

Canadian County, OK

Risk-assessment baseline packet

County FIPS: 40017 Release: 2026-10 Data as of: 2026-09-30 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.

Summary

Plan status as of 2026-09-30: Approved, expires 2026-11-16. Plan: Canadian County (FEMA plan 106587), approved 2021-11-17.

Since the plan was approved on 2021-11-17: 1 new hazard declaration (1 incident) and 244 NOAA Storm Events records; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$24,077,686 a year), Tornado (\$17,406,424) and Cold Wave (\$11,391,933).

The tables that follow are organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B (B1-a to B2-c); each heading says which item its tables support.

TERMS USED

EAL: expected annual loss: FEMA's modeled average yearly loss from a hazard.

NRI: FEMA's National Risk Index (version 1.20, December 2025).

NFIP: National Flood Insurance Program.

RL, SRL: repetitive loss and severe repetitive loss: flood-insured properties with repeated claims (definitions in B2-c).

FMA, HMGP: Flood Mitigation Assistance and Hazard Mitigation Grant Program, FEMA mitigation grants.

PA: FEMA Public Assistance: disaster aid to governments and some nonprofits.

Zone-level: NOAA logged the event for a National Weather Service forecast zone, which may include parts of neighboring counties.

County-coded: NOAA logged the event to this county.

FIPS: the federal code for a place; 40017 is this area.

D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).

F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.

kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.

CFR: Code of Federal Regulations.

A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).

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

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Plan clock

Status:	Approved, expires 2026-11-16	Plan:	Canadian County (FEMA plan 106587)
Approved:	2021-11-17	Days to expiry:	47
Update underway:	none recorded in FEMA's plan tracker		

What changed since your last plan (approved 2021-11-17)

New federal declarations:	1 new hazard declaration (1 incident): FM-5669-OK (Train Trestle Fire)	Storm Events records since approval:	244 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 5, SRL 6 (44 CFR 77.2); any definition: 26	Repeat-flood change:	this release sets the baseline count.

Sources: 1, 2, 4, 6 (numbered list at the end)

Plan status for every jurisdiction listed in this county: 20 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Notes
Canadian County	County	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Calumet town	Town	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
El Reno city	City	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Geary city	City	Approved, expires 2028-03-22	Blaine County (FEMA plan 106683)	2023-03-23	2028-03-22	539	this jurisdiction approved 2025-02-04
Mustang city	City	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Oklahoma City city	City	Approved, expires 2027-12-29	Oklahoma City (FEMA plan 108616)	2022-12-30	2027-12-29	455	
Piedmont city	City	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Union City town	Town	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Yukon city	City	Approved, expires 2029-09-11	Yukon (FEMA plan 109995)	2024-09-12	2029-09-11	1,077	
Banner Public School	School/School District	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Calumet Public Schools	School/School District	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Cashion Public Schools	School/School District	Approved, expires 2029-07-23	Kingfisher County (FEMA plan 108934)	2024-07-24	2029-07-23	1,027	
Darlington Public School	School/School District	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
El Reno Public Schools	School/School District	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Maple Public School	School/School District	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Mustang Public Schools	School/School District	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Piedmont Public Schools	School/School District	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Riverside Public School	School/School District	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Union City Public Schools	School/School District	Approved, expires 2026-11-16	Canadian County (FEMA plan 106587)	2021-11-17	2026-11-16	47	
Yukon Public Schools	School/School District	Approved, expires 2029-09-11	Yukon (FEMA plan 109995)	2024-09-12	2029-09-11	1,077	this jurisdiction approved 2024-09-25

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

- 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)

Sources: 5, 6

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>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Inland Flooding	Relatively Moderate	Relatively Moderate	\$22,963,924	\$820,791	\$292,970	\$24,077,686	57	
2	Tornado	Relatively High	Relatively High	\$3,597,401	\$11,368	\$13,797,655	\$17,406,424	63	
3	Cold Wave	Relatively High	Relatively High	\$35,496	\$272,070	\$11,084,367	\$11,391,933	14	Includes 1 Frost/Freeze record (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
4	Heat Wave	Relatively Moderate	Relatively Moderate	\$488	\$799	\$6,231,187	\$6,232,475	68	
5	Hail	Relatively High	Relatively High	\$5,374,136	\$419	\$377,015	\$5,751,570	441	
6	Ice Storm	Very High	Very High	\$4,587,067	n/a	\$175,458	\$4,762,525	13	
7	Strong Wind	Relatively Moderate	Relatively Moderate	\$130,819	\$724	\$1,036,720	\$1,168,264	275	Includes 23 High Wind and 1 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
8	Wildfire	Relatively Low	Relatively Low	\$728,229	\$1,474	\$187,308	\$917,011	1	
9	Drought	Relatively Moderate	Relatively Moderate	n/a	\$769,762	n/a	\$769,762	97	
10	Earthquake	Relatively Low	Relatively Low	\$621,325	n/a	\$113,141	\$734,467		Storm Events does not record earthquakes.
11	Winter Weather	Relatively High	Relatively High	\$83,427	\$1,996	\$404,027	\$489,450	57	

