

Calloway County, KY

Risk-assessment baseline packet

Unit **County area 21035** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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

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

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Plan clock

Status	Approved, expires 2030-09-11	Plan	Jackson Purchase ADD Regional (FEMA plan 109787)
Approved	2025-09-12	Expires	2030-09-11
As of	2026-09-28	Days	1,444 days to expiry

What changed since your last plan (approved 2025-09-12)

New federal declarations	EM-3633-KY (1 declaration row; 1 counted incident)	Storm Events records since approval	8 (data through 2026-06-30)
Repetitive loss now	FMA RL 0, SRL 1 (44 CFR 77.2); any definition: 4	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

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Calloway County (unincorporated area)	Unincorporated	Approved, expires 2030-09-11	Jackson Purchase ADD Regional (FEMA plan 109787)	2025-09-12	2030-09-11	1,444		
Hazel city	City	Approved, expires 2030-09-11	Jackson Purchase ADD Regional (FEMA plan 109787)	2025-09-12	2030-09-11	1,444		
Murray city	City	Approved, expires 2030-09-11	Jackson Purchase ADD Regional (FEMA plan 109787)	2025-09-12	2030-09-11	1,444		

Plan 109787 also covers 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)

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

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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	Earthquake	Relatively Moderate	Relatively Moderate	\$7,882,669		\$5,529,810	\$13,412,480			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
2	Inland Flooding	Relatively Low	Relatively Low	\$5,406,729	\$10,321	\$234,136	\$5,651,187	91		
3	Tornado	Relatively Moderate	Relatively Moderate	\$1,391,398	\$5,279	\$1,763,093	\$3,159,769	33		
4	Cold Wave	Relatively Moderate	Relatively Moderate	\$97	\$63,683	\$2,699,868	\$2,763,648	62		Includes 43 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
5	Heat Wave	Relatively Low	Relatively Low	\$67	\$337	\$893,058	\$893,462	78		
6	Ice Storm	Relatively High	Relatively High	\$761,836		\$95,175	\$857,011	4		
7	Strong Wind	Relatively Moderate	Relatively Moderate	\$336,371	\$44,145	\$292,225	\$672,741	245		Includes 9 High Wind records and 61 Strong Wind records, event types the NRI definition of this hazard leaves out.
8	Lightning	Relatively Moderate	Relatively Moderate	\$11,458		\$489,286	\$500,743	5		
9	Drought	Relatively Moderate	Relatively Low		\$343,109		\$343,109	44		

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
10	Hail	Relatively Low	Relatively Low	\$339,037	\$1,369	\$1,555	\$341,961	101		
11	Winter Weather	Relatively Moderate	Relatively Moderate	\$140,193	\$454	\$46,804	\$187,452	88		
12	Hurricane	Very Low	Very Low	\$15,124	\$8,034	\$255	\$23,413	0		Declared 1 time; no Storm Events record of this type.
13	Wildfire	Very Low	Very Low	\$4,573	\$22	\$1,079	\$5,674	1		
14	Landslide	Relatively Low	Very Low	\$3,066		\$298	\$3,364	0		Declared 7 times; no Storm Events record of this type. 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).
	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 11

Hazard	Location	Census tracts rated
		<i>rated of all tracts</i>
Coastal Flooding	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 11
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	11 of 11
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	10 of 11
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.	11 of 11
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	11 of 11
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	11 of 11
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.	11 of 11
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	11 of 11
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.	11 of 11
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.	11 of 11
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	11 of 11
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	11 of 11
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.	11 of 11
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 11
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 11
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.	11 of 11
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	11 of 11

