

Johnson County, KS

Risk-assessment baseline packet

Unit **County area 20091** 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	Approved, expires 2029-11-07	Plan	Region L (FEMA plan 110182)
Approved	2024-11-08	Expires	2029-11-07
As of	2026-09-28	Days	1,136 days to expiry

What changed since your last plan (approved 2024-11-08)

New federal declarations	none (0 declaration rows; 0 counted incidents)	Storm Events records since approval	117 (data through 2026-06-30)
Repetitive loss now	FMA RL 1, SRL 11 (44 CFR 77.2); any definition: 97	Repeat-flood change	First release: no prior release to compare.

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

Plan status for every jurisdiction listed in this county: 38 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

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

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Plan clock

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Update underway	Notes
Johnson County	County	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2024-11-21
Name not given in FEMA data (ID 2006420)	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.
De Soto city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-02-27
Edgerton city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-02-21
Fairway city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-02-13
Gardner city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-03-05
Lake Quivira 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.
Leawood city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2024-12-07
Lenexa city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-01-29
Merriam city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-02-15
Mission 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.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Mission Hills 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.
Mission Woods 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.
Olathe city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-02-11
Overland Park city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-03-26
Prairie Village city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-03-19
Roeland Park city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-03-05
Shawnee city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-01-29
Spring Hill 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.
Westwood city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-01-16
Westwood Hills city	City	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-01-29
Blue Valley Unified School District 229	School/School District	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-01-25
De Soto Unified School District 232	School/School District	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-01-16
Gardner Edgerton Unified School District 231	School/School District	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2024-12-18
Olathe Unified School District 233	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.
Shawnee Mission Public Schools Unified School District	School/School District	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-02-25
Spring Hill Unified School District 230	School/School District	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-02-26

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Consolidated Fire District #2	Fire/EMS 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.
Evergry	Electric/Power 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.
Fire District #1	Fire/EMS District	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-01-25
Fire District #2	Fire/EMS 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.
Fire District #3	Fire/EMS 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.
Johnson County Community College	College/ University	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-04-24
Kansas State School for the Deaf and Blind (Deaf)	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.
Northwest Consolidated Fire District	Fire/EMS District	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2024-12-18
University of Kansas, Edwards Campus	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.
Water District #7	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.
WaterOne	Water/Sewer Authority	Approved, expires 2029-11-07	Region L (FEMA plan 110182)	2024-11-08	2029-11-07	1,136		member approved 2025-03-04

Plan 110182 lists 36 other participants not on this page, 22 of them not covered by it yet (named in the XLSX file).

SOURCE

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

Supports B1-a: hazards

Hazards NRI does not cover: check locally

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

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

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Relatively High	Relatively High	\$103,222,474	\$354,809	\$6,644,768	\$110,222,051	109		
2	Tornado	Very High	Very High	\$24,100,769	\$9,131	\$31,286,923	\$55,396,823	18		
3	Cold Wave	Relatively High	Very High	\$9,544	\$17,403	\$30,574,971	\$30,601,919	10		Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
4	Heat Wave	Relatively High	Relatively High	\$21,818	\$11	\$26,705,014	\$26,726,843	19		
5	Hail	Relatively High	Relatively High	\$13,835,231	\$91,331	\$921,881	\$14,848,442	502		
6	Winter Weather	Very High	Very High	\$2,039,738	\$256	\$3,988,772	\$6,028,766	48		
7	Ice Storm	Very High	Very High	\$867,750		\$4,318,330	\$5,186,080	10		
8	Lightning	Very High	Very High	\$186,354		\$4,880,273	\$5,066,627	5		
9	Earthquake	Relatively Low	Relatively Low	\$1,513,915		\$293,396	\$1,807,312			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
10	Strong Wind	Relatively Low	Relatively Moderate	\$174,943	\$42,509	\$540,944	\$758,396	416		Includes 8 High Wind records, event types the NRI definition of this hazard leaves out.
11	Wildfire	Very Low	Relatively Low	\$129,657	\$40	\$7,939	\$137,636	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.
12	Drought	Very Low	Very Low		\$18,044		\$18,044	23		

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	EAL population equivalence statistical value of life and injury, \$13.7M per life, not property damage	EAL total (see note) modeled dollars per year	Storm Events records since 1996 count	Evidence for an omission NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
13	Landslide	Relatively Low	Very Low	\$3,982		\$4,050	\$8,032	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.
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 154
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 154

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	154 of 154
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	46 of 154
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.	154 of 154
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	154 of 154
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	154 of 154
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 154
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	154 of 154
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.	154 of 154
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.	154 of 154
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	154 of 154
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	154 of 154
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.	154 of 154
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 154
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 154
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.	152 of 154
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	154 of 154