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>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
12	Lightning	Relatively Low	Relatively Low	\$66,807	n/a	\$70,505	\$137,312	10	
13	Hurricane	Very Low	Very Low	\$10,044	\$10,475	\$201	\$20,719	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$229	n/a	\$3,825	\$4,054	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

NRI risk rating combines expected annual loss with social vulnerability and community resilience; EAL rating rates expected annual loss alone. Both compare this county with all U.S. counties.

Local data needed: state and local landslide records (Storm Events records this hazard only in part).

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: avalanche, coastal flooding, tsunامي and volcanic activity. That is the evidence for leaving them out of the plan.

The state hazard mitigation plan also lists hazards for this county; FEMA asks the plan to explain any hazard it leaves out.

Supports FEMA checklist item B1-b: hazard location

Affects the whole county (national data give no location within it): Cold Wave, Drought, Hail, Heat Wave, Ice Storm, Lightning, Strong Wind and Winter Weather.

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.

Hazards that vary within the county: highest-rated census tracts

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 3007.02 (Relatively Low, 64.5); tract 3002.02 (Relatively Low, 63.9); tract 3010.01 (Relatively Low, 61.2)
Hurricane	tract 3002.02 (Very Low, 46.3); tract 3007.02 (Very Low, 42.4); tract 3001 (Very Low, 40.5)
Landslide	tract 3001 (Relatively Moderate, 96.6); tract 3002.02 (Relatively Low, 86.0); tract 3002.01 (Relatively Low, 82.9)
Tornado	tract 3007.02 (Very High, 98.3); tract 3013.02 (Very High, 98.1); tract 3002.02 (Very High, 98.0)
Wildfire	tract 3002.02 (Relatively Moderate, 94.5); tract 3008.03 (Relatively Moderate, 94.4); tract 3002.01 (Relatively Moderate, 94.3)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 3007.02 is Census Tract 3007.02). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	13 records, 1996 to 2025 (13 zone-level)	1 day to 5 days (median 2.5 days); 10 with a recorded value	5 consecutive days, 1996-02-01 to 1996-02-05, zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	1 record, 2023 (1 zone-level)		No crop damage reported in 1 record.		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	97 records, 2000 to 2026 (97 zone-level)	5 days to 414 days (median 132 days); 17 with a recorded value	414 days (about 13.6 months), 2005-12-01 to 2007-01-18, a run of 14 consecutive Storm Events drought records, zone-level	Drought, 2000-08-01, property not reported; \$8,330,000 crops (zone total, 2000 dollars)	Countywide (zone-level records).	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					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	726 records, 1955 to 2026 (1 zone-level)	0.75 in to 7 in (median 1 in); 725 with a recorded value	7 in hail, 1961-04-30	Hail, 2004-05-29, \$500,000 property; crops not reported (2004 dollars)	Event records naming jurisdictions in the plan: Yukon city (116 records), Mustang city (65 records), Piedmont city (65 records), El Reno city (55 records), Calumet town (52 records), Union City town (33 records), Oklahoma City city (2 records). Zone-level records (1) apply countywide.	
Excessive Heat, Heat	heat index (in event narratives)	68 records, 1999 to 2026 (68 zone-level)	1 day to 29 days (median 1.5 days); 32 with a recorded value	29 consecutive days, 2006-07-16 to 2006-08-13, zone-level		Countywide (zone-level records).	
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	13 records, 1998 to 2020 (13 zone-level)		Ice Storm, 2015-12-27, \$8,664,000 property; crops not reported (2015 dollars); NWS zone OKZ024		Countywide (zone-level records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	57 records, 1996 to 2025 (4 zone-level)		Flash Flood, 2007-08-19, \$800,000 property; \$0 crops (2007 dollars)		Event records naming jurisdictions in the plan: Yukon city (23 records), Mustang city (11 records), Piedmont city (11 records), El Reno city (7 records), Calumet town (2 records), Union City town (2 records). Zone-level records (4) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	0					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	10 records, 1998 to 2023		Lightning, 2023-08-08, \$452,000 property; crops not reported (2023 dollars)		Event records naming jurisdictions in the plan: Yukon city (4 records), Piedmont city (3 records), El Reno city (2 records), Mustang city (1 record).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	24 records, 1996 to 2026 (24 zone-level)	35 kt (40 mph) to 65 kt (75 mph) (median 52 kt (60 mph)); 19 with a recorded value	65 kt (75 mph) estimated gust, High Wind, 2008-06-05; NWS zone OKZ024		Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	386 records, 1955 to 2026 (1 zone-level)	50 kt (58 mph) to 93 kt (107 mph) (median 56 kt (64 mph)); 300 with a recorded value	93 kt (107 mph) measured, Thunderstorm Wind, 2001-05-27; 1 recorded speed above 130 kt left out (event 316943): a measured gust at an Oklahoma Mesonet site as the El Reno EF5 tornado passed (NCEI event narrative), so a tornado wind, not a thunderstorm wind speed	Thunderstorm Wind, 1995-06-03, \$5,000,000 property; crops not recorded (1995 dollars)	Event records naming jurisdictions in the plan: El Reno city (65 records), Yukon city (49 records), Piedmont city (39 records), Mustang city (28 records), Calumet town (20 records), Union City town (15 records), Oklahoma City city (2 records). Zone-level records (1) apply countywide.	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	110 records, 1951 to 2026	F/EF0 to F/EF5 (median F/EF1); 109 with a recorded value	EF5 tornado, 2011-05-24, 39.6 mi within this county, 1,760 yd wide, damage not reported, 7 direct deaths, 112 direct injuries	Tornado, 2007-05-08, \$3,000,000 property; \$0 crops (2007 dollars)	Event records naming jurisdictions in the plan: Union City town (18 records), El Reno city (14 records), Calumet town (11 records), Piedmont city (10 records), Mustang city (8 records), Yukon city (8 records).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Wildfire	acres burned (local data)	1 record, 2018 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	57 records, 1996 to 2026 (57 zone-level)		Winter Storm, 2007-01-12, \$40,000 property; \$0 crops (2007 dollars); NWS zone OKZ024		Countywide (zone-level records).	

