

Mecklenburg County, NC

Risk-assessment baseline packet

Unit **County area 37119** 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 2030-10-13	Plan	Mecklenburg County (FEMA plan 111011)
Approved	2025-10-14	Expires	2030-10-13
As of	2026-09-28	Days	1,476 days to expiry

What changed since your last plan (approved 2025-10-14)

New federal declarations	EM-3637-NC (1 declaration row; 1 counted incident)	Storm Events records since approval	8 (data through 2026-06-30)
Repetitive loss now	FMA RL 27, SRL 67 (44 CFR 77.2); any definition: 330	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
Mecklenburg County (unincorporated area)	Unincorporated	Approved, expires 2030-10-13	Mecklenburg County (FEMA plan 111011)	2025-10-14	2030-10-13	1,476		member approved 2025-10-21
Charlotte city	City	Approved, expires 2030-10-13	Mecklenburg County (FEMA plan 111011)	2025-10-14	2030-10-13	1,476		member approved 2025-10-21
Cornelius town	Town	Approved, expires 2030-10-13	Mecklenburg County (FEMA plan 111011)	2025-10-14	2030-10-13	1,476		member approved 2025-10-17
Davidson town	Town	Approved, expires 2030-10-13	Mecklenburg County (FEMA plan 111011)	2025-10-14	2030-10-13	1,476		member approved 2025-10-21
Huntersville town	Town	Approved, expires 2030-10-13	Mecklenburg County (FEMA plan 111011)	2025-10-14	2030-10-13	1,476		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Matthews town	Town	Approved, expires 2030-10-13	Mecklenburg County (FEMA plan 111011)	2025-10-14	2030-10-13	1,476		member approved 2025-10-21
Mint Hill town	Town	Approved, expires 2030-10-13	Mecklenburg County (FEMA plan 111011)	2025-10-14	2030-10-13	1,476		
Pineville town	Town	Approved, expires 2030-10-13	Mecklenburg County (FEMA plan 111011)	2025-10-14	2030-10-13	1,476		member approved 2025-10-21
University of North Carolina Western Campuses	College/University	Expired on 2026-09-01	University of North Carolina Western Campuses (FEMA plan 107579)	2021-09-02	2026-09-01	-27	FEMA tracker shows a plan in review	

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 High	Relatively High	\$252,894,637	\$754	\$3,515,452	\$256,410,844	126		
2	Tornado	Relatively High	Relatively High	\$10,476,261	\$151	\$13,978,023	\$24,454,435	14		
3	Earthquake	Relatively Moderate	Relatively Moderate	\$9,023,813		\$1,935,278	\$10,959,092			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
4	Heat Wave	Relatively Moderate	Relatively Moderate	\$133	\$5	\$6,328,157	\$6,328,294	4		
5	Cold Wave	Relatively Moderate	Relatively High	\$15,105	\$56,090	\$4,981,984	\$5,053,179	12		Includes 3 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
6	Hurricane	Relatively Moderate	Relatively Moderate	\$3,813,985	\$10,698	\$209,001	\$4,033,683	4		
7	Hail	Relatively High	Relatively High	\$3,249,733	\$266	\$68,164	\$3,318,162	171		
8	Strong Wind	Relatively High	Relatively High	\$186,641	\$42	\$2,544,286	\$2,730,968	369		Includes 13 High Wind records and 11 Strong Wind records, event types the NRI definition of this hazard leaves out.
9	Lightning	Relatively High	Relatively High	\$231,190		\$2,006,071	\$2,237,262	46		

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	Ice Storm	Relatively High	Very High	\$1,511,256		\$457,234	\$1,968,490	6		
11	Winter Weather	Relatively High	Relatively High	\$97,620	\$17	\$247,043	\$344,680	65		Includes 3 Sleet records, event types the NRI definition of this hazard leaves out.
12	Wildfire	Very Low	Relatively Low	\$105,381	\$1	\$13,363	\$118,745	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.
13	Drought	Very Low	Very Low		\$24,842		\$24,842	35		
14	Landslide	Relatively Low	Very Low	\$8,278		\$177	\$8,455	0		Declared 1 time; no Storm Events record of this type. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	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 305
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 305
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	305 of 305
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	23 of 305
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.	305 of 305
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	305 of 305
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	305 of 305
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.	305 of 305
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	305 of 305
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.	305 of 305
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.	305 of 305
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	305 of 305
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	305 of 305
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.	305 of 305
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 305
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 305
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.	292 of 305
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	305 of 305

