

Storm Data and Unusual Weather Phenomena - March 2023

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

MADISON COUNTY --- HINDSVILLE [36.15, -93.85]

	03/02/23 12:00 CST	0		Hail (0.75 in)
	03/02/23 12:00 CST	0		Source: Public

Strong thunderstorms developed into northwestern Arkansas during the midday hours of the 2nd, north of a warm front that stretched across far northern Texas and southwestern Arkansas. The strongest storms produced hail up to penny size.

BENTON COUNTY --- 4.0 E MAYSVILLE [36.40, -94.51]

	03/23/23 16:31 CST	0		Hail (0.75 in)
	03/23/23 16:31 CST	0		Source: Trained Spotter

SEBASTIAN COUNTY --- 0.6 N LAVACA [35.34, -94.18], 0.9 NE LAVACA [35.34, -94.17], 0.7 ENE LAVACA [35.33, -94.17], 0.3 N LAVACA [35.33, -94.18]

	03/24/23 07:23 CST	0		Flash Flood (due to Heavy Rain)
	03/24/23 10:30 CST	0		Source: Trained Spotter

Locally heavy rainfall resulted in widespread flooding in Lavaca.

SEBASTIAN COUNTY --- 0.2 SSW BARLING [35.33, -94.30], 1.4 ESE BARLING [35.32, -94.28], 1.3 NE CAMP CHAFFEE [35.31, -94.28], 0.6 SW BARLING [35.32, -94.31]

	03/24/23 08:00 CST	0		Flash Flood (due to Heavy Rain)
	03/24/23 10:30 CST	0		Source: Public

Portions of Highway 22 were flooded in Barling.

FRANKLIN COUNTY --- 1.0 ENE GREENWOOD [35.40, -93.75], 1.3 SE GREENWOOD [35.38, -93.76], 2.2 ESE GREENWOOD [35.39, -93.73], 2.0 E GREENWOOD [35.40, -93.74]

	03/24/23 09:30 CST	0		Flash Flood (due to Heavy Rain)
	03/24/23 10:30 CST	0		Source: Emergency Manager

Portions of Plum Street were flooded.

Strong thunderstorms developed across northwestern Arkansas during the afternoon and evening hours of the 23rd, as a cold front moved slowly into the area. The strongest thunderstorms produced hail up to penny size. Locally heavy rainfall as a result of multiple rounds of thunderstorms developing along the slow-moving front, and spreading over the same areas, resulted in some flash flooding during the morning hours of the 24th.

OKLAHOMA, Eastern

(OK-Z054) OSAGE, (OK-Z055) WASHINGTON, (OK-Z056) NOWATA, (OK-Z057) CRAIG, (OK-Z059) PAWNEE, (OK-Z060) TULSA, (OK-Z061) ROGERS, (OK-Z064) CREEK, (OK-Z065) OKFUSKEE

	03/01/23 00:00 CST	0		Drought
	03/31/23 23:59 CST	0		

A number of widespread rainfall events affected much of eastern Oklahoma during March. Rainfall totals during the month ranged from between one quarter of an inch and fifteen inches from northwest to southeast across the area, with a very tight rainfall gradient along I-44. Areas north of I-44 generally received below average precipitation during the month, with portions of Osage, Pawnee, and Washington Counties receiving as little as 10 to 25 percent of normal precipitation for the month. Areas south of I-44 generally received above average precipitation for the month, with some portions of northeastern and southeastern Oklahoma receiving between 200 and 300 percent of normal precipitation for the month. Ongoing long-term drought conditions continued to improve across much of the area during March, with the exception of areas to the north of I-44. Extreme (D3) to exceptional (D4) drought conditions persisted across portions of Osage and Pawnee Counties, while severe (D2) drought conditions continued across portions of Creek, Washington, Nowata, and Craig Counties. Monetary damage estimates as a result of the drought were not available.