In event narratives only (local data needed): wind chill, temperature, heat index, ice thickness, acres burned and snow depth; any physical measure of debris flow and lightning.

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records from zones that no NWS zone-county file places in this county (mostly before 2020) are not counted here (the Methods page explains the zone matching).

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 40 declarations covering 33 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2026-08-13	2026-08-13	FM-5669-OK	Fire management	Train Trestle Fire	Wildfire	not yet in FEMA's PA summaries (they cover declarations through 2026-06-30)	new since last plan; within last 5 years	
2021-02-24	2021-02-08	DR-4587-OK	Major disaster	Severe Winter Storms	Ice Storm	\$36,679.35	in the 12 months before plan approval	
2021-02-17	2021-02-08	EM-3555-OK	Emergency	Severe Winter Storm	Ice Storm	no Public Assistance recorded	in the 12 months before plan approval	same incident as DR-4587
2020-12-21	2020-10-26	DR-4575-OK	Major disaster	Severe Winter Storm	Ice Storm	\$8,076,344.87	in the 12 months before plan approval	
2020-04-05	2020-01-20	DR-4530-OK	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$198,662.58		
2020-03-13	2020-01-20	EM-3462-OK	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4530

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2019-06-01	2019-05-07	DR-4438-OK	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, and Flooding	Inland Flooding; Strong Wind; Tornado	\$2,546,056.08		
2016-02-10	2015-12-26	DR-4256-OK	Major disaster	Severe Winter Storms and Flooding	Inland Flooding; Winter Weather	\$135,005.46		
2015-12-29	2015-11-27	DR-4247-OK	Major disaster	Severe Winter Storms and Flooding	Ice Storm	\$5,004,376.36		
2015-05-26	2015-05-05	DR-4222-OK	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	\$803,119.05		
2013-05-20	2013-05-18	DR-4117-OK	Major disaster	Severe Storms, Tornadoes, and Flooding	Tornado (primary); also designated: Inland Flooding	\$1,332,061.15		
2011-08-01	2011-08-01	FM-2941-OK	Fire management	Mustang Road Fire	Wildfire	no Public Assistance recorded		
2011-06-06	2011-05-22	DR-1989-OK	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	\$454,295.50		
2011-02-02	2011-01-31	EM-3316-OK	Emergency	Severe Winter Storm	Winter Weather	no Public Assistance recorded		
2010-03-05	2010-01-28	DR-1883-OK	Major disaster	Severe Winter Storm	Ice Storm	\$120,025.45		
2010-02-25	2009-12-24	DR-1876-OK	Major disaster	Severe Winter Storm	Winter Weather	\$306,368.40		
2010-01-30	2010-01-28	EM-3308-OK	Emergency	Severe Winter Storm	Winter Weather	no Public Assistance recorded		same incident as DR-1883
2007-12-18	2007-12-08	DR-1735-OK	Major disaster	Severe Winter Storms	Ice Storm	\$452,189.19		
2007-12-10	2007-12-08	EM-3280-OK	Emergency	Severe Winter Storms	Ice Storm	no Public Assistance recorded		same incident as DR-1735
2007-08-24	2007-08-18	DR-1718-OK	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$1,412,861.55		