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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	19, 1996 to 2026 (19 zone-level)	1 day to 24 days (median 2 days); 16 with a recorded value	24 days, 2000-12-12 to 2001-01-04, 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	43, 1997 to 2023 (43 zone-level)		Frost/Freeze, 2008-04-29, \$10,000 crop damage, reported for the zone (2008 dollars); NWS zone KYZ009 (CALLOWAY), 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	44, 1996 to 2026 (44 zone-level)	9 days to 245 days (median 30 days); 17 with a recorded value	245 days (about 8.0 months), 2012-05-12 to 2013-01-11, a run of 9 consecutive Storm Events drought records, zone-level	Drought, 1999-09-01, property not reported; \$7,000,000 crops, reported for the zone (1999 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.
Earthquake	Modified Mercalli (local data)	0					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	106, 1967 to 2025	0.75 in to 2.5 in (median 0.88 in); 106 with a recorded value	2.5 in hail, 2010-05-14	Hail, 1995-05-18, \$100,000 property; crops not recorded (1995 dollars)	Event records naming member places: Murray city (52 records), Hazel city (11 records).	
Excessive Heat, Heat	heat index (narratives)	78, 1997 to 2025 (78 zone-level)	1 day to 15 days (median 2 days); 69 with a recorded value	15 consecutive days, 2025-07-16 to 2025-07-30, 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. Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.
Ice Storm	Sperry-Piltz (local data)	4, 1999 to 2022 (4 zone- level)		Ice Storm, 2009-01-26, \$17,200,000 property; \$0 crops, reported for the zone (2009 dollars); NWS zone KYZ009 (CALLOWAY), 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)	91, 1997 to 2025 (3 zone- level)		Flash Flood, 2021-02-28, \$2,900,000 property; \$0 crops (2021 dollars)		Event records naming member places: Murray city (26 records), Hazel city (7 records). Zone-level records (3) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	5, 1999 to 2019		Lightning, 2019-06-23, \$0 property; \$0 crops (2019 dollars), 1 direct death	Lightning, 2016-03-31, \$10,000 property; \$0 crops (2016 dollars)	Event records naming member places: Murray city (4 records).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	70, 1997 to 2025 (70 zone- level)	26 kt (30 mph) to 56 kt (64 mph) (median 39 kt (45 mph)); 64 with a recorded value	56 kt (64 mph) measured gust, High Wind, 2009-02-11; NWS zone KYZ009 (CALLOWAY), zone-level: may include parts of neighboring counties	High Wind, 2008-09-14, \$1,500,000 property; \$1,000,000 crops, reported for the zone (2008 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Thunderstorm Wind	wind speed (kt and mph)	193, 1970 to 2026	45 kt (52 mph) to 91 kt (105 mph) (median 54.5 kt (63 mph)); 172 with a recorded value	91 kt (105 mph) estimated gust, Thunderstorm Wind, 2009-06-30	Thunderstorm Wind, 2011-04-25, \$2,000,000 property; \$0 crops (2011 dollars)	Event records naming member places: Murray city (81 records), Hazel city (13 records).	
Tornado	Enhanced Fujita (F before Feb 2007)	43, 1963 to 2024	F/EF0 to F/EF4 (median F/EF1); 43 with a recorded value	F4 tornado, 1968-04-03, 9.2 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 100 yd wide, \$2,500,000 property; crops not recorded (1968 dollars), 1 direct death, 15 direct injuries		Event records naming member places: Murray city (7 records), Hazel city (3 records).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	1, 2004 to 2004 (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)	88, 1996 to 2026 (88 zone-level)		Winter Storm, 2019-02-15, \$5,000 property; \$0 crops, reported for the zone (2019 dollars); NWS zone KYZ009 (CALLOWAY), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

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

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

SOURCES

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

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

Supports B1-d: previous occurrences

Declaration rows

20

Counted incidents

15

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
2026-01-24	2026-01-23	EM-3633-KY	Emergency	SEVERE WINTER STORM	Winter Weather	none found	new since last plan; within last 5 years	
2025-04-24	2025-04-02	DR-4864-KY	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding; Landslide; Strong Wind; Tornado	\$24,060	during plan review, check whether your last plan included it; within last 5 years	
2025-04-03	2025-04-02	EM-3626-KY	Emergency	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, AND FLOODING	Inland Flooding; Strong Wind; Tornado	none found	during plan review, check whether your last plan included it; within last 5 years	same incident as DR-4864
2025-02-16	2025-02-14	EM-3624-KY	Emergency	SEVERE STORMS, STRAIGHT-LINE WINDS, FLOODING, AND LANDSLIDES	Inland Flooding; Landslide; Strong Wind	none found	during plan review, check whether your last plan included it; within last 5 years	
2024-07-23	2024-05-21	DR-4804-KY	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, LANDSLIDES, AND MUDSLIDES	Landslide; Strong Wind; Tornado	\$48,457.19	within last 5 years	
2023-04-10	2023-03-03	DR-4702-KY	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding; Landslide; Strong Wind; Tornado	none found	within last 5 years	
2021-04-23	2021-02-27	DR-4595-KY	Major disaster	SEVERE, STORMS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding (primary); also designated: Landslide	\$377,710.36		
2020-03-28	2020-01-20	DR-4497-KY	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$13,581.79		
2020-03-13	2020-01-20	EM-3469-KY	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4497
2016-08-26	2016-07-02	DR-4278-KY	Major disaster	SEVERE STORM, TORNADOES, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding; Landslide; Tornado	\$73,506.66		
2015-05-12	2015-03-03	DR-4218-KY	Major disaster	SEVERE WINTER STORM, SNOWSTORM, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding (primary); also designated: Landslide, Winter Weather	\$68,201.84		
2011-05-04	2011-04-12	DR-1976-KY	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$935,623.58		
2009-02-05	2009-01-26	DR-1818-KY	Major disaster	SEVERE WINTER STORM AND FLOODING	Ice Storm	\$1,000,602.24		
2009-01-28	2009-01-27	EM-3302-KY	Emergency	SEVERE WINTER STORM	Ice Storm	none found		same incident as DR-1818

