

Butler County, KS

Risk-assessment baseline packet

County FIPS: 20015 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 2029-08-21. Plan: Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), approved 2024-08-22.

Since the plan was approved on 2024-08-22: 2 new hazard declarations (2 incidents) and 88 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 (\$15,278,753 a year), Tornado (\$9,332,723) and Wildfire (\$5,483,961).

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; 20015 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 2029-08-21	Plan:	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)
Approved:	2024-08-22	Days to expiry:	1,056
What changed since your last plan (approved 2024-08-22)			
New federal declarations:	2 new hazard declarations (2 incidents): DR-4891-KS (Severe Storms, Straight-Line Winds, Tornadoes, and Flooding), DR-4943-KS (Severe Storms, Straight-Line Winds, Tornadoes, and Flooding)	Storm Events records since approval:	88 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 9, SRL 15 (44 CFR 77.2); any definition: 35	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: 66 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
Butler County	County	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-08-31
Andover city	City	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-15
Augusta city	City	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-15
Benton city	City	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-15
Cassoday city	City	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-15
El Dorado city	City	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-08-31
Elbing city	City	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Latham city	City	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-08-30
Leon city	City	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-12
Potwin city	City	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-15
Rose Hill city	City	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-07
Towanda city	City	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Whitewater city	City	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2025-01-12
Augusta township	Township	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-07
Benton township	Township	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-19
Bloomington township	Township	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-02
Chelsea township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Clay township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Clifford township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
El Dorado township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Fairmount township	Township	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-08-30
Fairview township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Glencoe township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Hickory township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lincoln township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Little Walnut township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Logan township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Milton township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Murdock township	Township	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-26
Plum Grove township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Prospect township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Richland township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Rock Creek township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Rosalia township	Township	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-07
Spring township	Township	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-09
Sycamore township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Towanda township	Township	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2025-03-19
Union township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Walnut township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Andover Unified School District 385	School/School District	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-12
Augusta Unified School District 402	School/School District	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-07
Bluestem Unified School District 205	School/School District	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-18
Central Unified School District 462	School/School District	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Circle Unified School District 375	School/School District	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-09
Douglass Public Schools Unified School District 396	School/School District	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-08-30
El Dorado Unified School District 490	School/School District	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-08-30

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Flinthills Unified School District 492	School/School District	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-08-30
Remington-Whitewater Unified School District 206	School/School District	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Rose Hill Public Schools Unified School District 394	School/School District	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Butler Co. Community College	College/University	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-07
Butler Co. Rural Electric	Electric/Power Authority	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2025-01-31
Butler County FD #10	Fire/EMS District	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-07
Butler County FD #3	Fire/EMS District	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Butler County FD #4	Fire/EMS District	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Butler County FD #5	Fire/EMS District	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Butler County FD #6	Fire/EMS District	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2025-01-17
Butler County FD #7	Fire/EMS District	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2025-01-24
Butler County FD #8	Fire/EMS District	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Butler County FD #9	Fire/EMS District	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992), pending adoption here	2024-08-22 by FEMA; not yet adopted here	2029-08-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Butler County RWD #3	Water/Sewer Authority	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-09-17
Butler County RWD #5	Water/Sewer Authority	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-08-21
Butler County Watershed Dist #22	Water/Sewer Authority	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-05
Butler County Watershed Dist #33	Water/Sewer Authority	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-05
St. James School	School/School District	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-05
Susan B Allen Hospital	Hospital/Medical Facility	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-05
Whitewater River CFD	Fire/EMS District	Approved, expires 2029-08-21	Region G Multi-Jurisdictional HM Plan (FEMA plan 109992)	2024-08-22	2029-08-21	1,056		this jurisdiction approved 2024-12-26

Plan 109992 lists 287 other participants not on this page, 191 of them not covered by it yet (named in the Excel file).

