

Greenup County, KY

Risk-assessment baseline packet

Unit **County area 21089** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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

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

OPENFEMA DISCLAIMER

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Plan clock

Status	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-4782-KY, DR-4804-KY, DR-4848-KY, EM-3624-KY, DR-4860-KY, EM-3626-KY, DR-4864-KY, EM-3633-KY (8 declaration rows; 6 counted incidents)	Storm Events records since approval	133 (data through 2026-06-30)
Repetitive loss now	FMA RL 19, SRL 31 (44 CFR 77.2); any definition: 67	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
Greenup 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
Bellefonte city	City	Approved, expires 2028-01-26	FIVCO ADD Regional (FEMA plan 108798)	2023-01-27	2028-01-26	485		member approved 2024-02-21
Flatwoods city	City	Approved, expires 2028-01-26	FIVCO ADD Regional (FEMA plan 108798)	2023-01-27	2028-01-26	485		member approved 2023-06-28
Greenup 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

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Raceland city	City	Approved, expires 2028-01-26	FIVCO ADD Regional (FEMA plan 108798)	2023-01-27	2028-01-26	485		member approved 2024-02-21
Russell 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
South Shore city	City	Approved, expires 2028-01-26	FIVCO ADD Regional (FEMA plan 108798)	2023-01-27	2028-01-26	485		member approved 2023-06-28
Worthington 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
Wurtland city	City	Approved, expires 2028-01-26	FIVCO ADD Regional (FEMA plan 108798)	2023-01-27	2028-01-26	485		member approved 2023-06-28

Plan 108798 lists 11 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 <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Relatively Low	Relatively Low	\$10,994,539	\$39,581	\$299,640	\$11,333,761	94		
2	Heat Wave	Relatively Moderate	Relatively Moderate	\$19	\$9	\$2,373,220	\$2,373,248	20		
3	Tornado	Relatively Low	Relatively Low	\$277,569	\$142	\$563,469	\$841,180	3		
4	Strong Wind	Relatively Low	Relatively Low	\$75,445	\$3,043	\$422,672	\$501,160	201		Includes 7 High Wind records and 23 Strong Wind records, event types the NRI definition of this hazard leaves out.
5	Lightning	Relatively Low	Relatively Low	\$6,626		\$203,850	\$210,476	3		
6	Cold Wave	Very Low	Relatively Low	\$22,410	\$1,591	\$156,268	\$180,269	30		Includes 3 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
7	Earthquake	Very Low	Very Low	\$127,063		\$43,622	\$170,685			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
8	Ice Storm	Relatively Low	Relatively Low	\$66,705		\$56,439	\$123,144	1		
9	Hail	Very Low	Very Low	\$53,358	\$332	\$642	\$54,333	58		
10	Winter Weather	Relatively Low	Relatively Low	\$12,575	\$34	\$41,054	\$53,663	60		

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
11	Landslide	Relatively Low	Relatively Low	\$1,799		\$25,300	\$27,099	0		Declared 11 times; no Storm Events record of this type. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
12	Hurricane	Very Low	Very Low	\$24,376	\$1,008	\$794	\$26,179	0		Declared 1 time; no Storm Events record of this type.
13	Wildfire	Very Low	Very Low	\$18,678	\$10	\$5,723	\$24,411	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
14	Drought	Very Low	Very Low		\$564		\$564	19		
15	Avalanche	Very Low	Very Low	under \$1		\$33	\$33	0		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.	1 of 9

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 9
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	9 of 9
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	6 of 9
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.	9 of 9
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	9 of 9
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	9 of 9
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.	9 of 9
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	9 of 9
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.	9 of 9
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.	9 of 9
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	9 of 9
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	9 of 9
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.	9 of 9
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 9
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 9
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 9
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	9 of 9