2007-07-07	2007-06-10	DR-1712-OK	Major disaster	Severe Storms, Flooding, and Tornadoes	Inland Flooding; Tornado	\$264,808.76		
2007-06-07	2007-05-04	DR-1707-OK	Major disaster	Severe Storms, Tornadoes and Flooding	Inland Flooding; Tornado	\$193,963.97		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2007-02-01	2007-01-12	DR-1678-OK	Major disaster	Severe Winter Storms	Winter Weather	\$432,479.11		
2007-01-14	2007-01-12	EM-3272-OK	Emergency	Severe Winter Storms and Flooding	Ice Storm	no Public Assistance recorded		same incident as DR-1678
2006-01-10	2005-11-27	DR-1623-OK	Major disaster	Extreme Wildfire Threat	Wildfire	\$66,737.37		
2005-09-05	2005-08-29	EM-3219-OK	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2003-05-10	2003-05-08	DR-1465-OK	Major disaster	Severe Storms and Tornadoes	Tornado	PA not declared for this county		
2003-02-04	2002-12-03	DR-1452-OK	Major disaster	Severe Ice Storm	Ice Storm	no Public Assistance recorded		
2002-02-01	2002-01-30	DR-1401-OK	Major disaster	Severe Winter Ice Storm	Ice Storm	\$1,573,816.36		
2001-06-29	2001-05-27	DR-1384-OK	Major disaster	Severe Storms, Flooding, and Tornadoes	Inland Flooding; Tornado	\$239,523.71		
2001-01-05	2000-12-25	DR-1355-OK	Major disaster	Severe Winter Ice Storm	Ice Storm	\$1,573,208.60		
1999-05-04	1999-05-03	DR-1272-OK	Major disaster	Ok, Tornadoes 5/3/99	Tornado	\$16,802.79		
1995-09-01	1995-07-21	DR-1066-OK	Major disaster	Severe Storms and Flooding	Inland Flooding	no Public Assistance recorded		
1995-06-26	1995-05-26	DR-1058-OK	Major disaster	Tornadoes, Severe Storms and Flooding	Tornado (primary); also designated: Inland Flooding	no Public Assistance recorded		
1993-05-12	1993-05-08	DR-991-OK	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	no Public Assistance recorded		
1987-07-09	1987-05-19	DR-794-OK	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1986-10-14	1986-09-26	DR-778-OK	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1983-10-26	1983-10-19	DR-693-OK	Major disaster	Severe Storms & Flooding	Inland Flooding	PA not declared for this county		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
1974-11-26	1974-11-26	DR-453-OK	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1973-06-13	1973-06-13	DR-392-OK	Major disaster	Severe Storms, Flooding, & Tornadoes	Inland Flooding; Tornado	no Public Assistance recorded		

School districts and special districts in this county: \$221,313.41 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan participants in this county. They have no row of their own in the jurisdiction table, 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), so this line is not added to it.

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.

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
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, so they are listed on every county page in the state and not counted with county rows. Local data needed: whether each one affected this county.

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.