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	9, 1996 to 2026 (9 zone-level)	1 day to 31 days (median 2 days); 9 with a recorded value	31 days, 2000-12-01 to 2000-12-31, 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		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	3, 2002 to 2007 (3 zone-level)		Frost/Freeze, 2007-04-08, \$1,000,000 crop damage, reported for the zone (2007 dollars); NWS zone NCZ071 (MECKLENBURG), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Temperature: in event narratives only; local data required.
Drought	US Drought Monitor D-scale	35, 1998 to 2026 (35 zone-level)	31 days to 276 days (median 61 days); 12 with a recorded value	276 days (9 months), 2007-05-01 to 2008-01-31, a run of 9 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)	246, 1955 to 2025	0.75 in to 3 in (median 0.89 in); 246 with a recorded value	3 in hail, 1974-04-03	Hail, 1996-05-24, \$1,000,000 property; crops not reported (1996 dollars)	Event records naming member places: Charlotte city (52 records), Huntersville town (18 records), Matthews town (14 records), Pineville town (14 records), Mint Hill town (12 records), Cornelius town (9 records), Davidson town (3 records).	
Excessive Heat, Heat	heat index (narratives)	4, 1998 to 2012 (4 zone-level)	1 day to 3 days (median 1 day); 3 with a recorded value	3 consecutive days, 2012-06-29 to 2012-07-01, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	4, 2018 to 2024 (4 zone-level)		Strongest recorded (records with damage, a wind speed or direct casualties first, then storm type, category and wind): Tropical Storm record, 2024-09-27, \$3,000,000 property; \$0 crops, reported for the zone (2024 dollars), 2 direct deaths (reported for the zone); NWS zone NCZ071 (MECKLENBURG), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	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)	6, 1996 to 2005 (6 zone- level)		Ice Storm, 2002-12-04, \$40,000,000 property; crops not reported, reported for the zone (2002 dollars); NWS zone NCZ071 (MECKLENBURG), 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)	126, 1996 to 2025 (6 zone- level)		Flash Flood, 2024-09-27, \$25,000,000 property; \$0 crops (2024 dollars)		Event records naming member places: Charlotte city (46 records), Pineville town (14 records), Matthews town (6 records), Huntersville town (2 records), Cornelius town (1 record). Zone-level records (6) 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)	46, 1997 to 2017		Lightning, 2003-07-29, \$30,000 property; crops not reported (2003 dollars), 3 direct deaths, 1 direct injury	Lightning, 1998-07-20, \$1,000,000 property; crops not reported (1998 dollars)	Event records naming member places: Charlotte city (23 records), Huntersville town (4 records), Matthews town (4 records), Pineville town (3 records).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	24, 1996 to 2024 (24 zone- level)	35 kt (40 mph) to 65 kt (75 mph) (median 47.5 kt (55 mph)); 20 with a recorded value	65 kt (75 mph) estimated gust, High Wind, 2004-03-07, 1 direct death, 2 direct injuries (reported for the zone); NWS zone NCZ071 (MECKLENBURG), zone- level: may include parts of neighboring counties	High Wind, 2007-04-16, \$500,000 property; \$0 crops, reported for the zone (2007 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	429, 1957 to 2026	40 kt (46 mph) to 80 kt (92 mph) (median 50 kt (58 mph)); 355 with a recorded value	80 kt (92 mph), measurement type not recorded, Thunderstorm Wind, 1962-07-23	Thunderstorm Wind, 2020-05-22, \$500,000 property; \$0 crops (2020 dollars)	Event records naming member places: Charlotte city (104 records), Huntersville town (30 records), Mint Hill town (23 records), Pineville town (21 records), Matthews town (18 records), Cornelius town (15 records), Davidson town (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)	28, 1960 to 2026	F/EF0 to F/EF2 (median F/EF1); 28 with a recorded value	F2 tornado, 1992-03-10, 3.4 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 180 yd wide, \$2,500,000 property; crops not recorded (1992 dollars), 18 direct injuries		Event records naming member places: Charlotte city (4 records), Pineville town (2 records), Cornelius town (1 record), Huntersville town (1 record), Mint Hill town (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)	65, 1996 to 2026 (65 zone- level)		Heavy Snow, 2004-02-26, \$2,500,000 property; crops not reported, reported for the zone (2004 dollars); NWS zone NCZ071 (MECKLENBURG), 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

