

Carter County, KY

Risk-assessment baseline packet

Unit **County area 21043** 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 2028-01-26	Plan	FIVCO ADD Regional (FEMA plan 108798)
Approved	2023-01-27	Expires	2028-01-26
As of	2026-09-28	Days	485 days to expiry

What changed since your last plan (approved 2023-01-27)

New federal declarations	DR-4711-KY, DR-4782-KY, DR-4848-KY, EM-3624-KY, EM-3626-KY, DR-4864-KY, EM-3633-KY (7 declaration rows; 6 counted incidents)	Storm Events records since approval	62 (data through 2026-06-30)
Repetitive loss now	FMA RL 11, SRL 7 (44 CFR 77.2); any definition: 55	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
Carter County (unincorporated area)	Unincorporated	Approved, expires 2028-01-26	FIVCO ADD Regional (FEMA plan 108798)	2023-01-27	2028-01-26	485		member approved 2023-08-01
Grayson city	City	Approved, expires 2028-01-26	FIVCO ADD Regional (FEMA plan 108798)	2023-01-27	2028-01-26	485		member approved 2023-08-01
Olive Hill city	City	Approved, expires 2028-01-26	FIVCO ADD Regional (FEMA plan 108798)	2023-01-27	2028-01-26	485		member approved 2023-10-10

Plan 108798 lists 17 other participants not on this page, 1 of them not covered by it yet (named in the XLSX file).

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

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 modeled dollars per year	EAL agriculture modeled dollars per year	EAL population equivalence statistical value of life and injury, \$13.7M per life, not property damage	EAL total (see note) modeled dollars per year	Storm Events records since 1996 count	Evidence for an omission NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
1	Inland Flooding	Relatively Low	Relatively Low	\$8,960,904	\$36,072	\$1,502,221	\$10,499,197	101		
2	Heat Wave	Relatively Moderate	Relatively Moderate	\$14	\$10	\$1,864,308	\$1,864,332	20		
3	Tornado	Relatively Low	Relatively Low	\$234,160	\$157	\$480,708	\$715,025	1		
4	Strong Wind	Relatively Low	Relatively Low	\$96,614	\$5,931	\$216,815	\$319,359	92		Includes 6 High Wind records and 16 Strong Wind records, event types the NRI definition of this hazard leaves out.
5	Cold Wave	Very Low	Relatively Low	\$15,756	\$2,203	\$160,589	\$178,548	30		Includes 3 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
6	Earthquake	Very Low	Very Low	\$107,832		\$34,605	\$142,437			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
7	Lightning	Relatively Low	Relatively Low	\$4,998		\$133,858	\$138,856	1		
8	Hail	Very Low	Very Low	\$77,305	\$2,788	\$26,599	\$106,692	46		
9	Ice Storm	Relatively Low	Relatively Low	\$66,151		\$40,303	\$106,454	2		

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	Wildfire	Very Low	Very Low	\$47,941	\$31	\$13,962	\$61,933	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.
11	Winter Weather	Relatively Low	Relatively Low	\$8,420	under \$1	\$39,811	\$48,231	58		
12	Landslide	Relatively Moderate	Relatively Low	\$3,164		\$43,122	\$46,286	0		Declared 16 times; 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	\$17,927	\$1,482	\$573	\$19,982	0		Declared 1 time; no Storm Events record of this type.
14	Drought	Very Low	Very Low		\$775		\$775	19		
	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 8
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 8
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	8 of 8
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	7 of 8
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.	8 of 8
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	8 of 8
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	8 of 8
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.	8 of 8
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	8 of 8
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.	8 of 8
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.	8 of 8
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	8 of 8
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	8 of 8
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.	8 of 8
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 8
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 8
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.	8 of 8
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	8 of 8

