

## Storm Data and Unusual Weather Phenomena - February 2007

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

**OKLAHOMA, Western, Central and Southeast**

HARPER (OK-Z004), WOODS (OK-Z005), ALFALFA (OK-Z006), GRANT (OK-Z007), KAY (OK-Z008), ELLIS (OK-Z009), WOODWARD (OK-Z010), MAJOR (OK-Z011), GARFIELD (OK-Z012), NOBLE (OK-Z013), ROGER MILLS (OK-Z014), DEWEY (OK-Z015), CUSTER (OK-Z016), BLAINE (OK-Z017), KINGFISHER (OK-Z018), LOGAN (OK-Z019)

|                    |       |         |
|--------------------|-------|---------|
| 02/01/07 00:00 CST | 0     | Drought |
| 02/28/07 23:59 CST | 0.50M |         |

Severe (D2) drought conditions continued across much of the northern half of Oklahoma during the month of February. Normal rainfall that fell for February did nothing to help the drought, considering precipitation totals are not usually high in February. Water worries continue over this area with lake levels remaining low. Even with beneficial above normal rainfall earlier this year, and the slow improvement of lake levels over the last 3 months, many boat docks and ramps still remained on dry ground. Many people did not venture out on area lakes this month due to prolonged cold spells, so recreation in and around the lake were minimally affected. Water rationing is starting to be considered, although most lakes are still considered at safe levels for everyday living.

The agriculture industry continued to be hit hard by the drought. Recent rainfall has made for a good start to the wheat pasture growth. As wheat pastures flourish, this will help in cattle grazing. However, one additional problem to the many farmers have faced during this drought was the freeze burn on the wheat during the prolonged cold temperatures and freezing precipitation over a good portion of the month. Farmers had to supplement feeding for their cattle due to the wheat being frozen over, which was an additional unexpected cost.

Above normal precipitation during the spring months will be the key for saving their remaining 2007 crops. The top 12 inches of the soil remains ok, but the soil below this remains very dry. The crop damage for the area was estimated at 500 thousand dollars.

**ELLIS COUNTY**

|             |                    |   |                  |
|-------------|--------------------|---|------------------|
| 9.0 S FARGO | 02/23/07 20:27 CST | 0 | Hail (0.75 in)   |
|             | 02/23/07 20:27 CST | 0 | 36.2399N, 99.62W |

**WOODWARD COUNTY**

|              |                    |   |                  |
|--------------|--------------------|---|------------------|
| 4.0 W SHARON | 02/23/07 20:43 CST | 0 | Hail (0.75 in)   |
|              | 02/23/07 20:43 CST | 0 | 36.28N, 99.4017W |

**WOODWARD COUNTY**

|                 |                    |   |                              |
|-----------------|--------------------|---|------------------------------|
| 2.0 W MOORELAND | 02/23/07 21:20 CST | 0 | Thunderstorm Wind (MG 59 kt) |
|                 | 02/23/07 21:20 CST | 0 | 36.43N, 99.2359W             |

**ELLIS COUNTY**

|                |                    |   |                    |
|----------------|--------------------|---|--------------------|
| 11.0 SE ARNETT | 02/23/07 22:20 CST | 0 | Hail (1.75 in)     |
|                | 02/23/07 22:20 CST | 0 | 36.0176N, 99.6309W |

**GREER COUNTY**

|          |                    |   |                |
|----------|--------------------|---|----------------|
| BRINKMAN | 02/23/07 22:45 CST | 0 | Hail (0.75 in) |
|          | 02/23/07 22:45 CST | 0 | 35.02N, 99.52W |

**GREER COUNTY**

|              |                    |   |                  |
|--------------|--------------------|---|------------------|
| 2.0 S WILLOW | 02/23/07 22:54 CST | 0 | Hail (0.75 in)   |
|              | 02/23/07 22:54 CST | 0 | 35.0211N, 99.52W |

A powerful storm system developed over the lee of the Rockies and moved northeast into the Midwestern United States. A trailing dry line moved into western Oklahoma, with thunderstorms developing along it during the late afternoon hours. The severe thunderstorms continued into the late evening hours, producing large hail up to golf ball size and severe wind gusts. The 3 counties that were affected were Greer, Woodward, and Ellis counties.

HARPER (OK-Z004), KAY (OK-Z008), ROGER MILLS (OK-Z014), BLAINE (OK-Z017), OKLAHOMA (OK-Z025), CLEVELAND (OK-Z029), POTTAWATOMIE (OK-Z030), HARMON (OK-Z033), GREER (OK-Z034), KIOWA (OK-Z035), JACKSON (OK-Z036), TILLMAN (OK-Z037), COMANCHE (OK-Z038), STEPHENS (OK-Z039), MURRAY (OK-Z041), PONTOTOC (OK-Z042), JEFFERSON (OK-Z045), CARTER (OK-Z046), JOHNSTON (OK-Z047), LOVE (OK-Z050), MARSHALL (OK-Z051), BRYAN (OK-Z052)

|                    |       |                       |
|--------------------|-------|-----------------------|
| 02/24/07 11:55 CST | 0.39M | High Wind (MAX 55 kt) |
| 02/24/07 19:30 CST | 0     |                       |

A strong storm system moved into the Midwestern United states, with a trailing strong cold front that moved through Oklahoma during the late evening of the 23rd and the early morning of the 24th. The strengthening storm system created a tight pressure gradient over the southern plains, resulting in very strong winds at the surface. The strong winds lasted through much of the afternoon over

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Oklahoma before lessening during the early evening hours.

The strong winds caused a lot of damage across the state. Most of the damage consisted of extensive tree and power line damage. The power line damage resulted in thousands to lose power during parts of the afternoon. Semi-trucks were overturned due to high wind in Stephens and Comanche counties. Tin roofs peeled off of buildings in Stephens, Comanche, and Love counties. Other structural damage to homes occurred in Carter, Jackson, Murray, and Johnston counties. Grass fires moved quickly due to the high wind with the biggest occurring in Comanche county. Forty to fifty acres burned before being finally extinguished. Another grass fire in Oklahoma county resulted in 60 to 80 cars completely burned at a auto salvage yard. Monetary value for damage is estimated at \$388 thousand.

### TEXAS, Western North

WICHITA (TX-Z086), ARCHER (TX-Z089)

02/24/07 11:25 CST

20K

High Wind (MAX 52 kt)

02/24/07 14:25 CST

0

A strong storm system moved into the Midwestern United states, with a trailing strong cold front that moved through western north Texas during the early morning of the 24th. The strengthening storm system created a tight pressure gradient over the southern plains, resulting in very strong winds at the surface. The strong winds lasted through much of the afternoon over western north Texas before lessening during the early evening hours.

The strong winds caused sporadic damage over northern Texas. Most of the damage consisted of extensive tree and power line damage. The power line damage resulted in many losing power during parts of the afternoon.