

Wyandotte County, KS

Risk-assessment baseline packet

Unit **County area 20209** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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

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

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Plan clock

Status	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Plan	Region L (FEMA plan 110182), pending adoption here
Approved	2024-11-08 by FEMA; not yet adopted here	Expires	2029-11-07 once adopted
As of	2026-09-28	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. Plan 110182 was approved by FEMA on 2024-11-08 but is not yet adopted here, so no since-plan counts are given.

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

Plan status for every jurisdiction listed in this county: 17 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

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

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

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Wyandotte County	County	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Bonner Springs city	City	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Edwardsville city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-08-04
Kansas City city	City	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Bonner Springs Unified School District 204	School/School District	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Kansas City Unified School District 500	School/School District	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Piper-Kansas City Unified School District 203	School/School District	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 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>		
Turner Unified School District 202	School/School District	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Fairfax Drainage District	Flood Control District	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Heart of America Boy Scouts	Other	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Kansas City Kansas Community College	College/University	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Kansas State School for the Deaf and Blind (Blind)	School/School District	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-06-25
Kansas University Medical Center	Hospital/Medical Facility	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Kaw Valley Drainage District	Flood Control District	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Unified Government Health Department	Hospital/Medical Facility	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
University of Kansas Hospital	Hospital/Medical Facility	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
WaterOne	Water/Sewer Authority	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	Region L (FEMA plan 110182), pending adoption here	2024-11-08 by FEMA; not yet adopted here	2029-11-07 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

SOURCE

Supports B1-a: hazards

Hazards NRI does not cover: check locally

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

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

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Relatively Moderate	Relatively Moderate	\$21,524,614	\$57,254	\$74,933	\$21,656,801	53		
2	Tornado	Relatively High	Relatively High	\$6,660,646	\$270	\$8,623,767	\$15,284,683	3		
3	Cold Wave	Relatively High	Relatively High	\$2,261	\$512	\$10,405,574	\$10,408,347	10		Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
4	Heat Wave	Relatively High	Relatively Moderate	\$20,989	under \$1	\$7,934,213	\$7,955,202	19		
5	Strong Wind	Very High	Relatively High	\$1,924,018	\$1,203	\$3,873,909	\$5,799,131	135		Includes 5 High Wind records, event types the NRI definition of this hazard leaves out.
6	Hail	Relatively High	Relatively High	\$3,039,079	\$2,791	\$262,837	\$3,304,706	124		
7	Ice Storm	Very High	Relatively High	\$311,033		\$1,180,971	\$1,492,004	9		
8	Winter Weather	Very High	Very High	\$435,517	\$7	\$695,568	\$1,131,092	42		
9	Lightning	Relatively High	Relatively Moderate	\$54,102		\$832,444	\$886,547	1		
10	Earthquake	Relatively Low	Relatively Low	\$389,812		\$107,200	\$497,012			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
11	Wildfire	Very Low	Very Low	\$29,036	\$1	\$2,857	\$31,894	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
12	Drought	Relatively Low	Very Low		\$24,858		\$24,858	21		
13	Landslide	Relatively Low	Relatively Low	\$1,843		\$7,698	\$9,540	0		Declared 1 time; no Storm Events record of this type. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
14	Hurricane	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Avalanche	Not Applicable	Not Applicable					0	NRI rates avalanche Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Coastal Flooding	Not Applicable	Not Applicable					0	NRI rates coastal flooding Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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

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

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

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 64

Hazard	Location	Census tracts rated
		<i>rated of all tracts</i>
Coastal Flooding	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 64
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	64 of 64
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	14 of 64
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	64 of 64
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	64 of 64
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	64 of 64
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 64
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	64 of 64
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.	64 of 64
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	64 of 64
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	64 of 64
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	64 of 64
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	64 of 64
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 64
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 64
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	56 of 64
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	64 of 64

