

Jasper County, MO

Risk-assessment baseline packet

Unit **County area 29097** 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.

OPENFEMA DISCLAIMER

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Plan clock

Status	Expired on 2026-05-10	Plan	Jasper/Newton County HMP (2021) (FEMA plan 107480)
Approved	2021-05-10	Expires	2026-05-10
As of	2026-09-28	Days	141 days since expiry
Update underway	none in FEMA's plan tracker		

Generally not eligible for FEMA mitigation project grants (HMGP, FMA) until a new plan is approved, barring a 44 CFR 201.6(a)(3) exception. Planning grants are not affected.

What changed since your last plan (approved 2021-05-10)

New federal declarations	DR-4929-MO (1 declaration row; 1 counted incident)	Storm Events records since approval	241 (data through 2026-06-30)
Repetitive loss now	FMA RL 0, SRL 2 (44 CFR 77.2); any definition: 19	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: 33 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.

CONTENTS

1. Plan clock, page 1
2. What changed since your last plan (approved 2021-05-10), page 1
3. Supports B1-a: hazards, page 3
4. Supports B1-b: location, page 5
5. Supports B1-c: extent, page 6
6. Supports B1-d: previous occurrences, page 9
7. Supports B1-e: probability, page 15
8. Supports B1-f: variation across the planning area, page 19
9. Supports B2-a and B2-b: assets and impacts, page 21
10. Supports B2-a: context, page 23
11. Supports B2-c: repetitive loss, page 24
12. Sources and OpenFEMA disclaimer, page 26

Plan clock

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Jasper County (unincorporated area)	Unincorporated	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Airport Drive village	Village	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Alba city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Asbury city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Avilla town	Town	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Brooklyn Heights town	Town	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Carl Junction city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Cartersville city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Carthage city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Duenweg city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		member approved 2021-06-28
Duquesne village	Village	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Fidelity town	Town	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Jasper city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Joplin city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		member approved 2021-05-05
Neck City city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Oronogo city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Purcell city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Sarcoie city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Waco city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Webb City city	City	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		member approved 2021-04-22
Avilla R-XIII School District	School/School District	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Carl Junction R-I School District	School/School District	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Carthage R-IX School District	School/School District	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Jasper County R-V School District	School/School District	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Joplin School District	School/School District	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Sarcoxie R-II School District	School/School District	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Webb City R-VII School District	School/School District	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Crowder College	College/University	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Martin Luther School	School/School District	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Missouri Southern State University	College/University	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Ozark Christian College	College/University	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
St. Ann's Catholic School	School/School District	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		
Vatterot College	College/University	Expired on 2026-05-10	Jasper/Newton County HMP (2021) (FEMA plan 107480)	2021-05-10	2026-05-10	-141		

Plan 107480 also lists 23 other participants not listed on this page (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 Moderate	Relatively Moderate	\$24,386,669	\$908,254	\$1,087,207	\$26,382,130	242		
2	Tornado	Relatively High	Relatively High	\$5,660,084	\$3,865	\$7,657,285	\$13,321,235	24		
3	Heat Wave	Relatively Moderate	Relatively Moderate	\$16,982	\$6	\$5,358,302	\$5,375,290	12		
4	Ice Storm	Very High	Very High	\$2,162,516		\$93,021	\$2,255,537	8		
5	Cold Wave	Relatively Moderate	Relatively Moderate	\$684	\$381,341	\$1,817,079	\$2,199,104	10		Includes 3 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
6	Drought	Relatively High	Relatively High		\$2,044,724		\$2,044,724	38		
7	Strong Wind	Relatively High	Relatively High	\$657,942	\$17,243	\$1,234,216	\$1,909,402	361		Includes 13 High Wind records, event types the NRI definition of this hazard leaves out.
8	Hail	Relatively Moderate	Relatively Moderate	\$1,856,619	\$5,119	\$25,553	\$1,887,291	270		
9	Earthquake	Relatively Low	Relatively Low	\$1,173,822		\$331,473	\$1,505,295			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
10	Lightning	Relatively High	Relatively High	\$62,706		\$1,057,276	\$1,119,982	18		
11	Winter Weather	Relatively High	Relatively High	\$305,828	\$126	\$32,889	\$338,843	51		
12	Wildfire	Relatively Low	Relatively Low	\$110,276	\$132	\$22,721	\$133,129	1		
13	Hurricane	Very Low	Very Low	\$22,803	\$4,882	\$153	\$27,838	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$377		\$11	\$387	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.
	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).