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)	2 days 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	23, 2012 to 2025 (23 zone- level)	5 days to 243 days (median 75.5 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)	657, 1959 to 2026	0.75 in to 4.5 in (median 1 in); 657 with a recorded value	4.5 in hail, 1974-08-19	Hail, 1993-09-21, \$500,000 property; \$500,000 crops (1993 dollars)	Event records naming member places: Olathe city (74 records), Shawnee city (46 records), Overland Park city (42 records), Lenexa city (31 records), De Soto city (28 records), Leawood city (26 records), Gardner city (20 records), Spring Hill city (20 records), Edgerton city (18 records), Merriam city (17 records); and 6 more member places (see the XLSX file).	
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)	10, 1997 to 2020 (10 zone- level)		Ice Storm, 2002-01-30, \$5,000,000 property; crops not reported, reported for the zone (2002 dollars); NWS zone KSZ105 (JOHNSON), 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)	109, 1996 to 2025 (10 zone-level)		Flash Flood, 1998-10-04, \$8,000,000 property; crops not reported (1998 dollars), 2 direct deaths		Event records naming member places: Overland Park city (15 records), Olathe city (11 records), Gardner city (10 records), Leawood city (7 records), Lenexa city (5 records), Mission city (5 records), Merriam city (4 records), Mission Hills city (4 records), Westwood city (4 records), De Soto city (2 records); and 5 more member places (see the XLSX file). Zone-level records (10) 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)	5, 2000 to 2025		Lightning, 2000-09-11, \$325,000 property; crops not reported (2000 dollars)		Event records naming member places: Leawood city (2 records), Lenexa city (1 record), Olathe city (1 record), Overland Park 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)	8, 2000 to 2023 (8 zone-level)	50 kt (58 mph) to 56 kt (64 mph) (median 52.5 kt (60 mph)); 8 with a recorded value	56 kt (64 mph) measured gust, High Wind, 2021-12-15, 1 direct injury (reported for the zone); same speed and measurement basis also recorded on 2011-06-09; NWS zone KSZ105 (JOHNSON), zone-level: may include parts of neighboring counties	High Wind, 2000-03-08, \$10,000 property; crops not reported, reported for the zone (2000 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	568, 1955 to 2026	50 kt (58 mph) to 85 kt (98 mph) (median 52 kt (60 mph)); 485 with a recorded value	85 kt (98 mph), measurement type not recorded, Thunderstorm Wind, 1978-08-26	Thunderstorm Wind, 2017-03-06, \$500,000 property; crops not reported (2017 dollars)	Event records naming member places: Olathe city (59 records), Overland Park city (26 records), Lenexa city (22 records), Leawood city (21 records), Shawnee city (20 records), Edgerton city (17 records), Westwood city (14 records), De Soto city (13 records), Gardner city (13 records), Merriam city (12 records); and 6 more member places (see the XLSX file).	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Tornado	Enhanced Fujita (F before Feb 2007)	45, 1952 to 2024	F/EF0 to F/EF4 (median F/EF1); 42 with a recorded value	F4 tornado, 1952-05-22, 10.9 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 440 yd wide, \$250,000 property; crops not recorded (1952 dollars), 1 direct injury	Tornado, 1966-04-19, \$2,500,000 property; crops not recorded (1966 dollars)	Event records naming member places: Edgerton city (1 record), Leawood city (1 record), Lenexa city (1 record), Mission Hills city (1 record), Olathe city (1 record), Overland Park city (1 record).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	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)	48, 1996 to 2026 (48 zone-level)		Heavy Snow, 1996-10-23, \$500,000 property; crops not reported, reported for the zone (1996 dollars); NWS zone KSZ105 (JOHNSON), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

Where a hazard names more than 10 member places, the table lists the 10 with the most records; every place is in the XLSX file, sheet "B1-c Extent".

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

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

SOURCES

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 rows12

Counted incidents9

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
2023-10-26	2023-07-14	DR-4747-KS	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, AND FLOODING	Inland Flooding; Strong Wind; Tornado	\$2,422,537.28	within last 5 years	
2020-03-29	2020-01-20	DR-4504-KS	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$35,285,493.57		
2020-03-13	2020-01-20	EM-3481-KS	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4504
2017-11-07	2017-07-22	DR-4347-KS	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, AND FLOODING	Inland Flooding; Strong Wind	\$3,393,810.61		
2007-12-12	2007-12-06	EM-3282-KS	Emergency	SEVERE WINTER STORMS	Winter Weather	none found		
2005-09-10	2005-09-01	EM-3236-KS	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	\$2,288.10		
2002-02-06	2002-01-29	DR-1402-KS	Major disaster	SEVERE WINTER ICE STORM	Ice Storm	\$10,338,291.41		
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	PA not declared for this county		
1977-09-20	1977-09-20	DR-539-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: \$59,381.38 (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 filed under this county for declarations that do not list it: 1 row, \$20,002.83

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-4035-KS	2011-09-23	FLOODING	DO NOT USE Water District #1 - Johnson County (WaterOne)	\$20,002.83

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.