18

Counted incidents

14

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	2026-01-21	EM-3637-NC	Emergency	SEVERE WINTER STORM	Winter Weather	none found	new since last plan; within last 5 years	
2024-09-28	2024-09-25	DR-4827-NC	Major disaster	TROPICAL STORM HELENE	Hurricane	\$892,010.67	within last 5 years	
2024-09-26	2024-09-25	EM-3617-NC	Emergency	HURRICANE HELENE	Hurricane (primary); also designated: Inland Flooding, Landslide	none found	within last 5 years	same incident as DR-4827
2024-08-06	2024-08-05	EM-3608-NC	Emergency	TROPICAL STORM DEBBY	Hurricane	none found	within last 5 years	
2022-10-01	2022-09-28	EM-3586-NC	Emergency	HURRICANE IAN	Hurricane	none found	within last 5 years	
2020-08-02	2020-07-31	EM-3534-NC	Emergency	HURRICANE ISAIAS	Hurricane	none found		
2020-03-25	2020-01-20	DR-4487-NC	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$288,287,247.78		
2020-03-13	2020-01-20	EM-3471-NC	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4487
2019-09-03	2019-09-01	EM-3423-NC	Emergency	HURRICANE DORIAN	Hurricane	none found		
2018-09-10	2018-09-07	EM-3401-NC	Emergency	HURRICANE FLORENCE	Hurricane	none found		
2005-09-05	2005-08-29	EM-3222-NC	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	\$477,474.70		
2004-09-10	2004-09-07	DR-1546-NC	Major disaster	TROPICAL STORM FRANCES	Hurricane	PA not declared for this county		
2002-12-12	2002-12-04	DR-1448-NC	Major disaster	SEVERE ICE STORM	Ice Storm	\$5,666,890.09		
2000-01-31	2000-01-24	DR-1312-NC	Major disaster	SEVERE WINTER STORM	Winter Weather	\$564,300.86		
1996-01-13	1996-01-06	DR-1087-NC	Major disaster	BLIZZARD OF 96	Winter Weather	none found		
1989-09-25	1989-09-21	DR-844-NC	Major disaster	HURRICANE HUGO	Hurricane	none found		
1977-08-11	1977-08-11	EM-3049-NC	Emergency	DROUGHT	Drought	none found		
1977-03-02	1977-03-02	EM-3033-NC	Emergency	DROUGHT & FREEZING	Winter Weather (primary); also designated: Drought	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
1964-10-13	1964-10-13	DR-179-NC	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding		
1962-03-16	1962-03-16	DR-130-NC	Major disaster	SEVERE STORM, HIGH TIDES & FLOODING	Inland Flooding (primary); also designated: Coastal Flooding		
1960-09-16	1960-09-16	DR-107-NC	Major disaster	HURRICANE DONNA	Hurricane (primary); also designated: Inland Flooding		
1958-10-01	1958-10-01	DR-87-NC	Major disaster	HURRICANE & SEVERE STORM	Hurricane		
1956-04-24	1956-04-24	DR-56-NC	Major disaster	SEVERE STORM	Hazard not mapped (severe storm title names no single hazard); not counted		
1955-08-13	1955-08-13	DR-37-NC	Major disaster	HURRICANES	Hurricane (primary); also designated: Inland Flooding		
1954-10-17	1954-10-17	DR-28-NC	Major disaster	HURRICANE	Hurricane (primary); also designated: Inland Flooding		

FEMA recorded these with designated area Statewide and no county. Listed on every county page in the state; not counted with county rows.

1 Fire Management declaration (1986-05-10 to 1986-05-10) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

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	12	1	0	2	0	0	1996 to 2026-06-30	Includes 3 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
Drought	35	2	0	2	2	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	246	0	2	8	0	0	1955 to 2026-06-30	
Heat Wave	4	0	0	0	0	0	1996 to 2026-06-30	
Hurricane	4	0	0	2	8	0	1996 to 2026-06-30	
Ice Storm	6	0	0	0	1	0	1996 to 2026-06-30	
Inland Flooding	126	0	3	9	1	0	1996 to 2026-06-30	
Landslide	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)

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
Lightning	46	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	453	2	9	45	0	0	1955 to 2026-06-30	Includes 13 High Wind records and 11 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	28	1	1	4	0	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	65	2	2	7	4	1	1996 to 2026-06-30	Includes 3 Sleet records, event types the NRI definition of this hazard leaves out.