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

Supports B1-c: extent

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

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	9, 1997 to 2025 (9 zone-level)	1 day to 22 days (median 4 days); 7 with a recorded value	22 days, 2000-12-10 to 2000-12-31, from 1 monthly summary record (a monthly summary record covers most or all of a month; it does not count days at wave conditions), zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	1, 2007 to 2007 (1 zone- level)		No crop damage reported in 1 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Temperature: in event narratives only; local data required.
Drought	US Drought Monitor D- scale	21, 2012 to 2025 (21 zone- level)	5 days to 243 days (median 64 days); 6 with a recorded value	243 days (8 months), 2012-07-01 to 2013-02-28, a run of 8 consecutive Storm Events drought records, zone- level		Zone-level records: applies countywide; national data do not locate these events within the county.	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	188, 1955 to 2026	0.75 in to 3 in (median 1 in); 186 with a recorded value	3 in hail, 2026-03-10	Hail, 2006-03-12, \$150,000 property; crops not reported (2006 dollars)	Event records naming member places: Kansas City city (37 records), Bonner Springs city (23 records), Edwardsville city (13 records).	
Excessive Heat, Heat	heat index (narratives)	19, 1999 to 2023 (19 zone- level)	1 day to 14 days (median 5 days); 16 with a recorded value	14 consecutive days, 1999-07-18 to 1999-07-31, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.
Ice Storm	Sperry-Piltz (local data)	9, 1997 to 2019 (9 zone- level)		Ice Storm, 2002-01-30, \$3,500,000 property; crops not reported, reported for the zone (2002 dollars); NWS zone KSZ104 (WYANDOTTE), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	53, 1996 to 2025 (11 zone-level)		Flash Flood, 1998-10-04, \$2,000,000 property; crops not reported (1998 dollars)		Event records naming member places: Kansas City city (21 records), Bonner Springs city (4 records). Zone-level records (11) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1, 2007 to 2007		Lightning, 2007-02-28, \$5,000 property; \$0 crops (2007 dollars)		Event records naming member places: Bonner Springs city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	5, 1996 to 2021 (5 zone-level)	48 kt (55 mph) to 56 kt (64 mph) (median 52 kt (60 mph)); 5 with a recorded value	56 kt (64 mph) measured gust, High Wind, 2021-12-15; NWS zone KSZ104 (WYANDOTTE), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	196, 1956 to 2025	50 kt (58 mph) to 99 kt (114 mph) (median 52 kt (60 mph)); 167 with a recorded value	99 kt (114 mph), measurement type not recorded, Thunderstorm Wind, 1956-06-27; same speed and measurement basis also recorded on 1956-06-27	Thunderstorm Wind, 1994-07-01, \$500,000 property; crops not recorded (1994 dollars)	Event records naming member places: Kansas City city (48 records), Bonner Springs city (14 records), Edwardsville city (9 records).	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Tornado	Enhanced Fujita (F before Feb 2007)	11, 1958 to 2008	F/EF0 to F/EF4 (median between F/EF1 and F/EF2); 10 with a recorded value	F4 tornado, 2003-05-04, 15 mi within this county, 500 yd wide, \$15,500,000 property; crops not reported (2003 dollars), 2 direct deaths, 30 direct injuries		Event records naming member places: Bonner Springs city (3 records).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	0					Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	42, 1996 to 2026 (42 zone-level)		Heavy Snow, 1996-10-22, \$250,000 property; crops not reported, reported for the zone (1996 dollars); NWS zone KSZ104 (WYANDOTTE), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

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

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

SOURCES

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

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

Supports B1-d: previous occurrences

Declaration rows

26

Counted incidents

22

Plan 110182 was approved by FEMA on 2024-11-08 but is not yet adopted here, so no since-plan counts are given.

