

## Storm Data and Unusual Weather Phenomena - July 2011

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

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### OKLAHOMA, Western, Central and Southeast

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(OK-Z004) HARPER, (OK-Z005) WOODS, (OK-Z006) ALFALFA, (OK-Z007) GRANT, (OK-Z008) KAY, (OK-Z009) ELLIS, (OK-Z010) WOODWARD, (OK-Z011) MAJOR, (OK-Z012) GARFIELD, (OK-Z013) NOBLE, (OK-Z014) ROGER MILLS, (OK-Z015) DEWEY, (OK-Z016) CUSTER, (OK-Z017) BLAINE, (OK-Z018) KINGFISHER, (OK-Z019) LOGAN, (OK-Z020) PAYNE, (OK-Z021) BECKHAM, (OK-Z022) WASHITA, (OK-Z023) CADDO, (OK-Z024) CANADIAN, (OK-Z025) OKLAHOMA, (OK-Z026) LINCOLN, (OK-Z027) GRADY, (OK-Z028) MCCLAIN, (OK-Z029) CLEVELAND, (OK-Z030) POTTAWATOMIE, (OK-Z031) SEMINOLE, (OK-Z032) HUGHES, (OK-Z033) HARMON, (OK-Z034) GREER, (OK-Z035) KIOWA, (OK-Z036) JACKSON, (OK-Z037) TILLMAN, (OK-Z038) COMANCHE, (OK-Z039) STEPHENS, (OK-Z040) GARVIN, (OK-Z041) MURRAY, (OK-Z042) PONTOTOC, (OK-Z043) COAL, (OK-Z044) COTTON, (OK-Z045) JEFFERSON, (OK-Z046) CARTER, (OK-Z047) JOHNSTON, (OK-Z048) ATOKA, (OK-Z050) LOVE, (OK-Z051) MARSHALL, (OK-Z052) BRYAN

|                    |   |         |
|--------------------|---|---------|
| 07/01/11 00:00 CST | 0 | Drought |
| 07/31/11 23:59 CST | 0 |         |

The lack of beneficial rainfall, combined with extreme high temperatures continued the drought that had plagued Oklahoma for several months. July 2011 was officially the hottest month on record locally and nationally. High temperatures were over 100 degrees for almost the entire month. Rainfall totals, especially for those over western and southern Oklahoma were little more than a trace. The dry vegetation contributed to several grass fires. Some municipalities had restricted water use, as water levels in area lakes have dropped to very low levels.

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#### GARFIELD COUNTY --- 0.6 NNW NORTH ENID [36.45, -97.87]

|                    |     |                              |
|--------------------|-----|------------------------------|
| 07/02/11 16:30 CST | 10K | Thunderstorm Wind (EG 56 kt) |
| 07/02/11 16:30 CST | 0   | Source: Emergency Manager    |

The wind gust was measured near the intersection of US-81 and Phillips Road. Numerous trees and fences were blown down. The roof of a roof was also blown off of a barn. Monetary damages were estimated.

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#### GARFIELD COUNTY --- 2.0 ENE NORTH ENID [36.45, -97.84]

|                    |   |                              |
|--------------------|---|------------------------------|
| 07/02/11 16:30 CST | 0 | Thunderstorm Wind (EG 65 kt) |
| 07/02/11 16:30 CST | 0 | Source: Emergency Manager    |

A one-mile stretch of power poles were snapped between Breckenridge and Phillips roads, north of North 30th Street. Monetary damage estimates were not available.

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#### KAY COUNTY --- 7.0 N NEWKIRK [36.98, -97.06]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/02/11 16:34 CST | 3K | Thunderstorm Wind (EG 56 kt) |
| 07/02/11 16:34 CST | 0  | Source: Emergency Manager    |

A fireworks stand was blown over. A person working inside was briefly trapped in the debris, but escaped unharmed. Monetary damages were estimated.

The summertime ridge of high pressure was in full force over Oklahoma. Hot temperatures near or exceeding 100 degrees allowed for thunderstorms to develop during the mid to late afternoon hours. Gusty winds and brief heavy, but beneficial rainfall were the main threats. Some of the gusts exceeded 60 mph, with some minor damage reported. The thunderstorms weakened and dissipated with the loss of daytime heating.