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 Low	Relatively Low	\$13,741,686	\$1,179	\$1,535,889	\$15,278,753	142	
2	Tornado	Relatively Moderate	Relatively High	\$2,500,887	\$22,814	\$6,809,022	\$9,332,723	40	
3	Wildfire	Relatively Moderate	Relatively Moderate	\$5,248,843	\$2,244	\$232,874	\$5,483,961	2	
4	Cold Wave	Relatively Moderate	Relatively Moderate	\$119	\$1,606	\$3,347,515	\$3,349,240	2	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).
5	Heat Wave	Relatively Moderate	Relatively Moderate	\$16,593	\$18	\$2,444,502	\$2,461,114	14	
6	Hail	Relatively Moderate	Relatively Moderate	\$1,022,094	\$985,502	\$48,692	\$2,056,288	742	
7	Strong Wind	Relatively High	Relatively High	\$1,530,435	\$4,892	\$499,846	\$2,035,173	595	Includes 21 High Wind and 1 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
8	Ice Storm	Relatively High	Relatively High	\$533,620	n/a	\$142,607	\$676,227	4	
9	Winter Weather	Relatively High	Relatively High	\$175,280	\$358	\$485,799	\$661,437	62	Includes 1 Sleet record (outside NRI's Winter Weather definition).
10	Lightning	Relatively Moderate	Relatively Moderate	\$30,511	n/a	\$496,422	\$526,932	3	
11	Drought	Relatively Low	Relatively Low	n/a	\$269,848	n/a	\$269,848	49	

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	Earthquake	Very Low	Very Low	\$127,091	n/a	\$39,493	\$166,584		Storm Events does not record earthquakes.
13	Hurricane	Very Low	Very Low	\$7,799	\$9,825	\$31	\$17,655	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$127	n/a	\$666	\$793	0	Declared 1 time; no Storm Events record of this type.

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

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 204 (Relatively Low, 52.0); tract 202.05 (Relatively Low, 46.9); tract 207 (Very Low, 31.7)
Hurricane	tract 201.01 (Very Low, 46.3); tract 201.02 (Very Low, 43.0); tract 206.02 (Very Low, 37.4)
Landslide	tract 201.01 (Relatively Low, 84.2); tract 201.02 (Relatively Low, 84.1); tract 202.05 (Relatively Low, 83.6)
Tornado	tract 202.05 (Very High, 98.7); tract 205 (Very High, 98.3); tract 202.06 (Very High, 97.6)
Wildfire	tract 209.01 (Relatively High, 98.9); tract 202.09 (Relatively High, 98.1); tract 202.10 (Relatively High, 97.9)

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 204 is Census Tract 204). 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	1 record, 2021 (1 zone-level)	13 days; 1 with a recorded value	13 consecutive days, 2021-02-06 to 2021-02-18, zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	1 record, 2007 (1 zone-level)		No crop damage reported in 1 record.		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	49 records, 2011 to 2023 (49 zone-level)	15 days to 518 days (median 198 days); 6 with a recorded value	518 days (17 months), 2022-08-01 to 2023-12-31, a run of 17 consecutive Storm Events drought records, zone-level	Drought, 2011-07-01, property not reported; \$4,000,000 crops (zone total, 2011 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)	895 records, 1956 to 2026	0.75 in to 6 in (median 1 in); 895 with a recorded value	6 in hail, 1959-05-17	Hail, 1993-03-28, \$5,000,000 property; \$5,000 crops (1993 dollars)	Event records naming jurisdictions in the plan: El Dorado city (115 records), El Dorado township (115 records), Augusta city (103 records), Augusta township (103 records), Andover city (84 records), Rose Hill city (82 records), Leon city (47 records), Potwin city (39 records), Benton city (38 