

Muskogee County, OK

Risk-assessment baseline packet

Unit **County area 40101** 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

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Plan clock

Status	Approved, expires 2029-04-16	Plan	Muskogee County (FEMA plan 109682)
Approved	2024-04-17	Expires	2029-04-16
As of	2026-09-28	Days	931 days to expiry

What changed since your last plan (approved 2024-04-17)

New federal declarations	DR-4791-OK (1 declaration row; 1 counted incident)	Storm Events records since approval	56 (data through 2026-06-30)
Repetitive loss now	FMA RL 4, SRL 10 (44 CFR 77.2); any definition: 21	Repeat-flood change	First release: no prior release to compare.

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: 26 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.

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Plan clock

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Update underway	Notes
Muskogee County	County	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		member approved 2024-05-08
Boynton town	Town	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		member approved 2025-04-16
Braggs town	Town	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		member approved 2025-04-16
Council Hill town	Town	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		member approved 2025-04-16
Fort Gibson town	Town	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		member approved 2024-05-08
Haskell town	Town	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		member approved 2024-05-09
Muskogee city	City	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	Muskogee County (FEMA plan 109682), pending adoption here	2024-04-17 by FEMA; not yet adopted here	2029-04-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Oktaha town	Town	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	Muskogee County (FEMA plan 109682), pending adoption here	2024-04-17 by FEMA; not yet adopted here	2029-04-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Porum town	Town	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		
Summit town	Town	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	Muskogee County (FEMA plan 109682), pending adoption here	2024-04-17 by FEMA; not yet adopted here	2029-04-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Taft town	Town	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	Muskogee County (FEMA plan 109682), pending adoption here	2024-04-17 by FEMA; not yet adopted here	2029-04-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Wainwright town	Town	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	Muskogee County (FEMA plan 109682), pending adoption here	2024-04-17 by FEMA; not yet adopted here	2029-04-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Warner town	Town	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		member approved 2024-06-14
Webbers Falls town	Town	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		member approved 2025-04-16
Braggs Public Schools	School/School District	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	Muskogee County (FEMA plan 109682), pending adoption here	2024-04-17 by FEMA; not yet adopted here	2029-04-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Checotah Public Schools	School/School District	Approved, expires 2031-04-08	McIntosh County (FEMA plan 108203)	2026-04-09	2031-04-08	1,653		member approved 2026-08-05
Fort Gibson Public Schools	School/School District	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		
Haskell Public Schools	School/School District	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	Muskogee County (FEMA plan 109682), pending adoption here	2024-04-17 by FEMA; not yet adopted here	2029-04-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Hilldale Public Schools	School/School District	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		
Midway Public Schools	School/School District	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		member approved 2025-04-16
Muskogee Public Schools	School/School District	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	Muskogee County (FEMA plan 109682), pending adoption here	2024-04-17 by FEMA; not yet adopted here	2029-04-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Oktaha Public Schools	School/School District	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		member approved 2025-04-16
Porum Public Schools	School/School District	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	Muskogee County (FEMA plan 109682), pending adoption here	2024-04-17 by FEMA; not yet adopted here	2029-04-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Wainwright Public School	School/School District	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		member approved 2024-05-22
Warner Public Schools	School/School District	Approved, expires 2029-04-16	Muskogee County (FEMA plan 109682)	2024-04-17	2029-04-16	931		

						Days to expiry <i>negative = days since expiry</i>		
Jurisdiction	Type	Status	Plan	Approved	Expires		Update underway	Notes
Webbers Falls Public Schools	School/School District	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	Muskogee County (FEMA plan 109682), pending adoption here	2024-04-17 by FEMA; not yet adopted here	2029-04-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

