

Kay County, OK

Risk-assessment baseline packet

County FIPS: 40071 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: No approved plan on record. Approvable pending adoption, not yet eligible.

Update: FEMA tracker shows a plan approvable pending adoption.

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$10,443,740 a year), Cold Wave (\$8,051,457) and Tornado (\$7,799,098).

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; 40071 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.

CONTENTS

1. Summary and terms used, page 1
2. Plan clock, page 2
3. What changed since your last plan, page 2
4. B1-a: hazard identification, page 4
5. B1-b: hazard location, page 6
6. B1-c: hazard extent, page 6
7. B1-d: previous occurrences, page 8
8. B1-e: probability of future events, page 13
9. B1-f: hazards that vary across jurisdictions, page 15
10. B2-a and B2-b: vulnerability and potential impacts, page 18
11. B2-a: vulnerability (county context), page 19
12. B2-c: repetitive loss properties, page 20
13. Sources, what the plan adds, disclaimer and citation, page 21

Plan clock

Status:	No approved plan on record. Approvable pending adoption, not yet eligible	Plan:	none
Approved:	none	Expires:	none
Update underway:	FEMA tracker shows a plan approvable pending adoption		

Not yet eligible: adopt the approved plan.
Not yet eligible: adopt the approved plan.

What changed since your last plan

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

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

Plan status for every jurisdiction listed in this county: 17 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 <i>negative = days since expiry</i>	Update underway	Notes
Kay County	County	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Blackwell city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Braman town	Town	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Kaw City city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Kildare town	Town	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Newkirk city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Ponca City city	City	Approved, expires 2027-08-24	Ponca City (FEMA plan 107418)	2022-08-25	2027-08-24	328	FEMA tracker shows a plan awaiting revisions	
Tonkawa city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Blackwell Public Schools	School/School District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Deer Creek-Lamont Schools	School/School District	Plan 106488 approved 2023-03-21, pending adoption here; not yet eligible	Grant County (FEMA plan 106488), pending adoption here	2023-03-21 by FEMA; not yet adopted here	2028-03-20 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Frontier Public Schools	School/School District	Approved, expires 2029-09-24	Noble County (FEMA plan 108454)	2024-09-25	2029-09-24	1,090		this jurisdiction approved 2024-10-10
Kildare Public School	School/School District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Newkirk Public Schools	School/School District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		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>		
Ponca City Public Schools	School/School District	Approved, expires 2027-08-24	Ponca City (FEMA plan 107418)	2022-08-25	2027-08-24	328	FEMA tracker shows a plan awaiting revisions	
Shidler Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Tonkawa Public Schools	School/School District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Pioneer Vocational Tech Center	College/ University	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

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	EAL agriculture	Cost of expected deaths and injuries	EAL total (see note)	Storm Events records, 1996 to 2026-06-30	Storm Events coverage note
				<i>modeled dollars per year</i>	<i>modeled dollars per year</i>	<i>FEMA's dollar value per year; not property damage</i>	<i>modeled dollars per year</i>	<i>count</i>	
1	Inland Flooding	Relatively Low	Relatively Low	\$7,158,509	\$873,217	\$2,412,014	\$10,443,740	92	
2	Cold Wave	Relatively High	Relatively High	\$148	\$237,337	\$7,813,972	\$8,051,457	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).
3	Tornado	Relatively High	Relatively Moderate	\$2,275,009	\$5,662	\$5,518,426	\$7,799,098	32	
4	Hail	Relatively Moderate	Relatively Moderate	\$1,407,339	\$252,573	\$107,643	\$1,767,555	366	
5	Heat Wave	Relatively Moderate	Relatively Low	\$760	\$559	\$1,305,641	\$1,306,961	79	