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, \$250,000 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)	60, 1976 to 2025	0.75 in to 2 in (median 0.88 in); 60 with a recorded value	2 in hail, 2011-09-14; same size also recorded on 1998-05-24		Event records naming member places: Greenup city (10 records), Flatwoods city (6 records), South Shore city (6 records), Russell city (4 records), Worthington city (2 records), Bellefonte city (1 record).	
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)	1, 2003 to 2003 (1 zone- level)		Ice Storm, 2003-02-16, \$500,000 property; crops not reported, reported for the zone (2003 dollars); NWS zone KYZ101 (GREENUP), 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)	94, 1996 to 2026 (13 zone- level)		Flood, 2010-05-02, \$3,500,000 property; \$0 crops (2010 dollars)		Event records naming member places: Greenup city (12 records), South Shore city (9 records), Flatwoods city (7 records), Worthington city (7 records), Raceland city (6 records), Wurtland city (3 records), Bellefonte city (2 records), Russell city (1 record). 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)	3, 2011 to 2017		Lightning, 2017-05-19, \$20,000 property; \$0 crops (2017 dollars)		Event records naming member places: Bellefonte city (1 record), Worthington 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)	30, 1999 to 2026 (30 zone- level)	27 kt (31 mph) to 50 kt (58 mph) (median 40 kt (46 mph)); 25 with a recorded value	50 kt (58 mph) estimated gust, High Wind, 2023-04-01; same speed and measurement basis also recorded on 2004-12-07, 2023-03-03; NWS zone KYZ101 (GREENUP), zone-level: may include parts of neighboring counties	Strong Wind, 2019-02-24, \$25,000 property; \$0 crops, reported for the zone (2019 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	181, 1957 to 2026	40 kt (46 mph) to 78 kt (90 mph) (median 50 kt (58 mph)); 162 with a recorded value	78 kt (90 mph) estimated gust, Thunderstorm Wind, 2024-05-22	Thunderstorm Wind, 2012-06-29, \$750,000 property; \$0 crops (2012 dollars)	Event records naming member places: Flatwoods city (31 records), Greenup city (16 records), Worthington city (16 records), Wurtland city (9 records), Raceland city (8 records), South Shore city (7 records), Bellefonte city (5 records), Russell city (5 records).	Speeds under 20 kt (likely entry errors) are left out of the observed range.

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)	5, 1968 to 2024	F/EF0 to F/EF3 (median F/EF1); 5 with a recorded value	F3 tornado, 1968-04-23, 33 yd wide, \$2,500,000 property; crops not recorded (1968 dollars), 5 direct injuries		Event records naming member places: Greenup city (1 record), Worthington city (1 record).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	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)	60, 1996 to 2026 (60 zone-level)		Heavy Snow, 1998-02-03, \$200,000 property; crops not reported, reported for the zone (1998 dollars); NWS zone KYZ101 (GREENUP), zone-level: may include parts of neighboring counties	Winter Storm, 2014-02-04, \$200,000 property; \$0 crops, reported for the zone (2014 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	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