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#### OKLAHOMA COUNTY --- 3.0 WSW OKLAHOMA CITY [35.45, -97.56]

|                    |   |                              |
|--------------------|---|------------------------------|
| 07/04/11 15:40 CST | 0 | Thunderstorm Wind (EG 56 kt) |
| 07/04/11 15:40 CST | 0 | Source: Broadcast Media      |

Minor roof damage occurred to a restaurant near Southwest 15th Street and Agnew Avenue. Monetary damage estimates were not available.

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#### CANADIAN COUNTY --- 5.0 SW EL RENO [35.48, -98.02]

|                    |   |                              |
|--------------------|---|------------------------------|
| 07/04/11 15:45 CST | 0 | Thunderstorm Wind (MG 51 kt) |
| 07/04/11 15:45 CST | 0 | Source: AWOS                 |

The wind gust was measured at the El Reno Regional Airport - KRQO.

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#### OKLAHOMA COUNTY --- 3.0 NNE (OKC)WILL ROGERS APT [35.43, -97.58]

|                    |   |                              |
|--------------------|---|------------------------------|
| 07/04/11 15:50 CST | 0 | Thunderstorm Wind (EG 56 kt) |
| 07/04/11 15:50 CST | 0 | Source: Broadcast Media      |

Roof damage was reported to an apartment near Southwest 29th Street and Portland Avenue. Monetary damages were not available.

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| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|---|--------------------|-------------------|---------------------|------------------------------|
| <b>JOHNSTON COUNTY --- MILL CREEK [34.40, -96.82]</b>   |                    |                   |                     |                              |
|   | 07/04/11 19:05 CST |                   | 0                   | Thunderstorm Wind (EG 56 kt) |
|   | 07/04/11 19:05 CST |                   | 0                   | Source: Emergency Manager    |
| The town of Mill Creek was without power for a short duration.  |                    |                   |                     |                              |
| <b>JOHNSTON COUNTY --- RAVIA [34.24, -96.76]</b>  |                    |                   |                     |                              |
|   | 07/04/11 19:25 CST |                   | 9K                  | Thunderstorm Wind (EG 56 kt) |
|   | 07/04/11 19:25 CST |                   | 0                   | Source: Emergency Manager    |
| A couple of large trees and several tree limbs were downed across the roadway. Power lines were also downed, which resulted in spotty power outages. Monetary damages were estimated.   |                    |                   |                     |                              |
| <b>JOHNSTON COUNTY --- 3.0 S TISHOMINGO [34.19, -96.68]</b>   |                    |                   |                     |                              |
|   | 07/04/11 20:00 CST |                   | 2K                  | Thunderstorm Wind (EG 52 kt) |
|   | 07/04/11 20:00 CST |                   | 0                   | Source: Public               |
| Four to six inch diameter elm tree limbs were downed. Monetary damages were estimated.  |                    |                   |                     |                              |
| <p><b>Numerous outflow boundaries from the previous days convection, combined with strong afternoon heating and modest upper level support allowed for afternoon thunderstorms to develop over parts of central and southern Oklahoma. Due to the high cloud bases and dry sub-cloud air, strong winds were the main threats. Minor roof and tree damage were reported.</b></p> |                    |                   |                     |                              |
