in rapid succession around 0941 PM. The event was witnessed by a trained spotter and deputy and was reported through the assistant Emergency Manager for Moore County. | | | | |
| MOORE COUNTY --- 0.8 NW FOUR WAY [35.69, -101.98], 1.1 NNE FOUR WAY [35.69, -101.96] | | | | |
| | 09/17/16 20:47 CST | 0 | | Tornado (EF0, L: 1.17 mi , W: 150 yd) |
| | 09/17/16 20:54 CST | 0 | | Source: NWS Employee |

NWS survey team found 1.2 mile long damage path. Shed destroyed, widespread tree damage and roof damage to a mobile home.

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| <hr/> | | | | |
| CARSON COUNTY --- 1.5 SSW PANHANDLE [35.33, -101.39] | 09/17/16 22:19 CST | | 0 | Thunderstorm Wind (MG 55 kt) |
| | 09/17/16 22:19 CST | | 0 | Source: Mesonet |
| <hr/> | | | | |
| CARSON COUNTY --- 4.2 WNW GROOM [35.22, -101.17] | 09/17/16 23:09 CST | | 0 | Thunderstorm Wind (MG 51 kt) |
| | 09/17/16 23:09 CST | | 0 | Source: Broadcast Media |

Winds gust of 59 MPH from the kvii schoolnet at friemel farms west-northwest of Groom.

Two rounds of storms worked their way through the northern and eastern TX Panhandle. The first round was bowed out MCS developed north of a stalled out boundary over the south Plains with an meso-environment of weak CAPE and moderate CIN across the eastern TX panhnadle. Going into the afternoon and evening hours, an upper level low pressure impulse was moving SE out of NM. Out ahead of the trough axis, it was a high CAPE and moderate effective shear environment which indicated super cell convection in-conjunction with daytime heating. Going into the later evening hours, a supercell formed on the base of an eastward progressing line. This storm produced two EF0 tornadoes across Moore County. With the loss of daytime heating, the supercell generate a large cold pool and weakened as it turned left and heading more due east. Both complexes of storms also produce severe wind gusts and large hail.