records), Benton township (38 records); and 7 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	14 records, 1998 to 2011 (14 zone-level)	1 day to 25 days (median 3 days); 12 with a recorded value	25 consecutive days, 2011-07-15 to 2011-08-08, 1 direct death, 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)	4 records, 2001 to 2017 (4 zone-level)		Ice Storm, 2007-12-11, \$1,900,000 property; \$0 crops (2007 dollars); NWS zone KSZ069		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)	142 records, 1998 to 2026 (6 zone-level)		Flood, 1998-11-01, \$10,000,000 property; crops not reported (1998 dollars); NWS zone KSZ069		Event records naming jurisdictions in the plan: Augusta city (26 records), Augusta township (26 records), El Dorado city (25 records), El Dorado township (25 records), Andover city (18 records), Rose Hill city (16 records), Latham city (7 records), Potwin city (6 records), Benton city (5 records), Benton township (5 records); and 7 more jurisdictions (see the Excel file). Zone-level records (6) 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)	3 records, 2000 to 2023		Lightning, 2000-09-22, \$100,000 property; crops not reported (2000 dollars)		Event records naming jurisdictions in the plan: Andover city (1 record), El Dorado city (1 record), El Dorado township (1 record), Rose Hill 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)	22 records, 1996 to 2026 (22 zone-level)	36 kt (41 mph) to 65 kt (75 mph) (median 52 kt (60 mph)); 22 with a recorded value	65 kt (75 mph) estimated gust, High Wind, 2025-03-14; NWS zone KSZ069	Strong Wind, 2008-04-08, \$25,000 property; \$0 crops (zone total, 2008 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	667 records, 1955 to 2026	50 kt (58 mph) to 87 kt (100 mph) (median 56 kt (64 mph)); 624 with a recorded value	87 kt (100 mph) estimated gust, Thunderstorm Wind, 2008-06-08; same speed and measurement basis also recorded on 2007-10-17, 2008-04-08	Thunderstorm Wind, 2009-05-08, \$30,000,000 property; crops not reported (2009 dollars)	Event records naming jurisdictions in the plan: El Dorado city (123 records), El Dorado township (123 records), Augusta city (55 records), Augusta township (55 records), Rose Hill city (51 records), Andover city (47 records), Benton city (41 records), Benton township (41 records), Potwin city (40 records), Leon city (29 records); and 7 more jurisdictions (see the Excel file).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	89 records, 1950 to 2025	F/EF0 to F/EF5 (median F/EF0); 82 with a recorded value	F5 tornado, 1991-04-26, 22 mi path length (whole path, pre-1996), 700 yd wide, \$250,000,000 property; crops not recorded (1991 dollars), 13 direct deaths, 150 direct injuries		Event records naming jurisdictions in the plan: El Dorado city (7 records), El Dorado township (7 records), Rosalia township (7 records), Towanda city (4 records), Towanda township (4 records), Augusta city (3 records), Augusta township (3 records), Cassoday city (3 records), Andover city (2 records), Benton city (2 records); and 5 more jurisdictions (see the Excel file).	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)	2 records, 2006 to 2023 (2 zone-level)		No damage reported in 2 records.		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	62 records, 1998 to 2026 (62 zone-level)		Winter Storm, 2009-03-27, \$10,000,000 property; crops not reported (2009 dollars); NWS zone KSZ069		Countywide (zone-level records).	