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	\$10,958,716	\$480,757	\$1,536,074	\$12,975,548	99		
2	Tornado	Relatively High	Relatively Moderate	\$780,214	\$2,639	\$4,751,862	\$5,534,716	37		
3	Heat Wave	Relatively Moderate	Relatively Moderate	\$674	\$431	\$4,102,130	\$4,103,236	61		
4	Ice Storm	Very High	Very High	\$2,255,444		\$34,780	\$2,290,224	6		
5	Hail	Relatively High	Relatively Moderate	\$2,050,389	\$1,429	\$99,300	\$2,151,117	266		
6	Cold Wave	Relatively Moderate	Relatively Moderate	\$996	\$40,948	\$1,919,767	\$1,961,711	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
7	Drought	Relatively Moderate	Relatively Moderate		\$1,193,290		\$1,193,290	50		
8	Earthquake	Relatively Low	Relatively Low	\$798,153		\$326,946	\$1,125,099			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
9	Strong Wind	Relatively Moderate	Relatively Moderate	\$226,033	\$955	\$854,985	\$1,081,974	291		Includes 9 High Wind records, event types the NRI definition of this hazard leaves out.

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
10	Wildfire	Relatively Moderate	Relatively Low	\$566,761	\$1,539	\$281,039	\$849,339	11		
11	Lightning	Relatively Moderate	Relatively Moderate	\$19,275		\$469,143	\$488,418	3		
12	Winter Weather	Relatively High	Relatively Moderate	\$166,230	\$564	\$44,635	\$211,429	39		
13	Hurricane	Very Low	Very Low	\$37,224	\$6,388	\$958	\$44,569	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$175		\$22	\$197	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.
	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).
	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 20
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 20
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	20 of 20
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	12 of 20
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.	20 of 20
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	20 of 20
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	20 of 20
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.	20 of 20
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	20 of 20
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.	20 of 20
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.	20 of 20
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	20 of 20
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	20 of 20
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.	20 of 20
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 20
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 20
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.	20 of 20
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	20 of 20

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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
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	50, 2005 to 2026 (50 zone- level)	24 days to 282 days (median 143 days); 9 with a recorded value	282 days (about 9.3 months), 2012-07-01 to 2013-04-08, a run of 10 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).
Hail	hail size (inches)	367, 1959 to 2025	0.75 in to 4.5 in (median 0.88 in); 366 with a recorded value	4.5 in hail, 2000-03-26	Hail, 2022-04-15, \$75,000 property; \$0 crops (2022 dollars)	Event records naming member places: Muskogee city (69 records), Porum town (25 records), Boynton town (22 records), Braggs town (22 records), Fort Gibson town (20 records), Haskell town (19 records), Warner town (17 records), Oktaha town (15 records), Webbers Falls town (15 records), Taft town (11 records); and 3 more member places (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	61, 1998 