

St. Louis County, MO

Risk-assessment baseline packet

Unit **County area 29189** 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 2030-08-19	Plan	East-West Gateway (FEMA plan 110991)
Approved	2025-08-20	Expires	2030-08-19
As of	2026-09-28	Days	1,421 days to expiry

What changed since your last plan (approved 2025-08-20)

New federal declarations	none (0 declaration rows; 0 counted incidents)	Storm Events records since approval	24 (data through 2026-06-30)
Repetitive loss now	FMA RL 58, SRL 313 (44 CFR 77.2); any definition: 868	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: 47 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

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

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Plan clock

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
St. Louis County	County	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		member approved 2026-07-02
Ballwin city	City	Plan 110991 approved 2025-08-20, pending adoption here; not yet eligible	East-West Gateway (FEMA plan 110991), pending adoption here	2025-08-20 by FEMA; not yet adopted here	2030-08-19 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Black Jack city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Brentwood city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Chesterfield city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		member approved 2025-10-15
Clayton city	City	Plan 110991 approved 2025-08-20, pending adoption here; not yet eligible	East-West Gateway (FEMA plan 110991), pending adoption here	2025-08-20 by FEMA; not yet adopted here	2030-08-19 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Country Club Hills city	City	Plan 110991 approved 2025-08-20, pending adoption here; not yet eligible	East-West Gateway (FEMA plan 110991), pending adoption here	2025-08-20 by FEMA; not yet adopted here	2030-08-19 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Crestwood city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Creve Coeur city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Dellwood city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Des Peres city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		member approved 2025-10-15
Ellisville city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Eureka city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		member approved 2025-10-15
Fenton city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Ferguson city	City	Plan 110991 approved 2025-08-20, pending adoption here; not yet eligible	East-West Gateway (FEMA plan 110991), pending adoption here	2025-08-20 by FEMA; not yet adopted here	2030-08-19 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Florissant city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Frontenac city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Glendale city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Hanley Hills village	Village	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Hazelwood city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		member approved 2025-10-15
Ladue city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		member approved 2025-10-15
Manchester city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Maplewood city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Maryland Heights city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		member approved 2025-10-15
Olivette city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Pasadena Hills city	City	Plan 110991 approved 2025-08-20, pending adoption here; not yet eligible	East-West Gateway (FEMA plan 110991), pending adoption here	2025-08-20 by FEMA; not yet adopted here	2030-08-19 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Pasadena Park village	Village	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Richmond Heights city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Rock Hill city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		member approved 2025-10-15
Town and Country city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
University City city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Vinita Park city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Webster Groves city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Wildwood city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Winchester city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Clayton School District	School/School District	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Hancock Place School District	School/School District	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Hazelwood School District	School/School District	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Parkway C-2 School District	School/School District	Plan 110991 approved 2025-08-20, pending adoption here; not yet eligible	East-West Gateway (FEMA plan 110991), pending adoption here	2025-08-20 by FEMA; not yet adopted here	2030-08-19 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Valley Park School District	School/School District	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Bel-Nor city	City	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Bi-State Development Agency	Special District	Plan 110991 approved 2025-08-20, pending adoption here; not yet eligible	East-West Gateway (FEMA plan 110991), pending adoption here	2025-08-20 by FEMA; not yet adopted here	2030-08-19 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Dunklin R-V	School/School District	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		member approved 2025-10-15
Metropolitan Park and Recreation District	Special District	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		
Metropolitan St. Louis Sewer District	Water/Sewer Authority	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		member approved 2025-10-15
Orchard Farm R-5	School/School District	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		member approved 2025-10-15
Pacific Fire Protection District	Fire/EMS District	Approved, expires 2030-08-19	East-West Gateway (FEMA plan 110991)	2025-08-20	2030-08-19	1,421		member approved 2025-10-15