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2008-10-09	2008-09-12	DR-1802-KY	Major disaster	SEVERE WIND STORM ASSOCIATED WITH TROPICAL DEPRESSION IKE	Hurricane; Strong Wind	\$94,028.77		
2005-09-10	2005-08-29	EM-3231-KY	Emergency	HURRICANE KATRINA	Hurricane: evacuation support, not a local hazard event; not counted	none found		
2003-06-03	2003-05-04	DR-1471-KY	Major disaster	SEVERE STORMS, FLOODING, MUD AND ROCK SLIDES, AND TORNADOES	Inland Flooding; Tornado	\$57,511.29		
1997-03-04	1997-03-01	DR-1163-KY	Major disaster	SEVERE STORM, FLOODING, AND TORNADOES	Inland Flooding; Tornado	none found		
1996-01-13	1996-01-05	DR-1089-KY	Major disaster	BLIZZARD OF 96	Winter Weather	none found		
1975-03-29	1975-03-29	DR-461-KY	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		

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
1964-03-17	1964-03-17	DR-163-KY	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding		
1963-03-13	1963-03-13	DR-148-KY	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding		
1962-03-12	1962-03-12	DR-128-KY	Major disaster	FLOODS	Inland Flooding		
1957-01-31	1957-01-31	DR-66-KY	Major disaster	FLOOD	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, \$819,339.68

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-4216-KY	2015-04-30	SEVERE WINTER STORMS, SNOWSTORMS, FLOODING, LANDSLIDES, AND MUDSLIDES	PERRY (COUNTY)	\$220,911.53
DR-4008-KY	2011-07-25	SEVERE STORMS, TORNADOES, AND FLOODING	PERRY (COUNTY)	\$168,760.32
DR-1841-KY	2009-05-29	SEVERE STORMS, TORNADOES, FLOODING AND MUDSLIDES	PERRY (COUNTY)	\$429,667.83

FEMA's Public Assistance summaries file these applicants under this county, but FEMA's declaration rows for these disasters do not designate it (an electric cooperative or district serving several counties, for example). Not in any declaration row above and not counted.