SOURCES

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

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 <i>federal share obligated, nominal dollars</i>	Why not placed
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
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	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	10	1	0	2	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
Drought	23	2	1	10	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	657	49	24	85	0	0	1955 to 2026-06-30	
Heat Wave	19	0	0	1	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	10	0	0	0	1	0	1996 to 2026-06-30	
Inland Flooding	109	2	1	4	7	0	1996 to 2026-06-30	
Landslide	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	5	1	0	1	0	0	1996 to 2026-06-30	
Strong Wind	576	61	26	119	2	0	1955 to 2026-06-30	Includes 8 High Wind records, event types the NRI definition of this hazard leaves out.
Tornado	45	0	3	4	3	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	48	1	0	2	1	0	1996 to 2026-06-30	

SOURCES

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

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2021-12-15	High Wind	56 kt (64 mph) measured gust	damage not reported	0, 1	NWS zone KSZ105 (JOHNSON), 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)
2003-08-31	Flash Flood		damage not reported	1, 0	OVERLAND PARK		deaths or injuries recorded
2002-01-30	Ice Storm		\$5,000,000 property; crops not reported, reported for the zone (2002 dollars)	0, 0	NWS zone KSZ105 (JOHNSON), 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 KSZ105 (JOHNSON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2000-09-11	Lightning		\$325,000 property; crops not reported (2000 dollars)	0, 0	LENEXA		B1-c worst recorded: Lightning
1999-07-18	Heat		damage not reported	0, 0	NWS zone KSZ105 (JOHNSON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
1998-10-04	Flash Flood		\$8,000,000 property; crops not reported (1998 dollars)	2, 0	OVERLAND PARK		deaths or injuries recorded
1996-10-23	Heavy Snow		\$500,000 property; crops not reported, reported for the zone (1996 dollars)	0, 0	NWS zone KSZ105 (JOHNSON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
1991-05-26	Thunderstorm Wind	65 kt (75 mph), measurement type not recorded	damage not recorded (pre-1996 record)	1, 0	location not recorded		deaths or injuries recorded
1978-08-26	Thunderstorm Wind	85 kt (98 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind
1974-08-19	Hail	4.5 in	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Hail
1952-05-22	Tornado	F4, 10.9 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 440 yd wide	\$250,000 property; crops not recorded (1952 dollars)	0, 1	location not recorded		B1-c worst recorded: Tornado

The full list is in the **XLSX** file, sheet "B1-d Storm Events history" (1,502 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

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
Avalanche		events per year					1994 to 2023 (30 years)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Coastal Flooding		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Cold Wave	2.26	event-days per year	about 2.26 days per year	Likely	event-days in 6 of 30 years, 1996 to 2025 (20%)	43	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 2.26 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	6.24	event-days per year	about 6.24 days per year	Likely	event-days in 7 of 30 years, 1996 to 2025 (23.3%)	343	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 6.24 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	0.001	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.1%			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	9.24	events per year	about 9.24 per year	Highly likely	FEMA annualized frequency (modeled)	351.0 (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.

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
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	0.989	event-days per year	about 0.989 days per year	Likely	event-days in 9 of 30 years, 1996 to 2025 (30%)	67	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	2.54	event-days per year	about 2.54 days per year	Highly likely	event-days in 27 of 30 years, 1996 to 2025 (90%)	71	1996 to 2023 (28 years)	see B1-f	
Landslide	0.127	events per year (modeled)	about 1 in 8 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	51.6	days per year with a strike	about 51.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	6.97	events per year	about 6.97 per year	Highly likely	FEMA annualized frequency (modeled)	266	1986 to 2023 (38 years)	countywide	
Tornado	0.322	events per year	about 1 in 3 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	0.00011	annual probability at a location	chance a given location in the county burns in a year: 0.011%		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	11.3	event-days per year	about 11.3 days per year	Likely	event-days in 20 of 30 years, 1996 to 2025 (66.7%)	214	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	293	30	9.77
Hail	2.00 in+	1996 to 2025	28	30	0.933
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	362	30	12.1
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	42	30	1.4
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	3	30	0.1