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2025-12-19	2025-07-17	DR-4897-KS	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, AND FLOODING	Inland Flooding; Strong Wind; Tornado	none found	within last 5 years	
2024-08-20	2024-05-19	DR-4811-KS	Major disaster	SEVERE STORM, STRAIGHT-LINE WINDS, TORNADOES, AND FLOODING	Inland Flooding; Strong Wind; Tornado	\$795,438.65	within last 5 years	
2023-10-26	2023-07-14	DR-4747-KS	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, AND FLOODING	Inland Flooding; Strong Wind; Tornado	\$1,727,612.36	within last 5 years	
2022-02-17	2021-12-15	DR-4640-KS	Major disaster	SEVERE STORMS AND STRAIGHT LINE WINDS	Strong Wind	\$985,126.64	within last 5 years	
2020-03-29	2020-01-20	DR-4504-KS	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$23,815,605.14		
2020-03-13	2020-01-20	EM-3481-KS	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4504
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	\$2,117,355.42		
2017-11-07	2017-07-22	DR-4347-KS	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, AND FLOODING	Inland Flooding; Strong Wind	\$2,098,918.91		
2011-09-23	2011-06-01	DR-4035-KS	Major disaster	FLOODING	Inland Flooding	\$667,126.96		
2011-06-25	2011-06-01	EM-3324-KS	Emergency	FLOODING	Inland Flooding	none found		same incident as DR-4035
2010-03-09	2009-12-22	DR-1885-KS	Major disaster	SEVERE WINTER STORMS AND SNOWSTORM	Winter Weather	\$204,640.36		
2007-12-12	2007-12-06	EM-3282-KS	Emergency	SEVERE WINTER STORMS	Winter Weather	none found		
2006-04-13	2006-03-12	DR-1638-KS	Major disaster	SEVERE STORMS, TORNADOES, AND STRAIGHT LINE WINDS	Strong Wind; Tornado	\$430,106.96		
2005-09-10	2005-09-01	EM-3236-KS	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	none found		
2005-02-08	2005-01-04	DR-1579-KS	Major disaster	SEVERE WINTER STORMS, HEAVY RAINS, AND FLOODING	Inland Flooding; Winter Weather	\$653,430.71		
2004-09-30	2004-08-27	DR-1562-KS	Major disaster	SEVERE STORMS, FLOODING, AND TORNADOES	Inland Flooding; Tornado	\$1,317,607.07		
2004-08-03	2004-06-12	DR-1535-KS	Major disaster	SEVERE STORMS, FLOODING, AND TORNADOES	Inland Flooding; Tornado	\$3,826,170.65		
2003-05-06	2003-05-04	DR-1462-KS	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$4,223,874.33		
2002-02-06	2002-01-29	DR-1402-KS	Major disaster	SEVERE WINTER ICE STORM	Ice Storm	\$3,586,964.29		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1998-11-05	1998-10-30	DR-1258-KS	Major disaster	KS-FLOODING 10/31/98	Inland Flooding	PA not declared for this county		
1998-10-14	1998-10-01	DR-1254-KS	Major disaster	SEVERE STORMS, FLOODING AND TORNADOES	Inland Flooding; Tornado	none found		
1993-07-22	1993-06-28	DR-1000-KS	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1977-09-20	1977-09-20	DR-539-KS	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1973-09-28	1973-09-28	DR-403-KS	Major disaster	SEVERE STORMS, TORNADOES & FLOODING	Inland Flooding; Tornado	none found		
1973-05-02	1973-05-02	DR-378-KS	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1969-07-15	1969-07-15	DR-267-KS	Major disaster	TORNADOES, SEVERE STORMS & FLOODING	Tornado (primary); also designated: Inland Flooding	none found		

School districts and special districts in this county: \$2,683.50 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan members in this county. They are not shown as member blocks, so their total is listed here. These dollars are already included in the county PA column of the declarations table (the FEMA record places each applicant in this county); do not add this line to the county total.

County Public Assistance: applicants the FEMA record places in this county, including any state agencies FEMA files there; statewide rows are listed on the state page; federal share obligated, nominal dollars. Dollars are nominal (as reported), labeled with the year; not adjusted for inflation.

SOURCES
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Statewide declarations

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
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. Listed on every county page in the state; not counted with county rows.

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

Public Assistance not placed in a county in this state: 4 rows, \$183,565.84

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated	Why not placed
				<i>federal share obligated, nominal dollars</i>	
4504	2020-03-29	Mercy Health Southwest Missouri Kansas Communities	Jasper County	\$16,404.82	county field is a county of another state and the applicant name does not identify a place in the declaring state

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated	Why not placed
				<i>federal share obligated, nominal dollars</i>	
4449	2019-06-20	Blackwell Industrial Authority	Kay County	\$141,084.67	county field is a county of another state and the applicant name does not identify a place in the declaring state
1675	2007-01-07	Harlan, Township of	Red Willow County	\$24,861.35	county field is a county of another state and the applicant name does not identify a place in the declaring state
1626	2006-01-26	Harlan, Township of	Red Willow County	\$1,215	county field is a county of another state and the applicant name does not identify a place in the declaring state

FEMA's Public Assistance summaries file these applicants under a county field that is not a county of this state (an Alaska school area, the former Valdez-Cordova Census Area, or another state's county), and the applicant name does not identify one place here. They are listed for the whole state and are not in any county total. Check whether any of them worked in your county.