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	27, 1996 to 2026 (27 zone-level)	1 day to 31 days (median 3.5 days); 24 with a recorded value	31 days, 2001-03-01 to 2001-03-31, from 1 monthly summary record (a monthly summary record covers most or all of a month; it does not count days at wave conditions), zone-level	Extreme Cold/Wind Chill, 2014-01-06, \$75,000 property; \$0 crops, reported for the zone (2014 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required. Cold/Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	3, 2003 to 2004 (3 zone-level)		No crop damage reported in 3 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	19, 1999 to 2026 (19 zone-level)	25 days to 184 days (median 31 days); 7 with a recorded value	184 days (6 months), 1999-05-01 to 1999-10-31, a run of 6 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)	51, 1983 to 2024	0.75 in to 1.75 in (median 1 in); 50 with a recorded value	1.75 in hail, 2017-05-27; same size also recorded on 2010-04-05, 2010-06-15, 2016-05-01	Hail, 1993-11-17, \$500,000 property; crops not recorded (1993 dollars)	Event records naming member places: Grayson city (20 records), Olive Hill city (10 records).	
Excessive Heat, Heat	heat index (narratives)	20, 1997 to 2011 (20 zone-level)	1 day to 4 days (median 1.5 days); 6 with a recorded value	4 consecutive days, 2011-07-20 to 2011-07-23, 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.
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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Ice Storm	Sperry-Piltz (local data)	2, 1999 to 2003 (2 zone- level)		Ice Storm, 2003-02-16, \$1,500,000 property; crops not reported, reported for the zone (2003 dollars); NWS zone KYZ102 (CARTER), 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)	101, 1996 to 2026 (13 zone- level)		Flood, 2010-05-02, \$10,000,000 property; \$0 crops (2010 dollars)		Event records naming member places: Olive Hill city (10 records), Grayson city (9 records). Zone-level records (13) 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)	1, 1997 to 1997		Lightning, 1997-08-17, \$30,000 property; crops not reported (1997 dollars)		Event records naming member places: Grayson city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	22, 1999 to 2026 (22 zone- level)	30 kt (35 mph) to 50 kt (58 mph) (median 40 kt (46 mph)); 17 with a recorded value	50 kt (58 mph) estimated gust, High Wind, 2023-04-01; same speed and measurement basis also recorded on 2023-03-03; NWS zone KYZ102 (CARTER), zone- level: may include parts of neighboring counties	Strong Wind, 2014-03-14, \$85,000 property; \$0 crops, reported for the zone (2014 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	84, 1961 to 2026	40 kt (46 mph) to 74 kt (85 mph) (median 50 kt (58 mph)); 55 with a recorded value	74 kt (85 mph) estimated gust, Thunderstorm Wind, 2016-05-01	Thunderstorm Wind, 1995-05-18, \$1,000,000 property; crops not recorded (1995 dollars)	Event records naming member places: Grayson city (20 records), Olive Hill city (12 records).	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Tornado	Enhanced Fujita (F before Feb 2007)	2, 1986 to 2008	F/EF1; 2 with a recorded value	EF1 tornado, 2008-05-11, 1.31 mi within this county, 100 yd wide, \$300,000 property; \$0 crops (2008 dollars)		No event record names a member place.	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	0					Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	58, 1996 to 2026 (58 zone-level)		Heavy Snow, 1998-02-03, \$250,000 property; crops not reported, reported for the zone (1998 dollars); NWS zone KYZ102 (CARTER), 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	37	Counted incidents	32
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Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Flags	Notes
						federal share obligated, nominal dollars			
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	\$191,736.52		new since last plan; 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		new since last plan; 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		new since last plan; within last 5 years	
2024-11-26	2024-09-27	DR-4848-KY	Major disaster	REMNANTS OF HURRICANE HELENE	Hurricane (primary); also designated: Inland Flooding, Landslide, Strong Wind	none found		new since last plan; within last 5 years	
2024-05-22	2024-04-02	DR-4782-KY	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, LANDSLIDES, AND MUDSLIDES	Landslide; Strong Wind; Tornado	PA not declared for this county		new since last plan; within last 5 years	
2023-05-09	2023-02-15	DR-4711-KY	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding (primary); also designated: Landslide, Strong Wind	\$75,376.33		new since last plan; within last 5 years	
2022-02-27	2021-12-31	DR-4643-KY	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, TORNADOES, FLOODING, LANDSLIDES	Inland Flooding; Landslide; Strong Wind; Tornado	\$260,705.02		during plan review, check whether your last plan included it; 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	\$3,315,142.16			
2021-03-31	2021-02-08	DR-4592-KY	Major disaster	SEVERE WINTER STORMS, LANDSLIDES, AND MUDSLIDES	Ice Storm	\$6,248,344.45			
2020-03-28	2020-01-20	DR-4497-KY	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$147,129.97			
2020-03-13	2020-01-20	EM-3469-KY	Emergency	COVID-19	Non-natural, not counted	none found			same incident as DR-4497
2019-04-17	2019-02-06	DR-4428-KY	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding; Landslide; Strong Wind	\$659,685.21			
2018-04-26	2018-02-21	DR-4361-KY	Major disaster	SEVERE STORMS, TORNADOES, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding (primary); also designated: Landslide, Tornado	\$410,816.94			
2015-08-12	2015-07-11	DR-4239-KY	Major disaster	SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDE	Inland Flooding; Landslide; Strong Wind; Tornado	\$202,169.96			
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	\$31,088.45			

