

Osage County, OK

Risk-assessment baseline packet

Unit **County area 40113** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

Hazard Plain is an independent product built from public federal data. It is not a FEMA document and is not reviewed or endorsed by FEMA or any state agency.

A starting point for the plan's risk assessment (FEMA Local Mitigation Plan Review Tool, Element B). It does not replace local data or FEMA review. Section headings say which FEMA review item each table supports; whether an item is satisfied is decided by the plan and its reviewers.

OPENFEMA DISCLAIMER

This product uses the Federal Emergency Management Agency's OpenFEMA API, but is not endorsed by FEMA. The Federal Government or FEMA cannot vouch for the data or analyses derived from these data after the data have been retrieved from the Agency's website(s).

Plan clock

Status	No approved plan on record	Plan	none
Approved	none	Expires	none
As of	2026-09-28	Update underway	FEMA tracker shows a plan in review

FEMA's plan status data lists no approved plan for this jurisdiction.

What changed since your last plan

Not available. No approved plan on record, so there is no approval date to count from.

SOURCES: FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API); FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API); NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>; FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

Plan status for every jurisdiction listed in this county: 27 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

State plan status and tribal plans in this state: see the state page.

CONTENTS

1. Plan clock, page 1
2. What changed since your last plan, page 1
3. Supports B1-a: hazards, page 3
4. Supports B1-b: location, page 5
5. Supports B1-c: extent, page 6
6. Supports B1-d: previous occurrences, page 9
7. Supports B1-e: probability, page 14
8. Supports B1-f: variation across the planning area, page 17
9. Supports B2-a and B2-b: assets and impacts, page 19
10. Supports B2-a: context, page 21
11. Supports B2-c: repetitive loss, page 21
12. Sources and OpenFEMA disclaimer, page 23

Plan clock**Plan status for every jurisdiction listed in this county**

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Osage County	County	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Avant town	Town	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Barnsdall city	City	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Bartlesville city	City	Approved, expires 2027-03-15	Washington County (FEMA plan 108077)	2022-03-16	2027-03-15	168		member approved 2022-07-18
Burbank town	Town	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Fairfax town	Town	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Hominy city	City	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Pawhuska city	City	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Prue town	Town	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Shidler city	City	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Skiatook city	Town	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Tulsa city	City	Approved, expires 2029-12-11	Tulsa (FEMA plan 110187)	2024-12-12	2029-12-11	1,170		
Wynona town	Town	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Anderson Public School	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Avant Public School	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Barnsdall Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Bowring Public School	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Hominy Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
McCord Public School	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Osage Hills Public School	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Pawhuska Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Ponca City Public Schools	School/School District	Approved, expires 2027-08-24	Ponca City (FEMA plan 107418)	2022-08-25	2027-08-24	330	FEMA tracker shows a plan awaiting revisions	
Prue Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Shidler Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Skiatook Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Woodland Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Wynona Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	

SOURCE

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Supports B1-a: hazards

Hazards NRI does not cover: check locally

- dam failure (incl. upstream dams)
- levee failure
- flash flood as its own subtype
- ice jams
- debris flows
- erosion (riverine and coastal)
- land subsidence and sinkholes
- expansive soils

The 18 National Risk Index hazards, ranked by expected annual loss (EAL)

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Relatively Moderate	Relatively Low	\$10,676,766	\$743,242	\$163,370	\$11,583,378	84		
2	Tornado	Relatively Moderate	Relatively Moderate	\$864,361	\$8,164	\$3,847,458	\$4,719,983	71		
3	Cold Wave	Relatively Moderate	Relatively Moderate	\$47	\$230,834	\$2,670,706	\$2,901,587	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
4	Wildfire	Relatively Moderate	Relatively Moderate	\$1,910,449	\$9,800	\$469,264	\$2,389,513	16		
5	Heat Wave	Relatively Moderate	Relatively Moderate	\$216	\$925	\$2,352,931	\$2,354,072	57		
6	Ice Storm	Very High	Relatively High	\$1,399,898		\$26,549	\$1,426,447	10		
7	Drought	Relatively Moderate	Relatively Moderate		\$1,116,142		\$1,116,142	95		
8	Strong Wind	Relatively Moderate	Relatively Low	\$88,591	\$892	\$457,352	\$546,835	474		Includes 9 High Wind records, event types the NRI definition of this hazard leaves out.
9	Lightning	Relatively Low	Relatively Low	\$15,593		\$176,651	\$192,244	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
10	Earthquake	Very Low	Very Low	\$109,439		\$36,239	\$145,678			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
11	Winter Weather	Relatively Moderate	Relatively Moderate	\$38,528	\$1,636	\$77,857	\$118,021	48		
12	Hail	Very Low	Very Low	\$68,551	\$3	\$15,031	\$83,586	452		
13	Landslide	Relatively Moderate	Relatively Low	\$2,603		\$28,968	\$31,570	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
14	Hurricane	Very Low	Very Low	\$2,156	\$6,674	\$35	\$8,865	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Avalanche	Not Applicable	Not Applicable					0	NRI rates avalanche Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
	Coastal Flooding	Not Applicable	Not Applicable					0	NRI rates coastal flooding Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