Where a hazard names more than 10 jurisdictions, the table lists the 10 with the most records; every one is in the Excel file, sheet "B1-c Extent".

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: 29 declarations covering 24 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
2026-09-01	2026-06-18	DR-4943-KS	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, and Flooding	Inland Flooding; Strong Wind; Tornado	not yet in FEMA's PA summaries (they cover declarations through 2026-06-30)	new since last plan; within last 5 years	
2025-09-11	2025-06-03	DR-4891-KS	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, and Flooding	Inland Flooding; Strong Wind; Tornado	\$148,265.17	new since last plan; within last 5 years	
2024-04-28	2024-01-08	DR-4774-KS	Major disaster	Severe Winter Storm	Winter Weather	\$3,146,727.22	in the 12 months before plan approval; within last 5 years	
2020-03-29	2020-01-20	DR-4504-KS	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$12,375.39		
2020-03-13	2020-01-20	EM-3481-KS	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4504

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2019-06-20	2019-04-28	DR-4449-KS	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Strong Wind; Tornado	\$2,483,521.09		
2019-05-28	2019-05-09	EM-3412-KS	Emergency	Tornadoes and Flooding	Inland Flooding; Tornado	no Public Assistance recorded		same incident as DR-4449
2015-07-20	2015-05-04	DR-4230-KS	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	\$489,607.79		
2013-10-22	2013-07-22	DR-4150-KS	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, and Flooding	Inland Flooding; Strong Wind; Tornado	\$728,508.43		
2010-08-10	2010-06-07	DR-1932-KS	Major disaster	Severe Storms, Flooding, and Tornadoes	Inland Flooding; Tornado	\$376,627.18		
2010-03-09	2009-12-22	DR-1885-KS	Major disaster	Severe Winter Storms and Snowstorm	Winter Weather	\$343,957.09		
2009-06-25	2009-04-25	DR-1849-KS	Major disaster	Severe Storms, Flooding, Straight-Line Winds, and Tornadoes	Inland Flooding; Strong Wind; Tornado	\$1,255,191.92		
2009-06-24	2009-03-26	DR-1848-KS	Major disaster	Severe Winter Storm and Record and Near Record Snow	Winter Weather	\$5,628,531.93		
2008-10-31	2008-09-11	DR-1808-KS	Major disaster	Severe Storms, Flooding, and Tornadoes	Inland Flooding; Tornado	\$1,280,352.82		
2008-07-09	2008-05-22	DR-1776-KS	Major disaster	Severe Storms, Flooding and Tornadoes	Inland Flooding; Tornado	\$1,167,978.99		
2008-02-01	2007-12-06	DR-1741-KS	Major disaster	Severe Winter Storms	Winter Weather	\$1,321,505.89		
2007-12-12	2007-12-06	EM-3282-KS	Emergency	Severe Winter Storms	Winter Weather	no Public Assistance recorded		same incident as DR-1741
2007-07-02	2007-06-26	DR-1711-KS	Major disaster	Severe Storms and Flooding	Inland Flooding	\$469,137.81		
2005-09-10	2005-09-01	EM-3236-KS	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2005-02-08	2005-01-04	DR-1579-KS	Major disaster	Severe Winter Storms, Heavy Rains, and Flooding	Inland Flooding; Winter Weather	\$12,997,141.80		
2004-08-03	2004-06-12	DR-1535-KS	Major disaster	Severe Storms, Flooding, and Tornadoes	Inland Flooding; Tornado	\$440,993.50		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2002-02-06	2002-01-29	DR-1402-KS	Major disaster	Severe Winter Ice Storm	Ice Storm	\$1,182,959.26		
1998-11-05	1998-10-30	DR-1258-KS	Major disaster	Ks-Flooding 10/31/98	Inland Flooding	no Public Assistance recorded		
1991-04-29	1991-04-26	DR-903-KS	Major disaster	Severe Storms & Tornadoes	Tornado	no Public Assistance recorded		
1979-06-15	1979-06-15	DR-588-KS	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1976-07-13	1976-07-13	DR-514-KS	Major disaster	Severe Storms, High Winds & Flooding	Inland Flooding (primary); also designated: Strong Wind	no Public Assistance recorded		
1973-09-28	1973-09-28	DR-403-KS	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	no Public Assistance recorded		
1973-05-02	1973-05-02	DR-378-KS	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1965-06-23	1965-06-23	DR-201-KS	Major disaster	Flooding	Inland Flooding	no Public Assistance recorded		

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
1982-06-28	1982-06-28	DR-663-KS	Major disaster	Severe Storms and Flooding	Inland Flooding
1958-11-06	1958-11-06	DR-88-KS	Major disaster	Floods	Inland Flooding
1957-09-05	1957-09-05	DR-81-KS	Major disaster	Floods	Inland Flooding
1955-05-27	1955-05-27	DR-34-KS	Major disaster	Tornado	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.

Public Assistance filed under this county for declarations that do not list it: 1 row, \$56,149.22

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-4811-KS	2024-08-20	Severe Storm, Straight-Line Winds, Tornadoes, and Flooding	Butler Rural Electric Cooperative Association, Inc.	\$56,149.22

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.

Public Assistance not placed in any Kansas county: 4 rows, \$183,565.84; listed on the Kansas state page.

Source: 3

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	2	0	0	0	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record.
Drought	49	0	4	17	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	895	43	18	83	0	0	1955 to 2026-06-30	
Heat Wave	14	0	0	0	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	4	0	0	0	1	0	1996 to 2026-06-30	
Inland Flooding	142	5	0	9	18	2	1996 to 2026-06-30	
Landslide	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Lightning	3	0	0	1	0	0	1996 to 2026-06-30	
Strong Wind	689	34	25	88	7	2	1955 to 2026-06-30	Includes 21 High Wind and 1 Strong Wind records.
Tornado	89	1	1	5	12	2	1950 to 2026-06-30	
Wildfire	2	0	0	1	0	0	1996 to 2026-06-30	
Winter Weather	62	5	3	12	5	0	1996 to 2026-06-30	Includes 1 Sleet record.