Plan 110991 lists 28 other participants not on this page, 7 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	Heat Wave	Very High	Very High	\$2,116	\$1	\$253,177,092	\$253,179,209	95		
2	Inland Flooding	Relatively High	Relatively High	\$236,355,451	\$257,552	\$3,708,490	\$240,321,494	90		
3	Earthquake	Relatively High	Relatively High	\$81,019,754		\$59,493,813	\$140,513,568			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
4	Cold Wave	Very High	Very High	\$224	\$22,987	\$40,772,564	\$40,795,775	6		Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
5	Hail	Very High	Very High	\$37,594,797	\$65	\$443,612	\$38,038,474	522		
6	Tornado	Relatively High	Relatively High	\$13,152,816	\$1,133	\$13,126,211	\$26,280,161	39		
7	Lightning	Very High	Very High	\$474,625		\$4,999,331	\$5,473,957	16		
8	Ice Storm	Very High	Very High	\$3,712,753		\$104,091	\$3,816,844	4		
9	Strong Wind	Relatively High	Relatively High	\$63,254	\$221	\$2,087,217	\$2,150,691	469		Includes 12 High Wind records and 2 Strong Wind records, event types the NRI definition of this hazard leaves out.
10	Winter Weather	Very High	Very High	\$804,289	\$22	\$703,189	\$1,507,500	56		Includes 2 Sleet records, event types the NRI definition of this hazard leaves out.
11	Landslide	Relatively Moderate	Relatively Moderate	\$150,478		\$292,080	\$442,557	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
12	Wildfire	Very Low	Relatively Low	\$92,268	\$6	\$8,474	\$100,748	0		Declared 1 time; no Storm Events record of this type. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
13	Hurricane	Very Low	Very Low	\$47,430	\$813	\$137	\$48,380	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Drought	Very Low	Very Low		\$19,566		\$19,566	8		
	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).

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
	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 236
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 236
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	236 of 236
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	37 of 236
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.	236 of 236
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	236 of 236
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	236 of 236
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.	236 of 236
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	236 of 236
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.	236 of 236
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.	236 of 236
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	236 of 236
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	236 of 236
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.	236 of 236
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 236

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
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 236
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.	212 of 236
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	236 of 236

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	5, 2000 to 2024 (5 zone-level)	1 day to 12 days (median 2 days); 5 with a recorded value	12 consecutive days, 2010-01-01 to 2010-01-12, 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	8, 2005 to 2018 (8 zone-level)	31 days to 106 days (median 83 days); 3 with a recorded value	106 days (about 3.5 months), 2017-11-15 to 2018-02-28, a run of 4 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)	660, 1957 to 2026	0.75 in to 4.5 in (median 1 in); 660 with a recorded value	4.5 in hail, 2011-05-25	Hail, 2001-04-10, \$400,000,000 property; crops not reported (2001 dollars)	Event records naming member places: Fenton city (32 records), Florissant city (30 records), Chesterfield city (26 records), Creve Coeur city (18 records), Ballwin city (16 records), Hazelwood city (16 records), University City city (13 records), Ellisville city (12 records), Maryland Heights city (12 records), Webster Groves city (11 records); and 17 more member places (see the XLSX file).	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Excessive Heat, Heat	heat index (narratives)	95, 1996 to 2025 (95 zone-level)	1 day to 18 days (median 3.5 days); 82 with a recorded value	18 consecutive days, 2011-07-17 to 2011-08-03, 3 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.
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)	4, 1996 to 2017 (4 zone-level)		Ice Storm, 2007-01-12, \$100,000 property; \$0 crops, reported for the zone (2007 dollars); NWS zone MOZ063 (ST. LOUIS), 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)	90, 1996 to 2026 (8 zone-level)		Flood, 2015-12-27, \$235,000,000 property; \$0 crops (2015 dollars)		Event records naming member places: Chesterfield city (5 records), Fenton city (5 records), Brentwood city (3 records), Clayton city (2 records), Des Peres city (2 records), Hazelwood city (2 records), Town and Country city (2 records), Ballwin city (1 record), Black Jack city (1 record), Country Club Hills city (1 record); and 5 more member places (see the XLSX file). Zone-level records (8) 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)	16, 1996 to 2021		Lightning, 2010-06-15, \$0 property; \$0 crops (2010 dollars), 1 direct death	Lightning, 2002-07-22, \$200,000 property; crops not reported (2002 dollars)	Event records naming member places: Ballwin city (1 record), Country Club Hills city (1 record), Creve Coeur city (1 record), Fenton city (1 record), Florissant city (1 record), Frontenac city (1 record), University City city (1 record).	Storm Events lists lightning with damage or casualties; 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
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	14, 1996 to 2025 (14 zone-level)	35 kt (40 mph) to 61 kt (70 mph) (median 49.5 kt (57 mph)); 14 with a recorded value	61 kt (70 mph), measurement type not recorded, High Wind, 1996-04-28; NWS zone MOZ063 (ST. LOUIS), zone-level: may include parts of neighboring counties	High Wind, 2025-03-14, \$50,000 property; \$0 crops, reported for the zone (2025 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	635, 1956 to 2026	50 kt (58 mph) to 104 kt (120 mph) (median 56 kt (64 mph)); 520 with a recorded value	104 kt (120 mph) estimated gust, Thunderstorm Wind, 2015-04-09	Thunderstorm Wind, 2024-04-18, \$600,000 property; \$0 crops (2024 dollars)	Event records naming member places: Chesterfield city (26 records), Florissant city (20 records), Fenton city (19 records), Creve Coeur city (14 records), Ballwin city (13 records), Hazelwood city (13 records), Clayton city (12 records), Eureka city (12 records), Webster Groves city (12 records), University City city (11 records); and 18 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)	58, 1950 to 2026	F/EF0 to F/EF4 (median F/EF1); 56 with a recorded value	F4 tornado, 1967-01-24, 25 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 200 yd wide, \$25,000,000 property; crops not recorded (1967 dollars), 3 direct deaths, 216 direct injuries	Tornado, 2011-04-22, \$250,000,000 property; \$0 crops (2011 dollars)	Event records naming member places: Brentwood city (2 records), Ballwin city (1 record), Chesterfield city (1 record), Clayton city (1 record), Creve Coeur city (1 record), Des Peres city (1 record), Fenton city (1 record), Frontenac city (1 record), Hanley Hills village (1 record), Hazelwood city (1 record); and 7 more member places (see the XLSX file).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	0					Acres burned: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	56, 1996 to 2025 (56 zone-level)		Winter Storm, 2006-11-30, \$40,000,000 property; \$0 crops, reported for the zone (2006 dollars), 14 direct injuries (reported for the zone); NWS zone MOZ063 (ST. LOUIS), 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 rows34