OTTAWA COUNTY --- 2.1 S NARCISSA [36.77, -94.93]

	03/02/23 12:26 CST	20K		Hail (1.50 in)
	03/02/23 12:26 CST	0		Source: Emergency Manager

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Ping pong ball size hail damaged vehicles and homes.				
OTTAWA COUNTY --- 1.0 NW MIAMI [36.89, -94.89]				
	03/02/23 12:35 CST		30K	Hail (1.75 in)
	03/02/23 12:35 CST		0	Source: Trained Spotter
Golf ball size hail damaged vehicles and homes.				
OTTAWA COUNTY --- 0.4 SSE MIAMI [36.88, -94.88]				
	03/02/23 12:37 CST		30K	Hail (1.75 in)
	03/02/23 12:37 CST		0	Source: Public
Golf ball size hail damaged vehicles, homes, and businesses.				
OTTAWA COUNTY --- 2.0 SSW COMMERCE [36.90, -94.88]				
	03/02/23 12:40 CST		0	Hail (0.88 in)
	03/02/23 12:40 CST		0	Source: Trained Spotter
CHOCTAW COUNTY --- 2.0 NW HUGO [34.04, -95.54]				
	03/02/23 17:21 CST		40K	Hail (1.25 in)
	03/02/23 17:21 CST		0	Source: Amateur Radio
Half dollar size hail damage vehicles and homes.				
CHOCTAW COUNTY --- 2.0 SSE FT TOWSON [33.99, -95.26]				
	03/02/23 17:45 CST		0	Thunderstorm Wind (EG 61 kt)
	03/02/23 17:45 CST		0	Source: Public
Strong thunderstorm wind uprooted a tree, and snapped numerous large tree limbs at Raymond Gary State Park.				
CHOCTAW COUNTY --- 2.1 WSW GOOD [34.04, -95.57], 0.9 WNW GOODLAND [33.99, -95.56], 2.7 WSW FALLON [33.99, -95.46], 2.6 ENE HUGO NASH ARPT [34.04, -95.46]				
	03/02/23 20:00 CST		0	Flash Flood (due to Heavy Rain)
	03/02/23 23:00 CST		0	Source: Emergency Manager
Portions of several roads were flooded and closed in Hugo.				
LE FLORE COUNTY --- 1.0 N WHITESBORO [34.70, -94.88], 1.2 NNW WHITESBORO [34.70, -94.89], 0.9 NNW WHITESBORO [34.69, -94.89], 0.8 N WHITESBORO [34.69, -94.88]				
	03/02/23 20:00 CST		0	Flash Flood (due to Heavy Rain)
	03/03/23 00:45 CST		0	Source: Public
Locally heavy rainfall resulted in widespread street flooding in Whitesboro. Multiple roads were closed due to the flooding.				
Strong to severe thunderstorms developed across portions of eastern Oklahoma during the midday hours of the 2nd, north of a warm front that stretched across far northern Texas. Elevated instability and strong deep layer wind shear supported the development of some supercells within the band of thunderstorms that moved northeast across the region. The strongest storms produced hail up to golf ball size.				
Another round of thunderstorms developed into southeastern Oklahoma during the evening hours, as the warm front moved northward into the area. Some of these thunderstorms also developed into supercells as moderately strong instability combined with strong deep layer shear along and south of the warm front. The strongest thunderstorms produced hail up to half dollar size and damaging wind gusts. Locally heavy rainfall resulted in isolated flash flooding.				
LE FLORE COUNTY --- 2.7 NW COAL CREEK [35.21, -94.70], 0.7 S POTEAU [35.04, -94.62], 2.6 NE ROCK IS [35.20, -94.44], 1.2 NNE ARKOMA [35.37, -94.44], 2.1 N BRADEN [35.31, -94.50], 3.4 N SCULLYVILLE [35.30, -94.56]				
	03/03/23 12:15 CST		0	Flood (due to Heavy Rain)
	03/05/23 10:45 CST		0	Source: Official NWS Observations
The Poteau River near Panama rose above its flood stage of 29 feet at 12:15 pm CST on March 3rd. The river crested at 34.52 feet at 10:30 am CST on the 4th, resulting in moderate flooding. Agricultural land was flooded from near Panama to near Arkoma, and county roads were closed. The river fell below flood stage at 10:45 am CST on the 5th.				

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Thunderstorms developed across southeastern Oklahoma during the midday hours of the 2nd, north of a warm front over Texas. Another round of thunderstorms developed during the evening hours as the warm front moved northward into the area, and an upper level low pressure system approached. The showers and thunderstorms moved east of the area during the morning of the 3rd, after producing widespread three to six inches of rainfall across much of southeastern Oklahoma. This widespread heavy rainfall resulted in moderate flooding of the Poteau River near Panama.