SOURCES

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

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

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	62	3	3	10	0	0	1996 to 2026-06-30	Includes 43 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
Drought	44	2	1	10	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	106	0	1	9	0	0	1955 to 2026-06-30	
Heat Wave	78	0	3	20	0	0	1996 to 2026-06-30	
Hurricane	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)
Ice Storm	4	0	0	1	1	0	1996 to 2026-06-30	
Inland Flooding	91	0	9	19	10	0	1996 to 2026-06-30	
Landslide	0	0	0	0	7	0	1996 to 2026-06-30	No Storm Events records of this type; 7 federal declared incidents (see declarations table)
Lightning	5	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	263	2	12	49	5	0	1955 to 2026-06-30	Includes 9 High Wind records and 61 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	43	0	0	5	7	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	1	0	0	0	0	0	1996 to 2026-06-30	
Winter Weather	88	1	5	16	3	1	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
2025-07-16	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2025 dollars)	0, 0	NWS zone KYZ009 (CALLOWAY), zone-level: may include parts of neighboring counties	during plan review, check whether your last plan included it; within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2021-02-28	Flash Flood		\$2,900,000 property; \$0 crops (2021 dollars)	0, 0	POTTERTOWN to STELLA		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2019-06-23	Lightning		\$0 property; \$0 crops (2019 dollars)	1, 0	MURRAY		deaths or injuries recorded
2012-05-12	Drought		\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone KYZ009 (CALLOWAY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Drought
2010-05-14	Hail	2.5 in	\$0 property; \$0 crops (2010 dollars)	0, 0	MURRAY ARPT to ALMO		B1-c worst recorded: Hail
2009-06-30	Thunderstorm Wind	91 kt (105 mph) estimated gust	\$500,000 property; \$0 crops (2009 dollars)	0, 0	MURRAY to MIDWAY		B1-c worst recorded: Thunderstorm Wind
2009-02-11	High Wind	56 kt (64 mph) measured gust	\$60,000 property; \$0 crops, reported for the zone (2009 dollars)	0, 0	NWS zone KYZ009 (CALLOWAY), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2009-01-26	Ice Storm		\$17,200,000 property; \$0 crops, reported for the zone (2009 dollars)	0, 0	NWS zone KYZ009 (CALLOWAY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Ice Storm
2008-04-29	Frost/Freeze		\$0 property; \$10,000 crops, reported for the zone (2008 dollars)	0, 0	NWS zone KYZ009 (CALLOWAY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Frost/ Freeze (outside NRI Cold Wave definition)
2000-12-12	Extreme Cold/ Wind Chill		damage not reported	0, 0	NWS zone KYZ009 (CALLOWAY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/ Wind Chill, Extreme Cold/Wind Chill
1968-04-03	Tornado	F4, 9.2 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 100 yd wide	\$2,500,000 property; crops not recorded (1968 dollars)	1, 15	location not recorded		deaths or injuries recorded
1964-03-04	Tornado	F4, 4.9 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 250 yd wide	\$250,000 property; crops not recorded (1964 dollars)	0, 8	location not recorded		deaths or injuries recorded

The full list is in the XLSX file, sheet "B1-d Storm Events history" (785 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	0.895	event-days per year	about 0.895 days per year	Likely	event-days in 13 of 30 years, 1996 to 2025 (43.3%)	17	2005-11-12 to 2024-11-12 (19 years)	countywide	Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	8.07	event-days per year	about 8.07 days per year	Likely	event-days in 17 of 30 years, 1996 to 2025 (56.7%)	273	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00898	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.898%			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	2.78	events per year	about 2.78 per year	Highly likely	FEMA annualized frequency (modeled)	105.7 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	9.84	event-days per year	about 9.84 days per year	Likely	event-days in 25 of 30 years, 1996 to 2025 (83.3%)	136	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	0.00914	events per year	about 1 in 109 years	Unlikely	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	1.53	event-days per year	about 1.53 days per year	Likely	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	102	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 1.53 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	2.64	event-days per year	about 2.64 days per year	Highly likely	event-days in 28 of 30 years, 1996 to 2025 (93.3%)	74	1996 to 2023 (28 years)	see B1-f	
Landslide	0.482	events per year (modeled)	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	55.9	days per year with a strike	about 55.9 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	3.83	events per year	about 3.83 per year	Highly likely	FEMA annualized frequency (modeled)	147	1986 to 2023 (38 years)	countywide	
Tornado	0.354	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.000144	annual probability at a location	chance a given location in the county burns in a year: 0.0144%	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.

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	6.68	event-days per year	about 6.68 days per year	Likely	event-days in 25 of 30 years, 1996 to 2025 (83.3%)	127	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	40	30	1.33
Hail	2.00 in+	1996 to 2025	2	30	0.0667
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	142	30	4.73
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	26	30	0.867
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	5	30	0.167
Tornado	EF0-1	1996 to 2025	30	30	1
Tornado	EF2-3	1996 to 2025	3	30	0.1
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	0 of 11				Not Applicable 11	
Coastal Flooding	0 of 11				Not Applicable 11	
Cold Wave	11 of 11	79.1	88.4	95.0	Relatively High 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.
Drought	10 of 11	76.1	89.7	96.5	Relatively Moderate 4, Relatively Low 4, Very Low 2, No Rating 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. 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	11 of 11	88.3	91.1	98.7	Very High 1, Relatively High 9, Relatively Moderate 1	
Hail	11 of 11	72.3	78.6	82.4	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
Heat Wave	11 of 11	61.6	76.6	87.3	Relatively High 1, Relatively Moderate 10	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	11 of 11	35.9	40.3	46.2	Very Low 11	
Ice Storm	11 of 11	95.2	96.7	97.5	Relatively High 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.
Inland Flooding	11 of 11	13.3	48.2	80.5	Relatively High 1, Relatively Moderate 4, Relatively Low 5, Very Low 1	
Landslide	11 of 11	16.7	48.3	94.8	Relatively Low 3, Very Low 8	
Lightning	11 of 11	81.3	92.0	97.4	Very High 1, Relatively High 10	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	11 of 11	79.8	86.3	92.9	Relatively High 8, 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.
Tornado	11 of 11	81.6	86.7	93.1	Relatively High 11	
Tsunami	0 of 11				Not Applicable 11	
Volcanic Activity	0 of 11				Not Applicable 11	
Wildfire	11 of 11	39.5	56.6	69.1	Relatively Low 1, Very Low 10	
Winter Weather	11 of 11	88.6	92.3	95.6	Relatively High 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.