to 2025 (61 zone- level)	1 day to 32 days (median 2 days); 55 with a recorded value	32 days, 2011-07-09 to 2011-08-09, 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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Ice Storm	Sperry-Piltz (local data)	6, 1996 to 2013 (6 zone- level)		Ice Storm, 2007-12-09, \$15,000,000 property; \$0 crops, reported for the zone (2007 dollars); NWS zone OKZ070 (MUSKOGEE), 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)	99, 1996 to 2024 (6 zone- level)		Flash Flood, 2000-06-21, \$200,000 property; crops not reported (2000 dollars)		Event records naming member places: Muskogee city (22 records), Haskell town (9 records), Fort Gibson town (6 records), Warner town (6 records), Wainwright town (4 records), Oktaha town (3 records), Porum town (3 records), Taft town (3 records), Boynton town (2 records), Braggs town (1 record); and 1 more member place (see the XLSX file). Zone-level records (6) 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.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	3, 1998 to 1999		Lightning, 1998-06-10, \$15,000 property; crops not reported (1998 dollars)		Event records naming member places: Muskogee city (2 records), Fort Gibson town (1 record).	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, 1998 to 2025 (9 zone- level)	50 kt (58 mph) to 57 kt (66 mph) (median 53 kt (61 mph)); 7 with a recorded value	57 kt (66 mph) measured gust, High Wind, 2025-03-14; same speed and measurement basis also recorded on 2005-11-27; NWS zone OKZ070 (MUSKOGEE), zone-level: may include parts of neighboring counties	High Wind, 2009-04-17, \$5,000 property; \$0 crops, reported for the zone (2009 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	390, 1956 to 2026	50 kt (58 mph) to 90 kt (104 mph) (median 58 kt (67 mph)); 268 with a recorded value	90 kt (104 mph), measurement type not recorded, Thunderstorm Wind, 1966-06-07	Thunderstorm Wind, 2023-06-17, \$346,000 property; \$0 crops (2023 dollars)	Event records naming member places: Muskogee city (66 records), Haskell town (44 records), Webbers Falls town (35 records), Warner town (22 records), Braggs town (16 records), Porum town (15 records), Fort Gibson town (14 records), Wainwright town (9 records), Council Hill town (8 records), Boynton town (6 records); and 3 more member places (see the XLSX file).	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Tornado	Enhanced Fujita (F before Feb 2007)	64, 1951 to 2026	F/EF0 to F/EF4 (median F/EF1); 59 with a recorded value	F4 tornado, 1973-05-26, 3.6 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 500 yd wide, \$250,000 property; crops not recorded (1973 dollars), 5 direct deaths, 25 direct injuries	Tornado, 1999-06-01, \$2,000,000 property; crops not reported (1999 dollars)	Event records naming member places: Haskell town (6 records), Fort Gibson town (5 records), Boynton town (4 records), Braggs town (4 records), Muskogee city (3 records), Webbers Falls town (3 records), Porum town (2 records), Warner town (2 records), Council Hill town (1 record).	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.
Wildfire	acres burned (local data)	11, 2005 to 2020 (11 zone-level)		Wildfire, 2006-01-01, \$500,000 property; crops not reported, reported for the zone (2006 dollars); NWS zone OKZ070 (MUSKOGEE), 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)	39, 1996 to 2026 (39 zone-level)		Winter Storm, 2007-01-12, \$10,500,000 property; \$0 crops, reported for the zone (2007 dollars); NWS zone OKZ070 (MUSKOGEE), zone-level: may include parts of neighboring counties		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