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
	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 29
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 29
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	29 of 29
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	17 of 29
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.	29 of 29
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	29 of 29
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	29 of 29
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.	29 of 29
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	29 of 29
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.	29 of 29
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.	29 of 29
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	29 of 29

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	29 of 29
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.	29 of 29
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 29
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 29
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.	26 of 29
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	29 of 29

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	7, 2000 to 2025 (7 zone-level)	1 day to 23 days (median 2.5 days); 6 with a recorded value	23 days, 2000-12-12 to 2001-01-03, from 2 records, 1 of them a monthly summary (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	3, 2007 to 2021 (3 zone-level)		Frost/Freeze, 2007-04-07, \$6,800,000 crop damage, reported for the zone (2007 dollars); NWS zone MOZ088 (JASPER), zone-level: may include parts of neighboring counties		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	38, 1999 to 2026 (38 zone-level)	31 days to 243 days (median 68.5 days); 12 with a recorded value	243 days (8 months), 2022-07-01 to 2023-02-28, a run of 8 consecutive Storm Events drought records, zone-level	Drought, 2012-08-01, \$2,500,000 property; \$29,650,000 crops, reported for the zone (2012 dollars)	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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Earthquake	Modified Mercalli (local data)	0					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	341, 1955 to 2026	0.75 in to 4.5 in (median 1 in); 341 with a recorded value	4.5 in hail, 2003-05-06	Hail, 2020-05-03, \$2,000,000 property; \$0 crops (2020 dollars)	Event records naming member places: Joplin city (51 records), Sarcoxie city (29 records), Carthage city (26 records), Carl Junction city (21 records), Webb City city (18 records), Duenweg city (14 records), Jasper city (14 records), Oronogo city (14 records), Cartersville city (13 records), Asbury city (7 records); and 6 more member places (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	12, 1999 to 2022 (12 zone-level)	1 day to 92 days (median 9 days); 7 with a recorded value	92 days, 2012-06-01 to 2012-08-31, from 3 monthly summary records (a monthly summary record covers most or all of a month; it does not count days at wave conditions), zone-level	Excessive Heat, 2011-08-03, \$324,000 property; \$0 crops, reported for the zone (2011 dollars)	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)	8, 1996 to 2019 (8 zone-level)		Ice Storm, 2007-12-09, \$5,000,000 property; \$0 crops, reported for the zone (2007 dollars); NWS zone MOZ088 (JASPER), 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)	242, 1996 to 2026 (7 zone-level)		Flood, 2015-12-27, \$1,000,000 property; \$0 crops (2015 dollars)		Event records naming member places: Joplin city (36 records), Carthage city (20 records), Alba city (19 records), Jasper city (16 records), Duquesne village (11 records), Oronogo city (10 records), Webb City city (10 records), Asbury city (8 records), Carl Junction city (7 records), Avilla town (5 records); and 8 more member places (see the XLSX file). Zone-level records (7) 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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
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)	18, 1996 to 2023		Lightning, 2011-05-23, \$0 property; \$0 crops (2011 dollars), 1 direct death, 1 direct injury	Lightning, 2014-08-07, \$1,000,000 property; \$0 crops (2014 dollars)	Event records naming member places: Joplin city (7 records), Carthage city (3 records), Duenweg city (2 records), Sarcoxie city (2 records), Carl Junction city (1 record), Cartersville city (1 record), Webb City 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)	13, 1996 to 2025 (13 zone-level)	50 kt (58 mph) to 67 kt (77 mph) (median 52 kt (60 mph)); 11 with a recorded value	67 kt (77 mph) measured gust, High Wind, 2005-11-27; NWS zone MOZ088 (JASPER), zone-level: may include parts of neighboring counties	High Wind, 2015-11-11, \$50,000 property; \$0 crops, reported for the zone (2015 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	456, 1957 to 2026	50 kt (58 mph) to 90 kt (104 mph) (median 52 kt (60 mph)); 372 with a recorded value	90 kt (104 mph), measurement type not recorded, Thunderstorm Wind, 1973-05-11	Thunderstorm Wind, 2009-05-08, \$3,000,000 property; \$0 crops (2009 dollars)	Event records naming member places: Carthage city (66 records), Joplin city (62 records), Sarcoxie city (30 records), Jasper city (24 records), Webb City city (24 records), Duquesne village (15 records), Oronogo city (14 records), Carl Junction city (13 records), Alba city (11 records), Asbury city (8 records); and 7 more member places (see the XLSX file).	Speeds under 20 kt (likely entry errors) are left out of the observed range.
Tornado	Enhanced Fujita (F before Feb 2007)	54, 1951 to 2026	F/EF0 to F/EF5 (median F/EF1); 53 with a recorded value	EF5 tornado, 2011-05-22, 8.8 mi within this county, 1,600 yd wide, \$2,800,000,000 property; \$0 crops (2011 dollars), 158 direct deaths, 1150 direct injuries		Event records naming member places: Joplin city (5 records), Jasper city (3 records), Carl Junction city (2 records), Cartersville city (2 records), Duenweg city (2 records), Oronogo city (2 records), Avilla town (1 record), Carthage city (1 record), Fidelity town (1 record), Waco 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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Wildfire	acres burned (local data)	1, 2006 to 2006 (1 zone- level)		No damage reported in 1 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)	51, 1997 to 2026 (51 zone- level)		Winter Storm, 1999-01-01, \$125,000 property; crops not reported, reported for the zone (1999 dollars); NWS zone MOZ088 (JASPER), 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 rows 23 Counted incidents 18