Total = buildings + agriculture + population equivalence; FEMA values each expected death (or 10 injuries) at \$13.7 million (2024 dollars).

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Check your state hazard mitigation plan's hazard list for this county; explain any hazard you drop.

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 13
Coastal Flooding	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 13
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	13 of 13
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	9 of 13
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	13 of 13
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	13 of 13
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	13 of 13
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	13 of 13
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	13 of 13
Inland Flooding	The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (https://msc.fema.gov) for this county.	13 of 13
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	13 of 13
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	13 of 13

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	13 of 13
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	13 of 13
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 13
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 13
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	13 of 13
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	13 of 13

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

Supports B1-c: extent

Extent: scale, observed range and worst recorded event per hazard

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	0					Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	0					Temperature: in event narratives only; local data required.
Drought	US Drought Monitor D-scale	95, 2005 to 2026 (95 zone-level)	75 days to 621 days (median 252 days); 11 with a recorded value	621 days (about 20.4 months), 2022-07-19 to 2024-03-30, a run of 21 consecutive Storm Events drought records, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					No Storm Events record; local data required (e.g., USGS).

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Hail	hail size (inches)	672, 1958 to 2026	0.75 in to 4.5 in (median 0.88 in); 672 with a recorded value	4.5 in hail, 2009-02-10	Hail, 2026-05-08, \$250,000 property; \$0 crops (2026 dollars)	Event records naming member places: Pawhuska city (73 records), Hominy city (56 records), Burbank town (42 records), Skiatook city (33 records), Shidler city (30 records), Fairfax town (29 records), Wynona town (19 records), Barnsdall city (17 records), Avant town (16 records), Prue town (16 records); and 2 more member places (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	57, 2001 to 2025 (57 zone- level)	1 day to 31 days (median 2 days); 52 with a recorded value	31 days, 2011-07-09 to 2011-08-08, from 2 records, 1 of them a monthly summary (a monthly summary record covers most or all of a month; it does not count days at wave conditions), zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.
Ice Storm	Sperry-Piltz (local data)	10, 1996 to 2020 (10 zone- level)		Ice Storm, 2007-12-08, \$20,000,000 property; \$0 crops, reported for the zone (2007 dollars); NWS zone OKZ054 (OSAGE), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: in event narratives only; local data required.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	84, 1996 to 2025 (5 zone- level)		Flash Flood, 2019-05-20, \$500,000 property; \$0 crops (2019 dollars)		Event records naming member places: Hominy city (14 records), Avant town (7 records), Pawhuska city (6 records), Skiatook city (6 records), Barnsdall city (5 records), Burbank town (3 records), Fairfax town (3 records), Wynona town (3 records), Tulsa city (2 records), Shidler city (1 record). Zone-level records (5) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	0					Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	9, 1996 to 2025 (9 zone-level)	44 kt (51 mph) to 58 kt (67 mph) (median 52 kt (60 mph)); 8 with a recorded value	58 kt (67 mph) measured gust, High Wind, 2025-03-14; NWS zone OKZ054 (OSAGE), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	629, 1956 to 2026	50 kt (58 mph) to 87 kt (100 mph) (median 56 kt (64 mph)); 500 with a recorded value	87 kt (100 mph), measurement type not recorded, Thunderstorm Wind, 1996-04-28; same speed and measurement basis also recorded on 1992-06-19	Thunderstorm Wind, 1999-05-04, \$125,000 property; crops not reported (1999 dollars)	Event records naming member places: Burbank town (70 records), Hominy city (68 records), Wynona town (50 records), Pawhuska city (46 records), Skiatook city (32 records), Fairfax town (26 records), Barnsdall city (21 records), Avant town (17 records), Shidler city (14 records), Tulsa city (10 records); and 2 more member places (see the XLSX file).	Speeds under 20 kt (likely entry errors) are left out of the observed range.
Tornado	Enhanced Fujita (F before Feb 2007)	118, 1955 to 2026	F/EF0 to F/EF4 (median F/EF1); 109 with a recorded value	EF4 tornado, 2024-05-06, 32.4 mi within this county, 1,700 yd wide, \$10,000,000 property; \$0 crops (2024 dollars), 2 direct deaths, 33 direct injuries	Tornado, 1984-04-29, \$25,000,000 property; crops not recorded (1984 dollars)	Event records naming member places: Hominy city (10 records), Fairfax town (8 records), Pawhuska city (6 records), Barnsdall city (5 records), Burbank town (5 records), Prue town (4 records), Skiatook city (4 records), Wynona town (4 records), Avant town (2 records), Tulsa city (2 records).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Wildfire	acres burned (local data)	16, 2005 to 2026 (16 zone- level)		Wildfire, 2005-11-27, \$1,500,000 property; crops not reported, reported for the zone (2005 dollars), 1 direct death, 11 direct injuries (reported for the zone); NWS zone OKZ054 (OSAGE), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	48, 1996 to 2026 (48 zone- level)		No damage reported in 48 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

