

Storm Data and Unusual Weather Phenomena - March 2018

| Location | Date/Time | Deaths & Injuries | Property & Crop Dmg | Event Type and Details |
|--|--------------------|----------------------|------------------------|--------------------------------|
| ARKANSAS, Northwest | | | | |
| CRAWFORD COUNTY --- 0.5 NE UNIONTOWN [35.58, -94.44] | | | | |
| | 03/10/18 16:10 CST | | 15K | Hail (1.25 in) |
| | 03/10/18 16:10 CST | | 0 | Source: Public |
| CRAWFORD COUNTY --- 0.2 E CEDARVILLE [35.57, -94.37] | | | | |
| | 03/10/18 16:18 CST | | 0 | Hail (0.75 in) |
| | 03/10/18 16:18 CST | | 0 | Source: Broadcast Media |
| CRAWFORD COUNTY --- 1.8 NE FIGURE FIVE [35.54, -94.35] | | | | |
| | 03/10/18 16:22 CST | | 0 | Hail (0.75 in) |
| | 03/10/18 16:22 CST | | 0 | Source: Public |
| CRAWFORD COUNTY --- 0.5 ESE RUDY [35.53, -94.27] | | | | |
| | 03/10/18 16:30 CST | | 0 | Hail (0.75 in) |
| | 03/10/18 16:30 CST | | 0 | Source: Broadcast Media |
| CRAWFORD COUNTY --- 0.5 ESE ALMA [35.48, -94.22] | | | | |
| | 03/10/18 16:40 CST | | 0 | Hail (0.75 in) |
| | 03/10/18 16:40 CST | | 0 | Source: Broadcast Media |
| CRAWFORD COUNTY --- 0.6 ESE ALMA [35.48, -94.22] | | | | |
| | 03/10/18 16:40 CST | | 0 | Hail (1.00 in) |
| | 03/10/18 16:40 CST | | 0 | Source: Broadcast Media |
| FRANKLIN COUNTY --- 2.1 S TONEY [35.49, -93.97] | | | | |
| | 03/10/18 16:50 CST | | 0 | Hail (0.88 in) |
| | 03/10/18 16:50 CST | | 0 | Source: Fire Department/Rescue |
| SEBASTIAN COUNTY --- 2.1 SE RIVERDALE [35.41, -94.09] | | | | |
| | 03/10/18 16:54 CST | | 25K | Hail (1.75 in) |
| | 03/10/18 16:54 CST | | 0 | Source: Public |
| Large hail up to golfball size covered the ground several inches deep. | | | | |
| FRANKLIN COUNTY --- 4.3 NNW VESTA [35.44, -94.05] | | | | |
| | 03/10/18 17:03 CST | | 0 | Hail (0.88 in) |
| | 03/10/18 17:03 CST | | 0 | Source: Fire Department/Rescue |
| FRANKLIN COUNTY --- 2.6 WNW SUB ROSA [35.40, -93.99] | | | | |
| | 03/10/18 17:06 CST | | 15K | Hail (1.75 in) |
| | 03/10/18 17:06 CST | | 0 | Source: Emergency Manager |
| Large hail up to golfball size covered the ground several inches deep. | | | | |
| FRANKLIN COUNTY --- 6.0 N CHARLESTON [35.39, -94.03] | | | | |
| | 03/10/18 17:06 CST | | 20K | Hail (2.00 in) |
| | 03/10/18 17:06 CST | | 0 | Source: Broadcast Media |
| FRANKLIN COUNTY --- 0.6 S OZARK [35.49, -93.83] | | | | |
| | 03/10/18 17:07 CST | | 0 | Hail (1.00 in) |
| | 03/10/18 17:07 CST | | 0 | Source: Emergency Manager |
| FRANKLIN COUNTY --- 0.4 NNW BRANCH [35.31, -93.95] | | | | |
| | 03/10/18 17:17 CST | | 0 | Hail (1.00 in) |
| | 03/10/18 17:17 CST | | 0 | Source: Fire Department/Rescue |