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
2026-08-03	2026-06-04	DR-4929-MO	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, AND FLOODING	Inland Flooding; Strong Wind; Tornado	not yet in FEMA's PA summaries (they cover declarations through 2026-06-30)	new since last plan; within last 5 years	
2020-03-26	2020-01-20	DR-4490-MO	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$2,276,240.54		
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	\$179,450.23		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2017-06-02	2017-04-28	DR-4317-MO	Major disaster	SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS AND FLOODING	Inland Flooding (primary); also designated: Strong Wind, Tornado	PA not declared for this county		
2016-01-21	2015-12-23	DR-4250-MO	Major disaster	SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS, AND FLOODING	Inland Flooding (primary); also designated: Strong Wind, Tornado	\$362,082.45		
2016-01-02	2015-12-22	EM-3374-MO	Emergency	SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS, AND FLOODING	Inland Flooding (primary); also designated: Strong Wind, Tornado	none found		same incident as DR-4250
2011-05-09	2011-04-19	DR-1980-MO	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$115,453,571.45		
2011-02-03	2011-01-31	EM-3317-MO	Emergency	SEVERE WINTER STORM	Winter Weather	none found		
2009-06-19	2009-05-08	DR-1847-MO	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$371,915.31		
2009-01-30	2009-01-26	EM-3303-MO	Emergency	SEVERE WINTER STORM	Ice Storm	none found		
2008-05-23	2008-05-10	DR-1760-MO	Major disaster	SEVERE STORMS AND TORNADOES	Tornado	PA not declared for this county		
2008-03-19	2008-03-17	DR-1749-MO	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$171,768		
2007-12-27	2007-12-06	DR-1736-MO	Major disaster	SEVERE WINTER STORMS	Ice Storm	\$3,999,251.40		
2007-12-12	2007-12-08	EM-3281-MO	Emergency	SEVERE WINTER STORMS	Ice Storm	none found		same incident as DR-1736
2007-01-15	2007-01-12	DR-1676-MO	Major disaster	SEVERE WINTER STORMS AND FLOODING	Ice Storm	\$402,296.64		
2005-09-10	2005-08-29	EM-3232-MO	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	none found		
2003-05-06	2003-05-04	DR-1463-MO	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$1,059,998		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2002-05-06	2002-04-24	DR-1412-MO	Major disaster	SEVERE STORMS, TORNADOES AND FLOODING	Inland Flooding; Tornado	\$28,588.68		FEMA's declaration record does not list Public Assistance, but FEMA's PA project summaries show obligations for this county
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	PA not declared for this county		
1976-07-21	1976-07-21	DR-516-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		

School districts and special districts in this county: \$72,259.46 (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, \$70,788.59

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	FREEMAN HOSPITAL	\$32,517.98
DR-1773-MO	2008-06-25	SEVERE STORMS AND FLOODING	Clearmont, City of	\$4,485

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-1728-MO	2007-09-21	SEVERE STORMS AND FLOODING	Vineyard Benefit Special Road District	\$33,785.61