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
6	Ice Storm	Relatively High	Relatively High	\$1,111,287	n/a	\$29,663	\$1,140,950	9	
7	Drought	Relatively Moderate	Relatively Moderate	n/a	\$937,847	n/a	\$937,847	110	
8	Wildfire	Relatively Low	Relatively Low	\$768,117	\$737	\$114,046	\$882,900	1	
9	Strong Wind	Relatively Moderate	Relatively Moderate	\$295,180	\$2,103	\$347,514	\$644,797	395	Includes 20 High Wind and 2 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
10	Lightning	Relatively Moderate	Relatively Low	\$13,653	n/a	\$244,643	\$258,296	12	
11	Earthquake	Very Low	Very Low	\$169,690	n/a	\$78,108	\$247,798		Storm Events does not record earthquakes.
12	Winter Weather	Relatively Moderate	Relatively Moderate	\$45,163	\$1,205	\$90,185	\$136,553	66	
13	Hurricane	Very Low	Very Low	\$4,571	\$2,594	\$39	\$7,203	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$63	n/a	\$1,072	\$1,135	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, tsunami 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

Sources: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 3 (Relatively Low, 56.3); tract 11 (Relatively Low, 55.9); tract 1 (Relatively Low, 55.3)
Hurricane	tract 13.02 (Very Low, 37.5); tract 12 (Very Low, 36.0); tract 6 (Very Low, 36.0)
Landslide	tract 12 (Relatively Low, 91.8); tract 6 (Relatively Low, 88.3); tract 13.02 (Very Low, 80.1)
Tornado	tract 1 (Very High, 99.8); tract 2.02 (Very High, 99.5); tract 12 (Very High, 99.4)
Wildfire	tract 6 (Relatively High, 98.3); tract 12 (Relatively High, 97.6); tract 3 (Relatively Moderate, 92.0)

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 3 is Census Tract 3). 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, 2024-01-12 to 2024-01-16, 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)	110 records, 2000 to 2026 (110 zone-level)	12 days to 501 days (median 101 days); 15 with a recorded value	501 days (about 16.5 months), 2022-07-16 to 2023-11-28, a run of 29 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.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Hail	hail size (inches)	568 records, 1955 to 2026	0.75 in to 4.5 in (median 1 in); 568 with a recorded value	4.5 in hail, 1996-04-27; same size also recorded on 1996-04-21, 1996-04-27	Hail, 1997-06-16, \$25,000 property; crops not reported (1997 dollars)	Event records naming jurisdictions in the plan: Ponca City city (78 records), Blackwell city (75 records), Braman town (57 records), Tonkawa city (51 records), Newkirk city (46 records), Kildare town (25 records), Kaw City city (13 records).	
Excessive Heat, Heat	heat index (in event narratives)	79 records, 1999 to 2026 (79 zone-level)	1 day to 29 days (median 3 days); 27 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)	9 records, 1998 to 2020 (9 zone-level)		Ice Storm, 2002-01-30, \$25,000,000 property; crops not reported (2002 dollars); NWS zone OKZ008		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	92 records, 1996 to 2026 (11 zone-level)		Flood, 2002-10-04, \$25,000 property; crops not reported (2002 dollars); NWS zone OKZ008		Event records naming jurisdictions in the plan: Ponca City city (28 records), Blackwell city (11 records), Tonkawa city (9 records), Braman town (7 records), Newkirk city (7 records), Kildare town (6 records). Zone-level records (11) 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)	12 records, 1996 to 2008		Lightning, 2002-06-12, \$50,000 property; crops not reported (2002 dollars)		Event records naming jurisdictions in the plan: Ponca City city (7 records), Blackwell city (5 records).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	22 records, 1996 to 2025 (22 zone-level)	36 kt (41 mph) to 62 kt (71 mph) (median 50 kt (58 mph)); 18 with a recorded value	62 kt (71 mph) measured gust, High Wind, 2024-05-02; NWS zone OKZ008	High Wind, 2001-04-11, \$75,000 property; crops not reported (zone total, 2001 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	525 records, 1956 to 2026	50 kt (58 mph) to 99 kt (114 mph) (median 55 kt (63 mph)); 419 with a recorded value	99 kt (114 mph), measurement type not recorded, Thunderstorm Wind, 1998-06-13	Thunderstorm Wind, 1993-05-08, \$5,000,000 property; crops not recorded (1993 dollars)	Event records naming jurisdictions in the plan: Blackwell city (91 records), Newkirk city (66 records), Ponca City city (61 records), Braman town (45 records), Tonkawa city (25 records), Kaw City city (17 records), Kildare town (9 records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Tornado	Enhanced Fujita (Fujita before Feb 2007)	102 records, 1950 to 2026	F/EF0 to F/EF5 (median F/EF1); 97 with a recorded value	F5 tornado, 1955-05-25, 19.6 mi path length (whole path, pre-1996), 500 yd wide, \$25,000,000 property; crops not recorded (1955 dollars), 20 direct deaths, 280 direct injuries		Event records naming jurisdictions in the plan: Braman town (8 records), Tonkawa city (6 records), Newkirk city (5 records), Ponca City city (4 records), Blackwell city (3 records), Kaw City city (3 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).
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)	66 records, 1996 to 2026 (66 zone-level)		Winter Storm, 2000-12-26, \$100,000 property; crops not reported (2000 dollars); NWS zone OKZ008		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: 36 declarations covering 30 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