33

Counted incidents

27

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	\$670,504.92	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
2025-02-24	2025-02-14	DR-4860-KY	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding; Landslide; Strong Wind	\$119,659.13	new since last plan; within last 5 years	
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	same incident as DR-4860
2024-11-26	2024-09-27	DR-4848-KY	Major disaster	REMNANTS OF HURRICANE HELENE	Hurricane (primary); also designated: Inland Flooding, Landslide, Strong Wind	\$437,818.90	new since last plan; 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	PA not declared for this county	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	
2021-04-23	2021-02-27	DR-4595-KY	Major disaster	SEVERE, STORMS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding (primary); also designated: Landslide	\$236,137.82		
2021-03-31	2021-02-08	DR-4592-KY	Major disaster	SEVERE WINTER STORMS, LANDSLIDES, AND MUDSLIDES	Ice Storm	\$808,722.79		
2020-03-28	2020-01-20	DR-4497-KY	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$11,826.17		
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	none found		
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	\$180,478.70		
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	\$244,347.35		
2011-05-04	2011-04-12	DR-1976-KY	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$323,740.84		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Flags	Notes
						federal share obligated,	nominal dollars		
2010-05-11	2010-05-01	DR-1912-KY	Major disaster	SEVERE STORMS, FLOODING, MUDSLIDES, AND TORNADOES	Inland Flooding; Landslide; Tornado	\$532,508.70			
2009-02-05	2009-01-26	DR-1818-KY	Major disaster	SEVERE WINTER STORM AND FLOODING	Ice Storm	\$278,041.65			
2009-01-28	2009-01-27	EM-3302-KY	Emergency	SEVERE WINTER STORM	Ice Storm	none found			same incident as DR-1818
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	PA not declared for this county			
2003-07-02	2003-06-14	DR-1475-KY	Major disaster	SEVERE STORMS, FLOODING, MUD AND ROCK SLIDES, AND TORNADOES	Inland Flooding; Tornado	PA not declared for this county			
2003-06-03	2003-05-04	DR-1471-KY	Major disaster	SEVERE STORMS, FLOODING, MUD AND ROCK SLIDES, AND TORNADOES	Inland Flooding; Tornado	\$421,982.90			
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	\$2,587,568.26			
2002-04-04	2002-03-17	DR-1407-KY	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$624,949.38			
2000-02-28	2000-02-18	DR-1320-KY	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$686,715.29			
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			
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			
1968-05-04	1968-05-04	DR-237-KY	Major disaster	TORNADOES & SEVERE STORMS	Tornado	none found			
1967-03-27	1967-03-27	DR-226-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 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	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	60	1	0	1	0	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	1	0	0	0	2	0	1996 to 2026-06-30	
Inland Flooding	94	32	0	33	18	3	1996 to 2026-06-30	
Landslide	0	0	0	0	11	5	1996 to 2026-06-30	No Storm Events records of this type; 11 federal declared incidents (see declarations table)
Lightning	3	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	211	83	6	90	6	5	1955 to 2026-06-30	Includes 7 High Wind records and 23 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	5	1	1	2	12	3	1950 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
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	60	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
2024-05-22	Thunderstorm Wind	78 kt (90 mph) estimated gust	\$5,000 property; \$0 crops (2024 dollars)	0, 0	LLOYD	new since last plan; within last 5 years	B1-c worst recorded: Thunderstorm Wind
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 KYZ101 (GREENUP), 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)
2019-12-16	Flood		\$25,000 property; \$0 crops (2019 dollars)	1, 0	HUNNEWELL to KENWOOD		deaths or injuries recorded
2017-05-19	Lightning		\$20,000 property; \$0 crops (2017 dollars)	0, 0	BELLEFONTE		B1-c worst recorded: Lightning
2011-09-14	Hail	2 in	\$750,000 property; \$0 crops (2011 dollars)	0, 0	LLOYD		B1-c worst recorded: Hail
2011-07-20	Heat		\$0 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone KYZ101 (GREENUP), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2010-05-02	Flood		\$3,500,000 property; \$0 crops (2010 dollars)	0, 0	SOUTH SHORE to KENWOOD		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2007-08-16	Thunderstorm Wind	40 kt (46 mph) estimated gust	\$5,000 property; \$0 crops (2007 dollars)	1, 0	FLATWOODS		deaths or injuries recorded
2003-02-16	Ice Storm		\$500,000 property; crops not reported, reported for the zone (2003 dollars)	0, 0	NWS zone KYZ101 (GREENUP), 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 KYZ101 (GREENUP), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
1998-02-03	Heavy Snow		\$200,000 property; crops not reported, reported for the zone (1998 dollars)	0, 0	NWS zone KYZ101 (GREENUP), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
1968-04-23	Tornado	F3, 33 yd wide	\$2,500,000 property; crops not recorded (1968 dollars)	0, 5	location not recorded		deaths or injuries recorded

The full list is in the XLSX file, sheet "B1-d Storm Events history" (503 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	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1994 to 2023 (30 years)	see B1-f	0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events.
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 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.

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
Drought	1.99	event-days per year	about 1.99 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 1.99 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	0.00111	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.111%			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	3.02	events per year	about 3.02 per year	Highly likely	FEMA annualized frequency (modeled)	114.9 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	4.32	event-days per year	about 4.32 days per year	Likely	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	74	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 4.32 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	0.0214	events per year	about 1 in 47 years	Possible	FEMA annualized frequency (modeled)	6	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	0.566	event-days per year	about 0.566 days per year	Possible	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	38	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	2.14	event-days per year	about 2.14 days per year	Likely	event-days in 25 of 30 years, 1996 to 2025 (83.3%)	60	1996 to 2023 (28 years)	see B1-f	
Landslide	0.767	events per year (modeled)	about 0.77 per year	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	48.6	days per year with a strike	about 48.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	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
Strong Wind	2.45	events per year	about 2.45 per year	Highly likely	FEMA annualized frequency (modeled)	93	1986 to 2023 (38 years)	countywide	
Tornado	0.107	events per year	about 1 in 9 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	0.000731	annual probability at a location	chance a given location in the county burns in a year: 0.0731%		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	8.53	event-days per year	about 8.53 days per year	Likely	event-days in 24 of 30 years, 1996 to 2025 (80%)	162	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