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2024-09-27	Flash Flood		\$25,000,000 property; \$0 crops (2024 dollars)	0, 0	THRIFT	within last 5 years	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2024-09-27	Tropical Storm		\$3,000,000 property; \$0 crops, reported for the zone (2024 dollars)	2, 0	NWS zone NCZ071 (MECKLENBURG), zone-level: may include parts of neighboring counties	within last 5 years	deaths or injuries recorded
2012-06-29	Heat		damage not reported	0, 0	NWS zone NCZ071 (MECKLENBURG), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2007-04-08	Frost/Freeze		\$0 property; \$1,000,000 crops, reported for the zone (2007 dollars)	0, 0	NWS zone NCZ071 (MECKLENBURG), zone-level: may include parts of neighboring counties		B1-c worst recorded: Frost/ Freeze (outside NRI Cold Wave definition)
2004-03-07	High Wind	65 kt (75 mph) estimated gust	\$75,000 property; crops not reported, reported for the zone (2004 dollars)	1, 2	NWS zone NCZ071 (MECKLENBURG), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2003-07-29	Lightning		\$30,000 property; crops not reported (2003 dollars)	3, 1	MATTHEWS		deaths or injuries recorded

				Direct deaths, injuries <i>indirect not counted</i>			
Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>		Location	Flags	Why listed
2002-12-04	Ice Storm		\$40,000,000 property; crops not reported, reported for the zone (2002 dollars)	0, 0	NWS zone NCZ071 (MECKLENBURG), zone-level: may include parts of neighboring counties		B1-c worst recorded: Ice Storm
2000-12-01	Extreme Cold/ Wind Chill		damage not reported	0, 0	NWS zone NCZ071 (MECKLENBURG), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1997-07-23	Flash Flood		\$8,500,000 property; crops not reported (1997 dollars)	3, 0	COUNTYWIDE		deaths or injuries recorded
1992-03-10	Tornado	F2, 3.4 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 180 yd wide	\$2,500,000 property; crops not recorded (1992 dollars)	0, 18	location not recorded		B1-c worst recorded: Tornado
1974-04-03	Hail	3 in	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Hail
1962-07-23	Thunderstorm Wind	80 kt (92 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind

The full list is in the XLSX file, sheet "B1-d Storm Events history" (1,025 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.

Tribal and special-area declarations in this state are listed on the state page.

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche		events per year					1994 to 2023 (30 years)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Coastal Flooding		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.

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	0.316	event-days per year	about 0.316 days per year	Likely	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	6	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	24.1	event-days per year	about 24.1 days per year	Likely	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	903	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 24.1 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 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.
Earthquake	0.002	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.2%			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	4.8	events per year	about 4.8 per year	Highly likely	FEMA annualized frequency (modeled)	182.7 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	3	event-days per year	about 3 days per year	Possible	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	47	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 3 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 2 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	0.0859	events per year	about 1 in 12 years	Possible	FEMA annualized frequency (modeled)	28	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	2.1	event-days per year	about 2.1 days per year	Likely	event-days in 6 of 30 years, 1996 to 2025 (20%)	141	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 2.1 ice storm event-days a year here (its annualized frequency over 67 years; not its event count divided by the years), but Storm Events has a record in only 6 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Inland Flooding	3.5	event-days per year	about 3.5 days per year	Highly likely	event-days in 27 of 30 years, 1996 to 2025 (90%)	98	1996 to 2023 (28 years)	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
Landslide	0.394	events per year (modeled)	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	52.1	days per year with a strike	about 52.1 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	2.73	events per year	about 2.73 per year	Highly likely	FEMA annualized frequency (modeled)	104	1986 to 2023 (38 years)	countywide	
Tornado	0.284	events per year	about 1 in 4 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	0.000026	annual probability at a location	chance a given location in the county burns in a year: 0.0026%		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	5.26	event-days per year	about 5.26 days per year	Likely	event-days in 23 of 30 years, 1996 to 2025 (76.7%)	100	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)