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

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
2024-04-30	2024-04-25	DR-4776-OK	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, and Flooding	Tornado (primary); also designated: Inland Flooding, Strong Wind	\$386,623.62	within last 5 years	
2021-02-24	2021-02-08	DR-4587-OK	Major disaster	Severe Winter Storms	Ice Storm	\$3,481.29		
2021-02-17	2021-02-08	EM-3555-OK	Emergency	Severe Winter Storm	Ice Storm	no Public Assistance recorded		same incident as DR-4587
2020-12-21	2020-10-26	DR-4575-OK	Major disaster	Severe Winter Storm	Ice Storm	\$1,295,611.10		
2020-04-05	2020-01-20	DR-4530-OK	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$79,224.78		
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	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2019-07-12	2019-04-30	DR-4453-OK	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	\$25,024.18		
2019-06-01	2019-05-07	DR-4438-OK	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, and Flooding	Inland Flooding; Strong Wind; Tornado	\$3,193,948.29		
2019-05-25	2019-05-07	EM-3411-OK	Emergency	Flooding	Inland Flooding	no Public Assistance recorded		same incident as DR-4438
2016-02-10	2015-12-26	DR-4256-OK	Major disaster	Severe Winter Storms and Flooding	Inland Flooding; Winter Weather	\$752,018.52		
2015-05-26	2015-05-05	DR-4222-OK	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	\$749,110.28		
2013-04-08	2013-02-24	DR-4109-OK	Major disaster	Severe Winter Storm and Snowstorm	Winter Weather	\$1,456,411.95		
2012-06-14	2012-04-28	DR-4064-OK	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	\$1,856,168.30		
2011-02-02	2011-01-31	EM-3316-OK	Emergency	Severe Winter Storm	Winter Weather	no Public Assistance recorded		
2010-02-25	2009-12-24	DR-1876-OK	Major disaster	Severe Winter Storm	Winter Weather	\$123,012.22		
2010-01-30	2010-01-28	EM-3308-OK	Emergency	Severe Winter Storm	Winter Weather	no Public Assistance recorded		
2008-10-09	2008-09-12	DR-1803-OK	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$1,785,977.87		
2008-07-09	2008-06-03	DR-1775-OK	Major disaster	Severe Storms and Flooding	Inland Flooding	\$221,749.79		
2007-12-10	2007-12-08	EM-3280-OK	Emergency	Severe Winter Storms	Ice Storm	no Public Assistance recorded		
2007-07-07	2007-06-10	DR-1712-OK	Major disaster	Severe Storms, Flooding, and Tornadoes	Inland Flooding; Tornado	\$1,454,174.95		
2007-06-07	2007-05-04	DR-1707-OK	Major disaster	Severe Storms, Tornadoes and Flooding	Inland Flooding; Tornado	\$427,880.55		
2007-02-01	2007-01-12	DR-1678-OK	Major disaster	Severe Winter Storms	Winter Weather	\$223,593.67		
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
2006-04-06	2006-04-06	FM-2633-OK	Fire management	Ponca City Fire	Wildfire	no Public Assistance recorded		
2006-01-10	2005-11-27	DR-1623-OK	Major disaster	Extreme Wildfire Threat	Wildfire	\$12,771.49		
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		
2002-02-01	2002-01-30	DR-1401-OK	Major disaster	Severe Winter Ice Storm	Ice Storm	\$31,765,503.24		
2001-01-05	2000-12-25	DR-1355-OK	Major disaster	Severe Winter Ice Storm	Ice Storm	\$1,616,978.11		
1995-09-01	1995-07-21	DR-1066-OK	Major disaster	Severe Storms and Flooding	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		
1974-03-22	1974-03-22	DR-419-OK	Major disaster	Heavy Rains & Flooding	Inland Flooding	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1973-12-10	1973-12-10	DR-409-OK	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1973-10-13	1973-10-13	DR-404-OK	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		