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 records	During plan review records	Last 5 years records	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	4	2	4	0	0	1996 to 2026-06-30	Includes 3 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
Drought	38	17	1	17	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	341	28	3	28	1	0	1955 to 2026-06-30	
Heat Wave	12	1	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	8	0	0	0	3	0	1996 to 2026-06-30	

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Inland Flooding	242	59	4	51	13	1	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	18	2	1	1	0	0	1996 to 2026-06-30	
Strong Wind	469	106	11	104	3	1	1955 to 2026-06-30	Includes 13 High Wind records, event types the NRI definition of this hazard leaves out.
Tornado	54	7	0	7	11	1	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	1	0	0	0	0	0	1996 to 2026-06-30	
Winter Weather	51	17	7	17	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
2022-07-01	Drought		\$0 property; \$0 crops, reported for the zone (2022 dollars)	0, 0	NWS zone MOZ088 (JASPER), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: Drought
2015-12-27	Flood		\$1,000,000 property; \$0 crops (2015 dollars)	0, 0	CARTHAGE to MORGAN HGTS		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2012-06-01	Heat		\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone MOZ088 (JASPER), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2011-05-22	Tornado	EF5, 8.8 mi within this county, 1,600 yd wide	\$2,800,000,000 property; \$0 crops (2011 dollars)	158, 1150	CENTRAL CITY to DUENWEG		deaths or injuries recorded
2007-12-09	Ice Storm		\$5,000,000 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone MOZ088 (JASPER), zone-level: may include parts of neighboring counties		B1-c worst recorded: Ice Storm

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2007-04-07	Frost/Freeze		\$0 property; \$6,800,000 crops, reported for the zone (2007 dollars)	0, 0	NWS zone MOZ088 (JASPER), zone-level: may include parts of neighboring counties		B1-c worst recorded: Frost/Freeze (outside NRI Cold Wave definition)
2005-11-27	High Wind	67 kt (77 mph) measured gust	damage not reported	0, 0	NWS zone MOZ088 (JASPER), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2003-05-06	Hail	4.5 in	damage not reported	0, 0	ASBURY		B1-c worst recorded: Hail
2003-05-04	Tornado	F3, 5 mi within this county, 880 yd wide	\$21,200,000 property; crops not reported (2003 dollars)	2, 15	CARL JCT		deaths or injuries recorded
2000-12-12	Extreme Cold/ Wind Chill		\$0 property; \$0 crops, reported for the zone (2000 dollars)	0, 0	NWS zone MOZ088 (JASPER), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1999-07-23	Heat		damage not reported	3, 0	NWS zone MOZ088 (JASPER), zone-level: may include parts of neighboring counties		deaths or injuries recorded
1973-05-11	Thunderstorm Wind	90 kt (104 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind

The full list is in the **XLSX** file, sheet **"B1-d Storm Events history" (1,244 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	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	2.21	event-days per year	about 2.21 days per year	Likely	event-days in 6 of 30 years, 1996 to 2025 (20%)	42	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 2.21 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	12.5	event-days per year	about 12.5 days per year	Likely	event-days in 11 of 30 years, 1996 to 2025 (36.7%)	392	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 12.5 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 11 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	0.00158	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.158%			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	7.47	events per year	about 7.47 per year	Highly likely	FEMA annualized frequency (modeled)	283.9 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	16.4	event-days per year	about 16.4 days per year	Likely	event-days in 6 of 30 years, 1996 to 2025 (20%)	205	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 16.4 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 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.
Hurricane	0.01	events per year	about 1 in 100 years	Possible	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.

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
Ice Storm	1.13	event-days per year	about 1.13 days per year	Likely	event-days in 6 of 30 years, 1996 to 2025 (20%)	77	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 1.13 ice storm event-days a year here (its annualized frequency over 67 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.
Inland Flooding	4.86	event-days per year	about 4.86 days per year	Highly likely	event-days in 29 of 30 years, 1996 to 2025 (96.7%)	136	1996 to 2023 (28 years)	see B1-f	
Landslide	0.128	events per year (modeled)	about 1 in 8 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	55.5	days per year with a strike	about 55.5 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	6.02	events per year	about 6.02 per year	Highly likely	FEMA annualized frequency (modeled)	229	1986 to 2023 (38 years)	countywide	
Tornado	0.522	events per year	about 0.52 per year	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	0.000894	annual probability at a location	chance a given location in the county burns in a year: 0.0894%	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	10.5	event-days per year	about 10.5 days per year	Likely	event-days in 23 of 30 years, 1996 to 2025 (76.7%)	199	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	138	30	4.6
Hail	2.00 in+	1996 to 2025	19	30	0.633
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	277	30	9.23
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	19	30	0.633
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	30	30	1
Tornado	EF0-1	1996 to 2025	17	30	0.567
Tornado	EF2-3	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	EF4-5	1996 to 2025	1	30	0.0333
Tornado	unrated (EFU)	1996 to 2025	1	30	0.0333