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	79	30	2.63
Hail	2.00 in+	1996 to 2025	5	30	0.167
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	326	30	10.9
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	5	30	0.167
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	12	30	0.4
Tornado	EF0-1	1996 to 2025	11	30	0.367
Tornado	EF2-3	1996 to 2025	2	30	0.0667
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 305				Not Applicable 305	
Coastal Flooding	0 of 305				Not Applicable 305	
Cold Wave	305 of 305	16.0	27.3	43.2	Relatively Low 302, Very Low 3	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	23 of 305	69.7	75.6	84.9	Relatively Low 6, Very Low 17, No Rating 282	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	305 of 305	13.5	45.9	81.1	Relatively Moderate 3, Relatively Low 193, Very Low 109	
Hail	305 of 305	26.9	53.8	77.2	Relatively Moderate 9, Relatively Low 286, Very Low 10	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	305 of 305	1.4	26.0	58.2	Relatively Moderate 2, Relatively Low 247, Very Low 56	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	305 of 305	39.1	52.7	64.4	Relatively Low 198, Very Low 107	
Ice Storm	305 of 305	15.4	53.7	81.8	Relatively Moderate 23, Relatively Low 265, Very Low 17	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	305 of 305	1.2	56.2	98.7	Very High 6, Relatively High 48, Relatively Moderate 121, Relatively Low 102, Very Low 28	
Landslide	305 of 305	14.9	54.6	92.2	Relatively Low 12, Very Low 293	
Lightning	305 of 305	1.0	33.9	61.8	Relatively Moderate 25, Relatively Low 259, Very Low 21	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	305 of 305	4.2	30.9	56.7	Relatively Moderate 2, Relatively Low 282, Very Low 21	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	305 of 305	23.6	52.0	71.0	Relatively Moderate 138, Relatively Low 165, Very Low 2	
Tsunami	0 of 305				Not Applicable 305	
Volcanic Activity	0 of 305				Not Applicable 305	
Wildfire	292 of 305	20.3	49.3	80.5	Relatively Low 15, Very Low 277, No Rating 13	
Winter Weather	305 of 305	16.5	32.0	48.2	Relatively Low 303, Very 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.

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
Mecklenburg County (unincorporated area)	Unincorporated	Approved, expires 2030-10-13	FMA RL 3, SRL 2; any 18	\$19,976,968.75	0; 0	Includes \$19,059,899.20 for declarations not counted as hazard incidents (DR-4487-NC).
Charlotte city	City	Approved, expires 2030-10-13	FMA RL 24, SRL 65; any 307	\$6,916,102.11	229; 2	Includes \$1,735,007.92 for declarations not counted as hazard incidents (DR-4487-NC, EM-3222-NC).
Cornelius town	Town	Approved, expires 2030-10-13	FMA RL 0, SRL 0; any 0	\$178,366.41	26; 0	Includes \$10,852.66 for declarations not counted as hazard incidents (DR-4487-NC).
Davidson town	Town	Approved, expires 2030-10-13	FMA RL 0, SRL 0; any 0	\$159,103.94	15; 0	Includes \$104,983.97 for declarations not counted as hazard incidents (DR-4487-NC).
Huntersville town	Town	Approved, expires 2030-10-13	FMA RL 0, SRL 0; any 1	\$370,653.82	55; 0	Includes \$93,065.26 for declarations not counted as hazard incidents (DR-4487-NC).
Matthews town	Town	Approved, expires 2030-10-13	FMA RL 0, SRL 0; any 2	\$294,599.06	42; 1	Includes \$124,542.68 for declarations not counted as hazard incidents (DR-4487-NC).
Mint Hill town	Town	Approved, expires 2030-10-13	FMA RL 0, SRL 0; any 2	\$220,992.57	36; 0	
Pineville town	Town	Approved, expires 2030-10-13	FMA RL 0, SRL 0; any 0	\$23,930.90	54; 0	

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

School districts and special districts get a plan clock row only.

SOURCES
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Supports B2-a and B2-b: assets and impacts

Local data required

County-level starter. The plan must describe impacts for each participant and its own assets.