Counted incidents29

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	No
2025-06-09	2025-05-16	DR-4877-MO	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, AND FLOODING	Inland Flooding; Strong Wind; Tornado	\$10,287,350.14	during plan review, check whether your last plan included it; within last 5 years	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	No
2025-05-21	2025-03-14	DR-4867-MO	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, AND WILDFIRES	Strong Wind; Tornado; Wildfire	PA not declared for this county	during plan review, check whether your last plan included it; within last 5 years	
2022-08-08	2022-07-25	DR-4665-MO	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$15,659,026.99	within last 5 years	
2020-03-26	2020-01-20	DR-4490-MO	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$374,602,436.64		
2020-03-13	2020-01-20	EM-3482-MO	Emergency	COVID-19	Non-natural, not counted	none found		san inc DF
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	\$2,402,014.46		
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	\$7,597,773.96		
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		san inc DF
2013-07-18	2013-05-29	DR-4130-MO	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, AND FLOODING	Inland Flooding; Strong Wind; Tornado	\$1,618,719.21		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	No
2011-06-30	2011-06-01	EM-3325-MO	Emergency	FLOODING	Inland Flooding	none found		
2011-05-09	2011-04-19	DR-1980-MO	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$2,301,162.71		
2011-02-03	2011-01-31	EM-3317-MO	Emergency	SEVERE WINTER STORM	Winter Weather	none found		
2009-01-30	2009-01-26	EM-3303-MO	Emergency	SEVERE WINTER STORM	Ice Storm	none found		
2008-11-13	2008-09-11	DR-1809-MO	Major disaster	SEVERE STORMS, FLOODING, AND A TORNADO	Inland Flooding; Tornado	PA not declared for this county		
2008-06-25	2008-06-01	DR-1773-MO	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	none placed in this county by FEMA's record; \$587,766 for this declaration is not placed in any county (see the list below)		
2008-03-19	2008-03-17	DR-1749-MO	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$7,780.81		
2007-12-12	2007-12-08	EM-3281-MO	Emergency	SEVERE WINTER STORMS	Ice Storm	none found		
2007-01-15	2007-01-12	DR-1676-MO	Major disaster	SEVERE WINTER STORMS AND FLOODING	Ice Storm	\$2,401,738.15		
2006-12-29	2006-11-30	DR-1673-MO	Major disaster	SEVERE WINTER STORMS	Winter Weather	\$2,275,394.81		
2006-07-21	2006-07-19	EM-3267-MO	Emergency	SEVERE STORMS	Hazard not mapped (severe storm title names no single hazard); not counted	\$4,192,690.27		
2005-09-10	2005-08-29	EM-3232-MO	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	\$327,664.91		
2003-05-06	2003-05-04	DR-1463-MO	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	PA not declared for this county		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	No
2000-05-12	2000-05-06	DR-1328-MO	Major disaster	SEVERE THUNDERSTORMS AND FLASH FLOODING	Inland Flooding	\$1,379.55		FE del rec do list As bu FE pro sur she ob for co
1998-10-19	1998-07-10	DR-1256-MO	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	PA not declared for this county		
1995-06-02	1995-05-13	DR-1054-MO	Major disaster	SEVERE STORMS, TORNADOES, HAIL, FLOODING	Hail; Inland Flooding; Tornado	none found		
1994-04-21	1994-04-09	DR-1023-MO	Major disaster	SEVERE STORMS, TORNADOES, FLOODING	Inland Flooding; Tornado	PA not declared for this county		
1993-12-01	1993-11-13	DR-1006-MO	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	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		
1993-05-11	1993-04-15	DR-989-MO	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	PA not declared for this county		
1986-10-14	1986-09-18	DR-779-MO	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	PA not declared for this county		
1982-12-10	1982-12-10	DR-672-MO	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	PA not declared for this county		
1979-04-21	1979-04-21	DR-579-MO	Major disaster	TORNADOES, TORRENTIAL RAIN & FLOODING	Tornado (primary); also designated: Inland Flooding	none found		
1976-09-24	1976-09-24	EM-3017-MO	Emergency	DROUGHT	Drought	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: \$52,774.96 (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: 1 row, \$49,419.89