Supports B1-d: previous occurrences

Declaration rows **34**

Counted incidents **25**

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
2024-06-14	2024-05-19	DR-4791-OK	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, AND FLOODING	Inland Flooding; Strong Wind; Tornado	PA not declared for this county	new since last plan; within last 5 years	
2023-07-19	2023-06-14	DR-4721-OK	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, AND TORNADOES	Strong Wind; Tornado	\$164,634	during plan review, check whether your last plan included it; within last 5 years	
2022-06-29	2022-05-02	DR-4657-OK	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	PA not declared for this county	within last 5 years	
2021-02-24	2021-02-08	DR-4587-OK	Major disaster	SEVERE WINTER STORMS	Ice Storm	\$90,000		
2021-02-17	2021-02-08	EM-3555-OK	Emergency	SEVERE WINTER STORM	Ice Storm	none found		same incident as DR-4587
2020-04-05	2020-01-20	DR-4530-OK	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$217,606.11		
2020-03-13	2020-01-20	EM-3462-OK	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4530
2019-06-01	2019-05-07	DR-4438-OK	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, AND FLOODING	Inland Flooding; Strong Wind; Tornado	\$6,916,769.81		
2019-05-25	2019-05-07	EM-3411-OK	Emergency	FLOODING	Inland Flooding	none found		same incident as DR-4438
2017-07-25	2017-05-16	DR-4324-OK	Major disaster	SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS, AND FLOODING	Tornado (primary); also designated: Inland Flooding, Strong Wind	\$358,912.23		
2017-05-26	2017-04-28	DR-4315-OK	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$325,505.24		
2016-02-10	2015-12-26	DR-4256-OK	Major disaster	SEVERE WINTER STORMS AND FLOODING	Inland Flooding; Winter Weather	\$380,876.43		
2015-05-26	2015-05-05	DR-4222-OK	Major disaster	SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS, AND FLOODING	Inland Flooding; Strong Wind; Tornado	\$904,543.37		
2011-05-27	2011-04-21	DR-1988-OK	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$354,893.27		
2011-02-02	2011-01-31	EM-3316-OK	Emergency	SEVERE WINTER STORM	Winter Weather	none found		
2010-03-05	2010-01-28	DR-1883-OK	Major disaster	SEVERE WINTER STORM	Ice Storm	\$62,387.49		
2010-02-25	2009-12-24	DR-1876-OK	Major disaster	SEVERE WINTER STORM	Winter Weather	\$632,161.56		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2010-01-30	2010-01-28	EM-3308-OK	Emergency	SEVERE WINTER STORM	Winter Weather	none found		same incident as DR-1883
2009-02-17	2009-01-26	DR-1823-OK	Major disaster	SEVERE WINTER STORM	Winter Weather	\$71,141.24		
2008-05-09	2008-04-09	DR-1754-OK	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding (primary); also designated: Tornado	\$319,430.88		
2008-05-05	2008-03-17	DR-1752-OK	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$375,913.63		
2007-12-10	2007-12-08	EM-3280-OK	Emergency	SEVERE WINTER STORMS	Ice Storm	none found		
2007-07-07	2007-06-10	DR-1712-OK	Major disaster	SEVERE STORMS, FLOODING, AND TORNADOES	Inland Flooding; Tornado	\$174,132.26		
2007-02-01	2007-01-12	DR-1678-OK	Major disaster	SEVERE WINTER STORMS	Winter Weather	\$8,256,517.38		
2007-01-14	2007-01-12	EM-3272-OK	Emergency	SEVERE WINTER STORMS AND FLOODING	Ice Storm	none found		same incident as DR-1678
2006-01-10	2005-11-27	DR-1623-OK	Major disaster	EXTREME WILDFIRE THREAT	Wildfire	\$67,447.72		
2006-01-01	2006-01-01	FM-2599-OK	Fire management	WAINWRIGHT FIRE COMPLEX	Wildfire	none found		same incident as DR-1623
2005-09-05	2005-08-29	EM-3219-OK	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	\$249,019.98		
2003-05-10	2003-05-08	DR-1465-OK	Major disaster	SEVERE STORMS AND TORNADOES	Tornado	\$148,547.69		
2001-06-29	2001-05-27	DR-1384-OK	Major disaster	SEVERE STORMS, FLOODING, AND TORNADOES	Inland Flooding; Tornado	\$66,901.59		
2001-01-05	2000-12-25	DR-1355-OK	Major disaster	SEVERE WINTER ICE STORM	Ice Storm	\$5,692,161.33		
2000-12-28	2000-12-25	EM-3158-OK	Emergency	SEVERE WINTER AND ICE STORM	Ice Storm	none found		same incident as DR-1355
1986-10-14	1986-09-26	DR-778-OK	Major disaster	SEVERE STORMS & 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		

School districts and special districts in this county: \$11,998.75 (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	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	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	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Drought	50	4	0	12	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	367	6	4	21	0	0	1955 to 2026-06-30	
Heat Wave	61	11	7	23	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	6	0	0	0	5	0	1996 to 2026-06-30	
Inland Flooding	99	3	0	5	14	1	1996 to 2026-06-30	
Landslide	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	3	0	0	0	0	0	1996 to 2026-06-30	