Unit	Descriptor	Definition
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	19	30	0.633
Hail	2.00 in+	1996 to 2025	2	30	0.0667
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	141	30	4.7
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	23	30	0.767
Tornado	EF0-1	1996 to 2025	3	30	0.1
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 <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	1 of 9	9.3	9.3	9.3	Very Low 1, Not Applicable 8	
Coastal Flooding	0 of 9				Not Applicable 9	
Cold Wave	9 of 9	28.6	32.2	42.6	Relatively Low 9	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	6 of 9	67.0	72.1	76.2	Very Low 6, No Rating 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. 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	9 of 9	27.3	39.6	58.1	Relatively Low 4, Very Low 5	
Hail	9 of 9	39.8	46.4	59.9	Relatively Low 9	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	9 of 9	91.9	94.0	96.8	Very High 1, Relatively High 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.
Hurricane	9 of 9	37.5	42.7	49.0	Very Low 9	
Ice Storm	9 of 9	70.3	77.5	88.2	Relatively Moderate 9	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	9 of 9	29.5	85.4	98.0	Very High 3, Relatively High 3, Relatively Moderate 1, Relatively Low 2	
Landslide	9 of 9	69.8	87.3	97.9	Relatively Moderate 3, Relatively Low 3, Very Low 3	
Lightning	9 of 9	65.4	74.0	89.3	Relatively High 4, 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.
Strong Wind	9 of 9	74.4	82.4	91.1	Relatively High 4, 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.
Tornado	9 of 9	48.7	58.5	69.5	Relatively Moderate 7, Relatively Low 2	
Tsunami	0 of 9				Not Applicable 9	
Volcanic Activity	0 of 9				Not Applicable 9	
Wildfire	8 of 9	50.3	71.7	86.4	Relatively Low 5, Very Low 3, No Rating 1	
Winter Weather	9 of 9	64.9	73.1	84.0	Relatively High 1, Relatively Moderate 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.

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
Greenup County (unincorporated area)	Unincorporated	Approved, expires 2028-01-26	FMA RL 16, SRL 26; any 53	\$387,028.48	0; 0	
Bellefonte city	City	Approved, expires 2028-01-26	FMA RL 0, SRL 0; any 0	none found	9; 6	
Flatwoods city	City	Approved, expires 2028-01-26	FMA RL 0, SRL 0; any 3	\$147,125.17	44; 16	
Greenup city	City	Approved, expires 2028-01-26	FMA RL 1, SRL 1; any 6	none found	39; 5	
Raceland city	City	Approved, expires 2028-01-26	FMA RL 0, SRL 0; any 0	\$191,402.76	14; 8	
Russell city	City	Approved, expires 2028-01-26	FMA RL 1, SRL 3; any 3	\$258,803.77	10; 4	Includes \$11,826.17 for declarations not counted as hazard incidents (DR-4497-KY).
South Shore city	City	Approved, expires 2028-01-26	FMA RL 0, SRL 0; any 0	\$25,638.86	22; 1	
Worthington city	City	Approved, expires 2028-01-26	FMA RL 0, SRL 0; any 1	\$6,188.27	27; 17	
Wurtland city	City	Approved, expires 2028-01-26	FMA RL 1, SRL 1; any 1	\$17,819.99	12; 7	

