

## Storm Data and Unusual Weather Phenomena - December 2021

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|--|--------------------|-------------------|---------------------|--------------------------------|
| <b>ARKANSAS, Northwest</b>                               |                    |                   |                     |                                |
| <b>FRANKLIN COUNTY --- 1.5 ENE OZARK [35.51, -93.81]</b> |                    |                   |                     |                                |
|  | 12/10/21 20:59 CST |                   | 0                   | Thunderstorm Wind (EG 52 kt)   |
|  | 12/10/21 20:59 CST |                   | 0                   | Source: Fire Department/Rescue |

Thunderstorm wind gusts were estimated to 60 mph.

**Strong to severe thunderstorms developed across eastern Oklahoma during the evening of the 10th, ahead of a cold front that moved through the region. The thunderstorms moved east and northeast across portions of northwestern Arkansas. The strongest storms produced damaging wind gusts.**

|  |                    |  |   |                                 |
|--|--------------------|--|---|---------------------------------|
| <b>WASHINGTON COUNTY --- 1.0 NW LINCOLN [35.96, -94.43], 1.5 ENE LINCOLN [35.96, -94.40], 1.2 N CANEHILL [35.94, -94.40], 1.2 SW LINCOLN [35.94, -94.44]</b> |                    |  |   |                                 |
|  | 12/17/21 15:00 CST |  | 0 | Flash Flood (due to Heavy Rain) |
|  | 12/17/21 18:45 CST |  | 0 | Source: Emergency Manager       |

Emergency management reported several roads in and around Lincoln were flooded.

|  |                    |  |   |                                 |
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| <b>WASHINGTON COUNTY --- JOHNSON [36.13, -94.17], 0.5 N JOHNSON [36.14, -94.17], 1.1 NE JOHNSON [36.14, -94.16], 0.8 E JOHNSON [36.13, -94.16]</b> |                    |  |   |                                 |
|  | 12/17/21 15:00 CST |  | 0 | Flash Flood (due to Heavy Rain) |
|  | 12/17/21 18:45 CST |  | 0 | Source: Emergency Manager       |

Emergency management reported multiple roadways in and around Johnson were flooded.

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| <b>BENTON COUNTY --- 1.0 ENE BEATY [36.46, -94.50], 2.4 SSW SPRINGTOWN [36.24, -94.43], 4.7 NNE BEAVER LAKE [36.43, -93.84], 2.1 N PEA RIDGE [36.48, -94.12]</b> |                    |  |   |                                 |
|  | 12/17/21 16:30 CST |  | 0 | Flash Flood (due to Heavy Rain) |
|  | 12/17/21 19:45 CST |  | 0 | Source: Emergency Manager       |

Portions of numerous roads were flooded by heavy rainfall across western, northern, and northeastern Benton County.

|  |                    |  |   |                                 |
|--|--------------------|--|---|---------------------------------|
| <b>WASHINGTON COUNTY --- 1.7 NNW WEDINGTON [36.10, -94.44], 1.5 NNE WEDINGTON [36.10, -94.41], 0.7 NE WEDINGTON [36.09, -94.41], 1.3 WNW WEDINGTON [36.09, -94.44]</b> |                    |  |   |                                 |
|  | 12/17/21 18:00 CST |  | 0 | Flash Flood (due to Heavy Rain) |
|  | 12/17/21 19:45 CST |  | 0 | Source: Emergency Manager       |

Emergency management reported multiple roadways in and around Wedington were flooded.