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Flags	Notes
						federal share obligated,	nominal dollars		
2015-05-01	2015-04-02	DR-4217-KY	Major disaster	SEVERE STORMS, TORNADOES, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding (primary); also designated: Landslide, Tornado	\$155,910.44			
2011-05-04	2011-04-12	DR-1976-KY	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$450,960.66			
2010-07-23	2010-07-17	DR-1925-KY	Major disaster	SEVERE STORMS, FLOODING, AND MUDSLIDES	Inland Flooding; Landslide	\$173,830.15			
2010-05-11	2010-05-01	DR-1912-KY	Major disaster	SEVERE STORMS, FLOODING, MUDSLIDES, AND TORNADOES	Inland Flooding; Landslide; Tornado	\$698,550.34			
2009-02-05	2009-01-26	DR-1818-KY	Major disaster	SEVERE WINTER STORM AND FLOODING	Ice Storm	\$237,750.78			
2009-01-28	2009-01-27	EM-3302-KY	Emergency	SEVERE WINTER STORM	Ice Storm	none found			same incident as DR-1818
2007-05-25	2007-04-14	DR-1703-KY	Major disaster	SEVERE STORMS, FLOODING, MUDSLIDES, AND ROCKSLIDES	Inland Flooding; Landslide	\$96,640.65			
2005-09-10	2005-08-29	EM-3231-KY	Emergency	HURRICANE KATRINA	Hurricane: evacuation support, not a local hazard event; not counted	none found			
2004-06-10	2004-05-26	DR-1523-KY	Major disaster	SEVERE STORMS, TORNADOES, FLOODING, AND MUDSLIDES	Inland Flooding; Landslide; Tornado	\$551,591.31			
2003-07-02	2003-06-14	DR-1475-KY	Major disaster	SEVERE STORMS, FLOODING, MUD AND ROCK SLIDES, AND TORNADOES	Inland Flooding; Tornado	\$262,593.64			
2003-06-03	2003-05-04	DR-1471-KY	Major disaster	SEVERE STORMS, FLOODING, MUD AND ROCK SLIDES, AND TORNADOES	Inland Flooding; Tornado	\$311,697.78			
2003-03-14	2003-02-15	DR-1454-KY	Major disaster	SEVERE WINTER ICE AND SNOW STORMS, HEAVY RAIN, FLOODING, TORNADOES, AND MUD AND	Inland Flooding; Tornado; Winter Weather	\$1,462,548.94			
2002-04-04	2002-03-17	DR-1407-KY	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$459,449.09			
2000-02-28	2000-02-18	DR-1320-KY	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$34,199.06			
1998-03-03	1998-02-04	DR-1207-KY	Major disaster	SEVERE WINTER STORM	Winter Weather	none found			
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			
1995-06-13	1995-05-13	DR-1055-KY	Major disaster	TORNADOES, SEVERE WINDS, HAIL	Tornado (primary); also designated: Hail	none found			
1993-03-16	1993-03-13	EM-3104-KY	Emergency	SEVERE SNOWFALL & WINTER STORM	Winter Weather	none found			
1989-02-24	1989-01-13	DR-821-KY	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found			

