

## Storm Data and Unusual Weather Phenomena - January 2024

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### OKLAHOMA, Western, Central and Southeast

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**(OK-Z033) HARMON**

01/01/24 00:00 CST		0	Drought
01/09/24 05:59 CST		0	

Above average rainfall for the month of January helped to remove lingering areas of severe drought across southwest Oklahoma by the middle of the month. This was the first time the NWS Norman Forecast Area had no area(s) of severe (or worse) drought since August 24th, 2021.

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**(OK-Z004) HARPER, (OK-Z005) WOODS, (OK-Z009) ELLIS, (OK-Z010) WOODWARD**

01/08/24 17:00 CST		0	Winter Storm
01/09/24 04:00 CST		0	

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**(OK-Z005) WOODS, (OK-Z014) ROGER MILLS, (OK-Z021) BECKHAM, (OK-Z022) WASHITA, (OK-Z033) HARMON, (OK-Z035) KIOWA, (OK-Z036) JACKSON, (OK-Z037) TILLMAN, (OK-Z038) COMANCHE**

01/08/24 18:50 CST		0	High Wind (MAX 58 kt)
01/09/24 02:45 CST		0	

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**(OK-Z019) LOGAN, (OK-Z025) OKLAHOMA**

01/09/24 03:00 CST		0	Winter Weather
01/09/24 07:00 CST		0	

A high amplitude upper system brought varied impacts across the Southern Plains from the 8-9th. A strong 30-50 knot low-level jet and tight surface pressure gradient developed on the northwestern periphery of a deep (sub-995 mb) low pressure center as it tracked across central Oklahoma during the evening of the 8th. This resulted in a corridor of non-convective high wind reports across western Oklahoma. Across northwestern Oklahoma, a period of snowfall (with trace to 3-inch accumulations) occurred that, combined with aforementioned periods of high winds, yielded blizzard-like conditions during the evening of the 8th. Scattered areas of light snowfall continued into portions of central Oklahoma during the morning hours on the 9th and provided for a hazardous morning commute due to slick and partially snow-covered roadways.

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**HUGHES COUNTY --- 0.2 SW WETUMKA [35.24, -96.24]**

01/11/24 22:10 CST		0	Hail (1.00 in)
01/11/24 22:10 CST		0	Source: Emergency Manager

Relayed image.

Increasing synoptic-scale ascent, the result of a powerful (100-150 knot jet max) upper system entering portions of central Texas, combined with a cold frontal passage yielded favorable conditions for forced convection across the western Ozarks. A few incipient thunderstorms impacted the far eastern portions of the WFO Norman forecast area during the late evening of the 11th. While instability was weak, favorable deep-layer wind shear promoted enough storm organization for a report of large hail across far northern Hughes County.

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**(OK-Z004) HARPER, (OK-Z005) WOODS, (OK-Z006) ALFALFA, (OK-Z007) GRANT, (OK-Z008) KAY, (OK-Z009) ELLIS, (OK-Z010) WOODWARD, (OK-Z011) MAJOR, (OK-Z012) GARFIELD, (OK-Z013) NOBLE, (OK-Z014) ROGER MILLS, (OK-Z015) DEWEY, (OK-Z016) CUSTER, (OK-Z017) BLAINE, (OK-Z018) KINGFISHER, (OK-Z019) LOGAN, (OK-Z020) PAYNE, (OK-Z021) BECKHAM, (OK-Z022) WASHITA, (OK-Z023) CADDO, (OK-Z024) CANADIAN, (OK-Z025) OKLAHOMA, (OK-Z026) LINCOLN, (OK-Z027) GRADY, (OK-Z028) MCCLAIN, (OK-Z029) CLEVELAND, (OK-Z030) POTTAWATOMIE, (OK-Z031) SEMINOLE, (OK-Z032) HUGHES, (OK-Z033) HARMON, (OK-Z034) GREER, (OK-Z035) KIOWA, (OK-Z036) JACKSON, (OK-Z037) TILLMAN, (OK-Z038) COMANCHE, (OK-Z039) STEPHENS, (OK-Z040) GARVIN, (OK-Z041) MURRAY, (OK-Z042) PONTOTOC, (OK-Z043) COAL, (OK-Z044) COTTON, (OK-Z045) JEFFERSON, (OK-Z046) CARTER, (OK-Z047) JOHNSTON, (OK-Z048) ATOKA, (OK-Z050) LOVE, (OK-Z051) MARSHALL, (OK-Z052) BRYAN**

01/12/24 00:00 CST		0	Cold/Wind Chill
01/16/24 12:00 CST		0	

Behind the passage of a high amplitude/strong upper wave on the 11th, a prolonged cold intrusion, originating across high latitudes, impacted much of the central United States. Wind chill readings as low as -20 to -25 degrees were noted. The coldest day of the sequence occurred on the 14th, with an average temperature of 5 degrees across much of the area. In total, temperatures remained below freezing for 113-146 consecutive hours during the period.