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 29				Not Applicable 29	
Coastal Flooding	0 of 29				Not Applicable 29	
Cold Wave	29 of 29	32.3	59.3	83.2	Relatively High 1, Relatively Moderate 26, Relatively Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	17 of 29	72.0	89.5	99.2	Relatively High 3, Relatively Moderate 2, Relatively Low 8, Very Low 4, No Rating 12	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	29 of 29	35.4	59.2	76.3	Relatively Low 26, Very Low 3	
Hail	29 of 29	73.3	86.4	94.9	Relatively High 7, Relatively Moderate 22	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	29 of 29	66.5	90.8	95.6	Relatively High 26, Relatively Moderate 3	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	29 of 29	26.7	33.6	42.5	Very Low 29	
Ice Storm	29 of 29	89.5	96.0	99.0	Very High 5, Relatively High 23, Relatively Moderate 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.
Inland Flooding	29 of 29	20.2	74.7	91.5	Relatively High 12, Relatively Moderate 14, Relatively Low 3	
Landslide	29 of 29	17.1	51.1	79.5	Very Low 29	
Lightning	29 of 29	54.4	87.2	96.3	Very High 1, Relatively High 25, Relatively Moderate 3	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	29 of 29	60.7	84.3	93.6	Relatively High 18, Relatively Moderate 11	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.

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Tornado	29 of 29	70.9	93.2	99.2	Very High 14, Relatively High 14, Relatively Moderate 1	
Tsunami	0 of 29				Not Applicable 29	
Volcanic Activity	0 of 29				Not Applicable 29	
Wildfire	26 of 29	22.3	77.7	87.6	Relatively Low 20, Very Low 6, No Rating 3	
Winter Weather	29 of 29	63.7	85.2	95.5	Relatively High 23, Relatively Moderate 6	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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
Jasper County (unincorporated area)	Unincorporated	Expired on 2026-05-10	FMA RL 0, SRL 0; any 8	\$527,729.95	0; 0	
Airport Drive village	Village	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	\$63,755.40	0; 0	
Alba city	City	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	\$22,542.17	32; 8	
Asbury city	City	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	\$13,172.63	23; 3	
Avilla town	Town	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	none found	18; 1	
Brooklyn Heights town	Town	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	none found	9; 3	
Carl Junction city	City	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	\$1,432,215.42	44; 5	
Cartersville city	City	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	\$59,424.31	24; 7	
Carthage city	City	Expired on 2026-05-10	FMA RL 0, SRL 1; any 4	\$482,674.32	116; 12	

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
Duenweg city	City	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	\$31,112.88	30; 6	
Duquesne village	Village	Expired on 2026-05-10	FMA RL 0, SRL 1; any 1	\$332,082.95	32; 9	
Fidelity town	Town	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	none found	12; 3	
Jasper city	City	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	\$102,163.35	57; 11	
Joplin city	City	Expired on 2026-05-10	FMA RL 1, SRL 2; any 7	\$10,627,417.83	161; 26	Whole community, including the part in Newton County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 5, NFIP SRL 0, any category 5.
Neck City city	City	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	\$17,053.67	13; 3	
Oronogo city	City	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	\$85,584.50	40; 11	
Purcell city	City	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	\$12,112.50	1; 0	
Sarcoxie city	City	Expired on 2026-05-10	FMA RL 0, SRL 0; any 1	\$41,724.45	66; 16	
Waco city	City	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	\$3,239.63	14; 1	
Webb City city	City	Expired on 2026-05-10	FMA RL 0, SRL 0; any 0	\$824,561.04	53; 12	