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-4238-MO	2015-08-07	SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS, AND FLOODING	OLD MONROE LEVEE DISTRICT	\$49,419.89

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

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated	Why not placed
				<i>federal share obligated, nominal dollars</i>	
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
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	6	0	0	1	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
Drought	8	0	0	0	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	660	12	93	132	1	0	1955 to 2026-06-30	
Heat Wave	95	0	2	4	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	4	0	0	0	3	0	1996 to 2026-06-30	
Inland Flooding	90	1	6	15	22	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	16	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	649	7	28	74	5	0	1955 to 2026-06-30	Includes 12 High Wind records and 2 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	58	2	6	19	13	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Winter Weather	56	2	1	7	2	0	1996 to 2026-06-30	Includes 2 Sleet records, event types the NRI definition of this hazard leaves out.

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
2015-12-27	Flood		\$235,000,000 property; \$0 crops (2015 dollars)	0, 0	ALLENTON to CENTAUR		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2015-04-09	Thunderstorm Wind	104 kt (120 mph) estimated gust	\$0 property; \$0 crops (2015 dollars)	0, 0	MONARCH to (SUS)SPIRIT/ST LOUIS		B1-c worst recorded: Thunderstorm Wind
2011-07-17	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2011 dollars)	3, 167	NWS zone MOZ063 (ST. LOUIS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2011-05-25	Hail	4.5 in	\$0 property; \$0 crops (2011 dollars)	0, 0	GRAVOIS		B1-c worst recorded: Hail
2010-06-15	Lightning		\$0 property; \$0 crops (2010 dollars)	1, 0	COUNTRY CLUB HILLS		B1-c worst recorded: Lightning
2010-01-01	Cold/Wind Chill		\$0 property; \$0 crops, reported for the zone (2010 dollars)	0, 0	NWS zone MOZ063 (ST. LOUIS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2007-01-12	Ice Storm		\$100,000 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone MOZ063 (ST. LOUIS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Ice Storm
2001-04-08	Heat		damage not reported	4, 0	NWS zone MOZ063 (ST. LOUIS), zone-level: may include parts of neighboring counties		deaths or injuries recorded
1999-07-18	Heat		damage not reported	5, 186	NWS zone MOZ063 (ST. LOUIS), zone-level: may include parts of neighboring counties		deaths or injuries recorded
1996-04-28	High Wind	61 kt (70 mph), measurement type not recorded	damage not reported	0, 0	NWS zone MOZ063 (ST. LOUIS), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
1967-01-24	Tornado	F4, 25 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 200 yd wide	\$25,000,000 property; crops not recorded (1967 dollars)	3, 216	location not recorded		B1-c worst recorded: Tornado
1959-02-10	Tornado	F4, 16.2 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 200 yd wide	\$25,000,000 property; crops not recorded (1959 dollars)	10, 170	location not recorded		deaths or injuries recorded