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Flags	Notes
						federal share obligated, nominal dollars			
1978-12-12	1978-12-12	DR-568-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)

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	30	1	0	1	0	0	1996 to 2026-06-30	Includes 3 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
Drought	19	3	0	3	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	51	1	0	1	1	0	1955 to 2026-06-30	
Heat Wave	20	0	0	0	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	1	1	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Ice Storm	2	0	0	0	2	0	1996 to 2026-06-30	

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Inland Flooding	101	25	6	32	24	4	1996 to 2026-06-30	
Landslide	0	0	0	0	16	5	1996 to 2026-06-30	No Storm Events records of this type; 16 federal declared incidents (see declarations table)
Lightning	1	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	106	20	2	22	8	5	1955 to 2026-06-30	Includes 6 High Wind records and 16 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	2	0	0	0	14	2	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	58	12	3	17	6	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
2023-04-01	High Wind	50 kt (58 mph) estimated gust	\$0 property; \$0 crops, reported for the zone (2023 dollars)	0, 0	NWS zone KYZ102 (CARTER), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2017-05-27	Hail	1.75 in	\$0 property; \$0 crops (2017 dollars)	0, 0	OLIVE HILL		B1-c worst recorded: Hail
2016-05-01	Thunderstorm Wind	74 kt (85 mph) estimated gust	\$25,000 property; \$0 crops (2016 dollars)	0, 0	GRAYSON		B1-c worst recorded: Thunderstorm Wind
2011-07-20	Heat		\$0 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone KYZ102 (CARTER), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2010-07-20	Flash Flood		\$5,000,000 property; \$0 crops (2010 dollars)	1, 0	SOLDIER to ROSE HILL		deaths or injuries recorded
2010-05-02	Flood		\$10,000,000 property; \$0 crops (2010 dollars)	0, 0	SOLDIER to WILLARD		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood

				Direct deaths, injuries <i>indirect not counted</i>			
Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>		Location	Flags	Why listed
2008-05-11	Tornado	EF1, 1.31 mi within this county, 100 yd wide	\$300,000 property; \$0 crops (2008 dollars)	0, 0	CORY to COUNTS XRDS		B1-c worst recorded: Tornado
2004-03-05	Flood		\$5,000 property; crops not reported, reported for the zone (2004 dollars)	1, 0	NWS zone KYZ102 (CARTER), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2003-06-16	Flash Flood		\$15,000 property; crops not reported (2003 dollars)	1, 0	COUNTYWIDE		deaths or injuries recorded
2003-02-16	Ice Storm		\$1,500,000 property; crops not reported, reported for the zone (2003 dollars)	0, 0	NWS zone KYZ102 (CARTER), zone-level: may include parts of neighboring counties		B1-c worst recorded: Ice Storm
2001-03-01	Cold/Wind Chill		damage not reported	0, 0	NWS zone KYZ102 (CARTER), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1997-08-17	Lightning		\$30,000 property; crops not reported (1997 dollars)	0, 0	GRAYSON		B1-c worst recorded: Lightning

The full list is in the XLSX file, sheet "B1-d Storm Events history" (390 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

		FEMA annualized frequency (modeled) <i>unit per row</i>			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
Hazard		Unit	In plain terms	Descriptor					
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.