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
Strong Wind	399	25	4	35	5	1	1955 to 2026-06-30	Includes 9 High Wind records, event types the NRI definition of this hazard leaves out.
Tornado	64	5	0	6	13	1	1950 to 2026-06-30	
Tsunami	0	0	0	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	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	11	0	0	0	1	0	1996 to 2026-06-30	
Winter Weather	39	2	0	6	6	0	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	57 kt (66 mph) measured gust	\$0 property; \$0 crops, reported for the zone (2025 dollars)	0, 0	NWS zone OKZ070 (MUSKOGEE), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2024-11-08	Flood		\$15,000 property; \$0 crops (2024 dollars)	2, 0	HASKELL	new since last plan; within last 5 years	deaths or injuries recorded
2015-03-25	Flash Flood		\$0 property; \$0 crops (2015 dollars)	2, 0	WARNER		deaths or injuries recorded
2012-07-01	Drought		\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone OKZ070 (MUSKOGEE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Drought
2011-07-09	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone OKZ070 (MUSKOGEE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2007-12-09	Ice Storm		\$15,000,000 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone OKZ070 (MUSKOGEE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Ice Storm
2006-01-01	Wildfire		\$500,000 property; crops not reported, reported for the zone (2006 dollars)	0, 0	NWS zone OKZ070 (MUSKOGEE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Wildfire

				Direct deaths, injuries <i>indirect not counted</i>			
Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>		Location	Flags	Why listed
2000-06-21	Flash Flood		\$200,000 property; crops not reported (2000 dollars)	0, 0	COUNTYWIDE		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2000-03-26	Hail	4.5 in	damage not reported	0, 0	JAMESVILLE		B1-c worst recorded: Hail
1998-06-10	Lightning		\$15,000 property; crops not reported (1998 dollars)	0, 0	MUSKOGEE		B1-c worst recorded: Lightning
1973-05-26	Tornado	F4, 3.6 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 500 yd wide	\$250,000 property; crops not recorded (1973 dollars)	5, 25	location not recorded		deaths or injuries recorded
1966-06-07	Thunderstorm Wind	90 kt (104 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind

The full list is in the XLSX file, sheet "B1-d Storm Events history" (1,099 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

		FEMA annualized frequency (modeled) <i>unit per row</i>					NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)			
Hazard	Unit	In plain terms	Descriptor	basis		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	1.16 event-days per year	about 1.16 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	22	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.		

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
Drought	18.6	event-days per year	about 18.6 days per year	Likely	event-days in 10 of 30 years, 1996 to 2025 (33.3%)	665	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 18.6 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 10 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	0.00151	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.151%			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	8.66	events per year	about 8.66 per year	Highly likely	FEMA annualized frequency (modeled)	329.0 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	25.9	event-days per year	about 25.9 days per year	Likely	event-days in 19 of 30 years, 1996 to 2025 (63.3%)	340	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0153	events per year	about 1 in 66 years	Possible	FEMA annualized frequency (modeled)	6	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.
Ice Storm	1.45	event-days per year	about 1.45 days per year	Likely	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	98	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 1.45 ice storm event-days a year here (its annualized frequency over 67 years; not its event count divided by the years), but Storm Events has a record in only 4 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.
Inland Flooding	2.68	event-days per year	about 2.68 days per year	Likely	event-days in 23 of 30 years, 1996 to 2025 (76.7%)	75	1996 to 2023 (28 years)	see B1-f	
Landslide	0.172	events per year (modeled)	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	57.4	days per year with a strike	about 57.4 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	

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
Strong Wind	6.46	events per year	about 6.46 per year	Highly likely	FEMA annualized frequency (modeled)	246	1986 to 2023 (38 years)	countywide	
Tornado	0.941	events per year	about 0.94 per year	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	0.00614	annual probability at a location	chance a given location in the county burns in a year: 0.614%	Likely	Storm Events records in 5 of 30 years, 1996 to 2025 (16.7%)	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	7.74	event-days per year	about 7.74 days per year	Likely	event-days in 23 of 30 years, 1996 to 2025 (76.7%)	147	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

Unit	Descriptor	Definition
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	112	30	3.73
Hail	2.00 in+	1996 to 2025	11	30	0.367
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	182	30	6.07
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	45	30	1.5
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	52	30	1.73
Tornado	EF0-1	1996 to 2025	32	30	1.07
Tornado	EF2-3	1996 to 2025	2	30	0.0667
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	2	30	0.0667