| <b>CLEVELAND COUNTY --- 3.0 N MOORE [35.38, -97.50]</b>   |                    |                   |                     |                              |
|   | 07/12/11 11:43 CST |                   | 0                   | Hail (0.75 in)               |
|   | 07/12/11 11:43 CST |                   | 0                   | Source: SHAVE Project        |
| <b>OKLAHOMA COUNTY --- MIDWEST CITY [35.46, -97.39]</b>   |                    |                   |                     |                              |
|   | 07/12/11 12:30 CST |                   | 3K                  | Thunderstorm Wind (EG 56 kt) |
|   | 07/12/11 12:30 CST |                   | 0                   | Source: Law Enforcement      |
| A few power lines were downed in and around Midwest City. Monetary damages were estimated.  |                    |                   |                     |                              |
| <b>OKLAHOMA COUNTY --- 2.0 ENE (OKC)WILL ROGERS APT [35.40, -97.57]</b>   |                    |                   |                     |                              |
|   | 07/12/11 13:10 CST |                   | 0                   | Thunderstorm Wind (MG 51 kt) |
|   | 07/12/11 13:10 CST |                   | 0                   | Source: Public               |
| The wind gust was measured near Southwest 59th Street and South May Avenue.   |                    |                   |                     |                              |
| <b>OKLAHOMA COUNTY --- 1.0 NE (OKC)WILL ROGERS APT [35.40, -97.59]</b>  |                    |                   |                     |                              |
|   | 07/12/11 13:38 CST |                   | 0                   | Thunderstorm Wind (MG 63 kt) |
|   | 07/12/11 13:38 CST |                   | 0                   | Source: Mesonet              |
| The wind gust was measured by the Oklahoma City Micronet.   |                    |                   |                     |                              |
| <b>OKLAHOMA COUNTY --- 1.0 N (OKC)WILL ROGERS APT [35.40, -97.60]</b>   |                    |                   |                     |                              |
|   | 07/12/11 13:40 CST |                   | 0                   | Hail (1.00 in)               |
|   | 07/12/11 13:40 CST |                   | 0                   | Source: Public               |
| Nickel- to quarter-size hail was reported near Airport Road and Meridian Avenue.  |                    |                   |                     |                              |
| <b>PAYNE COUNTY --- STILLWATER [36.12, -97.06]</b>  |                    |                   |                     |                              |
|   | 07/12/11 14:10 CST |                   | 3K                  | Thunderstorm Wind (EG 61 kt) |
|   | 07/12/11 14:10 CST |                   | 0                   | Source: Trained Spotter      |
| A piece of the roof at Cowboy book was blown onto a vehicle. Monetary damages were estimated.   |                    |                   |                     |                              |
| <b>OKLAHOMA COUNTY --- (PWA)WILEY POST APT [35.53, -97.65]</b>  |                    |                   |                     |                              |
|   | 07/12/11 14:12 CST |                   | 0                   | Thunderstorm Wind (MG 60 kt) |
|   | 07/12/11 14:12 CST |                   | 0                   | Source: ASOS                 |