Where a hazard names more than 10 member places, the table lists the 10 with the most records; every place is in the XLSX file, sheet "B1-c Extent".

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

Dollars are nominal (as reported), labeled with the year; not adjusted for inflation.

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Supports B1-d: previous occurrences

Declaration rows42

Counted incidents33

No approved plan on record, so there is no approval date to count from.

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2026-02-19	2026-02-19	FM-5621-OK	Fire management	RATTLESNAKE FIRE	Wildfire	none found	within last 5 years	
2024-10-30	2024-10-29	FM-5544-OK	Fire management	NORTH ROAD FIRE	Wildfire	none found	within last 5 years	
2024-04-30	2024-04-25	DR-4776-OK	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, AND FLOODING	Tornado (primary); also designated: Inland Flooding, Strong Wind	\$5,471,298.95	within last 5 years	
2021-02-24	2021-02-08	DR-4587-OK	Major disaster	SEVERE WINTER STORMS	Ice Storm	none found		
2021-02-17	2021-02-08	EM-3555-OK	Emergency	SEVERE WINTER STORM	Ice Storm	none found		same incident as DR-4587

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						federal share obligated, nominal dollars		
2020-04-05	2020-01-20	DR-4530-OK	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	none found		
2020-03-13	2020-01-20	EM-3462-OK	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4530
2019-07-12	2019-04-30	DR-4453-OK	Major disaster	SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS, AND FLOODING	Inland Flooding; Strong Wind; Tornado	\$698,234.47		
2019-06-01	2019-05-07	DR-4438-OK	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, AND FLOODING	Inland Flooding; Strong Wind; Tornado	\$1,200,415.64		
2019-05-25	2019-05-07	EM-3411-OK	Emergency	FLOODING	Inland Flooding	none found		same incident as DR-4438
2016-02-10	2015-12-26	DR-4256-OK	Major disaster	SEVERE WINTER STORMS AND FLOODING	Inland Flooding; Winter Weather	none found		
2011-06-06	2011-05-22	DR-1989-OK	Major disaster	SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS, AND FLOODING	Inland Flooding; Strong Wind; Tornado	none found		
2011-05-13	2011-01-31	DR-1985-OK	Major disaster	SEVERE WINTER STORM AND SNOWSTORM	Winter Weather	\$60,939.47		
2011-03-24	2011-03-24	FM-2874-OK	Fire management	OSAGE COUNTY FIRE COMPLEX	Wildfire	none found		
2011-02-02	2011-01-31	EM-3316-OK	Emergency	SEVERE WINTER STORM	Winter Weather	none found		same incident as DR-1985
2010-05-24	2010-05-10	DR-1917-OK	Major disaster	SEVERE STORMS, TORNADOES, AND STRAIGHT-LINE WINDS	Strong Wind; Tornado	\$8,370.50		
2010-02-25	2009-12-24	DR-1876-OK	Major disaster	SEVERE WINTER STORM	Winter Weather	\$131,433.17		
2010-01-30	2010-01-28	EM-3308-OK	Emergency	SEVERE WINTER STORM	Winter Weather	none found		
2008-07-09	2008-06-03	DR-1775-OK	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$257,948.88		
2007-12-18	2007-12-08	DR-1735-OK	Major disaster	SEVERE WINTER STORMS	Ice Storm	\$735,591.57		
2007-12-10	2007-12-08	EM-3280-OK	Emergency	SEVERE WINTER STORMS	Ice Storm	none found		same incident as DR-1735
2007-07-07	2007-06-10	DR-1712-OK	Major disaster	SEVERE STORMS, FLOODING, AND TORNADOES	Inland Flooding; Tornado	\$85,241.82		
2007-02-01	2007-01-12	DR-1678-OK	Major disaster	SEVERE WINTER STORMS	Winter Weather	\$185,298.06		
2007-01-14	2007-01-12	EM-3272-OK	Emergency	SEVERE WINTER STORMS AND FLOODING	Ice Storm	none found		same incident as DR-1678