School districts and special districts in this county: \$27,038.09 (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, \$262,763.31

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-1917-OK	2010-05-24	Severe Storms, Tornadoes, and Straight-Line Winds	Kay Electric Cooperative	\$262,763.31

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	0		1996 to 2026-06-30	Includes 1 Frost/Freeze record.
Drought	110			40	0		1996 to 2026-06-30	
Earthquake	0			0	0			Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	568			85	0		1955 to 2026-06-30	
Heat Wave	79			75	0		1996 to 2026-06-30	
Hurricane	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	9			0	6		1996 to 2026-06-30	
Inland Flooding	92			8	17		1996 to 2026-06-30	
Landslide	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	12			0	0		1996 to 2026-06-30	
Strong Wind	547			60	5		1955 to 2026-06-30	Includes 20 High Wind and 2 Strong Wind records.
Tornado	102			12	10		1950 to 2026-06-30	
Wildfire	1			0	2		1996 to 2026-06-30	
Winter Weather	66			4	6		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	Flags	Why listed
2024-05-02	High Wind	62 kt (71 mph) measured gust	damage not reported	0, 0	NWS zone OKZ008 (KAY), zone-level	within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2024-01-12	Cold/Wind Chill		damage not reported	0, 0	NWS zone OKZ008 (KAY), zone-level	within last 5 years	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2022-07-16	Drought		\$0 property; \$0 crops (zone total, 2022 dollars)	0, 0	NWS zone OKZ008 (KAY), zone-level	within last 5 years	B1-c worst recorded: Drought
2006-07-16	Heat		damage not reported	0, 0	NWS zone OKZ008 (KAY), zone-level		B1-c worst recorded: Excessive Heat, Heat
2002-10-04	Flood		\$25,000 property; crops not reported (zone total, 2002 dollars)	0, 0	NWS zone OKZ008 (KAY), zone-level		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2002-06-12	Lightning		\$50,000 property; crops not reported (2002 dollars)	0, 0	PONCA CITY		B1-c worst recorded: Lightning
2002-01-30	Ice Storm		\$25,000,000 property; crops not reported (zone total, 2002 dollars)	0, 0	NWS zone OKZ008 (KAY), zone-level		B1-c worst recorded: Ice Storm
1999-07-30	Heat		damage not reported	3, 0	NWS zone OKZ008 (KAY), zone-level		deaths or injuries recorded
1998-06-13	Thunderstorm Wind	99 kt (114 mph), measurement type not recorded	damage not reported	0, 0	PONCA CITY		B1-c worst recorded: Thunderstorm Wind
1997-04-11	Flood		damage not reported	1, 1	NWS zone OKZ008 (KAY), zone-level		deaths or injuries recorded
1996-04-27	Hail	4.5 in	damage not reported	0, 0	PECKHAM		B1-c worst recorded: Hail
1955-05-25	Tornado	F5, 19.6 mi path length (whole path, pre-1996), 500 yd wide	\$25,000,000 property; crops not recorded (1955 dollars)	20, 280	location not recorded		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,600 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	2.68	event-days per year	about 2.68 days per year	Likely	Storm Events event- days in 5 of 30 years, 1996 to 2025 (16.7%)	51	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	59.2	event-days per year	about 59.2 days per year	Likely	Storm Events event- days in 17 of 30 years, 1996 to 2025 (56.7%)	1,848	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00101	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.101%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	9.6	events per year	about 9.6 per year	Highly likely	FEMA annualized frequency (modeled)	364.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	17.3	event-days per year	about 17.3 days per year	Likely	Storm Events event- days in 6 of 30 years, 1996 to 2025 (20%)	266	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.00583	events per year	about 1 in 171 years	Unlikely	FEMA annualized frequency (modeled)	2	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	0.786	event-days per year	about 0.786 days per year	Likely	Storm Events event- days in 7 of 30 years, 1996 to 2025 (23.3%)	53	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	2.11	event-days per year	about 2.11 days per year	Likely	Storm Events event- days in 19 of 30 years, 1996 to 2025 (63.3%)	59	1996 to 2023 (28 years)	see B1-f	