- Critical facilities and lifelines per hazard
 - A problem statement per participant per hazard
- Changes in development in hazard-prone areas since the last approval, or a statement of none (E1-a)
 - Future assets

County-level starter: exposure, expected annual loss and damage since the plan

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2025-10-14 <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	\$233,473,907,981	\$5,560,254	1,114,693	\$15,105	\$56,090	\$4,981,984	under 0.0001%		\$0		
Drought		\$3,071,507			\$24,842		0.809% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$395,317,454,354		1,115,482	\$9,023,813		\$1,935,278	0.00228%				
Hail	\$233,473,907,981	\$5,560,254	1,114,693	\$3,249,733	\$266	\$68,164	0.00139%				
Heat Wave	\$233,473,907,981	\$5,560,254	1,114,693	\$133	\$5	\$6,328,157	under 0.0001%				
Hurricane	\$233,461,281,529	\$5,560,254	1,114,618	\$3,813,985	\$10,698	\$209,001	0.00163%				
Ice Storm	\$233,462,381,005		1,114,624	\$1,511,256		\$457,234	0.000647%				
Inland Flooding	\$233,327,507,893	\$340,514	10,565	\$252,894,637	\$754	\$3,515,452	n/a (see note)				NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. EAL as % of exposure: n/a.
Landslide	\$4,163,225,837		19,676	\$8,278		\$177	0.000199%				
Lightning	\$233,473,907,981		1,114,693	\$231,190		\$2,006,071	under 0.0001%				
Strong Wind	\$233,473,907,981	\$5,560,254	1,114,693	\$186,641	\$42	\$2,544,286	under 0.0001%	\$0			
Tornado	\$233,473,907,981	\$5,560,254	1,114,693	\$10,476,261	\$151	\$13,978,023	0.00449%	\$50,000			
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$72,418,403,582	\$2,766,640	381,000	\$105,381	\$1	\$13,363	0.000146%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2025-10-14 <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
Winter Weather	\$233,473,907,981	\$5,560,254	1,114,693	\$97,620	\$17	\$247,043	under 0.0001%		\$0	none found (1 declaration)	

Totals since 2025-10-14 (Storm Events through 2026-06-30): 3 county-coded records, 3 with a damage value recorded (including \$0), \$50,000; 5 zone-level records, 5 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance on counted declarations none found (1 declaration, 0 with PA).

Total = buildings + agriculture + population equivalence; FEMA values each expected death (or 10 injuries) at \$13.7 million (2024 dollars).

FEMA does not split Public Assistance by hazard. A declaration mapped to several hazards is listed under each of them with its full amount, so the per-hazard column must not be added up; the unit total counts each declaration once.

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

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Supports B2-a: context

County context

Measure	Value
Population	1,114,693
Building value (total, not at risk)	\$233,473,907,981
Agriculture value (total, not at risk)	\$5,560,254
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$281,706,898
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)	\$36,284,232
Social vulnerability rating	Very Low
Community resilience rating	Relatively Moderate
NRI version	December 2025

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

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

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	27	Severe repetitive loss, FMA definition (44 CFR 77.2)	67
Repetitive loss, NFIP insurance definition	314	Severe repetitive loss, NFIP insurance definition	53

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

SOURCES

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

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

Repeat-flood properties: county and state-level rows

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	27	67	314	53	330	14	123
MECKLENBURG COUNTY *	3	2	18	2	18	0	7
CHARLOTTE, CITY OF	24	65	291	51	307	14	112
MATTHEWS, TOWN OF	0	0	2	0	2	0	1
HUNTERSVILLE, TOWN OF	0	0	1	0	1	0	1
MINT HILL, TOWN OF	0	0	2	0	2	0	2
State level, not in this county: county not reported	0	0	2	0	2	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
Mecklenburg County (unincorporated area)	370158	3	2	18	2	18	0	7	
Charlotte city	370159	24	65	291	51	307	14	112	
Cornelius town	370498	0	0	0	0	0	0	0	
Davidson town	370503	0	0	0	0	0	0	0	
Huntersville town	370478	0	0	1	0	1	0	1	
Matthews town	370310	0	0	2	0	2	0	1	
Mint Hill town	370539	0	0	2	0	2	0	2	
Pineville town	370160	0	0	0	0	0	0	0	

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

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

SOURCES

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

County repeat-flood properties by occupancy group

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	24	47	220	34	236	14	109
2 to 4 unit residential	0	4	11	4	11	0	1
other residential	2	13	66	13	66	0	9
non-residential	1	3	17	2	17	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 9 properties are FMA repetitive loss but not NFIP repetitive loss, and 296 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-28, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/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_NC_37119. Preview: automated baseline.