2006-01-19	2006-01-15	FM-2628-OK	Fire management	SPERRY FIRE	Wildfire	none found		same incident as DR-1623
2006-01-10	2005-11-27	DR-1623-OK	Major disaster	EXTREME WILDFIRE THREAT	Wildfire	\$64,366.08		
2005-09-05	2005-08-29	EM-3219-OK	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	none found		
2003-05-10	2003-05-08	DR-1465-OK	Major disaster	SEVERE STORMS AND TORNADOES	Tornado	\$10,443.05		
2003-02-04	2002-12-03	DR-1452-OK	Major disaster	SEVERE ICE STORM	Ice Storm	none found		
2002-02-01	2002-01-30	DR-1401-OK	Major disaster	SEVERE WINTER ICE STORM	Ice Storm	\$164,253.31		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2001-01-05	2000-12-25	DR-1355-OK	Major disaster	SEVERE WINTER ICE STORM	Ice Storm	\$526,543.68		
1995-06-26	1995-05-26	DR-1058-OK	Major disaster	TORNADOES, SEVERE STORMS AND FLOODING	Tornado (primary); also designated: Inland Flooding	none found		
1993-05-12	1993-05-08	DR-991-OK	Major disaster	SEVERE STORMS, TORNADOES & FLOODING	Inland Flooding; Tornado	none found		
1991-05-08	1991-04-26	DR-905-OK	Major disaster	SEVERE STORMS & TORNADOES	Tornado	PA not declared for this county		
1986-10-14	1986-09-26	DR-778-OK	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1984-05-31	1984-05-26	DR-709-OK	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	PA not declared for this county		
1984-05-03	1984-04-26	DR-704-OK	Major disaster	SEVERE STORMS & TORNADOES	Tornado	none found		
1974-11-26	1974-11-26	DR-453-OK	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1974-06-10	1974-06-10	DR-441-OK	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1974-03-22	1974-03-22	DR-419-OK	Major disaster	HEAVY RAINS & FLOODING	Inland Flooding	none found		
1973-06-13	1973-06-13	DR-392-OK	Major disaster	SEVERE STORMS, FLOODING, & TORNADOES	Inland Flooding; Tornado	none found		
1971-09-28	1971-09-28	DR-314-OK	Major disaster	HEAVY RAINS & FLOODS	Inland Flooding	none found		

School districts and special districts in this county: \$29,434.26 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan members in this county. They are not shown as member blocks, so their total is listed here. These dollars are already included in the county PA column of the declarations table (the FEMA record places each applicant in this county); do not add this line to the county total.

County Public Assistance: applicants the FEMA record places in this county, including any state agencies FEMA files there; statewide rows are listed on the state page; federal share obligated, nominal dollars.

Dollars are nominal (as reported), labeled with the year; not adjusted for inflation.

SOURCES

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Statewide declarations

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
1995-04-19	1995-04-19	EM-3115-OK	Emergency	EXPLOSION AT FEDERAL COURTHOUSE IN OKLAHOMA CITY	Non-natural, not counted		
1960-07-15	1960-07-15	DR-104-OK	Major disaster	HEAVY RAINS, HAIL, FLOODS & TORNADOES	Hail; Inland Flooding; Tornado		
1959-11-09	1959-11-09	DR-95-OK	Major disaster	HEAVY RAINS & FLOODS	Inland Flooding		
1959-07-08	1959-07-08	DR-92-OK	Major disaster	FLOOD	Inland Flooding		
1957-05-18	1957-05-18	DR-74-OK	Major disaster	FLOOD	Inland Flooding		
1956-04-07	1956-04-07	DR-54-OK	Major disaster	TORNADOES	Tornado		
1955-06-01	1955-06-01	DR-35-OK	Major disaster	FLOOD & TORNADO	Inland Flooding (primary); also designated: Tornado		

FEMA recorded these with designated area Statewide and no county. Listed on every county page in the state; not counted with county rows.