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
2025-03-14	High Wind	65 kt (75 mph) estimated gust	\$0 property; \$0 crops (zone total, 2025 dollars)	0, 0	NWS zone KSZ069 (BUTLER), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2021-02-06	Extreme Cold/ Wind Chill		\$0 property; \$0 crops (zone total, 2021 dollars)	0, 0	NWS zone KSZ069 (BUTLER), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2016-08-19	Flash Flood		\$0 property; \$0 crops (2016 dollars)	1, 0	ROSE HILL		deaths or injuries recorded
2011-07-15	Excessive Heat		damage not reported	1, 0	NWS zone KSZ069 (BUTLER), zone-level		B1-c worst recorded: Excessive Heat, Heat
2009-03-27	Winter Storm		\$10,000,000 property; crops not reported (zone total, 2009 dollars)	0, 0	NWS zone KSZ069 (BUTLER), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2008-06-08	Thunderstorm Wind	87 kt (100 mph) estimated gust	\$20,000 property; \$0 crops (2008 dollars)	0, 0	DOUGLASS		B1-c worst recorded: Thunderstorm Wind
2007-12-11	Ice Storm		\$1,900,000 property; \$0 crops (zone total, 2007 dollars)	0, 0	NWS zone KSZ069 (BUTLER), zone-level		B1-c worst recorded: Ice Storm
2000-09-22	Lightning		\$100,000 property; crops not reported (2000 dollars)	0, 0	EL DORADO		B1-c worst recorded: Lightning
1998-11-01	Flood		\$10,000,000 property; crops not reported (zone total, 1998 dollars)	0, 0	NWS zone KSZ069 (BUTLER), zone-level		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1991-04-26	Tornado	F5, 22 mi path length (whole path, pre-1996), 700 yd wide	\$250,000,000 property; crops not recorded (1991 dollars)	13, 150	location not recorded		deaths or injuries recorded
1959-05-17	Hail	6 in	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Hail
1958-06-10	Tornado	F4, 9 mi path length (whole path, pre-1996), 300 yd wide	\$2,500,000 property; crops not recorded (1958 dollars)	15, 5	location not recorded		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,951 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	1.74	event-days per year	about 1.74 days per year	Possible	Storm Events event- days in 1 of 30 years, 1996 to 2025 (3.33%)	33	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	37.7	event-days per year	about 37.7 days per year	Likely	Storm Events event- days in 7 of 30 years, 1996 to 2025 (23.3%)	1,372	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000799	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0799%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	9.3	events per year	about 9.3 per year	Highly likely	FEMA annualized frequency (modeled)	353.3 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	14.1	event-days per year	about 14.1 days per year	Likely	Storm Events event- days in 4 of 30 years, 1996 to 2025 (13.3%)	179	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0088	events per year	about 1 in 114 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	0.54	event-days per year	about 0.54 days per year	Likely	Storm Events event- days in 4 of 30 years, 1996 to 2025 (13.3%)	37	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	3.04	event-days per year	about 3.04 days per year	Likely	Storm Events event- days in 22 of 30 years, 1996 to 2025 (73.3%)	85	1996 to 2023 (28 years)	see B1-f	
Landslide	0.211	events per year (modeled)	about 1 in 5 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	49.8	days per year with a strike	about 49.8 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Strong Wind	6.85	events per year	about 6.85 per year	Highly likely	FEMA annualized frequency (modeled)	261	1986 to 2023 (38 years)	countywide	
Tornado	1.23	events per year	about 1.23 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.00307	annual probability at a location	chance a given location in the county burns in a year: 0.307%	Possible	Storm Events records in 2 of 30 years, 1996 to 2025 (6.67%)	not shown	modeled	see B1-f	
Winter Weather	10.8	event-days per year	about 10.8 days per year	Likely	Storm Events event- days in 25 of 30 years, 1996 to 2025 (83.3%)	206	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	425	30	14.2
Hail	2.00 in+	1996 to 2025	29	30	0.967
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	498	30	16.6
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	69	30	2.3
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	35	30	1.17
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	4	30	0.133

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	19 of 19	61.1	75.6	89.0	Relatively High 9, Relatively Moderate 10
Drought	16 of 19	72.2	84.1	94.3	Relatively Moderate 2, Relatively Low 9, Very Low 5, No Rating 3
Earthquake	19 of 19	9.3	20.9	52.0	Relatively Low 2, Very Low 17
Hail	19 of 19	73.7	86.5	98.8	Very High 1, Relatively High 5, Relatively Moderate 13
Heat Wave	19 of 19	63.4	80.0	91.8	Relatively High 6, Relatively Moderate 13
Hurricane	19 of 19	22.3	29.1	46.3	Very Low 19
Ice Storm	19 of 19	74.8	90.4	95.4	Relatively High 10, Relatively Moderate 9
Inland Flooding	19 of 19	18.2	48.6	92.7	Relatively High 4, Relatively Moderate 6, Relatively Low 9
Landslide	19 of 19	27.7	53.3	84.2	Relatively Low 3, Very Low 16
Lightning	19 of 19	51.6	71.7	89.7	Relatively High 6, Relatively Moderate 13
Strong Wind	19 of 19	75.7	89.7	98.0	Very High 1, Relatively High 17, Relatively Moderate 1

