

Jackson County, MO

Risk-assessment baseline packet

Unit **County area 29095** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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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 2030-12-01	Plan	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)
Approved	2025-12-02	Expires	2030-12-01
As of	2026-09-28	Days	1,525 days to expiry

What changed since your last plan (approved 2025-12-02)

New federal declarations	none (0 declaration rows; 0 counted incidents)	Storm Events records since approval	9 (data through 2026-06-30)
Repetitive loss now	FMA RL 2, SRL 37 (44 CFR 77.2); any definition: 192	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: 18 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
Jackson County	County	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Blue Springs city	City	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Grandview city	City	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Greenwood city	City	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Independence city	City	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Kansas City city	City	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Lee's Summit city	City	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Levasy city	City	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Oak Grove city	City	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Raytown city	City	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Grain Valley R-V School District	School/School District	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Independence 30 School District	School/School District	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Kansas City 33 School District	School/School District	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Lee's Summit R-VII School District	School/School District	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Oak Grove R-VI School District	School/School District	Plan 110970 approved 2025-12-02, pending adoption here; not yet eligible	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970), pending adoption here	2025-12-02 by FEMA; not yet adopted here	2030-12-01 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Central Jackson County FPD	Fire/EMS District	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Metropolitan Community College	College/ University	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		
Sni Valley FPD	Fire/EMS District	Approved, expires 2030-12-01	Mid-America Regional Council (MARC) Multi-Jurisdictional HM Plan Update (FEMA plan 110970)	2025-12-02	2030-12-01	1,525		

Plan 110970 lists 35 other participants not on this page, 1 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	\$104,180,899	\$106,269	\$4,768,065	\$109,055,233	211		
2	Tornado	Very High	Very High	\$25,999,894	\$1,704	\$35,655,040	\$61,656,637	23		
3	Heat Wave	Relatively High	Relatively High	\$1,129	\$2	\$35,781,296	\$35,782,427	32		
4	Hail	Very High	Very High	\$21,277,348	\$15,662	\$137,561	\$21,430,571	492		
5	Cold Wave	Relatively High	Relatively High	\$459	\$4,476	\$14,414,334	\$14,419,269	13		Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.

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
6	Strong Wind	Relatively High	Relatively High	\$1,712,919	\$463	\$1,938,432	\$3,651,815	521		Includes 10 High Wind records and 2 Strong Wind records, event types the NRI definition of this hazard leaves out.
7	Earthquake	Relatively Low	Relatively Low	\$1,718,493		\$543,902	\$2,262,395			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
8	Lightning	Relatively High	Relatively High	\$84,017		\$1,041,408	\$1,125,426	8		
9	Ice Storm	Relatively High	Relatively High	\$413,955		\$123,694	\$537,649	13		
10	Winter Weather	Relatively High	Relatively High	\$135,873	\$52	\$338,355	\$474,280	57		
11	Drought	Relatively Low	Relatively Low		\$117,334		\$117,334	28		
12	Wildfire	Very Low	Very Low	\$38,779	\$22	\$10,102	\$48,903	2		
13	Landslide	Relatively Low	Relatively Low	\$12,530		\$10,541	\$23,071	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 227
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 227
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	227 of 227
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	54 of 227
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.	227 of 227
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	227 of 227
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	227 of 227
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 227
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	227 of 227
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.	227 of 227
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.	227 of 227
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	227 of 227
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	227 of 227
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.	227 of 227
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 227
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 227
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.	182 of 227
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	227 of 227