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
Calloway County (unincorporated area)	Unincorporated	Approved, expires 2030-09-11	FMA RL 0, SRL 0; any 1	\$314,002.24	0; 0	
Hazel city	City	Approved, expires 2030-09-11	FMA RL 0, SRL 0; any 0	\$2,367.58	34; 0	
Murray city	City	Approved, expires 2030-09-11	FMA RL 0, SRL 1; any 3	\$491,081.01	170; 1	Includes \$13,581.79 for declarations not counted as hazard incidents (DR-4497-KY).

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 2025-09-12 <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	\$9,213,149,668	\$125,805,781	37,069	\$97	\$63,683	\$2,699,868	under 0.0001%		\$0		
Drought		\$59,119,362			\$343,109		0.58% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$16,028,934,814		37,103	\$7,882,669		\$5,529,810	0.0492%				
Hail	\$9,213,149,668	\$125,805,781	37,069	\$339,037	\$1,369	\$1,555	0.00368%				
Heat Wave	\$9,213,149,668	\$125,805,781	37,069	\$67	\$337	\$893,058	under 0.0001%				
Hurricane	\$9,210,179,639	\$125,258,284	37,059	\$15,124	\$8,034	\$255	0.000164%				
Ice Storm	\$9,213,149,668		37,069	\$761,836		\$95,175	0.00827%				

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 2025-09-12 <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
Inland Flooding	\$9,211,479,439	\$11,414,074	496	\$5,406,729	\$10,321	\$234,136	n/a (see note)				NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. EAL as % of exposure: n/a.
Landslide	\$116,382,198		503	\$3,066		\$298	0.00263%				
Lightning	\$9,213,149,668		37,069	\$11,458		\$489,286	0.000124%				
Strong Wind	\$9,213,149,668	\$125,805,781	37,069	\$336,371	\$44,145	\$292,225	0.00365%	\$6,000			
Tornado	\$9,213,149,668	\$125,805,781	37,069	\$1,391,398	\$5,279	\$1,763,093	0.0151%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$1,276,043,950	\$18,167,751	7,249	\$4,573	\$22	\$1,079	0.000358%				
Winter Weather	\$9,213,149,668	\$125,805,781	37,069	\$140,193	\$454	\$46,804	0.00152%		\$0	none found (1 declaration)	

Totals since 2025-09-12 (Storm Events through 2026-06-30): 2 county-coded records, 2 with a damage value recorded (including \$0), \$6,000; 6 zone-level records, 6 with a damage value recorded (including \$0), \$0 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	37,069
Building value (total, not at risk)	\$9,213,149,668
Agriculture value (total, not at risk)	\$125,805,781
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$16,769,371
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)	\$12,046,644
Social vulnerability rating	Relatively High
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)	1
Repetitive loss, NFIP insurance definition	4	Severe repetitive loss, NFIP insurance definition	1

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 total and NFIP communities

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	1	4	1	4	0	3
MURRAY, CITY OF	0	1	3	1	3	0	2
CALLOWAY COUNTY *	0	0	1	0	1	0	1

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
Calloway County (unincorporated area)	210313	0	0	1	0	1	0	1	
Hazel city	210032	0	0	0	0	0	0	0	
Murray city	210033	0	1	3	1	3	0	2	

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	0	0	2	0	2	0	1
2 to 4 unit residential	0	1	1	1	1	0	1
other residential	0	0	0	0	0	0	0
non-residential	0	0	1	0	1	0	1
not reported	0	0	0	0	0	0	0

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

SOURCES

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

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

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

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

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

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 4 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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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_KY_21035. Preview: automated baseline.