Landslide	0.143	events per year (modeled)	about 1 in 7 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	51.2	days per year with a strike	about 51.2 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	6.66	events per year	about 6.66 per year	Highly likely	FEMA annualized frequency (modeled)	254	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	0.906	events per year	about 0.91 per year	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.00349	annual probability at a location	chance a given location in the county burns in a year: 0.349%	Possible	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	
Winter Weather	8.89	event-days per year	about 8.89 days per year	Likely	Storm Events event-days in 24 of 30 years, 1996 to 2025 (80%)	169	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	208	30	6.93
Hail	2.00 in+	1996 to 2025	29	30	0.967
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	288	30	9.6
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	31	30	1.03
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	36	30	1.2
Tornado	EF0-1	1996 to 2025	24	30	0.8
Tornado	EF2-3	1996 to 2025	1	30	0.0333
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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	11 of 11	93.9	98.6	99.6	Very High 10, Relatively High 1
Drought	9 of 11	74.6	94.3	98.3	Relatively High 2, Relatively Moderate 3, Relatively Low 1, Very Low 3, No Rating 2
Earthquake	11 of 11	28.3	45.9	56.3	Relatively Low 9, Very Low 2
Hail	11 of 11	88.5	96.4	98.0	Relatively High 10, Relatively Moderate 1
Heat Wave	11 of 11	70.2	85.5	93.4	Relatively High 6, Relatively Moderate 5
Hurricane	11 of 11	27.0	30.5	37.5	Very Low 11
Ice Storm	11 of 11	95.5	98.0	99.1	Very High 6, Relatively High 5
Inland Flooding	11 of 11	22.2	78.9	97.6	Very High 1, Relatively High 5, Relatively Moderate 3, Relatively Low 2
Landslide	11 of 11	19.2	54.2	91.8	Relatively Low 2, Very Low 9
Lightning	11 of 11	57.2	77.1	91.5	Relatively High 5, Relatively Moderate 6
Strong Wind	11 of 11	75.5	85.2	93.7	Relatively High 7, Relatively Moderate 4

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	11 of 11	95.8	98.9	99.8	Very High 11
Wildfire	11 of 11	34.2	81.3	98.3	Relatively High 2, Relatively Moderate 1, Relatively Low 6, Very Low 2
Winter Weather	11 of 11	78.7	88.6	95.0	Relatively High 11

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
Kay County	County	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 1, SRL 0; any 8	\$9,515,963	0 total; no approved plan	
Blackwell city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 4; any 15	\$2,052,111.74	185 total; no approved plan	
Braman town	Town	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 0	\$123,661.89	117 total; no approved plan	
Kaw City city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 0	\$26,772	33 total; no approved plan	
Kildare town	Town	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	40 total; no approved plan	
Newkirk city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 1, SRL 1; any 1	\$270,995.07	124 total; no approved plan	
Ponca City city	City	Approved, expires 2027-08-24	FMA RL 0, SRL 2; any 10	\$3,084,794.71	178 total; 16 since its plan	Includes \$79,224.78 for declarations not counted as hazard incidents (DR-4530-OK).
Tonkawa city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 1	\$493,438.83	91 total; no approved 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.