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	12, 1997 to 2025 (12 zone-level)	1 day to 22 days (median 3.5 days); 10 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.
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	28, 2000 to 2025 (28 zone-level)	5 days to 243 days (median 101 days); 7 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)	669, 1955 to 2026	0.75 in to 5.5 in (median 1 in); 667 with a recorded value	5.5 in hail, 2010-09-18	Hail, 2011-04-03, \$7,000,000 property; \$0 crops (2011 dollars)	Event records naming member places: Lee's Summit city (84 records), Kansas City city (68 records), Blue Springs city (66 records), Oak Grove city (31 records), Independence city (28 records), Raytown city (19 records), Grandview city (16 records), Greenwood city (16 records).	
Excessive Heat, Heat	heat index (narratives)	32, 1998 to 2023 (32 zone-level)	1 day to 14 days (median 5 days); 29 with a recorded value	14 consecutive days, 1999-07-18 to 1999-07-31, 17 direct deaths, 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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
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)	13, 1996 to 2020 (13 zone- level)		Ice Storm, 2002-01-30, \$15,000,000 property; crops not reported, reported for the zone (2002 dollars); NWS zone MOZ037 (JACKSON), 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.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	211, 1996 to 2024 (40 zone- level)		Flash Flood, 1998-10-04, \$20,000,000 property; crops not reported (1998 dollars), 9 direct deaths		Event records naming member places: Kansas City city (59 records), Grandview city (5 records), Greenwood city (5 records), Lee's Summit city (5 records), Blue Springs city (4 records), Oak Grove city (4 records), Raytown city (4 records), Independence city (2 records), Levasy city (1 record). Zone-level records (40) 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)	8, 2005 to 2018		Lightning, 2018-07-05, \$0 property; \$0 crops (2018 dollars), 1 direct death	Lightning, 2005-06-10, \$100,000 property; crops not reported (2005 dollars)	Event records naming member places: Lee's Summit city (5 records).	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)	12, 1999 to 2023 (12 zone- level)	30 kt (35 mph) to 58 kt (67 mph) (median 52 kt (60 mph)); 11 with a recorded value	58 kt (67 mph) measured gust, High Wind, 2010-06-08; NWS zone MOZ037 (JACKSON), zone-level: may include parts of neighboring counties	High Wind, 2008-03-31, \$100,000 property; \$0 crops, reported for the zone (2008 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Thunderstorm Wind	wind speed (kt and mph)	695, 1955 to 2026	50 kt (58 mph) to 103 kt (119 mph) (median 52 kt (60 mph)); 595 with a recorded value	103 kt (119 mph), measurement type not recorded, Thunderstorm Wind, 1996-05-26, 9 direct injuries		Event records naming member places: Kansas City city (77 records), Lee's Summit city (48 records), Blue Springs city (47 records), Oak Grove city (21 records), Grandview city (17 records), Greenwood city (17 records), Independence city (17 records), Raytown city (17 records), Levasy city (4 records).	
Tornado	Enhanced Fujita (F before Feb 2007)	50, 1952 to 2025	F/EF0 to F/EF5 (median F/EF1); 50 with a recorded value	F5 tornado, 1957-05-20, 12.6 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, \$2,500,000 property; crops not recorded (1957 dollars), 37 direct deaths, 176 direct injuries		Event records naming member places: Lee's Summit city (2 records), Levasy city (2 records), Oak Grove city (2 records), Blue Springs city (1 record), Raytown 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)	2, 2022 to 2022 (2 zone- level)		No damage reported in 2 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	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)	57, 1996 to 2026 (57 zone- level)		Winter Weather, 2019-02-15, \$1,000,000 property; \$0 crops, reported for the zone (2019 dollars); NWS zone MOZ037 (JACKSON), 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 rows26