Public Assistance filed under this county for declarations that do not list it: 1 row, \$74,627.76

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-4109-OK	2013-04-08	Severe Winter Storm and Snowstorm	Cheyenne-Arapaho Tribes of Oklahoma	\$74,627.76

FEMA's Public Assistance summaries file these applicants under this county, but FEMA's declaration rows for these disasters do not designate it (an electric cooperative or district serving several counties, for example). Not in any declaration row above and not counted.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Cold Wave	14	11	1	11	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record.
Drought	97	25	3	25	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	726	85	6	88	0	0	1955 to 2026-06-30	
Heat Wave	68	63	0	63	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	13	0	0	0	9	0	1996 to 2026-06-30	
Inland Flooding	57	5	0	5	17	0	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	10	1	0	1	0	0	1996 to 2026-06-30	
Strong Wind	410	39	7	44	3	0	1955 to 2026-06-30	Includes 23 High Wind and 1 Strong Wind records.
Tornado	110	9	2	11	13	0	1950 to 2026-06-30	
Wildfire	1	0	0	0	3	1	1996 to 2026-06-30	
Winter Weather	57	6	4	6	5	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Why listed
2019-05-25	Tornado	EF3, 2.2 mi within this county, 75 yd wide	\$400,000 property; \$0 crops (2019 dollars)	2, 29	EL RENO	deaths or injuries recorded
2015-12-27	Ice Storm		\$8,664,000 property; crops not reported (zone total, 2015 dollars)	0, 0	NWS zone OKZ024 (CANADIAN), zone-level	B1-c worst recorded: Ice Storm
2013-05-31	Tornado	EF3, 16.2 mi within this county, 4,576 yd wide	\$300,000 property; \$0 crops (2013 dollars)	8, 26	CALUMET to RICHLAND	deaths or injuries recorded
2011-05-24	Tornado	EF5, 39.6 mi within this county, 1,760 yd wide	damage not reported	7, 112	CALUMET to PIEDMONT	deaths or injuries recorded
2008-06-05	High Wind	65 kt (75 mph) estimated gust	\$5,000 property; \$0 crops (zone total, 2008 dollars)	0, 0	NWS zone OKZ024 (CANADIAN), zone-level	B1-c worst recorded: High Wind and Strong Wind
2007-08-19	Flash Flood		\$800,000 property; \$0 crops (2007 dollars)	0, 0	YUKON	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2007-01-12	Winter Storm		\$40,000 property; \$0 crops (zone total, 2007 dollars)	0, 0	NWS zone OKZ024 (CANADIAN), zone-level	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2006-07-16	Heat		damage not reported	0, 0	NWS zone OKZ024 (CANADIAN), zone-level	B1-c worst recorded: Excessive Heat, Heat
2005-12-01	Drought		damage not reported	0, 0	NWS zone OKZ024 (CANADIAN), zone-level	B1-c worst recorded: Drought
2001-05-27	Thunderstorm Wind	93 kt (107 mph) measured	\$25,000 property; crops not reported (2001 dollars)	0, 0	EL RENO	B1-c worst recorded: Thunderstorm Wind
1996-02-01	Cold/Wind Chill		damage not reported	0, 0	NWS zone OKZ024 (CANADIAN), zone-level	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1961-04-30	Hail	7 in	damage not recorded (pre-1996 record)	0, 0	location not recorded	B1-c worst recorded: Hail

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,563 rows).

Location is the place NOAA recorded, as written in its data; it need not be a jurisdiction in this plan.

Local data needed: state-declared emergencies, from your state emergency management agency (federal data do not include them).