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| CRAWFORD COUNTY --- 0.4 NE UNIONTOWN [35.58, -94.44] | | | | |
| | 03/10/18 17:20 CST | | 0 | Hail (1.00 in) |
| | 03/10/18 17:20 CST | | 0 | Source: Amateur Radio |
| CRAWFORD COUNTY --- 1.0 SE UNIONTOWN [35.57, -94.44] | | | | |
| | 03/10/18 17:27 CST | | 20K | Hail (1.75 in) |
| | 03/10/18 17:27 CST | | 0 | Source: Law Enforcement |
| Large hail up to golfball size covered the ground several inches deep. | | | | |
| Thunderstorms developed across portions of eastern Oklahoma and northwestern Arkansas during the afternoon of the 10th along and near a warm front that stretched across the area. Moderately strong instability combined with very strong deep layer wind shear resulted in the development of several supercell thunderstorms. The strongest of these storms produced large hail up to two inches in diameter across west-central Arkansas. | | | | |
| SEBASTIAN COUNTY --- 0.8 E ENTERPRISE [35.27, -94.42], 0.8 W CRESENT [35.28, -94.38] | | | | |
| | 03/27/18 08:43 CST | | 20K | Tornado (EF0, L: 2.00 mi , W: 350 yd) |
| | 03/27/18 08:45 CST | | 0 | Source: NWS Storm Survey |
| This tornado damaged or destroyed several barns and snapped numerous large tree limbs as it moved east-northeast within the Cedar Creek valley, north of Highway 45. Based on this damage, maximum estimated wind in the tornado was 75 to 85 mph. | | | | |
| SEBASTIAN COUNTY --- 6.0 S FT SMITH [35.29, -94.42] | | | | |
| | 03/27/18 08:50 CST | | 0 | Thunderstorm Wind (EG 56 kt) |
| | 03/27/18 08:50 CST | | 0 | Source: Public |
| Strong thunderstorm wind snapped large tree limbs. | | | | |
| FRANKLIN COUNTY --- 2.0 SE OZARK [35.48, -93.80] | | | | |
| | 03/27/18 09:43 CST | | 0 | Thunderstorm Wind (EG 65 kt) |
| | 03/27/18 09:43 CST | | 0 | Source: Emergency Manager |
| Strong thunderstorm wind blew down trees. | | | | |
| FRANKLIN COUNTY --- 3.0 E OZARK [35.50, -93.78] | | | | |
| | 03/27/18 09:45 CST | | 0 | Thunderstorm Wind (EG 65 kt) |
| | 03/27/18 09:45 CST | | 0 | Source: Emergency Manager |
| Strong thunderstorm wind blew down trees. | | | | |
| FRANKLIN COUNTY --- 3.0 ESE OZARK [35.48, -93.78] | | | | |
| | 03/27/18 09:45 CST | | 5K | Thunderstorm Wind (EG 65 kt) |
| | 03/27/18 09:45 CST | | 0 | Source: Emergency Manager |
| Strong thunderstorm wind damaged two homes. | | | | |
| BENTON COUNTY --- HEALING SPGS [36.25, -94.28], 1.2 S GENTRY [36.25, -94.48], 2.3 E DECATUR ARPT [36.35, -94.41], 1.7 NW CENTERTON [36.37, -94.30] | | | | |
| | 03/27/18 10:30 CST | | 0 | Flash Flood (due to Heavy Rain) |
| | 03/27/18 15:00 CST | | 0 | Source: Storm Chaser |
| Portions of numerous roads were flooded and impassable, including portions of Highway 12 and Highway 264. | | | | |
| MADISON COUNTY --- AURORA [36.00, -93.70], 1.1 S AURORA [35.98, -93.70], 2.8 ESE AURORA [35.98, -93.65], 2.4 E AURORA [36.00, -93.66] | | | | |
| | 03/27/18 11:00 CST | | 0 | Flash Flood (due to Heavy Rain) |
| | 03/27/18 15:00 CST | | 0 | Source: Department of Highways |
| Portions of Highway 127 east of town were flooded and impassable. | | | | |