Counted incidents23

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
2020-03-26	2020-01-20	DR-4490-MO	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$71,862,878.67		
2020-03-13	2020-01-20	EM-3482-MO	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4490
2019-07-09	2019-04-29	DR-4451-MO	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$609,925.51		
2015-08-07	2015-05-15	DR-4238-MO	Major disaster	SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS, AND FLOODING	Inland Flooding; Strong Wind; Tornado	\$1,366,409.37		
2011-06-30	2011-06-01	EM-3325-MO	Emergency	FLOODING	Inland Flooding	none found		
2011-02-03	2011-01-31	EM-3317-MO	Emergency	SEVERE WINTER STORM	Winter Weather	none found		
2010-08-17	2010-06-12	DR-1934-MO	Major disaster	SEVERE STORMS, FLOODING, AND TORNADOES	Inland Flooding; Tornado	\$400,306.18		
2009-01-30	2009-01-26	EM-3303-MO	Emergency	SEVERE WINTER STORM	Ice Storm	none found		
2007-12-12	2007-12-08	EM-3281-MO	Emergency	SEVERE WINTER STORMS	Ice Storm	none found		
2007-06-11	2007-05-05	DR-1708-MO	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	none placed in this county by FEMA's record; \$160,985.52 for this declaration is not placed in any county (see the list below)		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2005-09-10	2005-08-29	EM-3232-MO	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	\$158,554.93		
2004-06-11	2004-05-18	DR-1524-MO	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	PA not declared for this county		
2003-05-06	2003-05-04	DR-1463-MO	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$395,321.29		
2002-02-06	2002-01-29	DR-1403-MO	Major disaster	SEVERE WINTER ICE STORM	Ice Storm	\$32,292,236.24		
1998-10-19	1998-07-10	DR-1256-MO	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	PA not declared for this county		
1998-10-14	1998-10-04	DR-1253-MO	Major disaster	SEVERE STORMS, FLOODING AND TORNADOES	Inland Flooding; Tornado	none found		
1995-06-02	1995-05-13	DR-1054-MO	Major disaster	SEVERE STORMS, TORNADOES, HAIL, FLOODING	Hail; Inland Flooding; Tornado	PA not declared for this county		
1993-07-09	1993-06-10	DR-995-MO	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1990-05-24	1990-05-15	DR-867-MO	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1982-08-26	1982-08-26	DR-667-MO	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1977-09-14	1977-09-14	DR-538-MO	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1977-05-07	1977-05-07	DR-535-MO	Major disaster	TORNADOES & FLOODING	Tornado (primary); also designated: Inland Flooding	none found		
1976-09-24	1976-09-24	EM-3017-MO	Emergency	DROUGHT	Drought	none found		
1974-06-10	1974-06-10	DR-439-MO	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1973-04-19	1973-04-19	DR-372-MO	Major disaster	HEAVY RAINS, TORNADOES & FLOODING	Inland Flooding; Tornado	none found		
1965-07-27	1965-07-27	DR-203-MO	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		

School districts and special districts in this county: \$101,969.77 (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
1964-07-08	1964-07-08	DR-173-MO	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding		
1961-05-27	1961-05-27	DR-114-MO	Major disaster	FLOODS	Inland Flooding		
1960-04-20	1960-04-20	DR-100-MO	Major disaster	FLOODS	Inland Flooding		
1957-05-22	1957-05-22	DR-75-MO	Major disaster	TORNADOES & FLOODS	Tornado (primary); also designated: Inland Flooding		

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: 3 rows, \$263,647.35

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-4250-MO	2016-01-21	SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS, AND FLOODING	COMMERCE	\$56,189.85
DR-1961-MO	2011-03-23	SEVERE WINTER STORM AND SNOWSTORM	Lake Winnebago, City of	\$2,909.87

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-1961-MO	2011-03-23	SEVERE WINTER STORM AND SNOWSTORM	Kansas City, City of	\$204,547.63