PUSHMATAHA COUNTY --- 3.2 W EUBANKS [34.43, -95.64]

03/11/23 19:50 CST			0	Hail (0.75 in)
03/11/23 19:50 CST			0	Source: Trained Spotter

Strong thunderstorms developed across southeastern Oklahoma during the evening of the 11th. The strongest thunderstorms produced hail up to penny size.

OKFUSKEE COUNTY --- BEARDEN [35.35, -96.38], 1.0 E BEARDEN [35.35, -96.36]

03/23/23 14:30 CST			25K	Hail (1.50 in)
03/23/23 14:37 CST			0	Source: Emergency Manager

Quarter to ping pong ball size hail covered the ground, and damaged homes and vehicles.

OKFUSKEE COUNTY --- 2.0 E OKEMAH [35.43, -96.26]

03/23/23 14:45 CST			20K	Hail (1.50 in)
03/23/23 14:45 CST			0	Source: Public

Ping pong ball size hail damaged vehicles and homes.

OKFUSKEE COUNTY --- 3.0 NNW CLEARVIEW [35.44, -96.20]

03/23/23 14:50 CST			20K	Hail (1.50 in)
03/23/23 14:50 CST			0	Source: Emergency Manager

Ping pong ball size hail damaged vehicles and homes.

MUSKOGEE COUNTY --- MUSKOGEE [35.75, -95.37]

03/23/23 15:55 CST			0	Hail (0.75 in)
03/23/23 15:55 CST			0	Source: Trained Spotter

CHEROKEE COUNTY --- 0.5 S TAHLEQUAH [35.91, -94.97]

03/23/23 16:16 CST			0	Hail (0.88 in)
03/23/23 16:16 CST			0	Source: Emergency Manager

OKMULGEE COUNTY --- 3.0 WNW WILDCAT [35.54, -95.79], 1.8 WNW WILDCAT [35.53, -95.78], 2.3 WNW WILDCAT [35.53, -95.79], 3.4 WNW WILDCAT [35.54, -95.80]

03/23/23 16:43 CST			0	Flash Flood (due to Heavy Rain)
03/23/23 20:15 CST			0	Source: Amateur Radio

Portions of Bryant Road were flooded southeast of Highway 52.

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

03/23/23 17:00 CST			0	Hail (1.00 in)
03/23/23 17:00 CST			0	Source: Public

ROGERS COUNTY --- 2.0 SW INOLA [36.13, -95.53], 2.4 SW INOLA [36.13, -95.54], 2.2 WSW INOLA [36.14, -95.53], 1.6 SW INOLA [36.14, -95.52]

03/23/23 20:41 CST			0	Flash Flood (due to Heavy Rain)
03/24/23 03:15 CST			0	Source: Trained Spotter

Portions of several county roads were flooded.

MAYES COUNTY --- 0.7 NNW PRYOR [36.31, -95.32], 0.7 N SPAVINAW [36.39, -95.05], 1.4 SSE SALINA [36.28, -95.14], 4.1 WNW MAZIE [36.12, -95.44]

03/23/23 21:00 CST			0	Flash Flood (due to Heavy Rain)
03/23/23 21:30 CST			0	Source: Emergency Manager