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

Supports FEMA checklist item B1-e: probability of future events

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

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
Cold Wave	2	event-days per year	about 2 days per year	Likely	Storm Events event- days in 5 of 30 years, 1996 to 2025 (16.7%)	38	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	41.4	event-days per year	about 41.4 days per year	Likely	Storm Events event- days in 17 of 30 years, 1996 to 2025 (56.7%)	1,442	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00142	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.142%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	11.1	events per year	about 11.1 per year	Highly likely	FEMA annualized frequency (modeled)	423.2 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	16.8	event-days per year	about 16.8 days per year	Likely	Storm Events event- days in 6 of 30 years, 1996 to 2025 (20%)	265	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0104	events per year	about 1 in 96 years	Possible	FEMA annualized frequency (modeled)	4	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	1.4	event-days per year	about 1.4 days per year	Likely	Storm Events event- days in 10 of 30 years, 1996 to 2025 (33.3%)	95	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.36	event-days per year	about 1.36 days per year	Likely	Storm Events event- days in 20 of 30 years, 1996 to 2025 (66.7%)	38	1996 to 2023 (28 years)	see B1-f	
Landslide	0.193	events per year (modeled)	about 1 in 5 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	50.8	days per year with a strike	about 50.8 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	5.58	events per year	about 5.58 per year	Highly likely	FEMA annualized frequency (modeled)	213	1986 to 2023 (38 years)	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
Tornado	1	event per year	about 1 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.00208	annual probability at a location	chance a given location in the county burns in a year: 0.208%	Possible	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	
Winter Weather	9.58	event-days per year	about 9.58 days per year	Likely	Storm Events event-days in 26 of 30 years, 1996 to 2025 (86.7%)	182	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) is the National Risk Index v1.20 (December 2025) estimate of how often a hazard affects this county in a year; it is not recorded events divided by years, and its unit differs by hazard (events, event-days, or days with a lightning strike per year). For earthquake, wildfire, coastal flooding and tsunami the value is the chance (or number of events) at a location in the county, not across the county, so no "1 in N years" is given and the descriptor comes from Storm Events where it has a record (none for earthquake). The Methods page gives each hazard's method, from FEMA's National Risk Index Technical Documentation v1.20.

Where NRI gives event-days, the descriptor comes from the share of years with a Storm Events record; NRI's source records more events, so the two differ.

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

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	231	30	7.7
Hail	2.00 in+	1996 to 2025	64	30	2.13
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	180	30	6
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	27	30	0.9
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	30	30	1
Tornado	EF0-1	1996 to 2025	52	30	1.73
Tornado	EF2-3	1996 to 2025	8	30	0.267
Tornado	EF4-5	1996 to 2025	1	30	0.0333
Tornado	unrated (EFU)	1996 to 2025	1	30	0.0333

The bands show how often events of each severity were recorded in this county, to profile how severe events have been (FEMA's probability item asks for the range of intensities).

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.

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 (<https://resilience.climate.gov/>).

Supports FEMA checklist item B1-f: hazards that vary across jurisdictions

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Cold Wave	37 of 37	55.6	87.8	95.2	Relatively High 30, Relatively Moderate 7
Drought	29 of 37	68.8	78.7	98.0	Relatively High 1, Relatively Moderate 3, Relatively Low 10, Very Low 15, No Rating 8
Earthquake	37 of 37	17.3	34.4	64.5	Relatively Low 10, Very Low 27
Hail	37 of 37	81.0	93.5	98.3	Very High 1, Relatively High 31, Relatively Moderate 5
Heat Wave	37 of 37	45.9	86.2	93.6	Relatively High 22, Relatively Moderate 14, Relatively Low 1
Hurricane	37 of 37	18.6	25.8	46.3	Very Low 37
Ice Storm	37 of 37	91.1	97.5	99.6	Very High 18, Relatively High 19
Inland Flooding	37 of 37	3.6	39.4	88.5	Relatively High 3, Relatively Moderate 12, Relatively Low 17, Very Low 5
Landslide	37 of 37	11.9	42.1	96.6	Relatively Moderate 1, Relatively Low 2, Very Low 34
Lightning	37 of 37	7.5	18.7	34.1	Relatively Low 18, Very Low 19
Strong Wind	37 of 37	36.1	64.4	77.9	Relatively Moderate 26, Relatively Low 11

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	37 of 37	68.5	91.3	98.3	Very High 16, Relatively High 18, Relatively Moderate 3
Wildfire	37 of 37	27.1	82.1	94.5	Relatively Moderate 12, Relatively Low 17, Very Low 8
Winter Weather	37 of 37	63.0	84.5	93.0	Relatively High 25, Relatively Moderate 12

Drought: Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

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.

The score ranks a tract against all U.S. tracts (100 = highest). The rating is FEMA's category for the tract's risk value, computed differently, so the two can disagree.

Frequency data for cold wave, drought, hail, heat wave, ice storm, lightning, strong wind and winter weather are county-wide or coarse (49 km grid or NWS zone), the same for every jurisdiction; the tract range mostly reflects where buildings and people are (crop and livestock value where a line above names agriculture).