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	\$199,853		under 1	under \$1		\$33	under 0.0001%				
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$6,048,798,791	\$7,458,266	35,905	\$22,410	\$1,591	\$156,268	0.00037%		\$0		
Drought		\$2,912,525			\$564		0.0194% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$10,366,939,714		35,962	\$127,063		\$43,622	0.00123%				
Hail	\$6,048,798,791	\$7,458,266	35,905	\$53,358	\$332	\$642	0.000882%	\$0			
Heat Wave	\$6,048,798,791	\$7,458,266	35,905	\$19	\$9	\$2,373,220	under 0.0001%				
Hurricane	\$6,046,408,023	\$7,441,180	35,881	\$24,376	\$1,008	\$794	0.000403%			\$437,818.90	
Ice Storm	\$6,047,454,594		35,897	\$66,705		\$56,439	0.0011%				
Inland Flooding	\$6,042,013,237	\$4,035,179	3,639	\$10,994,539	\$39,581	\$299,640	n/a (see note)	\$12,000		\$1,227,982.95	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	\$774,797,265		5,257	\$1,799		\$25,300	0.000232%			\$1,227,982.95	
Lightning	\$6,048,798,791		35,905	\$6,626		\$203,850	0.00011%				
Strong Wind	\$6,048,798,791	\$7,458,266	35,905	\$75,445	\$3,043	\$422,672	0.00125%	\$133,800	\$25,000	\$1,227,982.95	Storm Events damage since the plan includes 11 zone-level Strong Wind records (\$25,000), an event type the NRI definition of this hazard leaves out.
Tornado	\$6,048,798,791	\$7,458,266	35,905	\$277,569	\$142	\$563,469	0.00459%	\$2,000,000		\$670,504.92	

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
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$314,474,914	\$1,939,038	5,671	\$18,678	\$10	\$5,723	0.00594%				
Winter Weather	\$6,048,798,791	\$7,458,266	35,905	\$12,575	\$34	\$41,054	0.000208%		\$0	none found (1 declaration)	

Totals since 2023-01-27 (Storm Events through 2026-06-30): 104 county-coded records, 104 with a damage value recorded (including \$0), \$2,145,800; 29 zone-level records, 29 with a damage value recorded (including \$0), \$25,000 reported for the zone; Public Assistance on counted declarations \$1,227,982.95 (8 declarations, 3 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	35,905
Building value (total, not at risk)	\$6,048,798,791
Agriculture value (total, not at risk)	\$7,458,266
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$11,727,479
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)	\$4,192,725
Social vulnerability rating	Relatively Moderate
Community resilience rating	Relatively 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)	19	Severe repetitive loss, FMA definition (44 CFR 77.2)	31
Repetitive loss, NFIP insurance definition	67	Severe repetitive loss, NFIP insurance definition	30

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	19	31	67	30	67	0	15
FLATWOODS, CITY OF	0	0	3	0	3	0	0
GREENUP, CITY OF	1	1	6	1	6	0	1
RUSSELL, CITY OF	1	3	3	3	3	0	1
WORTHINGTON, CITY OF	0	0	1	0	1	0	0
GREENUP COUNTY*	16	26	53	25	53	0	13
WURLAND, CITY OF	1	1	1	1	1	0	0

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

Repeat-flood properties by plan member (NFIP community)

Member	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>	Note
Greenup County (unincorporated area)	210284	16	26	53	25	53	0	13	
Bellefonte city	215231	0	0	0	0	0	0	0	
Flatwoods city	210087	0	0	3	0	3	0	0	
Greenup city	210088	1	1	6	1	6	0	1	
Raceland city	210089	0	0	0	0	0	0	0	
Russell city	210090	1	3	3	3	3	0	1	

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
South Shore city	210091	0	0	0	0	0	0	0	
Worthington city	210092	0	0	1	0	1	0	0	
Wurtland city	210285	1	1	1	1	1	0	0	

Per-member types: XLSX sheet 'B2-c Members'.

Member rows are whole NFIP communities and need not add up to the county total: a community that extends into another county is counted in full on each member row, while the county table counts only its part in this county.

SOURCES

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

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

County repeat-flood properties by occupancy group

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	17	26	60	25	60	0	13
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	1	2	1	2	0	1
non-residential	2	4	5	4	5	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 48 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

Every table above lists its own sources. The full list, for the plan's bibliography (FEMA review item A4-a):

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-28, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

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Cite this: Hazard Plain (2026). Greenup County, KY: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 21089). Preview: automated baseline. Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_KY_21089. Preview: automated baseline.