Storm Data and Unusual Weather Phenomena - December 2018

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

ARKANSAS, Northwest

CARROLL COUNTY --- 0.2 NNW BERRYVILLE ARPT [36.38, -93.62]

	12/01/18 00:10 CST	10K	Thunderstorm Wind (EG 61 kt)
	12/01/18 00:10 CST	0	Source: Broadcast Media

Strong thunderstorm wind damaged hangars at the Carroll County Airport and uprooted trees.

CARROLL COUNTY --- 2.5 SSE BEAVER [36.44, -93.76]

	12/01/18 00:11 CST	5K	Thunderstorm Wind (EG 61 kt)
	12/01/18 00:11 CST	0	Source: Broadcast Media

Strong thunderstorm wind damaged a boat dock on Lake Leatherwood.

CARROLL COUNTY --- BERRYVILLE [36.37, -93.57]

	12/01/18 00:12 CST	0	Thunderstorm Wind (EG 61 kt)
	12/01/18 00:12 CST	0	Source: Broadcast Media

Strong thunderstorm wind uprooted trees.

CARROLL COUNTY --- 1.0 NE GREEN FOREST [36.33, -93.44]

	12/01/18 00:15 CST	5K	Thunderstorm Wind (EG 61 kt)
	12/01/18 00:15 CST	0	Source: Broadcast Media

Strong thunderstorm wind uprooted trees and damaged outbuildings.

A strong low pressure trough translated from the southwestern United States into the Southern Plains on November 30th and December 1st. Warm and moist air had spread northward into northwestern Arkansas ahead of this system. Atmospheric instability became moderately strong during the afternoon and evening hours to the east of a cold front that was over western Oklahoma, and south of a stationary front that was located across northern Oklahoma into southern Missouri. As the strong storm system moved into the Southern Plains on the 30th, wind fields throughout the atmosphere increased substantially, which resulted in very strong deep-layer and low-level wind shear across northwestern Arkansas during the evening and overnight hours.

Thunderstorms developed during the evening hours of the 30th across central and eastern Oklahoma, and moved northeast across northwestern Arkansas during the late evening hours of the 30th and early morning hours of December 1st. Moderately strong atmospheric instability across the area combined with very strong wind shear to produce organized severe thunderstorms. A squall line moved rapidly across the area ahead of the surging cold front and produced several tornadoes and damaging wind gusts in northwest Arkansas.

OKLAHOMA, Eastern

PITTSBURG COUNTY --- 4.6 W MC ALESTER [34.93, -95.85], 0.9 ESE NORTH MC ALESTER [34.95, -95.75], 1.7 SW HAILEYVILLE [34.83, -95.59], 0.9 E BLANCO [34.75, -95.75]

	12/26/18 23:30 CST	0	Flood (due to Heavy Rain)
	12/27/18 06:30 CST	0	Source: Law Enforcement

Portions of Highway 31 and Highway 63 were closed due to high water.

LE FLORE COUNTY --- 2.2 SE PANAMA [35.15, -94.64], 1.5 NNW TAHONA [35.19, -94.61], 1.8 NE COAL CREEK [35.20, -94.65], 1.5 SSE PANAMA [35.15, -94.66], 1.3 SE SHADY PT [35.12, -94.65], 2.0 E SHADY PT [35.13, -94.64]

	12/27/18 08:30 CST	0	Flood (due to Heavy Rain)
	12/29/18 11:30 CST	0	Source: Official NWS Observations

The Poteau River near Panama rose above its flood stage of 29 feet at 8:30 am CST on December 27th. The river crested at 34.80 feet at 8:45 am CST on the 28th, resulting in moderate flooding. Some agricultural land was flooded and portions of county roads were impassable. The river fell below flood stage at 11:30 am CST on the 29th.

Showers and thunderstorms developed across southeastern Oklahoma during the morning of the 26th, and became widespread over the region through the morning of the 27th. When the rain finally shifted to the east of the area on the 27th, widespread 2.5 to 5 inches of rain had fallen across southeastern Oklahoma. This widespread heavy rainfall resulted in areal flooding in some areas, as well as main

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stem river flooding. The Poteau River near Panama saw moderate flooding from this widespread heavy rainfall event.