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|---|--------------------|----------------------|------------------------|------------------------------|
| <b>OKLAHOMA COUNTY --- (PWA)WILEY POST APT [35.53, -97.65]</b>  |                    |                      |                        |                              |
|   | 07/12/11 14:24 CST |                      | 0                      | Thunderstorm Wind (MG 56 kt) |
|   | 07/12/11 14:24 CST |                      | 0                      | Source: ASOS                 |
| <b>CLEVELAND COUNTY --- 8.0 WNW MOORE [35.38, -97.62]</b>   |                    |                      |                        |                              |
|   | 07/12/11 14:58 CST |                      | 0                      | Thunderstorm Wind (EG 56 kt) |
|   | 07/12/11 14:58 CST |                      | 0                      | Source: Public               |
| No damage was reported with the wind gust.  |                    |                      |                        |                              |
| <b>KINGFISHER COUNTY --- 1.0 W KINGFISHER [35.86, -97.95]</b>   |                    |                      |                        |                              |
|   | 07/12/11 15:35 CST |                      | 0                      | Thunderstorm Wind (MG 65 kt) |
|   | 07/12/11 15:35 CST |                      | 0                      | Source: Mesonet              |
| An upper level low pressure moved across northern Oklahoma. This helped to weaken the strong cap that was in place, and thunderstorms developed during the late morning and afternoon hours. The broken record of gusty winds with the thunderstorms continued as the storms moved over central Oklahoma. A few locations measured wind gusts over 70 mph, although little damage was reported. |                    |                      |                        |                              |
| <b>BLAINE COUNTY --- WATONGA [35.85, -98.41]</b>  |                    |                      |                        |                              |
|   | 07/13/11 15:00 CST |                      | 0                      | Thunderstorm Wind (EG 52 kt) |
|   | 07/13/11 15:00 CST |                      | 0                      | Source: COOP Observer        |
| No damage was reported with the wind gust.  |                    |                      |                        |                              |
| <b>KINGFISHER COUNTY --- 3.0 E LOYAL [35.97, -98.07]</b>  |                    |                      |                        |                              |
|   | 07/13/11 16:00 CST |                      | 2K                     | Thunderstorm Wind (EG 65 kt) |
|   | 07/13/11 16:00 CST |                      | 0                      | Source: Public               |
| One large tree and numerous two to three inch diameter were downed by the severe winds. Monetary damages were estimated.  |                    |                      |                        |                              |
| <b>MURRAY COUNTY --- 4.0 NNE SULPHUR [34.56, -96.94]</b>  |                    |                      |                        |                              |
|   | 07/13/11 16:00 CST |                      | 0                      | Thunderstorm Wind (MG 56 kt) |
|   | 07/13/11 16:00 CST |                      | 0                      | Source: Mesonet              |
| <b>KINGFISHER COUNTY --- DOVER [35.98, -97.91]</b>  |                    |                      |                        |                              |
|   | 07/13/11 16:30 CST |                      | 0                      | Thunderstorm Wind (EG 52 kt) |
|   | 07/13/11 16:30 CST |                      | 0                      | Source: Law Enforcement      |
| No damage was reported with the wind gust.  |                    |                      |                        |                              |
| <b>MAJOR COUNTY --- 6.0 W RINGWOOD [36.38, -98.36]</b>  |                    |                      |                        |                              |
|   | 07/13/11 16:47 CST |                      | 1K                     | Thunderstorm Wind (EG 56 kt) |
|   | 07/13/11 16:47 CST |                      | 0                      | Source: Law Enforcement      |
| A power pole was blown down. Monetary damages were estimated.   |                    |                      |                        |                              |
| <b>MCCLAIN COUNTY --- PURCELL [35.01, -97.37]</b>   |                    |                      |                        |                              |
|   | 07/13/11 17:08 CST |                      | 4K                     | Thunderstorm Wind (EG 56 kt) |
|   | 07/13/11 17:08 CST |                      | 0                      | Source: Law Enforcement      |
| Several power poles were blown down. Monetary damages were estimated.   |                    |                      |                        |                              |
| <b>CADDO COUNTY --- 7.0 SSW FT COBB [35.01, -98.49]</b>   |                    |                      |                        |                              |
|   | 07/13/11 17:27 CST |                      | 0                      | Thunderstorm Wind (MG 65 kt) |
|   | 07/13/11 17:27 CST |                      | 0                      | Source: Amateur Radio        |
| <b>POTTAWATOMIE COUNTY --- 2.0 E TRIBBEY [35.09, -97.05]</b>  |                    |                      |                        |                              |
|   | 07/13/11 17:30 CST |                      | 9K                     | Thunderstorm Wind (EG 61 kt) |
|   | 07/13/11 17:30 CST |                      | 0                      | Source: Public               |

