

Wake County, NC

Risk-assessment baseline packet

Unit **County area 37183** 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

This product uses the Federal Emergency Management Agency's OpenFEMA API, but is not endorsed by FEMA. The Federal Government or FEMA cannot vouch for the data or analyses derived from these data after the data have been retrieved from the Agency's website(s).

Plan clock

Status	Approved, expires 2029-11-19	Plan	Wake County (FEMA plan 110168)
Approved	2024-11-20	Expires	2029-11-19
As of	2026-09-28	Days	1,148 days to expiry

What changed since your last plan (approved 2024-11-20)

New federal declarations	EM-3637-NC (1 declaration row; 1 counted incident)	Storm Events records since approval	88 (data through 2026-06-30)
Repetitive loss now	FMA RL 7, SRL 33 (44 CFR 77.2); any definition: 157	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: 13 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

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

CONTENTS

1. Plan clock, page 1

2. What changed since your last plan (approved 2024-11-20), page 1

3. Supports B1-a: hazards, page 3

4. Supports B1-b: location, page 4

5. Supports B1-c: extent, page 5

6. Supports B1-d: previous occurrences, page 8
7. Supports B1-e: probability, page 14

8. Supports B1-f: variation across the planning area, page 17

9. Supports B2-a and B2-b: assets and impacts, page 19

10. Supports B2-a: context, page 21

11. Supports B2-c: repetitive loss, page 22

12. Sources and OpenFEMA disclaimer, page 24

Plan clock

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Update underway	Notes
Wake County (unincorporated area)	Unincorporated	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		
Apex town	Town	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		
Cary town	Town	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		member approved 2025-02-10
Fuquay-Varina town	Town	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		member approved 2025-05-29
Garner town	Town	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		member approved 2025-05-29
Holly Springs town	Town	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		member approved 2025-02-10
Knightdale town	Town	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		
Morrisville town	Town	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		member approved 2025-04-11
Raleigh city	City	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		member approved 2025-02-10
Rolesville town	Town	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		member approved 2025-04-11
Wake Forest town	Town	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		member approved 2025-02-10
Wendell town	Town	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		member approved 2025-05-29
Zebulon town	Town	Approved, expires 2029-11-19	Wake County (FEMA plan 110168)	2024-11-20	2029-11-19	1,148		member approved 2025-05-29

SOURCE

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

Supports B1-a: hazards

Hazards NRI does not cover: check locally

- dam failure (incl. upstream dams)
- levee failure
- flash flood as its own subtype
- ice jams
- debris flows
- erosion (riverine and coastal)
- land subsidence and sinkholes
- expansive soils

The 18 National Risk Index hazards, ranked by expected annual loss (EAL)

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Relatively High	Relatively High	\$220,684,212	\$60,824	\$939,570	\$221,684,606	291		
2	Tornado	Relatively High	Relatively High	\$9,932,083	\$2,017	\$10,087,286	\$20,021,385	20		
3	Heat Wave	Relatively High	Relatively High	\$316	\$154	\$14,721,921	\$14,722,390	7		
4	Hail	Relatively High	Relatively High	\$12,607,523	\$34,236	\$59,206	\$12,700,965	326		
5	Hurricane	Relatively Moderate	Relatively High	\$10,988,327	\$403,946	\$547,593	\$11,939,866	13		
6	Cold Wave	Relatively Moderate	Relatively High	\$33,876	\$43,652	\$6,651,284	\$6,728,811	2		Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
7	Earthquake	Relatively Low	Relatively Moderate	\$4,452,431		\$1,486,064	\$5,938,494			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
8	Lightning	Relatively High	Relatively High	\$140,968		\$2,000,377	\$2,141,345	41		
9	Ice Storm	Relatively High	Relatively High	\$1,179,277		\$349,552	\$1,528,829	3		
10	Strong Wind	Relatively Low	Relatively Moderate	\$289,510	\$361	\$571,294	\$861,164	664		Includes 7 High Wind records and 15 Strong Wind records, event types the NRI definition of this hazard leaves out.
11	Winter Weather	Relatively Moderate	Relatively High	\$122,267	\$351	\$302,586	\$425,204	66		
12	Drought	Relatively Low	Relatively Low		\$247,772		\$247,772	0		Declared 2 times; no Storm Events record of this type.
13	Wildfire	Very Low	Relatively Low	\$100,088	\$16	\$14,433	\$114,537	1		

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
14	Landslide	Relatively Low	Relatively Low	\$10,354		\$196	\$10,550	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 230
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 230
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	230 of 230
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	81 of 230
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.	230 of 230

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	230 of 230
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	230 of 230
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.	230 of 230
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	230 of 230
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.	230 of 230
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.	230 of 230
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	230 of 230
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	230 of 230
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.	230 of 230
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 230
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 230
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.	230 of 230
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	230 of 230