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	19 of 19	75.1	92.7	98.7	Very High 8, Relatively High 11
Wildfire	19 of 19	65.4	96.8	98.9	Relatively High 11, Relatively Moderate 4, Relatively Low 3, Very Low 1
Winter Weather	19 of 19	88.9	96.2	98.7	Very High 10, Relatively High 9

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
Butler County	County	Approved, expires 2029-08-21	FMA RL 9, SRL 13; any 30	\$999,948.38	0 total; 0 since its plan	
Andover city	City	Approved, expires 2029-08-21	FMA RL 0, SRL 0; any 0	\$239,725.42	152 total; 12 since its plan	
Augusta city	City	Approved, expires 2029-08-21	FMA RL 0, SRL 0; any 1	\$432,778.15	187 total; 11 since its plan	
Benton city	City	Approved, expires 2029-08-21	FMA RL 0, SRL 0; any 0	\$14,740.64	86 total; 10 since its plan	
Cassoday city	City	Approved, expires 2029-08-21	FMA RL 0, SRL 0; any 0	\$27,267.54	68 total; 3 since its plan	
El Dorado city	City	Approved, expires 2029-08-21	FMA RL 0, SRL 2; any 4	\$371,487.27	271 total; 13 since its plan	
Elbing city	City	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	22 total; no approved plan	
Latham city	City	Approved, expires 2029-08-21	FMA RL 0, SRL 0; any 0	\$3,439.95	42 total; 0 since its plan	
Leon city	City	Approved, expires 2029-08-21	FMA RL 0, SRL 0; any 0	\$15,777.45	81 total; 5 since its plan	
Potwin city	City	Approved, expires 2029-08-21	FMA RL 0, SRL 0; any 0	\$20,291.26	85 total; 4 since its plan	
Rose Hill city	City	Approved, expires 2029-08-21	FMA RL 0, SRL 0; any 0	\$31,807.12	151 total; 1 since its plan	

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
Towanda city	City	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	61 total; no approved plan	
Whitewater city	City	Approved, expires 2029-08-21	FMA RL 0, SRL 0; any 0	\$13,611.74	39 total; 3 since its plan	
Augusta township	Township	Approved, expires 2029-08-21		\$63,348.45	187 total; 11 since its plan	No NFIP community ID on this jurisdiction's plan row.
Benton township	Township	Approved, expires 2029-08-21		\$245,803.14	86 total; 10 since its plan	No NFIP community ID on this jurisdiction's plan row.
Bloomington township	Township	Approved, expires 2029-08-21		\$364,986.64	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Chelsea township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		no Public Assistance recorded	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Clay township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		no Public Assistance recorded	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Clifford township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		no Public Assistance recorded	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
El Dorado township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		no Public Assistance recorded	271 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Fairmount township	Township	Approved, expires 2029-08-21		\$109,610.50	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Fairview township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		no Public Assistance recorded	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Glencoe township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		\$57,521.61	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Hickory township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		\$262,548.56	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
Lincoln township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		\$543,377.94	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Little Walnut township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		no Public Assistance recorded	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Logan township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		\$18,599.63	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Milton township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		\$8,362.42	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Murdock township	Township	Approved, expires 2029-08-21		no Public Assistance recorded	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Plum Grove township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		no Public Assistance recorded	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Prospect township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		no Public Assistance recorded	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Richland township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		\$348,395.81	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Rock Creek township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		\$242,333.60	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Rosalia township	Township	Approved, expires 2029-08-21		no Public Assistance recorded	44 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Spring township	Township	Approved, expires 2029-08-21		\$81,063.08	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Sycamore township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible		no Public Assistance recorded	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.