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|---|--------------------|----------------------|------------------------|------------------------------|
| A roof was blown off a barn and several large trees were blown over. Monetary damages were estimated.   |                    |                      |                        |                              |
| <b>HUGHES COUNTY --- 3.0 ESE HOLDENVILLE [35.06, -96.35]</b>  |                    |                      |                        |                              |
|   | 07/13/11 18:45 CST |                      | 0                      | Thunderstorm Wind (MG 52 kt) |
|   | 07/13/11 18:45 CST |                      | 0                      | Source: Mesonet              |
| The absence of a strong cap, combined with hot afternoon temperatures, and the presence of a departing upper level storm system allowed for thunderstorms to develop over Oklahoma. Strong winds were the main threats with the thunderstorms, with a few areas reporting minor wind damage. The storms moved off to the east and weakened with the loss of daytime heating.  |                    |                      |                        |                              |
| <b>WOODS COUNTY --- 16.0 NNE FREEDOM [36.98, -99.00]</b>  |                    |                      |                        |                              |
|   | 07/22/11 17:00 CST |                      | 0                      | Thunderstorm Wind (MG 65 kt) |
|   | 07/22/11 17:00 CST |                      | 0                      | Source: Mesonet              |
| A couple of thunderstorms developed during peak afternoon heating over northwest Oklahoma. The thunderstorms produced gusty winds and brief heavy rainfall, with one wind gust measured over 70 mph near the Kansas border in Woods county.   |                    |                      |                        |                              |
| <b>WOODS COUNTY --- 3.0 SSW FREEDOM [36.73, -99.13]</b>   |                    |                      |                        |                              |
|   | 07/24/11 15:55 CST |                      | 0                      | Thunderstorm Wind (MG 78 kt) |
|   | 07/24/11 15:55 CST |                      | 0                      | Source: Mesonet              |
| <b>WOODWARD COUNTY --- WOODWARD [36.43, -99.39]</b>   |                    |                      |                        |                              |
|   | 07/24/11 16:14 CST |                      | 3K                     | Thunderstorm Wind (MG 56 kt) |
|   | 07/24/11 16:14 CST |                      | 0                      | Source: Emergency Manager    |
| A large tree was blown down near 9th Street and Santa Fe Avenue. Minor damage was also reported to a carport near this location. Monetary damages were estimated.   |                    |                      |                        |                              |
| <b>WOODS COUNTY --- 9.0 SSE WAYNOKA [36.47, -98.82]</b>   |                    |                      |                        |                              |
|   | 07/24/11 16:31 CST |                      | 0                      | Thunderstorm Wind (EG 52 kt) |
|   | 07/24/11 16:31 CST |                      | 0                      | Source: Public               |
| No damage was reported with the wind gust.  |                    |                      |                        |                              |
| <b>GRANT COUNTY --- NASH [36.67, -98.05]</b>  |                    |                      |                        |                              |
|   | 07/24/11 16:35 CST |                      | 0                      | Thunderstorm Wind (EG 61 kt) |
|   | 07/24/11 16:35 CST |                      | 0                      | Source: Public               |
| No damage was reported with the wind gust.  |                    |                      |                        |                              |
| Temperatures soared well above 100 degrees over northern Oklahoma, even reaching 100 degrees before noon. Thunderstorms developed during the intense heating near a cold front that was located over southern Kansas, as well as over an outflow boundary over northern Oklahoma. Wind speeds with some of the thunderstorms exceeded 60 mph, with one thunderstorm producing a measured wind gust of 90 mph! Thankfully, no damage was reported. |                    |                      |                        |                              |
| <b>CADDO COUNTY --- 3.0 NNE HYDRO [35.59, -98.56]</b>   |                    |                      |                        |                              |
|   | 07/25/11 15:20 CST |                      | 0                      | Thunderstorm Wind (EG 52 kt) |
|   | 07/25/11 15:20 CST |                      | 0                      | Source: Public               |
| No damage was reported with the wind gust.  |                    |                      |                        |                              |
| <b>CUSTER COUNTY --- 0.7 N WEATHERFORD [35.54, -98.70]</b>  |                    |                      |                        |                              |
|   | 07/25/11 16:30 CST |                      | 0                      | Hail (0.75 in)               |
|   | 07/25/11 16:30 CST |                      | 0                      | Source: SHAVE Project        |
| <b>CUSTER COUNTY --- 4.0 W WEATHERFORD [35.53, -98.77]</b>  |                    |                      |                        |                              |
|   | 07/25/11 16:42 CST |                      | 0                      | Hail (1.00 in)               |
|   | 07/25/11 16:42 CST |                      | 0                      | Source: Trained Spotter      |
| A wind gust to 70 mph was also reported.  |                    |                      |                        |                              |
| <b>CUSTER COUNTY --- 4.0 W WEATHERFORD [35.53, -98.77]</b>  |                    |                      |                        |                              |

