

Storm Data and Unusual Weather Phenomena - September 2024

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

(AR-Z001) BENTON, (AR-Z002) CARROLL, (AR-Z010) WASHINGTON, (AR-Z011) MADISON

09/17/24 00:00 CST		0	Drought
09/30/24 23:59 CST		0	

Much of western Arkansas received less than two inches of rain during September, with large areas of Benton, Carroll, Washington, and Madison Counties receiving less than one half inch of rain for the month. The rainfall across much of northwestern Arkansas during September corresponded to less than 25 percent of the normal average precipitation for the month. Portions of Benton, Washington, and Carroll Counties received less than 5 percent of the normal average precipitation for the month. As a result of this large rainfall deficit and seasonally typical hot weather, severe (D2) drought conditions developed during the month across portions of Benton, Carroll, Washington, and Madison Counties. Monetary damage estimates as a result of the drought were not available.

OKLAHOMA, Eastern

(OK-Z049) PUSHMATAHA, (OK-Z053) CHOCTAW, (OK-Z054) OSAGE, (OK-Z055) WASHINGTON, (OK-Z056) NOWATA, (OK-Z057) CRAIG, (OK-Z058) OTTAWA, (OK-Z059) PAWNEE, (OK-Z060) TULSA, (OK-Z061) ROGERS, (OK-Z062) MAYES, (OK-Z063) DELAWARE, (OK-Z069) ADAIR

09/01/24 00:00 CST		0	Drought
09/30/24 23:59 CST		0	

Much of eastern Oklahoma received between one and three inches of rain during September, with isolated areas of nearly five inches observed in east central Oklahoma. The exceptions were in southeastern Oklahoma, where areas received less than one and a half inches of rain for the month, and across much of northeastern Oklahoma, where less than one half inch occurred. The rainfall across far southeastern Oklahoma and much of northeastern Oklahoma during September corresponded to less than 25 percent of the normal average precipitation for the month. Portions of northeastern Oklahoma received less than 5 percent of the normal average precipitation for the month. As a result of this large rainfall deficit and seasonally typical hot weather, severe (D2) drought conditions expanded across much of Choctaw and Pushmataha Counties, and developed across much of northeastern Oklahoma north of Highway 412. Extreme (D3) drought conditions developed during the month across portions of Osage, Washington, Nowata, Craig, Rogers, and Mayes Counties. Monetary damage estimates as a result of the drought were not available.

PAWNEE COUNTY --- 2.7 NE PAWNEE [36.36, -96.77]

09/19/24 17:55 CST		0	Thunderstorm Wind (MG 63 kt)
09/19/24 18:05 CST		0	Source: Mesonet

The Oklahoma Mesonet station near Pawnee measured thunderstorm wind gusts of more than 58 mph for 10 minutes, with a maximum gust of 72 mph.

PAWNEE COUNTY --- 1.3 SE PAWNEE ARPT [36.37, -96.80]

09/19/24 18:00 CST	1	0.10M	Thunderstorm Wind (EG 70 kt)
09/19/24 18:05 CST	2	0	Source: NWS Storm Survey

Strong thunderstorm wind overturned multiple recreational vehicles (RV) at a campground on the east shore of Pawnee Lake. Two people were injured and a man was killed when the RV they were in overturned.

Direct Fatalities: M64VE

PAWNEE COUNTY --- PAWNEE [36.33, -96.80]

09/19/24 18:00 CST		5K	Thunderstorm Wind (EG 65 kt)
09/19/24 18:00 CST		0	Source: Law Enforcement

Strong thunderstorm wind blew down numerous power poles and trees. Several roads had to be closed due to the significant amount of debris in the road.

PAWNEE COUNTY --- 4.0 NW MARAMEC [36.29, -96.72]

09/19/24 18:15 CST		20K	Hail (1.75 in)
09/19/24 18:15 CST		0	Source: Public

Golf ball size hail damaged homes and vehicles.

PAWNEE COUNTY --- 0.8 SW MARAMEC [36.24, -96.68]

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	09/19/24 18:20 CST		15K	Thunderstorm Wind (EG 65 kt)
	09/19/24 18:20 CST		0	Source: Broadcast Media

Strong thunderstorm wind blew much of the roof off of an outbuilding.

Strong to severe thunderstorms developed into northeastern Oklahoma during the evening of the 19th, as a cold front approached the area. Very strong instability combined with increasing deep layer shear to result in one of the thunderstorms evolving into a supercell. This storm was high-based with a deep layer of relatively dry air between the cloud base and the ground. This environment enabled the storm to produce very strong and damaging downbursts, which likely gusted to up to 95 mph at times. The storm moved across Pawnee Lake in Pawnee County, rolling multiple recreational vehicles at a campground. One person was killed when the RV he was in rolled, and two others were injured. This severe thunderstorm also produced large hail up to golf ball size.

MCINTOSH COUNTY --- PIERCE [35.43, -95.72]

	09/24/24 20:20 CST		0	Hail (1.00 in)
	09/24/24 20:20 CST		0	Source: Emergency Manager

Strong to severe thunderstorms developed over central Oklahoma during the late afternoon of the 24th, to the northeast of a low pressure system over southwestern Oklahoma and near a warm front over central Oklahoma into eastern Oklahoma. Strong instability combined with very strong deep layer wind shear associated with an approaching strong upper level storm system supported the development of some supercells. These storms produced very large hail over central Oklahoma. Thunderstorms developed into eastern Oklahoma during the evening, the strongest of which produced large hail up to quarter size.