SOURCE

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

Supports B1-c: extent

Extent: scale, observed range and worst recorded event per hazard

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	1, 1996 to 1996 (1 zone-level)	3 days; 1 with a recorded value	3 consecutive days, 1996-02-03 to 1996-02-05, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	1, 2025 to 2025 (1 zone-level)		No crop damage reported in 1 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Temperature: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Drought	US Drought Monitor D-scale	0					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)	393, 1958 to 2025	0.75 in to 4 in (median 1 in); 393 with a recorded value	4 in hail, 2005-03-28	Hail, 2019-05-13, \$95,000,000 property; \$0 crops (2019 dollars)	Event records naming member places: Raleigh city (52 records), Apex town (25 records), Cary town (24 records), Morrisville town (17 records), Garner town (13 records), Wake Forest town (11 records), Holly Springs town (10 records), Knightdale town (8 records), Rolesville town (7 records), Zebulon town (7 records); and 1 more member place (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	7, 1998 to 2025 (7 zone-level)	1 day to 3 days (median 2 days); 4 with a recorded value	3 consecutive days, 2025-07-26 to 2025-07-28, 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	13, 1996 to 2022 (13 zone-level)		Strongest recorded (records with damage, a wind speed or direct casualties first, then storm type, category and wind): Hurricane (Typhoon) record, 2003-09-18, \$890,000 property; crops not reported, reported for the zone (2003 dollars); NWS zone NCZ041 (WAKE), zone-level: may include parts of neighboring counties	Most damaging recorded: Tropical Storm, 2022-09-30, \$1,000,000 property; \$0 crops, reported for the zone (2022 dollars)	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.
Ice Storm	Sperry-Piltz (local data)	3, 1996 to 1998 (3 zone-level)		No damage reported in 3 records.		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)	291, 1996 to 2025 (2 zone-level)		Flash Flood, 2016-10-08, \$65,500,000 property; \$0 crops (2016 dollars)		Event records naming member places: Raleigh city (64 records), Morrisville town (16 records), Apex town (8 records), Cary town (8 records), Garner town (6 records), Wake Forest town (6 records), Holly Springs town (5 records), Zebulon town (4 records), Knightdale town (2 records), Rolesville town (1 record). Zone-level records (2) 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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
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)	41, 1998 to 2023		Lightning, 2018-07-28, \$0 property; \$0 crops (2018 dollars), 1 direct death, 1 direct injury	Lightning, 2010-06-02, \$1,000,000 property; \$0 crops (2010 dollars)	Event records naming member places: Cary town (6 records), Knightdale town (3 records), Raleigh city (3 records), Holly Springs town (2 records), Apex town (1 record), Morrisville town (1 record), Wake Forest town (1 record), Wendell town (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	22, 1997 to 2020 (22 zone-level)	35 kt (40 mph) to 55 kt (63 mph) (median 41 kt (47 mph)); 22 with a recorded value	55 kt (63 mph) measured gust, High Wind, 2009-01-07; NWS zone NCZ041 (WAKE), zone-level: may include parts of neighboring counties	Strong Wind, 2020-10-29, \$1,500,000 property; \$0 crops, reported for the zone (2020 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	737, 1958 to 2026	50 kt (58 mph) to 75 kt (86 mph) (median 50 kt (58 mph)); 642 with a recorded value	75 kt (86 mph) measured gust, Thunderstorm Wind, 2014-01-11	Thunderstorm Wind, 2014-01-11, \$1,000,000 property; \$0 crops (2014 dollars)	Event records naming member places: Raleigh city (82 records), Garner town (29 records), Cary town (26 records), Holly Springs town (21 records), Apex town (18 records), Knightdale town (10 records), Rolesville town (10 records), Wake Forest town (10 records), Zebulon town (10 records), Morrisville town (7 records); and 2 more member places (see the XLSX file).	
Tornado	Enhanced Fujita (F before Feb 2007)	40, 1950 to 2024	F/EF0 to F/EF4 (median F/EF1); 40 with a recorded value	F4 tornado, 1988-11-28, 20 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 400 yd wide, \$250,000,000 property; crops not recorded (1988 dollars), 2 direct deaths, 105 direct injuries		Event records naming member places: Garner town (3 records), Cary town (2 records), Raleigh city (2 records), Wendell town (2 records), Zebulon town (2 records), Apex town (1 record), Holly Springs town (1 record), Rolesville 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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Wildfire	acres burned (local data)	1, 2010 to 2010 (1 zone- level)		Wildfire, 2010-03-23, \$1,000,000 property; \$0 crops, reported for the zone (2010 dollars); NWS zone NCZ041 (WAKE), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	66, 1996 to 2026 (66 zone- level)		Winter Storm, 2015-02-25, \$1,000,000 property; \$0 crops, reported for the zone (2015 dollars); NWS zone NCZ041 (WAKE), zone- level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

Where a hazard names more than 10 member places, the table lists the 10 with the most records; every place is in the XLSX file, sheet "B1-c Extent".