The full list is in the XLSX file, sheet "B1-d Storm Events history" (1,642 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.
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	1.74	event-days per year	about 1.74 days per year	Likely	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	33	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 1.74 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 5 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	1.86	event-days per year	about 1.86 days per year	Likely	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	56	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 1.86 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 4 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	0.00541	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.541%			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	5.26	events per year	about 5.26 per year	Highly likely	FEMA annualized frequency (modeled)	200.0 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	14.8	event-days per year	about 14.8 days per year	Highly likely	event-days in 27 of 30 years, 1996 to 2025 (90%)	153	2005-11-12 to 2024-11-12 (19 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
Hurricane	0.0111	events per year	about 1 in 90 years	Possible	FEMA annualized frequency (modeled)	2	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.
Ice Storm	1.41	event-days per year	about 1.41 days per year	Likely	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	95	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 1.41 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 4 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	2.79	event-days per year	about 2.79 days per year	Highly likely	event-days in 27 of 30 years, 1996 to 2025 (90%)	78	1996 to 2023 (28 years)	see B1-f	
Landslide	0.966	events per year (modeled)	about 0.97 per year	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	53	days per year with a strike	about 53 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	5.93	events per year	about 5.93 per year	Highly likely	FEMA annualized frequency (modeled)	226	1986 to 2023 (38 years)	countywide	
Tornado	0.406	events per year	about 1 in 2 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	0.000116	annual probability at a location	chance a given location in the county burns in a year: 0.0116%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)

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
Winter Weather	8.74	event-days per year	about 8.74 days per year	Likely	event-days in 25 of 30 years, 1996 to 2025 (83.3%)	166	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	314	30	10.5
Hail	2.00 in+	1996 to 2025	38	30	1.27
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	402	30	13.4
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	46	30	1.53
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	31	30	1.03
Tornado	EF2-3	1996 to 2025	5	30	0.167
Tornado	EF4-5	1996 to 2025	1	30	0.0333
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	0 of 236				Not Applicable 236	
Coastal Flooding	0 of 236				Not Applicable 236	
Cold Wave	236 of 236	27.0	78.8	93.2	Relatively High 131, Relatively Moderate 102, Relatively Low 3	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	37 of 236	67.2	72.1	83.8	Relatively Low 5, Very Low 32, No Rating 199	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	236 of 236	70.6	85.7	97.6	Very High 1, Relatively High 63, Relatively Moderate 160, Relatively Low 12	
Hail	236 of 236	75.5	93.0	99.4	Very High 12, Relatively High 185, Relatively Moderate 39	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
Heat Wave	236 of 236	75.8	99.0	100.0	Very High 224, Relatively High 11, 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.
Hurricane	236 of 236	14.3	22.4	31.8	Very Low 236	
Ice Storm	236 of 236	38.1	74.6	94.4	Relatively High 11, Relatively Moderate 161, Relatively Low 64	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	236 of 236	4.2	66.7	98.4	Very High 7, Relatively High 70, Relatively Moderate 102, Relatively Low 50, Very Low 7	
Landslide	236 of 236	22.3	72.3	99.5	Relatively High 2, Relatively Moderate 8, Relatively Low 54, Very Low 172	
Lightning	236 of 236	31.6	70.2	92.2	Relatively High 55, Relatively Moderate 161, Relatively Low 20	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	236 of 236	12.8	33.1	57.7	Relatively Moderate 1, Relatively Low 222, Very Low 13	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	236 of 236	34.4	58.4	83.3	Relatively High 9, Relatively Moderate 166, Relatively Low 61	
Tsunami	0 of 236				Not Applicable 236	
Volcanic Activity	0 of 236				Not Applicable 236	
Wildfire	212 of 236	19.8	35.6	85.1	Relatively Low 22, Very Low 190, No Rating 24	
Winter Weather	236 of 236	39.7	68.8	90.0	Relatively High 29, Relatively Moderate 201, Relatively Low 6	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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
St. Louis County	County	Approved, expires 2030-08-19	FMA RL 13, SRL 85; any 235	\$37,965,923.23	0; 0	Includes \$33,708,444.91 for declarations not counted as hazard incidents (DR-4490-MO, EM-3232-MO, EM-3267-MO).