Widespread thunderstorms developed across eastern Oklahoma during the evening of the 26th as a cold front moved into the area. These thunderstorms slowly spread into northwestern Arkansas during the morning of the 27th. The strongest storms produced a tornado and damaging wind gusts across portions of west-central Arkansas. The heavy rainfall from these thunderstorms resulted in

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isolated flash flooding across portions of northwestern Arkansas.

OKLAHOMA, Eastern

(OK-Z054) OSAGE, (OK-Z059) PAWNEE

| | | | | |
|--------------------|--|--|---|---------|
| 03/01/18 00:00 CST | | | 0 | Drought |
| 03/31/18 23:59 CST | | | 0 | |

Although much of eastern Oklahoma received near normal to above normal rainfall during March 2018, Osage and Pawnee Counties only received between 10 and 50 percent of normal average rainfall amounts for the month. As a result of the continued rainfall deficit across this portion of northeastern Oklahoma, severe drought (D2) conditions persisted through March. Monetary damage estimates due to the drought were not available.

(OK-Z049) PUSHMATAHA, (OK-Z054) OSAGE

| | | | | |
|--------------------|--|--|---|----------|
| 03/06/18 12:00 CST | | | 0 | Wildfire |
| 03/09/18 22:00 CST | | | 0 | |

Strong gusty wind, low relative humidity, and drought-stricken, dormant vegetation promoted the rapid spread of several large wildfires in eastern Oklahoma during early March. Wildfires burned over 3500 acres in Osage County and over 800 acres in Pushmataha County from the 6th through the 9th.

(OK-Z049) PUSHMATAHA, (OK-Z054) OSAGE, (OK-Z055) WASHINGTON, (OK-Z073) PITTSBURG, (OK-Z075) LATIMER, (OK-Z076) LE FLORE

| | | | | |
|--------------------|--|--|---|----------|
| 03/10/18 11:00 CST | | | 0 | Wildfire |
| 03/15/18 23:00 CST | | | 0 | |

Unseasonably warm temperatures, strong gusty wind, low relative humidity, and drought-stricken, dormant vegetation promoted the rapid spread of several large wildfires in eastern Oklahoma during the middle of March. Wildfires burned over 2400 acres in Pushmataha County, over 2100 acres in Pittsburg County, over 1300 acres in Latimer County, over 800 acres in Osage and Washington Counties, and over 350 acres in Le Flore County from the 10th through the 15th.

MUSKOGEE COUNTY --- 0.5 SSE BRAGGS [35.66, -95.20]

| | | | | |
|--------------------|--|--|---|----------------|
| 03/10/18 15:23 CST | | | 0 | Hail (0.75 in) |
| 03/10/18 15:23 CST | | | 0 | Source: Public |

SEQUOYAH COUNTY --- 0.7 N SHORT [35.58, -94.48]

| | | | | |
|--------------------|--|--|-----|---------------------------|
| 03/10/18 16:06 CST | | | 15K | Hail (1.75 in) |
| 03/10/18 16:06 CST | | | 0 | Source: Emergency Manager |

Large hail up to golfball size covered the ground several inches deep.

WAGONER COUNTY --- 1.6 SSE LA BARGE [35.96, -95.37]

| | | | | |
|--------------------|--|--|---|----------------|
| 03/10/18 19:02 CST | | | 0 | Hail (0.88 in) |
| 03/10/18 19:02 CST | | | 0 | Source: Public |

Thunderstorms developed across portions of eastern Oklahoma and northwestern Arkansas during the afternoon of the 10th along and near a warm front that stretched across the area. Moderately strong instability combined with very strong deep layer wind shear resulted in the development of several supercell thunderstorms. The strongest of these storms produced large hail up to golfball size across portions of east-central and northeastern Oklahoma.