SOURCE

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

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	10			2	0		1996 to 2026-06-30	Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
Drought	21			9	0		1996 to 2026-06-30	
Earthquake	0			0	0			No Storm Events record; local data required (e.g., USGS).
Hail	188			24	0		1955 to 2026-06-30	
Heat Wave	19			1	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	1		1996 to 2026-06-30	
Inland Flooding	53			1	17		1996 to 2026-06-30	
Landslide	0			0	1		1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Lightning	1			0	0		1996 to 2026-06-30	
Strong Wind	201			63	7		1955 to 2026-06-30	Includes 5 High Wind records, event types the NRI definition of this hazard leaves out.
Tornado	11			0	11		1950 to 2026-06-30	

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Tsunami	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	42			2	3		1996 to 2026-06-30	

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2026-03-10	Hail	3 in	damage not reported	0, 0	POMEROY	within last 5 years	B1-c worst recorded: Hail
2021-12-15	High Wind	56 kt (64 mph) measured gust	damage not reported	0, 0	NWS zone KSZ104 (WYANDOTTE), zone-level: may include parts of neighboring counties	within last 5 years	B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2007-02-28	Lightning		\$5,000 property; \$0 crops (2007 dollars)	0, 0	BONNER SPGS		B1-c worst recorded: Lightning
2005-07-21	Heat		damage not reported	1, 0	NWS zone KSZ104 (WYANDOTTE), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2003-05-04	Tornado	F4, 15 mi within this county, 500 yd wide	\$15,500,000 property; crops not reported (2003 dollars)	2, 30	BONNER SPGS		deaths or injuries recorded
2002-01-30	Ice Storm		\$3,500,000 property; crops not reported, reported for the zone (2002 dollars)	0, 0	NWS zone KSZ104 (WYANDOTTE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Ice Storm
2000-12-10	Extreme Cold/ Wind Chill		damage not reported	0, 0	NWS zone KSZ104 (WYANDOTTE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill

			Direct deaths, injuries		Location	Flags	Why listed
Date	Event type	Magnitude or extent	Damage nominal dollars	indirect not counted			
1999-07-18	Heat		damage not reported	0, 0	NWS zone KSZ104 (WYANDOTTE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
1998-10-04	Flash Flood		\$2,000,000 property; crops not reported (1998 dollars)	0, 0	KANSAS CITY		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1996-10-22	Heavy Snow		\$250,000 property; crops not reported, reported for the zone (1996 dollars)	0, 0	NWS zone KSZ104 (WYANDOTTE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
1961-05-07	Tornado	F4, 2.7 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 150 yd wide	\$2,500,000 property; crops not recorded (1961 dollars)	0, 12	location not recorded		deaths or injuries recorded
1956-06-27	Thunderstorm Wind	99 kt (114 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind

The full list is in the XLSX file, sheet "B1-d Storm Events history" (555 rows).

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

SOURCES

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

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

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

FEMA annualized frequency (modeled)		NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)							
Hazard	unit per row	Unit	In plain terms	Descriptor	Descriptor basis	NRI period	Location	Note	
Avalanche		events per year				1994 to 2023 (30 years)	see B1-f	Not Applicable in NRI for this county; no descriptor.	
Coastal Flooding		events per year at a location (modeled)				not shown modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.	