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Canadian County	County	Approved, expires 2026-11-16	FMA RL 3, SRL 3; any 7	\$4,275,960.36	0 total; 0 since its plan	
Calumet town	Town	Approved, expires 2026-11-16	FMA RL 0, SRL 0; any 0	\$326,428.61	85 total; 6 since its plan	
El Reno city	City	Approved, expires 2026-11-16	FMA RL 1, SRL 1; any 7	\$7,127,952.30	143 total; 23 since its plan	
Geary city	City	Approved, expires 2028-03-22	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Mustang city	City	Approved, expires 2026-11-16	FMA RL 0, SRL 1; any 1	\$6,804,182.77	113 total; 29 since its plan	
Oklahoma City city	City	Approved, expires 2027-12-29	FMA RL 7, SRL 23; any 149	no Public Assistance recorded	4 total; 0 since its plan	Whole community, including the part in Cleveland County and Oklahoma County; in-county portion (county table): FMA RL 1, FMA SRL 1, NFIP RL 5, NFIP SRL 1, any category 5.
Piedmont city	City	Approved, expires 2026-11-16	FMA RL 0, SRL 0; any 0	\$1,576,422	128 total; 7 since its plan	
Union City town	Town	Approved, expires 2026-11-16	FMA RL 0, SRL 0; any 0	\$45,798.46	68 total; 13 since its plan	
Yukon city	City	Approved, expires 2029-09-11	FMA RL 0, SRL 0; any 6	\$3,154,799.77	200 total; 25 since its plan	

Repetitive-loss counts are for whole NFIP communities, which can extend beyond this county (see the note in B2-c).

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

County Public Assistance in B1-d also includes applicants filed under the county that are not jurisdictions in this plan (for example state agencies, special districts and nonprofits), so the jurisdiction rows add up to less.

Supports FEMA checklist items B2-a and B2-b: vulnerability and potential impacts

Local data needed

The table below gives county-level starting figures; the plan describes impacts for each jurisdiction and its own assets.

- Critical facilities and lifelines per hazard
- A problem statement per jurisdiction 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

Sources: 1, 2, 3, 5, 6, 7

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>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2021-11-17 <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 <i>nominal dollars</i>
Cold Wave	\$25,341,826,377	\$174,782,906	153,947	\$35,496	\$272,070	\$11,084,367	0.00014%		\$0	
Drought	n/a	\$28,364,623	n/a	n/a	\$769,762	n/a	2.71% (agriculture)		\$0	
Earthquake	\$41,959,513,448	n/a	154,405	\$621,325	n/a	\$113,141	0.00148%			
Hail	\$25,341,826,377	\$174,782,906	153,947	\$5,374,136	\$419	\$377,015	0.0212%	\$0		
Heat Wave	\$25,341,826,377	\$174,782,906	153,947	\$488	\$799	\$6,231,187	under 0.0001%			
Hurricane	\$25,336,632,803	\$174,383,071	153,882	\$10,044	\$10,475	\$201	under 0.0001%			
Ice Storm	\$25,338,415,055	n/a	153,930	\$4,587,067	n/a	\$175,458	0.0181%			

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>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2021-11-17 <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 <i>nominal dollars</i>
Inland Flooding	\$25,331,444,949	\$52,132,317	3,242	\$22,963,924	\$820,791	\$292,970	n/a (see note)	\$10,000		
Landslide	\$75,159,019	n/a	440	\$229	n/a	\$3,825	0.000305%			
Lightning	\$25,341,826,377	n/a	153,947	\$66,807	n/a	\$70,505	0.000264%	\$452,000		
Strong Wind	\$25,341,826,377	\$174,782,906	153,947	\$130,819	\$724	\$1,036,720	0.000516%	\$215,000	\$0	
Tornado	\$25,341,826,377	\$174,782,906	153,947	\$3,597,401	\$11,368	\$13,797,655	0.0142%	\$1,065,000		
Wildfire	\$3,890,109,890	\$72,898,895	36,197	\$728,229	\$1,474	\$187,308	0.0187%			1 declaration not yet in FEMA's PA summaries (they cover declarations through 2026-06-30).
Winter Weather	\$25,341,826,377	\$174,782,906	153,947	\$83,427	\$1,996	\$404,027	0.000329%		\$0	

Totals since 2021-11-17 (Storm Events through 2026-06-30): 133 county-coded records, 36 with a damage value recorded (including \$0), \$1,742,000; 111 zone-level records, 14 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: the 1 counted declaration is not yet in FEMA's PA summaries (they cover declarations through 2026-06-30).