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: 24 rows, \$2,272,582.85

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated <i>federal share obligated, nominal dollars</i>	Why not placed
4490	2020-03-26	Presbyterian Manors, Inc. (MO)	Sedgwick County	\$369,154.74	county field is a county of another state and the applicant name does not identify a place in the declaring state
4435	2019-05-20	Northwest Atchison Levee District	Fremont County	\$93,849.88	county field is a county of another state and the applicant name does not identify a place in the declaring state
4435	2019-05-20	Missouri Valley Drainage District	Fremont County	\$416,259.32	county field is a county of another state and the applicant name does not identify a place in the declaring state
4435	2019-05-20	Lewis Drainage District	Fremont County	\$111,060.76	county field is a county of another state and the applicant name does not identify a place in the declaring state
4435	2019-05-20	Hamburg Pumping Facility	Fremont County	\$0	county field is a county of another state and the applicant name does not identify a place in the declaring state
4435	2019-05-20	Buchanan Levee and Drainage District	Fremont County	\$37,254.37	county field is a county of another state and the applicant name does not identify a place in the declaring state
4012	2011-08-12	Northwest Atchison Levee District	Fremont County	\$51,527.94	county field is a county of another state and the applicant name does not identify a place in the declaring state
4012	2011-08-12	Lewis Drainage District	Fremont County	\$88,490.09	county field is a county of another state and the applicant name does not identify a place in the declaring state
4012	2011-08-12	Hamburg Pumping Facility	Fremont County	\$21,000.75	county field is a county of another state and the applicant name does not identify a place in the declaring state
4012	2011-08-12	Buchanan Levee and Drainage District	Fremont County	\$81,338.68	county field is a county of another state and the applicant name does not identify a place in the declaring state
1934	2010-08-17	Missouri Valley Drainage District	Fremont County	\$39,820.05	county field is a county of another state and the applicant name does not identify a place in the declaring state
1934	2010-08-17	Lewis Drainage District	Fremont County	\$45,161.25	county field is a county of another state and the applicant name does not identify a place in the declaring state
1934	2010-08-17	Hamburg Pumping Facility	Fremont County	\$89,457.75	county field is a county of another state and the applicant name does not identify a place in the declaring state
1934	2010-08-17	BUCHANAN LEVEE DISTRICT	Fremont County	\$79,455.75	county field is a county of another state and the applicant name does not identify a place in the declaring state
1773	2008-06-25	Northwest Atchison Levee District	Fremont County	\$3,124.50	county field is a county of another state and the applicant name does not identify a place in the declaring state
1773	2008-06-25	Missouri Valley Drainage District	Fremont County	\$8,796	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>	
1773	2008-06-25	Lewis Drainage District	Fremont County	\$190,008	county field is a county of another state and the applicant name does not identify a place in the declaring state
1773	2008-06-25	Hamburg Pumping Facility	Fremont County	\$259,200	county field is a county of another state and the applicant name does not identify a place in the declaring state
1773	2008-06-25	BUCHANAN LEVEE DISTRICT	Fremont County	\$126,637.50	county field is a county of another state and the applicant name does not identify a place in the declaring state
1708	2007-06-11	Northwest Atchison Levee District	Fremont County	\$11,315.35	county field is a county of another state and the applicant name does not identify a place in the declaring state
1708	2007-06-11	Missouri Valley Drainage District	Fremont County	\$8,932.31	county field is a county of another state and the applicant name does not identify a place in the declaring state
1708	2007-06-11	Lewis Drainage District	Fremont County	\$35,385.85	county field is a county of another state and the applicant name does not identify a place in the declaring state
1708	2007-06-11	Hamburg Pumping Facility	Fremont County	\$76,935.18	county field is a county of another state and the applicant name does not identify a place in the declaring state
1708	2007-06-11	BUCHANAN LEVEE DISTRICT	Fremont County	\$28,416.83	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	13	0	1	3	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
Drought	28	0	2	15	1	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	669	2	7	38	1	0	1955 to 2026-06-30	
Heat Wave	32	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	13	0	0	0	3	0	1996 to 2026-06-30	