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Tornado	EF0-1	1996 to 2025	18	30	0.6
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
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 <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	0 of 154				Not Applicable 154	
Coastal Flooding	0 of 154				Not Applicable 154	
Cold Wave	154 of 154	15.7	78.5	91.3	Relatively High 83, Relatively Moderate 66, Very Low 5	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	46 of 154	67.1	70.0	83.6	Relatively Low 5, Very Low 41, No Rating 108	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	154 of 154	3.3	23.7	73.0	Relatively Low 11, Very Low 143	
Hail	154 of 154	27.2	86.4	98.5	Very High 1, Relatively High 57, Relatively Moderate 93, Relatively Low 2, 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.
Heat Wave	154 of 154	1.7	86.1	94.6	Relatively High 89, Relatively Moderate 59, Relatively Low 1, Very Low 5	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	0 of 154				No Rating 154	
Ice Storm	154 of 154	1.7	87.9	95.1	Relatively High 43, Relatively Moderate 105, Relatively Low 2, Very Low 4	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	154 of 154	0.4	40.6	91.3	Relatively High 15, Relatively Moderate 48, Relatively Low 62, Very Low 29	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Landslide	154 of 154	13.6	51.9	92.4	Relatively Low 11, Very Low 143	
Lightning	154 of 154	0.3	77.0	93.2	Relatively High 67, Relatively Moderate 77, Relatively Low 6, Very Low 4	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	154 of 154	2.5	19.5	34.7	Relatively Low 68, Very Low 86	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	154 of 154	5.3	83.2	97.5	Very High 15, Relatively High 101, Relatively Moderate 34, Relatively Low 3, Very Low 1	
Tsunami	0 of 154				Not Applicable 154	
Volcanic Activity	0 of 154				Not Applicable 154	
Wildfire	152 of 154	22.9	56.6	83.9	Relatively Low 21, Very Low 131, No Rating 2	
Winter Weather	154 of 154	18.3	96.2	98.8	Very High 91, Relatively High 59, Relatively Moderate 3, 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
Johnson County	County	Approved, expires 2029-11-07	FMA RL 0, SRL 1; any 3	\$495,195.46	0; 0	
Name not given in FEMA data (ID 2006420)	City	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible		none found	0; no approved plan	No NFIP community ID on this member's plan row.
De Soto city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 0; any 0	\$143,984.40	43; 0	
Edgerton city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 0; any 0	\$16,907.04	38; 3	
Fairway city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 2; any 8	\$459,007	16; 0	

Member	Type	Plan status	Repetitive loss	Public Assistance matched	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>federal share obligated, nominal dollars</i>	<i>all years; since the member's plan</i>	
Gardner city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 0; any 0	\$110,478.72	43; 0	
Lake Quivira city	City	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	1; no approved plan	
Leawood city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 0; any 10	\$1,963,289.15	57; 6	
Lenexa city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 0; any 1	\$949,123.37	60; 2	
Merriam city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 1; any 8	\$323,037.10	33; 7	
Mission city	City	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 3	\$579,501.11	9; no approved plan	
Mission Hills city	City	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	FMA RL 1, SRL 2; any 8	\$682,829.72	20; no approved plan	
Mission Woods city	City	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$26,100.81	0; no approved plan	
Olathe city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 1; any 2	\$918,934.38	146; 9	Includes \$5,373.05 for declarations not counted as hazard incidents (DR-4504-KS).
Overland Park city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 1; any 33	\$4,101,878.53	85; 11	
Prairie Village city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 1; any 16	\$2,430,837.55	0; 0	
Roeland Park city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 1; any 1	\$278,061.22	12; 2	
Shawnee city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 1; any 2	\$849,761.94	68; 6	
Spring Hill city	City	Plan 110182 approved 2024-11-08, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$71,326.02	34; no approved plan	
Westwood city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 0; any 1	\$95,553.64	21; 4	

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
Westwood Hills city	City	Approved, expires 2029-11-07	FMA RL 0, SRL 0; any 1	\$30,062.28	1; 0	