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 does not add up to the total; the unit total counts each declaration once.

NRI computes earthquake exposure on its own basis, so it exceeds the county building value in B2-a.

Supports FEMA checklist item B2-a: vulnerability (county context)

County context

Source: 5

Measure	Value
Population	153,947
Building value (total, not at risk)	\$25,341,826,377
Agriculture value (total, not at risk)	\$174,782,906
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$40,089,273
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)	\$33,774,379
Social vulnerability rating	Very Low
Community resilience rating	Relatively High
NRI version	December 2025

FEMA's all-hazard expected annual loss adds buildings, agriculture and population equivalence; this table gives the property part and the population-equivalence part as separate rows.

Social vulnerability: higher means people are more likely to be harmed and slower to recover. Community resilience: lower means the community is less able to recover. High social vulnerability and low resilience both raise the NRI risk rating.

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	5	Severe repetitive loss, FMA definition (44 CFR 77.2)	6
Repetitive loss, NFIP insurance definition	25	Severe repetitive loss, NFIP insurance definition	5

The state NFIP coordinator's list, the source FEMA's Handbook names, often uses the NFIP insurance definition (second row).

Repeat-flood properties: county total and NFIP communities

Sources: 1, 4

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	5	6	25	5	26	0	5
of which: Yukon city	0	0	6	0	6	0	0
of which: Mustang city	0	1	1	1	1	0	0
of which: Canadian County (unincorporated area)	3	3	7	3	7	0	2
of which: El Reno city	1	1	6	0	7	0	2
of which: Oklahoma City city	1	1	5	1	5	0	1

Repeat-flood properties by jurisdiction in the plan (NFIP community)

Sources: 1, 4

Jurisdiction	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
Canadian County	400485	3	3	7	3	7	0	2	
Calumet town	400268	0	0	0	0	0	0	0	
El Reno city	405377	1	1	6	0	7	0	2	
Geary city	400381	0	0	0	0	0	0	0	
Mustang city	400409	0	1	1	1	1	0	0	
Oklahoma City city	405378	7	23	144	19	149	0	22	Whole community, including the part in Cleveland County and Oklahoma County; in-county portion (county table): FMA RL 1, FMA SRL 1, NFIP RL 5, NFIP SRL 1, any category 5.
Piedmont city	400027	0	0	0	0	0	0	0	
Union City town	400334	0	0	0	0	0	0	0	
Yukon city	400028	0	0	6	0	6	0	0	

Counts by occupancy group for each jurisdiction are in the Excel file, sheet "B2-c Jurisdictions".

Jurisdiction 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 jurisdiction row, while the county table counts only its part in this county.

County repeat-flood properties by occupancy group

Sources: 1, 4

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	5	6	25	5	26	0	5
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

FEMA's occupancy groups have no institutional class; institutional properties are counted in non-residential or other residential in the table by occupancy group.

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. NFIP repetitive loss (the FEMA insurance definition) is 2 or more claims over \$1,000 in 10 years, and a property can leave that group once it is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured. The Methods page gives the OpenFEMA field details.

Counts are aggregates of FEMA's public NFIP Multiple Loss Properties file (FEMA's data date 2026-08-02; file version 2026-08-04). No property is identified. County assignment is FEMA's geocode.

In this county 1 property is FMA repetitive loss but not NFIP repetitive loss, and 21 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

Tables cite these sources by number. The full list, for the plan's bibliography (FEMA review item A4-a):

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <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 2026-09-30, 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 2026-09-30, <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 2026-09-30, <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 2026-09-30, 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 (used to match place names and codes; no table prints its values)

What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment (the summary on page 1 says how it is organized); the plan and FEMA's review decide whether each item is met.

The plan adds what only the community has: local data on assets, critical facilities, development and each jurisdiction's impacts; local hazard history, including state-declared emergencies; the mitigation strategy; and adoption.

How the federal data are built: National Risk Index values are FEMA's model, not counts of events. Storm Events is more complete from 1996; zone-level records are placed by forecast zone, not by location in the county. Public Assistance for a jurisdiction is matched by applicant name. The Methods page gives every rule and the known edge cases.

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).

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Canadian County, OK: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 40017). Automated baseline. <https://hazardplain.org/ok/40017/> 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: contact@hazardplain.org