13 Fire Management declarations (1971-04-08 to 2012-07-30) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

SOURCE

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Drought	95			35	0		1996 to 2026-06-30	
Earthquake	0			0	0			No Storm Events record; local data required (e.g., USGS).
Hail	672			48	0		1955 to 2026-06-30	
Heat Wave	57			21	0		1996 to 2026-06-30	
Hurricane	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	10			0	6		1996 to 2026-06-30	
Inland Flooding	84			1	16		1996 to 2026-06-30	
Landslide	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Strong Wind	638			50	5		1955 to 2026-06-30	Includes 9 High Wind records, event types the NRI definition of this hazard leaves out.
Tornado	118			18	12		1950 to 2026-06-30	
Tsunami	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	16			5	4		1996 to 2026-06-30	
Winter Weather	48			7	5		1996 to 2026-06-30	

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2025-03-14	High Wind	58 kt (67 mph) measured gust	\$20,000 property; \$0 crops, reported for the zone (2025 dollars)	0, 0	NWS zone OKZ054 (OSAGE), zone-level: may include parts of neighboring counties	within last 5 years	B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2024-05-06	Tornado	EF4, 32.4 mi within this county, 1,700 yd wide	\$10,000,000 property; \$0 crops (2024 dollars)	2, 33	OSAGE to OKESA	within last 5 years	deaths or injuries recorded
2022-07-19	Drought		\$0 property; \$0 crops, reported for the zone (2022 dollars)	0, 0	NWS zone OKZ054 (OSAGE), zone-level: may include parts of neighboring counties	within last 5 years	B1-c worst recorded: Drought
2019-05-20	Flash Flood		\$500,000 property; \$0 crops (2019 dollars)	0, 0	HOMINY		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2011-07-09	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone OKZ054 (OSAGE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2009-02-10	Hail	4.5 in	\$100,000 property; \$0 crops (2009 dollars)	0, 0	OKESA		B1-c worst recorded: Hail
2007-12-08	Ice Storm		\$20,000,000 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone OKZ054 (OSAGE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Ice Storm
2005-11-27	Wildfire		\$1,500,000 property; crops not reported, reported for the zone (2005 dollars)	1, 11	NWS zone OKZ054 (OSAGE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Wildfire
1999-05-04	Thunderstorm Wind	speed not recorded	\$125,000 property; crops not reported (1999 dollars)	0, 0	PAWHUSKA		B1-c most damaging: Thunderstorm Wind
1996-04-28	Thunderstorm Wind	87 kt (100 mph), measurement type not recorded	damage not reported	0, 0	BOWRING		B1-c worst recorded: Thunderstorm Wind
1984-04-29	Tornado	F4, 7 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 20 yd wide	\$25,000,000 property; crops not recorded (1984 dollars)	1, 20	location not recorded		deaths or injuries recorded
1974-06-08	Tornado	F4, 10.7 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 200 yd wide	\$250,000 property; crops not recorded (1974 dollars)	1, 15	location not recorded		deaths or injuries recorded

The full list is in the **XLSX** file, sheet "**B1-d Storm Events history**" (1,738 rows).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
 NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
 FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

State-declared emergencies are not in federal data. Add them from your state emergency management agency.

Tribal and special-area declarations in this state are listed on the state page.

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area- weighted, so can be fractional)	NRI period	Location	Note
Avalanche		events per year					1994 to 2023 (30 years)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Coastal Flooding		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Cold Wave	2.05	event-days per year	about 2.05 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	39	2005-11-12 to 2024-11-12 (19 years)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned. Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	56.1	event-days per year	about 56.1 days per year	Likely	event-days in 13 of 30 years, 1996 to 2025 (43.3%)	2,023	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 56.1 drought event-days a year here (its annualized frequency over 25.25 years; not its event count divided by the years), but Storm Events has a record in only 13 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Earthquake	0.00112	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.112%			not shown	modeled	see B1-f	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.
Hail	9.26	events per year	about 9.26 per year	Highly likely	FEMA annualized frequency (modeled)	352.0 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	23.6	event-days per year	about 23.6 days per year	Likely	event-days in 20 of 30 years, 1996 to 2025 (66.7%)	308	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.00899	events per year	about 1 in 111 years	Unlikely	FEMA annualized frequency (modeled)	0	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area- weighted, so can be fractional)	NRI period	Location	Note
Ice Storm	0.863	event-days per year	about 0.863 days per year	Likely	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	59	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	2.07	event-days per year	about 2.07 days per year	Likely	event-days in 23 of 30 years, 1996 to 2025 (76.7%)	58	1996 to 2023 (28 years)	see B1-f	
Landslide	0.893	events per year (modeled)	about 0.89 per year	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	52.6	days per year with a strike	about 52.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	7.02	events per year	about 7.02 per year	Highly likely	FEMA annualized frequency (modeled)	267	1986 to 2023 (38 years)	countywide	
Tornado	2.35	events per year	about 2.35 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.0114	annual probability at a location	chance a given location in the county burns in a year: 1.14%	Likely	Storm Events records in 9 of 30 years, 1996 to 2025 (30%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Winter Weather	9.53	event-days per year	about 9.53 days per year	Likely	event-days in 22 of 30 years, 1996 to 2025 (73.3%)	181	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county, which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location

burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Descriptor scale used in this packet (defined per unit)

Unit	Descriptor	Definition
events per year	Highly likely	1 or more per year
events per year	Likely	about once in 1 to 10 years
events per year	Possible	about once in 10 to 100 years
events per year	Unlikely	less than once in 100 years
annual probability	Likely	10% to under 100% chance in a given year
annual probability	Possible	1% to under 10% chance in a given year
annual probability	Unlikely	under 1% chance in a given year
event-days (share of years)	Highly likely	event-days recorded in 90% or more of years
event-days (share of years)	Likely	event-days recorded in 10% to under 90% of years
event-days (share of years)	Possible	event-days recorded in some years but under 10% of years
lightning strike-days	Highly likely	cloud-to-ground strikes on 1 or more days per year

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Intensity bands: historical frequency (Storm Events)

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	200	30	6.67
Hail	2.00 in+	1996 to 2025	22	30	0.733
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	361	30	12
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	43	30	1.43
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	51	30	1.7
Tornado	EF0-1	1996 to 2025	54	30	1.8
Tornado	EF2-3	1996 to 2025	3	30	0.1
Tornado	EF4-5	1996 to 2025	1	30	0.0333
Tornado	unrated (EFU)	1996 to 2025	4	30	0.133

Hail smaller than 1 inch is not counted: on 2010-01-05 the National Weather Service raised its severe-hail threshold from 3/4 inch to 1 inch, so smaller reports became less common after 2009 (NWS Service Change Notice 09-52). NRI hail frequency uses a 0.75 inch threshold.

SOURCE

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Optional: future conditions. Not a required item in the 2025 FEMA Local Mitigation Planning Policy Guide; some states ask for it. The federal Climate Mapping for Resilience and Adaptation (CMRA) site gives county exposure to future climate conditions.

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	0 of 13				Not Applicable 13	
Coastal Flooding	0 of 13				Not Applicable 13	
Cold Wave	13 of 13	73.1	87.9	95.3	Very High 1, Relatively High 11, Relatively Moderate 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	9 of 13	77.8	91.2	99.4	Relatively High 1, Relatively Moderate 3, Relatively Low 4, Very Low 1, No Rating 4	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally.
Earthquake	13 of 13	21.3	33.0	44.9	Relatively Low 3, Very Low 10	
Hail	13 of 13	40.2	51.1	61.6	Relatively Low 13	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	13 of 13	71.9	92.9	96.4	Relatively High 12, Relatively Moderate 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	13 of 13	22.9	29.6	42.9	Very Low 13	
Ice Storm	13 of 13	94.0	97.8	99.5	Very High 9, Relatively High 4	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	13 of 13	48.1	72.5	92.5	Relatively High 6, Relatively Moderate 6, Relatively Low 1	
Landslide	13 of 13	55.2	93.6	97.2	Relatively Moderate 6, Relatively Low 4, Very Low 3	
Lightning	13 of 13	33.7	65.9	84.4	Relatively High 2, Relatively Moderate 10, Relatively Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	13 of 13	54.1	80.2	90.3	Relatively High 3, Relatively Moderate 9, Relatively Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	13 of 13	66.4	91.8	99.4	Very High 5, Relatively High 7, Relatively Moderate 1	
Tsunami	0 of 13				Not Applicable 13	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Volcanic Activity	0 of 13				Not Applicable 13	
Wildfire	13 of 13	67.0	96.8	98.3	Relatively High 8, Relatively Moderate 4, Very Low 1	
Winter Weather	13 of 13	64.5	82.5	92.5	Relatively High 11, Relatively Moderate 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

Rated tracts only: No Rating (score 0.0), Not Applicable and Insufficient Data tracts are counted but not used for the minimum, median and maximum.