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					
Jurisdiction	Type	Plan status			
Towanda township	Township	Approved, expires 2029-08-21	\$63,497.57	61 total; 4 since its plan	No NFIP community ID on this jurisdiction's plan row.
Union township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	no Public Assistance recorded	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Walnut township	Township	Plan 109992 approved 2024-08-22, pending adoption here; not yet eligible	no Public Assistance recorded	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.

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 2024-08-22 <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	\$14,556,442,604	\$342,707,481	67,340	\$119	\$1,606	\$3,347,515	under 0.0001%				
Drought	n/a	\$71,582,546	n/a	n/a	\$269,848	n/a	0.377% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$25,735,757,531	n/a	67,380	\$127,091	n/a	\$39,493	0.000494%				
Hail	\$14,556,443,275	\$342,707,481	67,340	\$1,022,094	\$985,502	\$48,692	0.00702%	\$0			
Heat Wave	\$14,556,442,604	\$342,707,481	67,340	\$16,593	\$18	\$2,444,502	0.000114%				
Hurricane	\$14,520,976,811	\$342,104,477	66,979	\$7,799	\$9,825	\$31	under 0.0001%				
Ice Storm	\$14,556,442,604	n/a	67,340	\$533,620	n/a	\$142,607	0.00367%				
Inland Flooding	\$14,548,600,709	\$57,950,524	1,400	\$13,741,686	\$1,179	\$1,535,889	n/a (see note)	\$2,000,000		\$148,265.17	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	\$37,976,382	n/a	145	\$127	n/a	\$666	0.000334%				
Lightning	\$14,556,443,275	n/a	67,340	\$30,511	n/a	\$496,422	0.00021%				
Strong Wind	\$14,556,443,275	\$342,707,481	67,340	\$1,530,435	\$4,892	\$499,846	0.0105%	\$0	\$0	\$148,265.17	
Tornado	\$14,556,443,275	\$342,707,481	67,340	\$2,500,887	\$22,814	\$6,809,022	0.0172%	\$0		\$148,265.17	

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 2024-08-22 <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	\$4,839,793,724	\$207,503,419	22,519	\$5,248,843	\$2,244	\$232,874	0.108%				
Winter Weather	\$14,556,442,604	\$342,707,481	67,340	\$175,280	\$358	\$485,799	0.0012%		\$0		

Totals since 2024-08-22 (Storm Events through 2026-06-30): 79 county-coded records, 75 with a damage value recorded (including \$0), \$2,000,000; 9 zone-level records, 9 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: \$148,265.17 on 2 counted declarations, 1 of them with Public Assistance; 1 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	67,340
Building value (total, not at risk)	\$14,556,443,275
Agriculture value (total, not at risk)	\$342,707,481
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$26,233,371
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)	\$16,083,358
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)	9	Severe repetitive loss, FMA definition (44 CFR 77.2)	15
Repetitive loss, NFIP insurance definition	26	Severe repetitive loss, NFIP insurance definition	9

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

Repeat-flood properties: county and state-level rows

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	9	15	26	9	35	5	9
of which: Butler County (unincorporated area)	9	13	21	7	30	5	9
of which: Augusta city	0	0	1	0	1	0	0
of which: El Dorado city	0	2	4	2	4	0	0
Statewide, no county in FEMA's file	0	0	1	0	1	0	0

The statewide row counts properties FEMA's file gives with no county in this state; they are listed for reference and are not in this county's counts.

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>
Butler County	200037	9	13	21	7	30	5	9
Andover city	200383	0	0	0	0	0	0	0
Augusta city	200038	0	0	1	0	1	0	0
Benton city	200468	0	0	0	0	0	0	0
Cassoday city	200033	0	0	0	0	0	0	0
El Dorado city	200039	0	2	4	2	4	0	0
Elbing city	200036	0	0	0	0	0	0	0
Latham city	200054	0	0	0	0	0	0	0
Leon city	200516	0	0	0	0	0	0	0
Potwin city	200448	0	0	0	0	0	0	0
Rose Hill city	200454	0	0	0	0	0	0	0

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>
Towanda city	200534	0	0	0	0	0	0	0
Whitewater city	200559	0	0	0	0	0	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	9	14	25	8	34	5	9
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	1	1	1	1	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 5 properties are FMA repetitive loss but not NFIP repetitive loss, and 22 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_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_Gazetteer/2024_Gaz_elsd_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).

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Cite this: Hazard Plain (2026). Butler County, KS: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 20015). Automated baseline. <https://hazardplain.org/ks/20015/> 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