MAYES COUNTY --- 0.1 E LOCUST GROVE [36.20, -95.17]

| | | | | |
|--------------------|--|--|---|----------------|
| 03/19/18 02:05 CST | | | 0 | Hail (0.75 in) |
| 03/19/18 02:05 CST | | | 0 | Source: Public |

Widespread thunderstorms developed across eastern Oklahoma during the early morning hours of the 19th as an occluded frontal system moved into the region. The strongest storms produced marginally severe hail over portions of northeastern Oklahoma.

(OK-Z049) PUSHMATAHA, (OK-Z065) OKFUSKEE, (OK-Z073) PITTSBURG

| | | | | |
|--------------------|--|--|---|----------|
| 03/22/18 10:00 CST | | | 0 | Wildfire |
| 03/23/18 23:00 CST | | | 0 | |

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Unseasonably warm temperatures, strong gusty wind, low relative humidity, and drought-stricken, dormant vegetation promoted the rapid spread of several large wildfires in eastern Oklahoma during the end of March. Wildfires burned over 6300 acres in Pittsburg County, over 1800 acres in Okfuskee County, and over 400 acres in Pushmataha County from the 22nd through the 23rd.

WAGONER COUNTY --- ONETA [36.02, -95.72]

| | | | | |
|--|--------------------|---|--|------------------------------|
| | 03/26/18 22:11 CST | 0 | | Thunderstorm Wind (EG 52 kt) |
| | 03/26/18 22:11 CST | 0 | | Source: NWS Storm Survey |

Strong thunderstorm wind snapped large tree limbs.

Widespread thunderstorms developed across eastern Oklahoma during the evening of the 26th as a cold front moved into the area. The strongest storms produced strong wind gusts.

ADAIR COUNTY --- 1.0 NE BALLARD [36.11, -94.56], 2.3 N WATTS [36.15, -94.57], 2.8 NW WATTS [36.15, -94.61], 1.7 W WATTS [36.12, -94.60]

| | | | | |
|--|--------------------|---|--|-----------------------------------|
| | 03/27/18 20:30 CST | 0 | | Flood (due to Heavy Rain) |
| | 03/28/18 12:00 CST | 0 | | Source: Official NWS Observations |

The Illinois River near Watts rose above its flood stage of 13 feet at 9:30 pm CDT on March 27th. The river crested at 17.90 feet at 4:00 am CDT on the 28th, resulting in moderate flooding. Farmland and permanent campgrounds were flooded. The river fell below flood stage at 1:00 pm CDT on the 28th.

CHEROKEE COUNTY --- TAHLEQUAH [35.92, -94.97], 1.1 ESE PARK HILL [35.86, -94.93], 4.0 SSE ELLERVILLE [35.98, -94.87], 3.2 SSE MOODYS [35.99, -94.93]

| | | | | |
|--|--------------------|---|--|-----------------------------------|
| | 03/28/18 03:00 CST | 0 | | Flood (due to Heavy Rain) |
| | 03/29/18 13:15 CST | 0 | | Source: Official NWS Observations |

The Illinois River near Tahlequah rose above its flood stage of 11 feet at 4:00 am CDT on March 28th. The river crested at 14.86 feet at 11:30 pm CDT on the 28th, resulting in moderate flooding. Some county roads, cabins, and parks were flooded. The river fell below flood stage at 2:15 pm CDT on the 29th.

A cold front moved through eastern Oklahoma on the 26th and 27th. Very moist air resided across the region ahead of the front.

Widespread showers and thunderstorms developed over the area as the front moved into eastern Oklahoma, and the unseasonably moist air supported heavy rainfall with this activity. Much of northeastern Oklahoma received between two and five inches of rain over a 36 to 48 hour period. This widespread, heavy rainfall resulted in moderate river flooding in the Lower Arkansas River Basin.