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

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

SOURCES

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

Supports B1-d: previous occurrences

Declaration rows26

Counted incidents21

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	
2024-09-26	2024-09-25	EM-3617-NC	Emergency	HURRICANE HELENE	Hurricane (primary); also designated: Inland Flooding, Landslide	none found	during plan review, check whether your last plan included it; within last 5 years	
2024-08-06	2024-08-05	EM-3608-NC	Emergency	TROPICAL STORM DEBBY	Hurricane	none found	during plan review, check whether your last plan included it; within last 5 years	
2022-10-01	2022-09-28	EM-3586-NC	Emergency	HURRICANE IAN	Hurricane	\$9,031.54	within last 5 years	
2020-08-02	2020-07-31	EM-3534-NC	Emergency	HURRICANE ISAIAS	Hurricane	none found		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2020-03-25	2020-01-20	DR-4487-NC	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$949,156,411.57		
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		
2016-10-10	2016-10-04	DR-4285-NC	Major disaster	HURRICANE MATTHEW	Hurricane	\$8,394,269.51		
2016-10-07	2016-10-04	EM-3380-NC	Emergency	HURRICANE MATTHEW	Hurricane	none found		same incident as DR-4285
2011-04-19	2011-04-16	DR-1969-NC	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$5,908,711.69		
2005-09-05	2005-08-29	EM-3222-NC	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	\$986,508.73		
2003-09-18	2003-09-18	DR-1490-NC	Major disaster	HURRICANE ISABEL	Hurricane	\$3,200,113.11		
2002-12-12	2002-12-04	DR-1448-NC	Major disaster	SEVERE ICE STORM	Ice Storm	\$14,597,159.31		
2000-01-31	2000-01-24	DR-1312-NC	Major disaster	SEVERE WINTER STORM	Winter Weather	\$1,983,269.60		
1999-09-16	1999-09-15	DR-1292-NC	Major disaster	HURRICANE FLOYD MAJOR DISASTER DECLARATIONS	Hurricane	\$13,747,210.85		
1999-09-15	1999-09-15	EM-3146-NC	Emergency	HURRICANE FLOYD EMERGENCY DECLARATIONS	Hurricane	none found		same incident as DR-1292
1998-03-22	1998-03-20	DR-1211-NC	Major disaster	SEVERE STORMS TORNADOES, AND FLOODING	Inland Flooding; Tornado	PA not declared for this county		
1996-09-06	1996-09-05	DR-1134-NC	Major disaster	HURRICANE FRAN	Hurricane	none found		
1996-01-13	1996-01-06	DR-1087-NC	Major disaster	BLIZZARD OF 96	Winter Weather	none found		
1993-03-17	1993-03-13	EM-3110-NC	Emergency	SEVERE SNOWFALL & WINTER STORM	Winter Weather	none found		
1988-12-02	1988-11-28	DR-818-NC	Major disaster	SEVERE STORMS & TORNADOES	Tornado	PA not declared for this county		
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		
1968-02-10	1968-02-10	DR-234-NC	Major disaster	SEVERE ICE STORM	Ice Storm	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)

Public Assistance filed under this county for declarations that do not list it: 48 rows, \$45,927,934.75