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

- 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 plan <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Cold Wave	\$8,232,184,739	\$113,604,443	43,578	\$148	\$237,337	\$7,813,972	under 0.0001%				
Drought	n/a	\$50,948,099	n/a	n/a	\$937,847	n/a	1.84% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$14,609,472,286	n/a	43,700	\$169,690	n/a	\$78,108	0.00116%				
Hail	\$8,232,184,739	\$113,604,443	43,578	\$1,407,339	\$252,573	\$107,643	0.0171%				
Heat Wave	\$8,232,184,739	\$113,604,443	43,578	\$760	\$559	\$1,305,641	under 0.0001%				
Hurricane	\$8,228,511,409	\$111,195,625	43,572	\$4,571	\$2,594	\$39	under 0.0001%				
Ice Storm	\$8,232,038,275	n/a	43,577	\$1,111,287	n/a	\$29,663	0.0135%				
Inland Flooding	\$8,230,957,376	\$30,546,625	2,075	\$7,158,509	\$873,217	\$2,412,014	n/a (see note)				NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$28,009,754	n/a	115	\$63	n/a	\$1,072	0.000226%				
Lightning	\$8,232,184,739	n/a	43,578	\$13,653	n/a	\$244,643	0.000166%				
Strong Wind	\$8,232,184,739	\$113,604,443	43,578	\$295,180	\$2,103	\$347,514	0.00359%				
Tornado	\$8,232,184,739	\$113,604,443	43,578	\$2,275,009	\$5,662	\$5,518,426	0.0276%				

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 plan <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Wildfire	\$1,306,110,354	\$28,045,709	8,157	\$768,117	\$737	\$114,046	0.0588%				
Winter Weather	\$8,232,184,739	\$113,604,443	43,578	\$45,163	\$1,205	\$90,185	0.000549%				

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

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	43,578
Building value (total, not at risk)	\$8,232,184,739
Agriculture value (total, not at risk)	\$113,604,443
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$15,563,323
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)	\$18,062,966
Social vulnerability rating	Relatively High
Community resilience rating	Relatively Moderate
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)	2	Severe repetitive loss, FMA definition (44 CFR 77.2)	7
Repetitive loss, NFIP insurance definition	34	Severe repetitive loss, NFIP insurance definition	6

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	2	7	34	6	35	1	3
of which: Blackwell city	0	4	15	4	15	0	0
of which: Tonkawa city	0	0	1	0	1	0	0
of which: Ponca City city	0	2	9	1	10	1	1
of which: Newkirk city	1	1	1	1	1	0	0
of which: Kay County (unincorporated area)	1	0	8	0	8	0	2

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>
Kay County	400477	1	0	8	0	8	0	2
Blackwell city	400078	0	4	15	4	15	0	0
Braman town	400264	0	0	0	0	0	0	0
Kaw City city	400291	0	0	0	0	0	0	0
Kildare town	400201	0	0	0	0	0	0	0
Newkirk city	400422	1	1	1	1	1	0	0
Ponca City city	400080	0	2	9	1	10	1	1
Tonkawa city	400079	0	0	1	0	1	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	2	7	34	6	35	1	3
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 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 32 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

Reuse and citation: Hazard Plain text and tables are licensed under Creative Commons Attribution 4.0 International (CC BY 4.0, <https://creativecommons.org/licenses/by/4.0/>); credit Hazard Plain and the release. The underlying federal data are public domain; OpenFEMA data are also subject to the OpenFEMA terms and conditions.

Cite this: Hazard Plain (2026). Kay County, OK: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 40071). Automated baseline. <https://hazardplain.org/ok/40071/> 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