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	2.32	event-days per year	about 2.32 days per year	Likely	event-days in 6 of 30 years, 1996 to 2025 (20%)	44	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 2.32 cold wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 6 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together. Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	11.7	event-days per year	about 11.7 days per year	Likely	event-days in 7 of 30 years, 1996 to 2025 (23.3%)	364	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 11.7 drought event-days a year here (its annualized frequency over 25.25 years; not its event count divided by the years), but Storm Events has a record in only 7 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Earthquake	0.000825	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.0825%			not shown	modeled	see B1-f	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.
Hail	9.06	events per year	about 9.06 per year	Highly likely	FEMA annualized frequency (modeled)	344.3 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	14.9	event-days per year	about 14.9 days per year	Likely	event-days in 10 of 30 years, 1996 to 2025 (33.3%)	169	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 14.9 heat wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 10 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Hurricane	0	events per year	none modeled	Unlikely	FEMA annualized frequency (modeled)	0	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.
Ice Storm	0.961	event-days per year	about 0.961 days per year	Likely	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	65	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.46	event-days per year	about 1.46 days per year	Likely	event-days in 16 of 30 years, 1996 to 2025 (53.3%)	41	1996 to 2023 (28 years)	see B1-f	

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
Landslide	0.119	events per year (modeled)	about 1 in 8 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	50.3	days per year with a strike	about 50.3 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	6.91	events per year	about 6.91 per year	Highly likely	FEMA annualized frequency (modeled)	263	1986 to 2023 (38 years)	countywide	
Tornado	0.108	events per year	about 1 in 9 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.0000865	annual probability at a location	chance a given location in the county burns in a year: 0.00865%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)
Winter Weather	11	event-days per year	about 11 days per year	Likely	event-days in 19 of 30 years, 1996 to 2025 (63.3%)	209	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county, which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

SOURCES

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

Descriptor scale used in this packet (defined per unit)

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

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

Intensity bands: historical frequency (Storm Events)

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	70	30	2.33
Hail	2.00 in+	1996 to 2025	10	30	0.333
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	120	30	4
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	9	30	0.3
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	1	30	0.0333
Tornado	EF0-1	1996 to 2025	2	30	0.0667
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	1	30	0.0333
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts rated of all	Risk score min NRI score, 0 to 100	Median	Max	Tracts by rating	Note
Avalanche	0 of 64				Not Applicable 64	
Coastal Flooding	0 of 64				Not Applicable 64	
Cold Wave	64 of 64	15.8	80.1	96.7	Very High 2, Relatively High 32, Relatively Moderate 23, Relatively Low 1, Very Low 6	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	14 of 64	67.1	77.5	84.8	Relatively Low 7, Very Low 7, No Rating 50	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally.
Earthquake	64 of 64	0.8	17.9	61.9	Relatively Low 5, Very Low 59	
Hail	64 of 64	26.2	80.1	96.4	Relatively High 13, Relatively Moderate 43, Relatively Low 6, Very Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	64 of 64	1.6	85.1	96.5	Relatively High 34, Relatively Moderate 23, Very Low 7	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	0 of 64				No Rating 64	
Ice Storm	64 of 64	2.0	85.7	95.7	Relatively High 18, Relatively Moderate 41, Relatively Low 2, Very Low 3	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	64 of 64	0.5	12.0	91.5	Relatively High 5, Relatively Moderate 6, Relatively Low 16, Very Low 37	
Landslide	64 of 64	15.8	67.3	94.6	Relatively Low 14, Very Low 50	
Lightning	64 of 64	0.3	57.0	91.9	Relatively High 6, Relatively Moderate 36, Relatively Low 15, Very Low 7	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	64 of 64	9.1	88.5	98.6	Very High 7, Relatively High 40, Relatively Moderate 13, Relatively Low 2, Very Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	64 of 64	6.3	77.3	97.8	Very High 10, Relatively High 28, Relatively Moderate 22, Relatively Low 2, Very Low 2	
Tsunami	0 of 64				Not Applicable 64	
Volcanic Activity	0 of 64				Not Applicable 64	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Wildfire	56 of 64	19.1	51.7	77.9	Relatively Low 5, Very Low 51, No Rating 8	
Winter Weather	64 of 64	18.0	90.5	98.4	Very High 13, Relatively High 43, Relatively Moderate 6, Relatively Low 1, Very Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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

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

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat- flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Wyandotte County	County	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	0; no approved plan	
Bonner Springs city	City	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	FMA RL 3, SRL 0; any 8	\$197,157.94	45; no approved plan	Includes \$4,011.75 for declarations not counted as hazard incidents (DR-4504-KS).
Edwardsville city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 0; any 2	\$518,183.43	22; 3	Includes \$18,742.29 for declarations not counted as hazard incidents (DR-4504-KS).
Kansas City city	City	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	FMA RL 3, SRL 11; any 37	none found	106; no approved plan	

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

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

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

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

Local data required

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

Plan 110182 was approved by FEMA on 2024-11-08 but is not yet adopted here, so no since-plan counts are given.