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
Ballwin city	City	Plan 110991 approved 2025-08-20, pending adoption here; not yet eligible	FMA RL 0, SRL 1; any 4	\$220,190.07	32; no approved plan	Includes \$4,970.98 for declarations not counted as hazard incidents (EM-3267-MO).
Black Jack city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 0; any 0	none found	6; 0	
Brentwood city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 39; any 56	\$3,098,913.71	19; 1	Includes \$68,579.02 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Chesterfield city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 1; any 6	\$304,325.59	58; 1	Includes \$42,083.28 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Clayton city	City	Plan 110991 approved 2025-08-20, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 2	\$2,938,342.45	24; no approved plan	Includes \$252,961.36 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Country Club Hills city	City	Plan 110991 approved 2025-08-20, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$70,935.36	3; no approved plan	
Crestwood city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 1; any 5	\$63,514.75	13; 0	Includes \$20,216.52 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Creve Coeur city	City	Approved, expires 2030-08-19	FMA RL 1, SRL 1; any 3	\$425,129.25	34; 0	Includes \$129,731.47 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Dellwood city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 0; any 0	\$124,590.12	0; 0	Includes \$5,606.49 for declarations not counted as hazard incidents (EM-3267-MO).
Des Peres city	City	Approved, expires 2030-08-19	FMA RL 1, SRL 2; any 3	\$389,135.19	14; 1	Includes \$330,508.29 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Ellisville city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 0; any 0	\$131,864.90	21; 1	Includes \$10,580.44 for declarations not counted as hazard incidents (EM-3267-MO).
Eureka city	City	Approved, expires 2030-08-19	FMA RL 2, SRL 6; any 19	\$569,804.39	19; 0	Includes \$40,215.60 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Fenton city	City	Approved, expires 2030-08-19	FMA RL 16, SRL 37; any 67	\$575,937.58	58; 1	Includes \$19,585.01 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Ferguson city	City	Plan 110991 approved 2025-08-20, pending adoption here; not yet eligible	FMA RL 2, SRL 2; any 35	\$1,418,981.21	16; no approved plan	Includes \$142,277.35 for declarations not counted as hazard incidents (EM-3267-MO).
Florissant city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 1; any 23	\$431,977.50	51; 0	Includes \$179,749.06 for declarations not counted as hazard incidents (EM-3267-MO).
Frontenac city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 1; any 5	\$22,066.02	5; 0	

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
Glendale city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 1; any 1	\$246,606.22	0; 0	Includes \$69,128.90 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Hanley Hills village	Village	Approved, expires 2030-08-19	FMA RL 0, SRL 0; any 0	\$117,736.20	6; 1	
Hazelwood city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 9; any 40	\$384,348.79	32; 0	Includes \$49,894.14 for declarations not counted as hazard incidents (EM-3267-MO).
Ladue city	City	Approved, expires 2030-08-19	FMA RL 7, SRL 8; any 34	\$201,516.07	6; 0	
Manchester city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 4; any 8	\$30,087.51	18; 0	Includes \$6,688.79 for declarations not counted as hazard incidents (EM-3267-MO).
Maplewood city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 0; any 9	\$94,283.77	9; 0	Includes \$80,620.84 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Maryland Heights city	City	Approved, expires 2030-08-19	FMA RL 1, SRL 2; any 7	\$1,091,643.02	22; 0	Includes \$31,675.77 for declarations not counted as hazard incidents (EM-3267-MO).
Olivette city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 0; any 3	\$87,025.43	13; 0	Includes \$15,458.81 for declarations not counted as hazard incidents (EM-3267-MO).
Pasadena Hills city	City	Plan 110991 approved 2025-08-20, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$7,905.75	0; no approved plan	Includes \$7,905.75 for declarations not counted as hazard incidents (EM-3267-MO).
Pasadena Park village	Village	Approved, expires 2030-08-19	FMA RL 0, SRL 0; any 0	none found	0; 0	
Richmond Heights city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 0; any 1	\$680,604.11	13; 0	Includes \$366,062.21 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Rock Hill city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 5; any 10	\$20,848.59	10; 0	Includes \$12,413.33 for declarations not counted as hazard incidents (EM-3267-MO).
Town and Country city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 1; any 1	\$160,590.81	16; 1	Includes \$3,650 for declarations not counted as hazard incidents (DR-4490-MO).
University City city	City	Approved, expires 2030-08-19	FMA RL 5, SRL 21; any 77	\$6,600,699.57	27; 3	Includes \$291,665.06 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Vinita Park city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 0; any 0	\$126,135.37	4; 0	Includes \$56,516.15 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Webster Groves city	City	Approved, expires 2030-08-19	FMA RL 2, SRL 0; any 9	\$334,117.63	24; 0	Includes \$103,503.46 for declarations not counted as hazard incidents (DR-4490-MO, EM-3267-MO).
Wildwood city	City	Approved, expires 2030-08-19	FMA RL 1, SRL 2; any 3	\$211,127.77	3; 0	
Winchester city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 0; any 0	none found	2; 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 2025-08-20 <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	\$263,933,589,124	\$26,427,568	1,003,733	\$224	\$22,987	\$40,772,564	under 0.0001%				
Drought		\$24,498,238			\$19,566		0.0799% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$451,772,845,053		1,004,125	\$81,019,754		\$59,493,813	0.0179%				
Hail	\$263,933,773,086	\$26,427,568	1,003,734	\$37,594,797	\$65	\$443,612	0.0142%	\$0			
Heat Wave	\$263,933,589,124	\$26,427,568	1,003,733	\$2,116	\$1	\$253,177,092	under 0.0001%				
Hurricane	\$263,933,589,124	\$26,402,703	1,003,733	\$47,430	\$813	\$137	under 0.0001%				
Ice Storm	\$263,807,686,263		1,003,115	\$3,712,753		\$104,091	0.00141%				
Inland Flooding	\$263,669,469,150	\$17,525,095	15,090	\$236,355,451	\$257,552	\$3,708,490	n/a (see note)	\$0			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	\$9,881,397,616		32,971	\$150,478		\$292,080	0.00152%				