SOURCE

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Osage County	County	No approved plan on record	FMA RL 0, SRL 0; any 5	\$3,126,617.81	0; no approved plan	
Avant town	Town	No approved plan on record	FMA RL 0, SRL 0; any 0	\$57,082.55	42; no approved plan	
Barnsdall city	City	No approved plan on record	FMA RL 0, SRL 0; any 0	\$5,337,678.83	48; no approved plan	
Bartlesville city	City	Approved, expires 2027-03-15	FMA RL 5, SRL 12; any 16	none found	11; 0	Whole community, including the part in Washington County; none of its repeat-flood properties are in this county.
Burbank town	Town	No approved plan on record	FMA RL 0, SRL 0; any 0	\$11,068.23	120; no approved plan	
Fairfax town	Town	No approved plan on record	FMA RL 0, SRL 0; any 0	\$12,192.83	66; no approved plan	
Hominy city	City	No approved plan on record	FMA RL 0, SRL 0; any 0	\$146,816.42	148; no approved plan	
Pawhuska city	City	No approved plan on record	FMA RL 0, SRL 0; any 1	\$66,557.68	131; no approved plan	
Prue town	Town	No approved plan on record	FMA RL 0, SRL 0; any 0	\$3,499.34	29; no approved plan	
Shidler city	City	No approved plan on record	FMA RL 0, SRL 0; any 0	\$26,625.20	45; no approved plan	
Skiatook city	Town	No approved plan on record	FMA RL 1, SRL 4; any 12	\$22,480.41	75; no approved plan	Whole community, including the part in Tulsa County; none of its repeat-flood properties are in this county.

Member	Type	Plan status	Repetitive loss	Public Assistance matched	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>federal share obligated, nominal dollars</i>	<i>all years; since the member's plan</i>	
Tulsa city	City	Approved, expires 2029-12-11	FMA RL 0, SRL 8; any 82	none found	20; 1	Whole community, including the part in Creek County, Tulsa County and Wagoner County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 1, NFIP SRL 0, any category 1.
Wynona town	Town	No approved plan on record	FMA RL 0, SRL 0; any 0	\$13,532.11	76; no approved plan	

Member rows are whole NFIP communities and need not add up to the county total: a community that extends into another county is counted in full on each member row, while the county table counts only its part in this county.

School districts and special districts get a plan clock row only.

SOURCES

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Supports B2-a and B2-b: assets and impacts

Local data required

County-level starter. The plan must describe impacts for each participant and its own assets.

No approved plan on record, so there is no approval date to count from.

- Critical facilities and lifelines per hazard
 - A problem statement per participant per hazard
- Changes in development in hazard-prone areas since the last approval, or a statement of none (E1-a)
 - Future assets

County-level starter: exposure, expected annual loss and damage since the plan

Hazard	Building exposure	Agriculture exposure	Population exposed	EAL buildings	EAL agriculture	EAL population equivalence	EAL as % of exposure	Storm Events damage since plan	Zone-level damage since plan	Public Assistance since plan	Note
				<i>modeled dollars per year</i>	<i>modeled dollars per year</i>	<i>statistical value of life and injury, \$13.7M per life, not property damage</i>		<i>county-coded records, property plus crops, nominal dollars</i>	<i>property plus crops, reported for the zone</i>	<i>nominal dollars; see note</i>	
Avalanche											Not Applicable in NRI for this county
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$7,817,003,655	\$144,037,469	45,705	\$47	\$230,834	\$2,670,706	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since plan <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Drought		\$7,442,651			\$1,116,142		15% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$13,240,735,919		45,818	\$109,439		\$36,239	0.000827%				
Hail	\$7,817,033,432	\$144,037,469	45,705	\$68,551	\$3	\$15,031	0.000877%				
Heat Wave	\$7,817,003,655	\$144,037,469	45,705	\$216	\$925	\$2,352,931	under 0.0001%				
Hurricane	\$7,817,033,432	\$144,037,469	45,705	\$2,156	\$6,674	\$35	under 0.0001%				
Ice Storm	\$7,816,956,390		45,704	\$1,399,898		\$26,549	0.0179%				
Inland Flooding	\$7,808,165,197	\$27,339,317	1,406	\$10,676,766	\$743,242	\$163,370	n/a (see note)				NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. EAL as % of exposure: n/a.
Landslide	\$184,807,501		1,046	\$2,603		\$28,968	0.00141%				
Lightning	\$7,817,033,432		45,705	\$15,593		\$176,651	0.000199%				
Strong Wind	\$7,817,033,432	\$144,037,469	45,705	\$88,591	\$892	\$457,352	0.00113%				
Tornado	\$7,817,033,432	\$144,037,469	45,705	\$864,361	\$8,164	\$3,847,458	0.0111%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$1,890,739,586	\$115,826,124	17,930	\$1,910,449	\$9,800	\$469,264	0.101%				
Winter Weather	\$7,817,003,655	\$144,037,469	45,705	\$38,528	\$1,636	\$77,857	0.000493%				

Totals since the plan: not available. No approved plan on record, so there is no approval date to count from.