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 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
Avalanche											Not Applicable in NRI for this county
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$36,857,210,670	\$6,790,390	169,235	\$2,261	\$512	\$10,405,574	under 0.0001%				
Drought		\$5,179,673			\$24,858		0.48% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$67,596,877,628		169,245	\$389,812		\$107,200	0.000577%				
Hail	\$36,857,210,670	\$6,790,390	169,235	\$3,039,079	\$2,791	\$262,837	0.00825%				
Heat Wave	\$36,857,210,670	\$6,790,390	169,235	\$20,989	under \$1	\$7,934,213	under 0.0001%				
Hurricane	\$36,857,210,670	\$6,790,390	169,235	\$0	\$0	\$0	0%				
Ice Storm	\$36,852,212,831		169,206	\$311,033		\$1,180,971	0.000844%				
Inland Flooding	\$36,844,561,613	\$3,486,197	769	\$21,524,614	\$57,254	\$74,933	n/a (see note)				NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. EAL as % of exposure: n/a.
Landslide	\$982,185,569		5,614	\$1,843		\$7,698	0.000188%				
Lightning	\$36,857,210,670		169,235	\$54,102		\$832,444	0.000147%				
Strong Wind	\$36,857,210,670	\$6,790,390	169,235	\$1,924,018	\$1,203	\$3,873,909	0.00522%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since plan <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Tornado	\$36,857,210,670	\$6,790,390	169,235	\$6,660,646	\$270	\$8,623,767	0.0181%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$5,400,514,691	\$865,689	27,690	\$29,036	\$1	\$2,857	0.000538%				
Winter Weather	\$36,857,210,670	\$6,790,390	169,235	\$435,517	\$7	\$695,568	0.00118%				

Totals since the plan: not available. Plan 110182 was approved by FEMA on 2024-11-08 but is not yet adopted here, so no since-plan counts are given.

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

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

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

SOURCES

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

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

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

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

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

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

Supports B2-a: context

County context

Measure	Value
Population	169,235
Building value (total, not at risk)	\$36,857,210,670
Agriculture value (total, not at risk)	\$6,790,390
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$34,479,845
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)	\$34,001,972
Social vulnerability rating	Relatively Moderate
Community resilience rating	Relatively Moderate
NRI version	December 2025

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

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

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	6	Severe repetitive loss, FMA definition (44 CFR 77.2)	11
Repetitive loss, NFIP insurance definition	42	Severe repetitive loss, NFIP insurance definition	9

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

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

Repeat-flood properties: county and state-level rows

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	6	11	42	9	47	4	8
BONNER SPRINGS, CITY OF	3	0	7	0	8	0	3
EDWARDSVILLE, CITY OF	0	0	2	0	2	0	0
KANSAS CITY, CITY OF	3	11	33	9	37	4	5
State level, not in this county: county not reported	0	0	1	0	1	0	0

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

Repeat-flood properties by plan member (NFIP community)

Member	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>	Note
Wyandotte County	200562	0	0	0	0	0	0	0	
Bonner Springs city	200361	3	0	7	0	8	0	3	
Edwardsville city	200362	0	0	2	0	2	0	0	
Kansas City city	200363	3	11	33	9	37	4	5	

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

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

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

County repeat-flood properties by occupancy group

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	6	1	17	0	21	3	3
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	2	0	2	0	0
non-residential	0	10	23	9	24	1	5
not reported	0	0	0	0	0	0	0

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

SOURCES

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

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

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

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

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

In this county 3 properties are FMA repetitive loss but not NFIP repetitive loss, and 39 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

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

gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

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Cite this: Hazard Plain (2026). Wyandotte County, KS: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 20209). Preview: automated baseline. Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_KS_20209. Preview: automated baseline.