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
Cold Wave	0.895	event-days per year	about 0.895 days per year	Likely	event-days in 10 of 30 years, 1996 to 2025 (33.3%)	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	2.67	event-days per year	about 2.67 days per year	Likely	event-days in 6 of 30 years, 1996 to 2025 (20%)	84	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 2.67 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 6 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Earthquake	0.00145	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.145%			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	3.04	events per year	about 3.04 per year	Highly likely	FEMA annualized frequency (modeled)	115.3 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	4.11	event-days per year	about 4.11 days per year	Likely	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	72	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 4.11 heat wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 8 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Hurricane	0.023	events per year	about 1 in 43 years	Possible	FEMA annualized frequency (modeled)	8	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.
Ice Storm	0.549	event-days per year	about 0.549 days per year	Possible	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	37	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	2.39	event-days per year	about 2.39 days per year	Likely	event-days in 25 of 30 years, 1996 to 2025 (83.3%)	67	1996 to 2023 (28 years)	see B1-f	
Landslide	1.13	events per year (modeled)	about 1.13 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	

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
Lightning	49.5	days per year with a strike	about 49.5 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	2.81	events per year	about 2.81 per year	Highly likely	FEMA annualized frequency (modeled)	107	1986 to 2023 (38 years)	countywide	
Tornado	0.122	events per year	about 1 in 8 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	0.000975	annual probability at a location	chance a given location in the county burns in a year: 0.0975%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)
Winter Weather	8.68	event-days per year	about 8.68 days per year	Likely	event-days in 24 of 30 years, 1996 to 2025 (80%)	165	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	29	30	0.967
Hail	2.00 in+	1996 to 2025	0	30	0
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	47	30	1.57
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	2	30	0.0667
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	18	30	0.6
Tornado	EF0-1	1996 to 2025	1	30	0.0333
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

SOURCE

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts rated of all	Risk score min NRI score, 0 to 100	Median	Max	Tracts by rating	Note
Avalanche	0 of 8				Not Applicable 8	
Coastal Flooding	0 of 8				Not Applicable 8	
Cold Wave	8 of 8	27.0	35.5	47.0	Relatively Low 8	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	7 of 8	70.3	73.0	76.4	Very Low 7, 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	8 of 8	29.2	35.7	60.5	Relatively Low 2, Very Low 6	
Hail	8 of 8	56.0	63.3	72.0	Relatively Moderate 3, Relatively Low 5	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	8 of 8	86.3	94.2	96.7	Very High 1, Relatively High 7	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	8 of 8	39.7	42.2	45.9	Very Low 8	
Ice Storm	8 of 8	67.9	77.8	86.4	Relatively Moderate 6, Relatively Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	8 of 8	67.4	84.5	98.5	Very High 2, Relatively High 3, Relatively Moderate 3	
Landslide	8 of 8	94.0	96.7	98.9	Relatively Moderate 6, Relatively Low 2	
Lightning	8 of 8	47.1	68.9	85.0	Relatively High 1, Relatively Moderate 6, Relatively Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	8 of 8	55.8	79.4	84.6	Relatively High 2, Relatively Moderate 6	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	8 of 8	41.5	61.2	69.2	Relatively Moderate 7, Relatively Low 1	
Tsunami	0 of 8				Not Applicable 8	
Volcanic Activity	0 of 8				Not Applicable 8	
Wildfire	8 of 8	78.8	82.6	88.4	Relatively Moderate 1, Relatively Low 7	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Winter Weather	8 of 8	59.1	74.4	85.1	Relatively High 3, Relatively Moderate 5	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

Rated tracts only: No Rating (score 0.0), Not Applicable and Insufficient Data tracts are counted but not used for the minimum, median and maximum.