**Widespread showers and thunderstorms developed across portions of northwestern Arkansas on the 17th, north of a warm front that was approaching from northeastern Texas, and ahead of a strong upper level disturbance that moved into the Southern Plains from the Southern Rockies. Unseasonably rich moisture was in place across the area, which promoted locally heavy rainfall. Additionally, some of the thunderstorms moved repeatedly over the same areas, which resulted in flash flooding. Two to four inches of rain fell across much of northwestern Arkansas, with locally as much as five inches of rain reported.**

## OKLAHOMA, Eastern

|  |                    |  |   |         |
|--|--------------------|--|---|---------|
| <b>(OK-Z049) PUSHMATAHA, (OK-Z053) CHOCTAW, (OK-Z054) OSAGE, (OK-Z055) WASHINGTON, (OK-Z056) NOWATA, (OK-Z057) CRAIG, (OK-Z059) PAWNEE, (OK-Z060) TULSA, (OK-Z061) ROGERS, (OK-Z062) MAYES, (OK-Z064) CREEK, (OK-Z067) WAGONER, (OK-Z076) LE FLORE</b> |                    |  |   |         |
|  | 12/01/21 00:00 CST |  | 0 | Drought |
|  | 12/31/21 23:59 CST |  | 0 |         |

Some areas of eastern Oklahoma received much needed precipitation in December 2021, but portions of northeastern Oklahoma north of I-44, as well as far southeastern Oklahoma, received less than 50 percent of the average monthly precipitation. As a result of the lack of precipitation in some areas, Severe Drought (D2) conditions expanded across portions of northeastern and southeastern Oklahoma during the month. Extreme Drought (D3) conditions developed across portions of Le Flore, Choctaw and Pushmataha Counties during the month.

|  |  |  |  |  |
|--|--|--|--|--|
| <b>TULSA COUNTY --- 1.7 E WEST TULSA [36.15, -95.99]</b> |  |  |  |  |
|--|--|--|--|--|