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**(OK-Z005) WOODS, (OK-Z008) KAY, (OK-Z012) GARFIELD, (OK-Z014) ROGER MILLS, (OK-Z020) PAYNE, (OK-Z023) CADDO, (OK-Z024) CANADIAN, (OK-Z026) LINCOLN, (OK-Z038) COMANCHE**

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	01/13/24 06:00 CST		0	Extreme Cold/Wind Chill
	01/14/24 23:59 CST		0	

Behind the passage of a high amplitude/strong upper wave on the 11th, a prolonged cold intrusion, originating across high latitudes, impacted much of the central United States. Wind chill readings as low as -20 to -25 degrees were noted. The coldest day of the sequence occurred on the 14th, with an average temperature of 5 degrees across much of the area. In total, temperatures remained below freezing for 113-146 consecutive hours during the period.

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**(OK-Z025) OKLAHOMA, (OK-Z026) LINCOLN**

	01/14/24 11:00 CST		0	Winter Weather
	01/14/24 15:00 CST		0	

A strong belt of northwesterly flow aloft existed across much of the CONUS on the 14th. An embedded upper wave moved across the Central Plains during daytime hours, yielding a quickly evolving round of light snowfall across portions of the forecast area. A band of 1 to 3-inch snowfall totals occurred across portions of northwestern into east-central Oklahoma leading to slick roadways and isolated travel impact.

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**(OK-Z038) COMANCHE**

	01/18/24 22:25 CST		0	High Wind (MAX 55 kt)
	01/19/24 00:40 CST		0	

A strong cold front swept across the Plains from the 18th into the early morning of the 19th. A period of gusty winds, including >50 knot gusts near the Wichita Mountains, occurred in the immediate post-frontal regime.

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**(OK-Z005) WOODS, (OK-Z006) ALFALFA, (OK-Z007) GRANT, (OK-Z008) KAY, (OK-Z011) MAJOR, (OK-Z012) GARFIELD, (OK-Z013) NOBLE, (OK-Z017) BLAINE, (OK-Z018) KINGFISHER, (OK-Z019) LOGAN, (OK-Z020) PAYNE, (OK-Z023) CADDO, (OK-Z024) CANADIAN, (OK-Z025) OKLAHOMA, (OK-Z026) LINCOLN, (OK-Z029) CLEVELAND, (OK-Z030) POTTAWATOMIE, (OK-Z031) SEMINOLE, (OK-Z032) HUGHES**

	01/19/24 01:00 CST		0	Cold/Wind Chill
	01/19/24 11:00 CST		0	

A high latitude airmass settled across northern portions of the WFO Norman Forecast Area on the morning of the 19th. This resulted in wind chill values ranging from -5 to -20-degrees across portions of the area.

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**(OK-Z008) KAY, (OK-Z019) LOGAN, (OK-Z020) PAYNE, (OK-Z024) CANADIAN, (OK-Z025) OKLAHOMA, (OK-Z026) LINCOLN, (OK-Z028) MCCLAIN, (OK-Z029) CLEVELAND, (OK-Z030) POTTAWATOMIE, (OK-Z038) COMANCHE, (OK-Z039) STEPHENS, (OK-Z040) GARVIN, (OK-Z041) MURRAY, (OK-Z042) PONTOTOC, (OK-Z047) JOHNSTON, (OK-Z052) BRYAN**

	01/21/24 19:00 CST		0	Winter Weather
	01/22/24 08:00 CST		0	

A shortwave upper trough approached the region from the 21st into 22nd. While pronounced warm air advection was underway by the afternoon of the 21st, very cold surface/ground conditions from prior periods of single digit temperatures promoted an environment receptive to frozen precipitation. Aforementioned warm air advection promoted a "warm nose" aloft which contributed to freezing rain being the dominate precipitation type during the event. While total ice accretion fell below Ice Storm Warning criteria, significant and widespread travel impact (due to ice covered roadways) occurred from the late evening of the 21st through morning commute on the 22nd (mainly along and east of the Interstate 35 corridor).

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### TEXAS, Western North

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**(TX-Z083) HARDEMAN, (TX-Z086) WICHITA, (TX-Z087) KNOX**

	01/08/24 17:20 CST		0	High Wind (MAX 51 kt)
	01/08/24 23:20 CST		0	

A high amplitude upper system brought varied impacts across the Southern Plains from the 8-9th. A strong 30-50 knot low-level jet and tight surface pressure gradient developed on the northwestern periphery of a deep (sub-995 mb) low pressure center as it tracked across central Oklahoma during the evening of the 8th. This resulted in a corridor of non-convective high wind reports across western-north Texas.

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**(TX-Z083) HARDEMAN, (TX-Z084) FOARD, (TX-Z085) WILBARGER, (TX-Z086) WICHITA, (TX-Z087) KNOX, (TX-Z088) BAYLOR, (TX-Z089) ARCHER, (TX-Z090) CLAY**

	01/13/24 22:00 CST		0	Cold/Wind Chill
	01/16/24 09:00 CST		0	

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Behind the passage of a high amplitude/strong upper wave on the 11th, a prolonged cold intrusion, originating across high latitudes, impacted much of the central United States. Wind chill readings as low as -10 to -15 degrees were noted across western-north Texas during the period.