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

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

SOURCES

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

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

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

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

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

Local data required

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2024-11-08 <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	\$159,222,679,811	\$236,317,879	609,569	\$9,544	\$17,403	\$30,574,971	under 0.0001%				
Drought		\$7,380,098			\$18,044		0.244% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$268,384,122,380		609,863	\$1,513,915		\$293,396	0.000564%				
Hail	\$159,222,679,811	\$236,317,879	609,569	\$13,835,231	\$91,331	\$921,881	0.00869%				
Heat Wave	\$159,222,679,811	\$236,317,879	609,569	\$21,818	\$11	\$26,705,014	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2024-11-08 <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
Hurricane	\$159,222,679,811	\$236,317,879	609,569	\$0	\$0	\$0	0%				
Ice Storm	\$159,220,498,464		609,552	\$867,750		\$4,318,330	0.000545%				
Inland Flooding	\$159,171,176,888	\$12,373,217	5,037	\$103,222,474	\$354,809	\$6,644,768	n/a (see note)	\$10,000			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	\$1,983,720,637		6,740	\$3,982		\$4,050	0.000201%				
Lightning	\$159,222,679,811		609,569	\$186,354		\$4,880,273	0.000117%	\$100,000			
Strong Wind	\$159,222,679,811	\$236,317,879	609,569	\$174,943	\$42,509	\$540,944	0.00011%	\$0			
Tornado	\$159,222,679,811	\$236,317,879	609,569	\$24,100,769	\$9,131	\$31,286,923	0.0151%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$29,764,598,772	\$66,140,328	117,247	\$129,657	\$40	\$7,939	0.000436%				
Winter Weather	\$159,222,679,811	\$236,317,879	609,569	\$2,039,738	\$256	\$3,988,772	0.00128%				

Totals since 2024-11-08 (Storm Events through 2026-06-30): 113 county-coded records, 10 with a damage value recorded (including \$0), \$110,000; 4 zone-level records, 0 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance on counted declarations none found (0 declarations, 0 with PA).

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

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

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

SOURCES

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

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

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

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

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

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

Supports B2-a: context

County context

Measure	Value
Population	609,569
Building value (total, not at risk)	\$159,222,679,811
Agriculture value (total, not at risk)	\$236,317,879
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$146,639,708
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)	\$110,167,261
Social vulnerability rating	Very Low
Community resilience rating	Relatively High
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)	1	Severe repetitive loss, FMA definition (44 CFR 77.2)	11
Repetitive loss, NFIP insurance definition	96	Severe repetitive loss, NFIP insurance definition	10

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	1	11	96	10	97	2	28
JOHNSON COUNTY *	0	1	2	0	3	1	1
LEAWOOD, CITY OF	0	0	10	0	10	0	6
LENEXA, CITY OF	0	0	1	0	1	0	0
MERRIAM, CITY OF	0	1	8	1	8	0	0

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>
MISSION, CITY OF	0	0	3	0	3	0	0
MISSION HILLS, CITY OF	1	2	8	2	8	0	2
OLATHE, CITY OF	0	1	2	1	2	1	0
OVERLAND PARK, CITY OF	0	1	33	1	33	0	13
PRAIRIE VILLAGE, CITY OF	0	1	16	1	16	0	2
ROELAND PARK, CITY OF	0	1	1	1	1	0	0
SHAWNEE, CITY OF	0	1	2	1	2	0	0
WESTWOOD, CITY OF	0	0	1	0	1	0	0
WESTWOOD HILLS, CITY OF	0	0	1	0	1	0	0
FAIRWAY, CITY OF	0	2	8	2	8	0	4
State level, not in this county: county not reported	0	0	1	0	1	0	0

SOURCESFEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)**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
Johnson County	200159	0	1	2	0	3	1	1	
De Soto city	200161	0	0	0	0	0	0	0	
Edgerton city	200162	0	0	0	0	0	0	0	
Fairway city	205185	0	2	8	2	8	0	4	
Gardner city	200164	0	0	0	0	0	0	0	
Lake Quivira city	200166	0	0	0	0	0	0	0	
Leawood city	200167	0	0	10	0	10	0	6	
Lenexa city	200168	0	0	1	0	1	0	0	
Merriam city	200169	0	1	8	1	8	0	0	
Mission city	200170	0	0	3	0	3	0	0	
Mission Hills city	200171	1	2	8	2	8	0	2	
Mission Woods city	200172	0	0	0	0	0	0	0	
Olathe city	200173	0	1	2	1	2	1	0	
Overland Park city	200174	0	1	33	1	33	0	13	
Prairie Village city	200175	0	1	16	1	16	0	2	
Roeland Park city	200176	0	1	1	1	1	0	0	
Shawnee city	200177	0	1	2	1	2	0	0	
Spring Hill city	200178	0	0	0	0	0	0	0	

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
Westwood city	200179	0	0	1	0	1	0	0	
Westwood Hills city	200180	0	0	1	0	1	0	0	

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

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

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)

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	1	8	75	7	76	1	21
2 to 4 unit residential	0	0	2	0	2	0	0
other residential	0	1	4	1	4	0	2
non-residential	0	2	15	2	15	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 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 95 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)
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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_20091. Preview: automated baseline.