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|----------|--------------------|-------------------|---------------------|------------------------------|
|          | 07/25/11 16:42 CST |                   | 0                   | Thunderstorm Wind (EG 61 kt) |
|          | 07/25/11 16:42 CST |                   | 0                   | Source: Trained Spotter      |

Quarter-size hail was also reported with the wind gust.

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### CUSTER COUNTY --- WEATHERFORD [35.53, -98.70]

|                    |   |                                |
|--------------------|---|--------------------------------|
| 07/25/11 16:45 CST | 0 | Thunderstorm Wind (EG 74 kt)   |
| 07/25/11 17:10 CST | 0 | Source: Fire Department/Rescue |

Seven high voltage transmission structures were destroyed, with an additional 30 large wooden power poles were destroyed. Several hundred residents were without power for several hours. Large trees, some of which were 15 to 20 foot tall and a foot-and-a-half wide were uprooted or snapped. A two-story house was also partially blown off of its foundation. Monetary damage estimates were not available.

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### CUSTER COUNTY --- 1.8 NE WEATHERFORD [35.55, -98.68]

|                    |   |                       |
|--------------------|---|-----------------------|
| 07/25/11 17:05 CST | 0 | Hail (1.00 in)        |
| 07/25/11 17:05 CST | 0 | Source: SHAVE Project |

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### CADDO COUNTY --- 3.0 NNE HYDRO [35.59, -98.56]

|                    |   |                              |
|--------------------|---|------------------------------|
| 07/25/11 17:30 CST | 0 | Thunderstorm Wind (EG 52 kt) |
| 07/25/11 17:30 CST | 0 | Source: Public               |

No damage was reported with the wind gust.

**Thunderstorms that had developed over the Texas panhandle, continued to develop eastward into western Oklahoma with an uncapped airmass temperatures in the 90s to near 100 degrees. Strong winds were the main threat, but some areas also received beneficial rainfall. Unfortunately, the strong winds caused extensive damage in and around Weatherford, with wind gusts estimated over 80 mph.**

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### MAJOR COUNTY --- 10.0 N CHESTER [36.36, -98.92]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/29/11 14:15 CST | 6K | Thunderstorm Wind (EG 56 kt) |
| 07/29/11 14:15 CST | 0  | Source: Emergency Manager    |

Several power poles were downed along Highway 281, 5 miles south of Highway 412. Monetary damages were estimated.

**An outflow boundary generated by thunderstorms over southwest Kansas moved into northwest Oklahoma. Afternoon heating along this boundary allowed for scattered thunderstorms. Although most produced non-severe gusty winds and heavy rainfall, one thunderstorm over Major county produced a wind gust that damaged power poles. No other damage was reported.**

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### LOGAN COUNTY --- 4.0 SSE MARSHALL [36.11, -97.59]

|                    |   |                              |
|--------------------|---|------------------------------|
| 07/30/11 13:50 CST | 0 | Thunderstorm Wind (MG 67 kt) |
| 07/30/11 13:50 CST | 0 | Source: Mesonet              |

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### KINGFISHER COUNTY --- DOVER [35.98, -97.91]

|                    |   |                |
|--------------------|---|----------------|
| 07/30/11 15:00 CST | 0 | Heavy Rain     |
| 07/30/11 15:45 CST | 0 | Source: Public |

Heavy rainfall measured 2.2 inches over a 50 minute period.

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### KINGFISHER COUNTY --- DOVER [35.98, -97.91]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/30/11 15:45 CST | 2K | Thunderstorm Wind (EG 56 kt) |
| 07/30/11 15:45 CST | 0  | Source: Public               |

A shed was blown over and minor tree damage was reported. Monetary damages were estimated.

**Early morning thunderstorms over northern Oklahoma dissipated and left behind an outflow boundary that became the main focus for more storms during the afternoon. A few wind gusts exceeded 65 mph, with some damage reported over Kingfisher county.**

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## TEXAS, Western North

(TX-Z083) HARDEMAN, (TX-Z084) FOARD, (TX-Z085) WILBARGER, (TX-Z086) WICHITA, (TX-Z087) KNOX, (TX-Z088) BAYLOR, (TX-Z089) ARCHER, (TX-Z090) CLAY

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|          | 07/01/11 00:00 CST |                   | 0                   | Drought                |
|          | 07/31/11 23:59 CST |                   | 0                   |                        |

The lack of beneficial rainfall, combined with extreme high temperatures continued the drought that had plagued much of Texas for several months. July 2011 was characterized by temperatures over 100 degrees each day, with little to no rainfall. The hard ground made any agricultural efforts futile. The dry vegetation also contributed to several grass fires. Some municipalities had already restricted water use, as water levels in area lakes continued to fall to dangerously low levels.

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### WILBARGER COUNTY --- LOCKETT [34.08, -99.37]

|                    |    |                              |
|--------------------|----|------------------------------|
| 07/11/11 16:45 CST | 2K | Thunderstorm Wind (EG 52 kt) |
| 07/11/11 16:45 CST | 0  | Source: Public               |

Several tree limbs were downed, with the largest being around 5 inches in diameter. Monetary damages were estimated.

Thunderstorms developed during the intense afternoon heating parts of western north Texas. One thunderstorm produced severe winds due to the dry sub-cloud air, with some damage to tree limbs reported.