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 rated of all	Risk score min NRI score, 0 to 100	Median	Max	Tracts by rating	Note
Avalanche	0 of 20				Not Applicable 20	
Coastal Flooding	0 of 20				Not Applicable 20	
Cold Wave	20 of 20	58.2	72.8	82.4	Relatively High 4, Relatively Moderate 16	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	12 of 20	81.4	94.2	98.5	Relatively High 2, Relatively Moderate 5, Relatively Low 5, No Rating 8	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	20 of 20	36.4	64.3	84.2	Relatively Moderate 1, Relatively Low 18, Very Low 1	
Hail	20 of 20	85.7	92.6	98.5	Very High 1, Relatively High 18, 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.
Heat Wave	20 of 20	87.0	93.6	96.2	Relatively High 20	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	20 of 20	39.6	42.1	49.8	Very Low 20	
Ice Storm	20 of 20	95.8	98.0	99.8	Very High 15, Relatively High 5	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	20 of 20	26.4	62.8	91.2	Relatively High 5, Relatively Moderate 11, Relatively Low 4	
Landslide	20 of 20	13.7	40.7	80.3	Very Low 20	
Lightning	20 of 20	64.4	80.7	91.5	Relatively High 13, Relatively Moderate 7	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	20 of 20	72.4	84.8	91.5	Relatively High 13, Relatively Moderate 7	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	20 of 20	76.2	87.8	95.8	Very High 3, Relatively High 17	
Tsunami	0 of 20				Not Applicable 20	
Volcanic Activity	0 of 20				Not Applicable 20	
Wildfire	20 of 20	20.0	89.3	96.4	Relatively High 1, Relatively Moderate 11, Relatively Low 5, Very Low 3	
Winter Weather	20 of 20	76.5	85.4	96.2	Very High 1, Relatively High 18, 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.

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
Muskogee County	County	Approved, expires 2029-04-16	FMA RL 1, SRL 0; any 3	\$11,971,243.71	0; 0	Includes \$153,299.87 for declarations not counted as hazard incidents (EM-3219-OK).
Boynton town	Town	Approved, expires 2029-04-16	FMA RL 0, SRL 0; any 0	none found	34; 0	
Braggs town	Town	Approved, expires 2029-04-16	FMA RL 0, SRL 0; any 0	\$22,375.15	43; 1	
Council Hill town	Town	Approved, expires 2029-04-16	FMA RL 0, SRL 0; any 0	none found	17; 1	
Fort Gibson town	Town	Approved, expires 2029-04-16	FMA RL 0, SRL 2; any 3	\$377,707.80	46; 2	
Haskell town	Town	Approved, expires 2029-04-16	FMA RL 0, SRL 0; any 0	none found	78; 3	
Muskogee city	City	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	FMA RL 3, SRL 8; any 15	\$9,382,000.24	162; no approved plan	Includes \$177,895.67 for declarations not counted as hazard incidents (DR-4530-OK, EM-3219-OK).
Oktaha town	Town	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	24; no approved plan	
Porum town	Town	Approved, expires 2029-04-16	FMA RL 0, SRL 0; any 0	\$68,691.88	45; 1	
Summit town	Town	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$2,552.63	3; no approved plan	
Taft town	Town	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	19; no approved plan	
Wainwright town	Town	Plan 109682 approved 2024-04-17, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	18; no approved plan	
Warner town	Town	Approved, expires 2029-04-16	FMA RL 0, SRL 0; any 0	\$106,284.24	47; 4	

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>	
Webbers Falls town	Town	Approved, expires 2029-04-16	FMA RL 0, SRL 0; any 0	\$934,749.52	54; 4	

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.