Hazard	Storm Events records <i>full period</i>	Since plan approval records	During plan review records	Last 5 years records	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Inland Flooding	211	0	0	2	18	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	8	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	707	6	93	175	1	0	1955 to 2026-06-30	Includes 10 High Wind records and 2 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	50	0	2	6	9	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	2	0	0	2	0	0	1996 to 2026-06-30	
Winter Weather	57	1	0	5	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
2019-02-15	Winter Weather		\$1,000,000 property; \$0 crops, reported for the zone (2019 dollars)	0, 0	NWS zone MOZ037 (JACKSON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2018-07-05	Lightning		\$0 property; \$0 crops (2018 dollars)	1, 0	CEMENT CITY		B1-c worst recorded: Lightning
2012-07-01	Drought		\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone MOZ037 (JACKSON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Drought
2011-04-03	Hail	2.5 in	\$7,000,000 property; \$0 crops (2011 dollars)	0, 0	SOUTH LEE		B1-c most damaging: Hail
2010-09-18	Hail	5.5 in	\$1,000,000 property; \$0 crops (2010 dollars)	0, 0	CEMENT CITY		B1-c worst recorded: Hail

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2010-06-08	High Wind	58 kt (67 mph) measured gust	\$0 property; \$0 crops, reported for the zone (2010 dollars)	0, 0	NWS zone MOZ037 (JACKSON), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2002-01-30	Ice Storm		\$15,000,000 property; crops not reported, reported for the zone (2002 dollars)	0, 0	NWS zone MOZ037 (JACKSON), 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 MOZ037 (JACKSON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1999-07-18	Heat		damage not reported	17, 0	NWS zone MOZ037 (JACKSON), zone-level: may include parts of neighboring counties		deaths or injuries recorded
1998-10-04	Flash Flood		\$20,000,000 property; crops not reported (1998 dollars)	9, 0	KANSAS CITY		deaths or injuries recorded
1996-05-26	Thunderstorm Wind	103 kt (119 mph), measurement type not recorded	\$10,000,000 property; crops not reported (1996 dollars)	0, 9	LEE'S SUMMIT		B1-c worst recorded: Thunderstorm Wind
1957-05-20	Tornado	F5, 12.6 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	\$2,500,000 property; crops not recorded (1957 dollars)	37, 176	location not recorded		deaths or injuries recorded

The full list is in the XLSX file, sheet "B1-d Storm Events history" (1,790 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.

FEMA's declaration data list no tribal or special-area declarations for this state.

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 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.

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
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 8 of 30 years, 1996 to 2025 (26.7%)	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 8 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	7.28	event-days per year	about 7.28 days per year	Likely	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	420	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 7.28 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 8 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	0.00117	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.117%			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	8.17	events per year	about 8.17 per year	Highly likely	FEMA annualized frequency (modeled)	310.5 (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 14 of 30 years, 1996 to 2025 (46.7%)	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 14 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	0.925	event-days per year	about 0.925 days per year	Likely	event-days in 11 of 30 years, 1996 to 2025 (36.7%)	63	1946-12-31 to 2014-02-12 (67 years)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Inland Flooding	4.36	event-days per year	about 4.36 days per year	Likely	event-days in 26 of 30 years, 1996 to 2025 (86.7%)	122	1996 to 2023 (28 years)	see B1-f	
Landslide	0.287	events per year (modeled)	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	50.4	days per year with a strike	about 50.4 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	6.19	events per year	about 6.19 per year	Highly likely	FEMA annualized frequency (modeled)	236	1986 to 2023 (38 years)	countywide	
Tornado	0.384	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	0.000178	annual probability at a location	chance a given location in the county burns in a year: 0.0178%	Possible	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Winter Weather	11.2	event-days per year	about 11.2 days per year	Likely	event-days in 22 of 30 years, 1996 to 2025 (73.3%)	213	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	258	30	8.6
Hail	2.00 in+	1996 to 2025	24	30	0.8
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	460	30	15.3
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	35	30	1.17
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	8	30	0.267
Tornado	EF0-1	1996 to 2025	20	30	0.667
Tornado	EF2-3	1996 to 2025	3	30	0.1
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 227				Not Applicable 227	
Coastal Flooding	0 of 227				Not Applicable 227	
Cold Wave	227 of 227	15.7	54.4	78.3	Relatively High 1, Relatively Moderate 158, Relatively Low 63, 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	54 of 227	67.0	75.0	93.1	Relatively Moderate 1, Relatively Low 12, Very Low 41, No Rating 173	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	227 of 227	2.3	22.2	71.6	Relatively Low 21, Very Low 206	
Hail	227 of 227	41.9	88.3	99.5	Very High 2, Relatively High 107, Relatively Moderate 113, Relatively 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.
Heat Wave	227 of 227	1.7	87.1	96.0	Relatively High 140, Relatively Moderate 82, 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 227				No Rating 227	
Ice Storm	227 of 227	1.8	27.5	75.1	Relatively Moderate 1, Relatively Low 73, Very Low 153	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	227 of 227	0.3	27.5	99.1	Very High 3, Relatively High 10, Relatively Moderate 36, Relatively Low 109, Very Low 69	
Landslide	227 of 227	17.1	64.2	95.2	Relatively Low 34, Very Low 193	
Lightning	227 of 227	0.3	26.8	52.2	Relatively Moderate 1, Relatively Low 174, Very Low 52	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	227 of 227	5.2	47.5	81.9	Relatively Moderate 57, Relatively Low 165, 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.
Tornado	227 of 227	14.6	81.2	99.1	Very High 12, Relatively High 145, Relatively Moderate 65, Relatively Low 1, Very Low 4	
Tsunami	0 of 227				Not Applicable 227	
Volcanic Activity	0 of 227				Not Applicable 227	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Wildfire	182 of 227	19.0	43.0	79.6	Relatively Low 6, Very Low 176, No Rating 45	
Winter Weather	227 of 227	14.2	44.4	65.7	Relatively Moderate 77, Relatively Low 145, 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.