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 2025-08-20 <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
Lightning	\$263,933,773,086		1,003,734	\$474,625		\$4,999,331	0.00018%				
Strong Wind	\$263,933,773,086	\$26,427,568	1,003,734	\$63,254	\$221	\$2,087,217	under 0.0001%	\$20,000			
Tornado	\$263,933,773,086	\$26,427,568	1,003,734	\$13,152,816	\$1,133	\$13,126,211	0.00498%	\$20,000			
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$18,258,619,289	\$2,900,737	71,284	\$92,268	\$6	\$8,474	0.000505%				
Winter Weather	\$263,933,589,124	\$26,427,568	1,003,733	\$804,289	\$22	\$703,189	0.000305%		\$0		

Totals since 2025-08-20 (Storm Events through 2026-06-30): 22 county-coded records, 22 with a damage value recorded (including \$0), \$40,000; 2 zone-level records, 2 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	1,003,734
Building value (total, not at risk)	\$263,933,773,086
Agriculture value (total, not at risk)	\$26,427,568
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$373,772,622
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)	\$378,916,301

Measure	Value
Social vulnerability rating	Relatively Low
Community resilience rating	Relatively High
NRI version	December 2025

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

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

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	58	Severe repetitive loss, FMA definition (44 CFR 77.2)	313
Repetitive loss, NFIP insurance definition	705	Severe repetitive loss, NFIP insurance definition	157

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	58	313	705	157	868	46	225
JEFFERSON CITY, CITY OF (plan member listed on the Cole County page)	0	0	1	0	1	0	0
PACIFIC, CITY OF (plan member listed on the Franklin County page)	0	0	2	0	2	0	0
WINDSOR, CITY OF (plan member listed on the Henry County page)	0	0	1	0	1	0	0
ST. LOUIS COUNTY *	13	85	187	36	235	5	40
BALLWIN, CITY OF	0	1	4	1	4	0	2
BELLEFONTAINE NEIGHBORS, CITY OF (community ID not in plan data)	0	0	2	0	2	0	1
BERKELEY, CITY OF (community ID not in plan data)	0	0	1	0	1	0	0
BRECKENRIDGE HILLS, CITY OF (community ID not in plan data)	5	4	22	4	22	0	2
BRENTWOOD, CITY OF	0	39	50	32	56	2	12
BRIDGETON, CITY OF (community ID not in plan data)	0	0	4	0	4	0	0
CLAYTON, CITY OF	0	0	2	0	2	0	2
COOL VALLEY, CITY OF (community ID not in plan data)	0	0	1	0	1	0	0
CRESTWOOD, CITY OF	0	1	5	1	5	0	1
CREVE COEUR, CITY OF	1	1	3	1	3	0	2