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<p>Portions of multiple roads were closed from Pryor to the county line south of Chouteau, as well as near Salina and Spavinaw. Water rescues were conducted near the intersection of the 425 Road and 620 Road southwest of Chouteau.</p> <p>Strong to severe thunderstorms developed across northeastern Oklahoma during the afternoon and evening hours of the 23rd, as a cold front moved slowly into the area. The strongest thunderstorms produced hail up to ping pong ball size. Locally heavy rainfall as a result of multiple rounds of thunderstorms developing along the slow-moving front, and spreading over the same areas, resulted in some flash flooding during the evening hours.</p>				
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LE FLORE COUNTY --- 0.6 W SHADY PT [35.13, -94.68], 1.5 SSE WISTER [34.95, -94.71], 1.1 E HOWE [34.95, -94.61], 0.9 NW GILMORE [35.06, -94.54], 0.6 W CAMERON [35.13, -94.56]	03/24/23 11:15 CST		0	Flood (due to Heavy Rain)
	03/25/23 15:30 CST		0	Source: Official NWS Observations
<p>The Poteau River near Poteau rose above its flood stage of 24 feet at 12:15 pm CDT on March 24th. The river crested at 28.97 feet at 1:15 am CDT on the 25th, resulting in moderate flooding. Agricultural land and county roads were flooded from southeast of Poteau to the mouth of Brazil Creek. The river fell below flood stage at 4:30 pm CDT on the 25th.</p>				
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LE FLORE COUNTY --- 2.7 NW COAL CREEK [35.21, -94.70], 0.7 S POTEAU [35.04, -94.62], 2.6 NE ROCK IS [35.20, -94.44], 1.2 NNE ARKOMA [35.37, -94.44], 2.1 N BRADEN [35.31, -94.50], 3.4 N SCULLYVILLE [35.30, -94.56]	03/24/23 12:30 CST		0	Flood (due to Heavy Rain)
	03/27/23 05:00 CST		0	Source: Official NWS Observations
<p>The Poteau River near Panama rose above its flood stage of 29 feet at 1:30 pm CDT on March 24th. The river crested at 37.93 feet at 5:15 pm CDT on the 25th, resulting in moderate flooding. Agricultural land was flooded from near Shady Point to near Arkoma, and many county roads were closed in the floodplain. The river fell below flood stage at 6:00 am CDT on the 27th.</p> <p>A cold front moved slowly through eastern Oklahoma on the 23rd and 24th, producing widespread showers and thunderstorms. The slow movement of the front, coupled with steering wind flow in the mid and upper levels of the atmosphere parallel to the front, resulted in thunderstorms moving repeatedly over the same areas. Widespread heavy rainfall from three to six inches fell across portions of southeastern Oklahoma, resulting in moderate flooding along the Poteau River near Panama and Poteau.</p>				
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MAYES COUNTY --- CHOUTEAU [36.18, -95.35]	03/30/23 16:36 CST		0	Hail (1.00 in)
	03/30/23 16:36 CST		0	Source: Emergency Manager
<p>Strong to severe thunderstorms developed across eastern Oklahoma during the late afternoon and evening of the 30th. The strongest thunderstorms produced large hail up to quarter size.</p>				
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(OK-Z054) OSAGE, (OK-Z055) WASHINGTON, (OK-Z056) NOWATA, (OK-Z057) CRAIG, (OK-Z059) PAWNEE, (OK-Z060) TULSA, (OK-Z061) ROGERS, (OK-Z070) MUSKOGEE, (OK-Z071) MCINTOSH	03/31/23 12:50 CST		75K	High Wind (MAX 56 kt)
	03/31/23 16:55 CST	1	0	
<p>A strong low pressure system was centered over the Central Plains on the 31st, with a very strong pressure gradient across eastern Oklahoma. Very strong wind fields were also present above the ground. The dry line associated with the low pressure system moved through eastern Oklahoma during the early afternoon, allowing the strong wind above the ground to mix to the surface, enhancing the already strong surface flow. Peak wind gusts to 65 mph were measured at the Oklahoma Mesonet station near Foraker in Osage County. Peak wind gusts to 64 mph were measured by the ASOS at the Tulsa International Airport. Wind gusts to 62 mph were measured by the Oklahoma Mesonet station near Centralia in Craig County. Wind gusts to 60 mph were measured by the Oklahoma Mesonet station near Wynona in Osage County, and by the ASOS at the Bartlesville Airport. Wind gusts to 59 mph were measured by the Oklahoma Mesonet station near Talala in Rogers County, and 58 mph wind gusts were measured by the ASOS at the Muskogee Airport. Tree and power line damage occurred as a result of these winds. One person was injured in Tulsa when a large tree limb fell on them at the Gathering Place.</p>				
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(OK-Z054) OSAGE, (OK-Z055) WASHINGTON, (OK-Z076) LE FLORE	03/31/23 14:00 CST		1M	Wildfire
	03/31/23 23:59 CST		0	
<p>Very dry air and very strong wind gusts of up to 60 to 65 mph behind a dry line, combined with drought-stricken fuels to promote conditions that supported the rapid spread of wildfire across portions of eastern Oklahoma during the afternoon of March 31st. Numerous wildfires occurred across the region, but the largest fires affected Washington and Osage Counties, where over 4400 acres were burned, and in Le Flore County, where over 250 acres were burned. The fires in Washington County destroyed ten homes and numerous outbuildings, and burned a number of vehicles. These fires continued to burn into early April.</p>				