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
Jackson County	County	Approved, expires 2030-12-01	FMA RL 0, SRL 1; any 2	\$831,064.51	0; 0	
Blue Springs city	City	Approved, expires 2030-12-01	FMA RL 0, SRL 0; any 3	\$1,252,824.04	118; 0	
Grandview city	City	Approved, expires 2030-12-01	FMA RL 0, SRL 0; any 4	\$575,051.34	38; 0	
Greenwood city	City	Approved, expires 2030-12-01	FMA RL 0, SRL 0; any 0	\$87,003.09	38; 0	
Independence city	City	Approved, expires 2030-12-01	FMA RL 0, SRL 1; any 18	\$10,301,970.59	47; 1	Includes \$352,479.97 for declarations not counted as hazard incidents (DR-4490-MO).
Kansas City city	City	Approved, expires 2030-12-01	FMA RL 2, SRL 32; any 152	\$18,974,250.77	204; 4	Whole community, including the part in Clay County and Platte County; in-county portion (county table): FMA RL 2, FMA SRL 27, NFIP RL 127, NFIP SRL 24, any category 130. Includes \$511,535.68 for declarations not counted as hazard incidents (DR-4490-MO, EM-3232-MO).
Lee's Summit city	City	Approved, expires 2030-12-01	FMA RL 0, SRL 3; any 8	\$1,377,252.73	144; 1	
Levasy city	City	Approved, expires 2030-12-01	FMA RL 0, SRL 1; any 3	\$63,360.79	7; 0	
Oak Grove city	City	Approved, expires 2030-12-01	FMA RL 0, SRL 0; any 1	\$147,839.78	58; 0	
Raytown city	City	Approved, expires 2030-12-01	FMA RL 0, SRL 3; any 17	\$1,137,984.24	41; 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 2025-12-02 <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	\$152,564,277,575	\$48,387,508	716,764	\$459	\$4,476	\$14,414,334	under 0.0001%				
Drought		\$31,478,552			\$117,334		0.373% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$265,786,063,520		717,204	\$1,718,493		\$543,902	0.000647%				
Hail	\$152,564,277,575	\$48,387,508	716,764	\$21,277,348	\$15,662	\$137,561	0.0139%				
Heat Wave	\$152,564,277,575	\$48,387,508	716,764	\$1,129	\$2	\$35,781,296	under 0.0001%				
Hurricane	\$152,564,277,575	\$48,387,508	716,764	\$0	\$0	\$0	0%				
Ice Storm	\$152,562,741,302		716,752	\$413,955		\$123,694	0.000271%				
Inland Flooding	\$152,467,935,186	\$9,459,852	6,357	\$104,180,899	\$106,269	\$4,768,065	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	\$2,767,767,000		12,874	\$12,530		\$10,541	0.000453%				
Lightning	\$152,564,277,575		716,764	\$84,017		\$1,041,408	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 2025-12-02 <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
Strong Wind	\$152,564,277,575	\$48,387,508	716,764	\$1,712,919	\$463	\$1,938,432	0.00112%				
Tornado	\$152,564,277,575	\$48,387,508	716,764	\$25,999,894	\$1,704	\$35,655,040	0.017%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$20,417,022,107	\$10,991,290	108,148	\$38,779	\$22	\$10,102	0.00019%				
Winter Weather	\$152,564,277,575	\$48,387,508	716,764	\$135,873	\$52	\$338,355	under 0.0001%				