Scope	RL, FMA properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties
DES PERES, CITY OF	1	2	3	2	3	0	0
EUREKA, CITY OF	2	6	18	5	19	1	8
FENTON, CITY OF	16	37	47	17	67	13	18
FERGUSON, CITY OF	2	2	33	2	35	0	19
FLORISSANT, CITY OF	0	1	23	1	23	0	10
FRONTENAC, CITY OF	0	1	5	1	5	0	2
GLENDALE, CITY OF	0	1	1	1	1	0	0
HAZELWOOD, CITY OF	0	9	40	9	40	0	13
JENNINGS, CITY OF (community ID not in plan data)	0	0	3	0	3	0	0
KIRKWOOD, CITY OF (community ID not in plan data)	0	5	13	5	13	0	2
LADUE, CITY OF	7	8	27	5	34	4	19
MACKENZIE, VILLAGE OF (community ID not in plan data)	0	1	1	1	1	0	0
MANCHESTER, CITY OF	0	4	8	4	8	0	3
MOLINE ACRES, CITY OF (community ID not in plan data)	0	0	4	0	4	0	0
NORTHWOODS, CITY OF (community ID not in plan data)	1	0	11	0	11	0	3
OAKLAND, CITY OF (community ID not in plan data)	0	0	1	0	1	0	0
OLIVETTE, CITY OF	0	0	3	0	3	0	1
OVERLAND, CITY OF (community ID not in plan data)	0	0	7	0	7	0	0
RICHMOND HEIGHTS, CITY OF	0	0	1	0	1	0	1
ROCK HILL, CITY OF	0	5	10	5	10	0	8
ST. ANN, CITY OF (community ID not in plan data)	0	0	6	0	6	0	1
ST. JOHN, CITY OF (community ID not in plan data)	0	0	2	0	2	0	0
SUNSET HILLS, CITY OF (community ID not in plan data)	0	8	20	5	23	2	8
TOWN AND COUNTRY, CITY OF	0	1	1	1	1	0	0
UNIVERSITY CITY, CITY OF	5	21	62	7	77	11	25
VALLEY PARK, CITY OF (community ID not in plan data)	1	64	31	7	88	5	10
WEBSTER GROVES, CITY OF	2	0	7	0	9	2	4
WELLSTON, CITY OF (community ID not in plan data)	0	1	5	1	5	0	1
VELDA VILLAGE HILLS, VILLAGE OF (community ID not in plan data)	0	0	1	0	1	0	0
MARYLAND HEIGHTS, CITY OF	1	2	6	1	7	1	3
CHESTERFIELD, CITY OF	0	1	5	0	6	0	2
WILDWOOD, CITY OF	1	2	3	2	3	0	1
MAPLEWOOD, CITY OF	0	0	9	0	9	0	1
Unknown (community ID Unknown in FEMA data)	0	0	3	0	3	0	0
State level, not in this county: county not reported	0	0	3	0	3	0	0

4 of the county's repeat-flood properties belong to NFIP communities whose plan member is not listed on this page (the community rows above name the page that lists it).

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
St. Louis County	290327	13	85	187	36	235	5	40	
Ballwin city	290328	0	1	4	1	4	0	2	
Black Jack city	290336	0	0	0	0	0	0	0	
Brentwood city	290338	0	39	50	32	56	2	12	
Chesterfield city	290896	0	1	5	0	6	0	2	
Clayton city	290341	0	0	2	0	2	0	2	
Country Club Hills city	290746	0	0	0	0	0	0	0	
Crestwood city	290343	0	1	5	1	5	0	1	
Creve Coeur city	290344	1	1	3	1	3	0	2	
Dellwood city	290346	0	0	0	0	0	0	0	
Des Peres city	290347	1	2	3	2	3	0	0	
Ellisville city	290348	0	0	0	0	0	0	0	
Eureka city	290349	2	6	18	5	19	1	8	
Fenton city	290350	16	37	47	17	67	13	18	
Ferguson city	290351	2	2	33	2	35	0	19	
Florissant city	290352	0	1	23	1	23	0	10	
Frontenac city	290353	0	1	5	1	5	0	2	
Glendale city	290354	0	1	1	1	1	0	0	
Hanley Hills village	290356	0	0	0	0	0	0	0	
Hazelwood city	290357	0	9	40	9	40	0	13	
Ladue city	290363	7	8	27	5	34	4	19	
Manchester city	290366	0	4	8	4	8	0	3	
Maplewood city	295266	0	0	9	0	9	0	1	
Maryland Heights city	290889	1	2	6	1	7	1	3	
Olivette city	290374	0	0	3	0	3	0	1	
Pasadena Hills city	290674	0	0	0	0	0	0	0	
Pasadena Park village	290675	0	0	0	0	0	0	0	
Richmond Heights city	290380	0	0	1	0	1	0	1	
Rock Hill city	290382	0	5	10	5	10	0	8	
Town and Country city	290389	0	1	1	1	1	0	0	

Member	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>	Note
University City city	290390	5	21	62	7	77	11	25	
Vinita Park city	290392	0	0	0	0	0	0	0	
Webster Groves city	290394	2	0	7	0	9	2	4	
Wildwood city	290922	1	2	3	2	3	0	1	
Winchester city	290397	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 <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	43	186	424	60	557	40	109
2 to 4 unit residential	3	5	35	4	36	0	18
other residential	0	15	41	14	42	0	14
non-residential	12	107	205	79	233	6	84
not reported	0	0	0	0	0	0	0

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

SOURCES

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

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

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

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

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

In this county 22 properties are FMA repetitive loss but not NFIP repetitive loss, and 669 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_Gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

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Cite this: Hazard Plain (2026). St. Louis County, MO: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 29189). Preview: automated baseline. Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_MO_29189. Preview: automated baseline.