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

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Carter County (unincorporated area)	Unincorporated	Approved, expires 2028-01-26	FMA RL 2, SRL 4; any 29	\$620,735.76	0; 0	
Grayson city	City	Approved, expires 2028-01-26	FMA RL 0, SRL 1; any 6	\$272,713.32	50; 4	
Olive Hill city	City	Approved, expires 2028-01-26	FMA RL 9, SRL 2; any 20	\$800,247.69	32; 5	

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 2023-01-27 <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	\$4,318,216,587	\$8,867,658	26,602	\$15,756	\$2,203	\$160,589	0.000365%		\$0		
Drought		\$2,232,137			\$775		0.0347% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$7,470,207,399		26,627	\$107,832		\$34,605	0.00144%				
Hail	\$4,318,216,587	\$8,867,658	26,602	\$77,305	\$2,788	\$26,599	0.00179%	\$0			
Heat Wave	\$4,318,216,587	\$8,867,658	26,602	\$14	\$10	\$1,864,308	under 0.0001%				
Hurricane	\$4,317,082,336	\$8,862,600	26,598	\$17,927	\$1,482	\$573	0.000415%			none found (1 declaration)	
Ice Storm	\$4,318,216,587		26,602	\$66,151		\$40,303	0.00153%				
Inland Flooding	\$4,313,319,932	\$3,077,369	2,239	\$8,960,904	\$36,072	\$1,502,221	n/a (see note)	\$3,750		\$267,112.85	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	\$923,328,609		7,355	\$3,164		\$43,122	0.000343%			\$267,112.85	
Lightning	\$4,318,216,587		26,602	\$4,998		\$133,858	0.000116%				
Strong Wind	\$4,318,216,587	\$8,867,658	26,602	\$96,614	\$5,931	\$216,815	0.00224%	\$12,750	\$11,000	\$267,112.85	Storm Events damage since the plan includes 7 zone-level Strong Wind records (\$11,000), an event type the NRI definition of this hazard leaves out.
Tornado	\$4,318,216,587	\$8,867,658	26,602	\$234,160	\$157	\$480,708	0.00542%			\$191,736.52	
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county

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 2023-01-27 <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
Wildfire	\$534,014,209	\$3,814,724	9,577	\$47,941	\$31	\$13,962	0.00898%				
Winter Weather	\$4,318,216,587	\$8,867,658	26,602	\$8,420	under \$1	\$39,811	0.000195%		\$0	none found (1 declaration)	

Totals since 2023-01-27 (Storm Events through 2026-06-30): 37 county-coded records, 37 with a damage value recorded (including \$0), \$16,500; 25 zone-level records, 25 with a damage value recorded (including \$0), \$11,000 reported for the zone; Public Assistance on counted declarations \$267,112.85 (7 declarations, 2 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	26,602
Building value (total, not at risk)	\$4,318,216,587
Agriculture value (total, not at risk)	\$8,867,658
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$9,690,632
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)	\$4,557,474
Social vulnerability rating	Relatively High
Community resilience rating	Very Low
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)	11	Severe repetitive loss, FMA definition (44 CFR 77.2)	7
Repetitive loss, NFIP insurance definition	49	Severe repetitive loss, NFIP insurance definition	7

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	11	7	49	7	55	6	11
CARTER COUNTY *	2	4	29	4	29	0	3
GRAYSON, CITY OF	0	1	6	1	6	0	1
OLIVE HILL, CITY OF	9	2	14	2	20	6	7

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
Carter County (unincorporated area)	210050	2	4	29	4	29	0	3	
Grayson city	210051	0	1	6	1	6	0	1	
Olive Hill city	210052	9	2	14	2	20	6	7	

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	4	5	36	5	36	0	7

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>
2 to 4 unit residential	5	0	0	0	5	5	0
other residential	1	0	2	0	3	1	0
non-residential	1	2	11	2	11	0	4
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 6 properties are FMA repetitive loss but not NFIP repetitive loss, and 44 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_Gaz_cousubs_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_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_21043. Preview: automated baseline.