Totals since 2025-12-02 (Storm Events through 2026-06-30): 8 county-coded records, 0 with a damage value recorded (including \$0), \$0; 1 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	716,764
Building value (total, not at risk)	\$152,564,277,575
Agriculture value (total, not at risk)	\$48,387,508
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$155,822,280
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)	\$94,762,732
Social vulnerability rating	Relatively Low

Measure	Value
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)	2	Severe repetitive loss, FMA definition (44 CFR 77.2)	37
Repetitive loss, NFIP insurance definition	187	Severe repetitive loss, NFIP insurance definition	32

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	2	37	187	32	192	4	33
BLUE SPRINGS, CITY OF	0	0	3	0	3	0	1
BUCKNER, CITY OF (community ID not in plan data)	0	0	2	0	2	0	1
GRANDVIEW, CITY OF	0	0	4	0	4	0	1
INDEPENDENCE,CITY OF	0	1	18	1	18	0	4
KANSAS CITY, CITY OF	2	27	127	24	130	3	24
LEE'S SUMMIT, CITY OF	0	3	7	2	8	1	1
LEVASY, CITY OF	0	1	3	1	3	0	0
RAYTOWN, CITY OF	0	3	16	2	17	0	0
SUGAR CREEK, CITY OF (community ID not in plan data)	0	1	2	1	2	0	1
JACKSON COUNTY *	0	1	2	1	2	0	0
OAK GROVE, CITY OF	0	0	1	0	1	0	0
LAKE LOTAWANA, CITY OF (community ID not in plan data)	0	0	1	0	1	0	0
Unknown (community ID Unknown in FEMA data)	0	0	1	0	1	0	0
State level, not in this county: county not reported	0	0	3	0	3	0	0

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

Repeat-flood properties by plan member (NFIP community)

Member	NFIP community ID	RL, FMA properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties	Note
Jackson County	290492	0	1	2	1	2	0	0	
Blue Springs city	290169	0	0	3	0	3	0	1	
Grandview city	290171	0	0	4	0	4	0	1	
Greenwood city	290711	0	0	0	0	0	0	0	
Independence city	290172	0	1	18	1	18	0	4	
Kansas City city	290173	2	32	149	29	152	3	28	Whole community, including the part in Clay County and Platte County; in-county portion (county table): FMA RL 2, FMA SRL 27, NFIP RL 127, NFIP SRL 24, any category 130.
Lee's Summit city	290174	0	3	7	2	8	1	1	
Levasy city	290175	0	1	3	1	3	0	0	
Oak Grove city	290694	0	0	1	0	1	0	0	
Raytown city	290176	0	3	16	2	17	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 properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties
single-family residential	2	6	98	6	98	0	18
2 to 4 unit residential	0	0	3	0	3	0	1
other residential	0	3	11	2	12	0	3
non-residential	0	28	75	24	79	4	11
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 fmaRL field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRL) 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 185 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_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

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Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_MO_29095. Preview: automated baseline.