- 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 <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 2024-04-17 <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
Avalanche											Not Applicable in NRI for this county
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$12,823,261,252	\$61,108,321	66,200	\$996	\$40,948	\$1,919,767	under 0.0001%				
Drought		\$15,221,670			\$1,193,290		7.84% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$23,353,463,342		66,339	\$798,153		\$326,946	0.00342%				

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 2024-04-17 <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
Hail	\$12,823,270,354	\$61,108,321	66,200	\$2,050,389	\$1,429	\$99,300	0.016%	\$0			
Heat Wave	\$12,823,261,252	\$61,108,321	66,200	\$674	\$431	\$4,102,130	under 0.0001%		\$0		
Hurricane	\$12,657,509,299	\$59,613,719	65,356	\$37,224	\$6,388	\$958	0.000294%				
Ice Storm	\$12,822,550,693		66,195	\$2,255,444		\$34,780	0.0176%				
Inland Flooding	\$12,820,628,509	\$15,283,111	1,689	\$10,958,716	\$480,757	\$1,536,074	n/a (see note)	\$15,000		none found (1 declaration)	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	\$49,252,587		318	\$175		\$22	0.000355%				
Lightning	\$12,823,270,354		66,200	\$19,275		\$469,143	0.00015%				
Strong Wind	\$12,823,270,354	\$61,108,321	66,200	\$226,033	\$955	\$854,985	0.00176%	\$169,000	\$0	none found (1 declaration)	
Tornado	\$12,823,270,354	\$61,108,321	66,200	\$780,214	\$2,639	\$4,751,862	0.00608%	\$800,000		none found (1 declaration)	
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$1,094,551,367	\$35,331,276	18,240	\$566,761	\$1,539	\$281,039	0.0518%				
Winter Weather	\$12,823,261,252	\$61,108,321	66,200	\$166,230	\$564	\$44,635	0.0013%		\$0		

Totals since 2024-04-17 (Storm Events through 2026-06-30): 38 county-coded records, 38 with a damage value recorded (including \$0), \$984,000; 18 zone-level records, 18 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance on counted declarations none found (1 declaration, 0 with PA).

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	66,200
Building value (total, not at risk)	\$12,823,270,354
Agriculture value (total, not at risk)	\$61,108,321
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$19,589,225
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)	\$14,421,641
Social vulnerability rating	Relatively High
Community resilience rating	Relatively Moderate
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)	4	Severe repetitive loss, FMA definition (44 CFR 77.2)	10
Repetitive loss, NFIP insurance definition	14	Severe repetitive loss, NFIP insurance definition	4

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	4	10	14	4	21	6	4
FORT GIBSON, TOWN OF	0	2	3	2	3	0	0
MUSKOGEE, CITY OF	3	8	9	2	15	6	4
MUSKOGEE COUNTY *	1	0	2	0	3	0	0

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 by plan member (NFIP community)**

Member	NFIP community ID	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>	Note
Muskogee County	400491	1	0	2	0	3	0	0	
Boynton town	400120	0	0	0	0	0	0	0	
Braggs town	400121	0	0	0	0	0	0	0	
Council Hill town	400122	0	0	0	0	0	0	0	
Fort Gibson town	400123	0	2	3	2	3	0	0	
Haskell town	400124	0	0	0	0	0	0	0	
Muskogee city	400125	3	8	9	2	15	6	4	
Oktaha town	400126	0	0	0	0	0	0	0	
Porum town	400127	0	0	0	0	0	0	0	
Summit town	400578	0	0	0	0	0	0	0	
Taft town	400128	0	0	0	0	0	0	0	
Wainwright town	400129	0	0	0	0	0	0	0	
Warner town	400130	0	0	0	0	0	0	0	
Webbers Falls town	400131	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 <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>
single-family residential	4	10	14	4	21	6	4
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	0	0	0	0	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.

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)

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 fmaRL field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRL) 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 3 properties are FMA repetitive loss but not NFIP repetitive loss, and 13 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_Gazetteer/2024_Gaz_cousubs_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_Gazetteer/2024_Gaz_place_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_Gazetteer/2024_Gaz_unsd_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_Gazetteer/2024_Gaz_elsd_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_Gazetteer/2024_Gaz_scsd_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). Muskogee County, OK: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 40101). 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_40101. Preview: automated baseline.