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 2021-05-10 <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	\$27,640,036,673	\$125,185,028	122,722	\$684	\$381,341	\$1,817,079	under 0.0001%		\$0		
Drought		\$53,288,512			\$2,044,724		3.84% (agriculture)		\$16,900,000		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$49,512,753,111		122,761	\$1,173,822		\$331,473	0.00237%				
Hail	\$27,640,036,673	\$125,185,028	122,722	\$1,856,619	\$5,119	\$25,553	0.00672%	\$160,000			
Heat Wave	\$27,640,036,673	\$125,185,028	122,722	\$16,982	\$6	\$5,358,302	under 0.0001%		\$0		
Hurricane	\$27,640,036,673	\$125,185,028	122,722	\$22,803	\$4,882	\$153	under 0.0001%				
Ice Storm	\$27,639,807,931		122,720	\$2,162,516		\$93,021	0.00782%				
Inland Flooding	\$27,627,966,348	\$16,362,214	2,205	\$24,386,669	\$908,254	\$1,087,207	n/a (see note)	\$5,000		none found (1 declaration)	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	\$142,984,610		552	\$377		\$11	0.000263%				
Lightning	\$27,640,036,673		122,722	\$62,706		\$1,057,276	0.000227%	\$15,000			
Strong Wind	\$27,640,036,673	\$125,185,028	122,722	\$657,942	\$17,243	\$1,234,216	0.00238%	\$1,525,000	\$8,000	none found (1 declaration)	Storm Events damage since the plan includes 1 zone-level High Wind record (\$8,000), an event type the NRI definition of this hazard leaves out.
Tornado	\$27,640,036,673	\$125,185,028	122,722	\$5,660,084	\$3,865	\$7,657,285	0.0205%	\$1,150,000		none found (1 declaration)	

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 2021-05-10 <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
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$1,240,538,260	\$21,851,691	12,810	\$110,276	\$132	\$22,721	0.00889%				
Winter Weather	\$27,640,036,673	\$125,185,028	122,722	\$305,828	\$126	\$32,889	0.00111%		\$0		

Totals since 2021-05-10 (Storm Events through 2026-06-30): 198 county-coded records, 198 with a damage value recorded (including \$0), \$2,855,000; 43 zone-level records, 36 with a damage value recorded (including \$0), \$16,908,000 reported for the zone; Public Assistance on counted declarations none found (1 declaration, 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	122,722
Building value (total, not at risk)	\$27,640,036,673
Agriculture value (total, not at risk)	\$125,185,028
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$39,783,000
Expected annual loss, population equivalence, all hazards (NRI values each statistical life at \$13.7M; a modeled value of expected deaths and injuries, not property damage)	\$18,717,186
Social vulnerability rating	Relatively Low
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)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	2
Repetitive loss, NFIP insurance definition	19	Severe repetitive loss, NFIP insurance definition	2

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	0	2	19	2	19	0	5
CARTHAGE, CITY OF	0	1	4	1	4	0	2
JOPLIN, CITY OF	0	0	5	0	5	0	1
SARCOXIE, CITY OF	0	0	1	0	1	0	0
DUQUESNE, CITY OF	0	1	1	1	1	0	0
JASPER COUNTY*	0	0	8	0	8	0	2
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)
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
Jasper County (unincorporated area)	290807	0	0	8	0	8	0	2	
Airport Drive village	290761	0	0	0	0	0	0	0	
Alba city	290954	0	0	0	0	0	0	0	
Asbury city	290765	0	0	0	0	0	0	0	
Avilla town	290324	0	0	0	0	0	0	0	

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
Brooklyn Heights town	290334	0	0	0	0	0	0	0	
Carl Junction city	290179	0	0	0	0	0	0	0	
Cartersville city	290180	0	0	0	0	0	0	0	
Carthage city	290181	0	1	4	1	4	0	2	
Duenweg city	290182	0	0	0	0	0	0	0	
Duquesne village	290728	0	1	1	1	1	0	0	
Fidelity town	290426	0	0	0	0	0	0	0	
Jasper city	290722	0	0	0	0	0	0	0	
Joplin city	290183	1	2	7	2	7	0	2	Whole community, including the part in Newton County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 5, NFIP SRL 0, any category 5.
Neck City city	290376	0	0	0	0	0	0	0	
Oronogo city	290185	0	0	0	0	0	0	0	
Purcell city	290539	0	0	0	0	0	0	0	
Sarcoxie city	290186	0	0	1	0	1	0	0	
Waco city	290445	0	0	0	0	0	0	0	
Webb City city	290187	0	0	0	0	0	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	0	2	16	2	16	0	5
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	0	3	0	3	0	0
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 19 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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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_MO_29097. Preview: automated baseline.