Total = buildings + agriculture + population equivalence; FEMA values each expected death (or 10 injuries) at \$13.7 million (2024 dollars).

FEMA does not split Public Assistance by hazard. A declaration mapped to several hazards is listed under each of them with its full amount, so the per-hazard column must not be added up; the unit total counts each declaration once.

Dollars are nominal (as reported), labeled with the year; not adjusted for inflation.

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Supports B2-a: context

County context

Measure	Value
Population	45,705
Building value (total, not at risk)	\$7,817,033,432
Agriculture value (total, not at risk)	\$144,037,469
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$17,295,512
Expected annual loss, population equivalence, all hazards (NRI values each statistical life at \$13.7M; a modeled value of expected deaths and injuries, not property damage)	\$10,322,410
Social vulnerability rating	Very High
Community resilience rating	Relatively Low
NRI version	December 2025

FEMA's all-hazard expected annual loss total adds buildings, agriculture and population equivalence; the two parts are shown separately so the property figure is not read as including the statistical value of life.

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	7	Severe repetitive loss, NFIP insurance definition	0

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

SOURCES
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties: county total and NFIP communities

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	0	0	7	0	7	0	0
OSAGE COUNTY*	0	0	5	0	5	0	0
PAWHUSKA, CITY OF	0	0	1	0	1	0	0
TULSA, CITY OF	0	0	1	0	1	0	0

SOURCESFEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)**Repeat-flood properties by plan member (NFIP community)**

Member	NFIP community ID	RL, FMA properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties	Note
Osage County	400146	0	0	5	0	5	0	0	
Avant town	400147	0	0	0	0	0	0	0	
Barnsdall city	400148	0	0	0	0	0	0	0	
Bartlesville city	400220	5	12	14	10	16	2	6	Whole community, including the part in Washington County; none of its repeat-flood properties are in this county.
Burbank town	400149	0	0	0	0	0	0	0	
Fairfax town	400150	0	0	0	0	0	0	0	
Hominy city	400151	0	0	0	0	0	0	0	
Pawhuska city	400152	0	0	1	0	1	0	0	
Prue town	400312	0	0	0	0	0	0	0	
Shidler city	400410	0	0	0	0	0	0	0	
Skiatook city	400212	1	4	9	1	12	1	0	Whole community, including the part in Tulsa County; none of its repeat-flood properties are in this county.
Tulsa city	405381	0	8	77	3	82	3	5	Whole community, including the part in Creek County, Tulsa County and Wagoner County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 1, NFIP SRL 0, any category 1.
Wynona town	400454	0	0	0	0	0	0	0	

Per-member types: XLSX sheet 'B2-c Members'.

Member rows are whole NFIP communities and need not add up to the county total: a community that extends into another county is counted in full on each member row, while the county table counts only its part in this county.

SOURCESFEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)**County repeat-flood properties by occupancy group**

Occupancy group	RL, FMA properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties
single-family residential	0	0	6	0	6	0	0
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
non-residential	0	0	1	0	1	0	0
not reported	0	0	0	0	0	0	0

Institutional properties cannot be separated in this data: FEMA's occupancy groups have no institutional class, so they fall in non-residential or other residential in the table by occupancy group.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

FMA RL and FMA SRL are the Flood Mitigation Assistance definitions (44 CFR 77.2), the ones the FEMA Local Mitigation Planning Policy Guide cites; OpenFEMA's fmaRI field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRI) is 2 or more claims over \$1,000 in 10 years and can drop to false when a property is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured.

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

Counts are aggregates of FEMA's public NFIP Multiple Loss Properties file (as of 2026-08-02). No property is identified. County assignment is FEMA's geocode.

Counts may differ from your state NFIP coordinator's list, which is the source the Handbook names.

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 7 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

Every table above lists its own sources. The full list, for the plan's bibliography (FEMA review item A4-a):

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-28, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

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Cite this: Hazard Plain (2026). Osage County, OK: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 40113). Preview: automated baseline. Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

Corrections: to report an error, name the packet, the table and what your records show. Contact: to be added

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_OK_40113. Preview: automated baseline.