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| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details            |
|---|--------------------|-------------------|---------------------|-----------------------------------|
|   | 12/05/21 20:19 CST |                   | 0                   | Thunderstorm Wind (MG 52 kt)      |
|   | 12/05/21 20:19 CST |                   | 0                   | Source: Trained Spotter           |
| Thunderstorm wind gusts to 60 mph were measured.  |                    |                   |                     |                                   |
| <hr/>   |                    |                   |                     |                                   |
| <b>TULSA COUNTY --- 1.6 WNW WEST TULSA [36.16, -96.05]</b>  |                    |                   |                     |                                   |
|   | 12/05/21 20:25 CST |                   | 0                   | Hail (1.00 in)                    |
|   | 12/05/21 20:25 CST |                   | 0                   | Source: Emergency Manager         |
| <hr/>   |                    |                   |                     |                                   |
| <b>TULSA COUNTY --- 0.6 W (TUL)TULSA INTL ARPT [36.20, -95.89]</b>  |                    |                   |                     |                                   |
|   | 12/05/21 20:36 CST |                   | 0                   | Hail (1.00 in)                    |
|   | 12/05/21 20:36 CST |                   | 0                   | Source: Public                    |
| <hr/>   |                    |                   |                     |                                   |
| <b>WAGONER COUNTY --- 8.1 NNW COWETA EASLEY ARPT [36.11, -95.60]</b>  |                    |                   |                     |                                   |
|   | 12/05/21 20:56 CST |                   | 0                   | Thunderstorm Wind (EG 61 kt)      |
|   | 12/05/21 20:56 CST |                   | 0                   | Source: NWS Storm Survey          |
| Strong thunderstorm wind snapped large tree limbs.  |                    |                   |                     |                                   |
| <hr/>   |                    |                   |                     |                                   |
| <b>MAYES COUNTY --- 0.3 N PENSACOLA [36.45, -95.13]</b>   |                    |                   |                     |                                   |
|   | 12/05/21 21:05 CST |                   | 20K                 | Hail (1.75 in)                    |
|   | 12/05/21 21:05 CST |                   | 0                   | Source: Emergency Manager         |
| Golf ball size hail damaged vehicles and homes.   |                    |                   |                     |                                   |
| <hr/>   |                    |                   |                     |                                   |
| <b>TULSA COUNTY --- 1.7 NNW BIXBY [35.97, -95.89]</b>   |                    |                   |                     |                                   |
|   | 12/05/21 21:10 CST |                   | 0                   | Hail (1.00 in)                    |
|   | 12/05/21 21:10 CST |                   | 0                   | Source: Broadcast Media           |
| <hr/>   |                    |                   |                     |                                   |
| <b>TULSA COUNTY --- 4.1 SSW BROKEN ARROW [36.00, -95.82]</b>  |                    |                   |                     |                                   |
|   | 12/05/21 21:11 CST |                   | 0                   | Hail (1.00 in)                    |
|   | 12/05/21 21:11 CST |                   | 0                   | Source: Trained Spotter           |
| Strong to severe thunderstorms developed across northeastern Oklahoma during the evening of the 5th, as a cold front moved into the area. The strongest thunderstorms produced hail up to golf ball size and damaging wind gusts.   |                    |                   |                     |                                   |
| <hr/>   |                    |                   |                     |                                   |
| <b>LATIMER COUNTY --- 4.0 ENE PANOLA [34.94, -95.15]</b>  |                    |                   |                     |                                   |
|   | 12/10/21 19:32 CST |                   | 15K                 | Thunderstorm Wind (EG 61 kt)      |
|   | 12/10/21 19:32 CST |                   | 0                   | Source: Emergency Manager         |
| Strong thunderstorm wind damaged the roof of a mobile home.   |                    |                   |                     |                                   |
| Strong to severe thunderstorms developed across portions of eastern Oklahoma during the evening of the 10th, ahead of a cold front that moved through the region. The strongest storms produced damaging wind gusts.  |                    |                   |                     |                                   |
| <hr/>   |                    |                   |                     |                                   |
| <b>(OK-Z067) WAGONER</b>  |                    |                   |                     |                                   |
|   | 12/15/21 11:00 CST |                   | 0                   | Wildfire                          |
|   | 12/16/21 20:00 CST |                   | 0                   |                                   |
| Record high temperatures, very strong and gusty southerly wind, and low humidity combined with dormant, dry fine fuels to promote conditions that supported the rapid spread of wildfire across eastern Oklahoma on the 15th. Several wildfires developed in these conditions, the largest of which burned over 350 acres in Wagoner County.        |                    |                   |                     |                                   |
| <hr/>   |                    |                   |                     |                                   |
| <b>CHEROKEE COUNTY --- 1.8 WNW MOODYS [36.04, -94.98], 2.1 NNW COOKSON [35.73, -94.98], 2.8 S BARBER [35.73, -94.87], 1.8 SE SCRAPER [36.08, -94.81], 3.5 N SCRAPER [36.15, -94.83]</b>   |                    |                   |                     |                                   |
|   | 12/18/21 10:45 CST |                   | 0                   | Flood (due to Heavy Rain)         |
|   | 12/19/21 19:15 CST |                   | 0                   | Source: Official NWS Observations |
| The Illinois River near Tahlequah rose above its flood stage of 11 feet at 10:45 am CST on December 18th. The river crested at 14.94 feet at 10:00 am CST on the 19th, resulting in moderate flooding. Some roads were flooded and impassable, and some cabins and parks were flooded. The river fell below flood stage at 7:15 pm CST on the 19th. |                    |                   |                     |                                   |

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|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

Widespread showers and thunderstorms developed across northeastern Oklahoma and northwestern Arkansas on the 17th, north of a warm front that was approaching from northeastern Texas, and ahead of a strong upper level disturbance that moved into the Southern Plains from the Southern Rockies. Unseasonably rich moisture was in place across the area, which promoted locally heavy rainfall. Some of the thunderstorms moved repeatedly over the same areas, which also resulted in locally heavy rainfall. Widespread two to four inch rainfall amounts fell across northeastern Oklahoma and northwestern Arkansas, with locally as much as five inches of rain reported in the Illinois River basin. This heavy rainfall resulted in flooding along the Illinois River, with moderate flooding occurring near Tahlequah.