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-4889-NC	2025-09-11	TROPICAL DEPRESSION CHANTAL	NC Dept. of Natural and Cultural Resources (NC Department of Cultural Resources)	\$1,220,942.29
DR-4827-NC	2024-09-28	TROPICAL STORM HELENE	NC State University	\$833,842.11
DR-4827-NC	2024-09-28	TROPICAL STORM HELENE	NC Dept. of Natural and Cultural Resources (NC Department of Cultural Resources)	\$27,827,044.89
DR-4827-NC	2024-09-28	TROPICAL STORM HELENE	NC Department of Health and Human Services	\$2,528,230.20
DR-4827-NC	2024-09-28	TROPICAL STORM HELENE	NC Administrative Office of the Courts	\$538,663.39
DR-4827-NC	2024-09-28	TROPICAL STORM HELENE	Blue Ridge Mountain Electric Membership Corporation	\$52,727.51
DR-4617-NC	2021-09-08	REMNANTS OF TROPICAL STORM FRED	NC Dept. of Natural and Cultural Resources (NC Department of Cultural Resources)	\$48,481.03
DR-4568-NC	2020-10-14	HURRICANE ISAIAS	NC Dept. of Natural and Cultural Resources (NC Department of Cultural Resources)	\$279,311.50
DR-4465-NC	2019-10-04	HURRICANE DORIAN	NC Dept. of Natural and Cultural Resources (NC Department of Cultural Resources)	\$319,409.50
DR-4465-NC	2019-10-04	HURRICANE DORIAN	NC Department of Health and Human Services	\$119,333.37
DR-4465-NC	2019-10-04	HURRICANE DORIAN	NC DOT License & Theft Bureau/DMV	\$10,238.12
DR-4412-NC	2019-01-31	TROPICAL STORM MICHAEL	NC Dept. of Natural and Cultural Resources (NC Department of Cultural Resources)	\$66,053.29
DR-4393-NC	2018-09-14	HURRICANE FLORENCE	The Young Men's Christian Association of the Triangle Area, Inc.	\$346,218.28
DR-4393-NC	2018-09-14	HURRICANE FLORENCE	NC United Methodist Camp & Retreat Ministries, Inc.	\$618,698.72
DR-4393-NC	2018-09-14	HURRICANE FLORENCE	NC State University	\$34,637.99
DR-4393-NC	2018-09-14	HURRICANE FLORENCE	NC Dept. of Natural and Cultural Resources (NC Department of Cultural Resources)	\$2,706,092.22

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-4393-NC	2018-09-14	HURRICANE FLORENCE	NC Department of Justice	\$56,483.67
DR-4393-NC	2018-09-14	HURRICANE FLORENCE	NC Department of Health and Human Services	\$3,282,855.86
DR-4393-NC	2018-09-14	HURRICANE FLORENCE	NC DOT License & Theft Bureau/DMV	\$136,348.14
DR-4393-NC	2018-09-14	HURRICANE FLORENCE	NC Administrative Office of the Courts	\$42,059.29
DR-4019-NC	2011-08-31	HURRICANE IRENE	North Carolina National Guard	\$399,903.02
DR-4019-NC	2011-08-31	HURRICANE IRENE	NC State University	\$445,977.89
DR-4019-NC	2011-08-31	HURRICANE IRENE	NC Dept. of Natural and Cultural Resources (NC Department of Cultural Resources)	\$131,913.08
DR-4019-NC	2011-08-31	HURRICANE IRENE	NC Department of Health and Human Services	\$81,149.14
DR-4019-NC	2011-08-31	HURRICANE IRENE	NC DOT License & Theft Bureau/DMV	\$51,605.66
EM-3314-NC	2010-09-01	HURRICANE EARL	North Carolina National Guard	\$33,103.14
EM-3314-NC	2010-09-01	HURRICANE EARL	NC Department of Health and Human Services	\$2,658.59
DR-1871-NC	2010-02-02	SEVERE WINTER STORMS AND FLOODING	North Carolina National Guard	\$10,323.71
DR-1871-NC	2010-02-02	SEVERE WINTER STORMS AND FLOODING	Blue Ridge Mountain Electric Membership Corporation	\$1,536,267.06
DR-1801-NC	2008-10-08	TROPICAL STORM HANNA	North Carolina National Guard	\$84,356.29
DR-1608-NC	2005-10-07	HURRICANE OPHELIA	NC State University	\$2,928.56
DR-1608-NC	2005-10-07	HURRICANE OPHELIA	NC Dept. of Administraton	\$2,147.09
EM-3254-NC	2005-09-14	HURRICANE OPHELIA	North Carolina National Guard	\$268,072.18
EM-3254-NC	2005-09-14	HURRICANE OPHELIA	NC State University	\$1,579.50
DR-1553-NC	2004-09-18	HURRICANE IVAN	North Carolina National Guard	\$134,339.22
DR-1553-NC	2004-09-18	HURRICANE IVAN	NC State University	\$4,176.44
DR-1553-NC	2004-09-18	HURRICANE IVAN	NC Department of Health and Human Services	\$12,629.42
DR-1553-NC	2004-09-18	HURRICANE IVAN	NC DOT License & Theft Bureau/DMV	\$10,189.33
DR-1553-NC	2004-09-18	HURRICANE IVAN	Blue Ridge Mountain Electric Membership Corporation	\$578,388.92
DR-1546-NC	2004-09-10	TROPICAL STORM FRANCES	North Carolina National Guard	\$125,856.56
DR-1546-NC	2004-09-10	TROPICAL STORM FRANCES	NC State University	\$2,447.25
DR-1546-NC	2004-09-10	TROPICAL STORM FRANCES	NC Dept. of Administraton	\$9,477
DR-1546-NC	2004-09-10	TROPICAL STORM FRANCES	NC Department of Health and Human Services	\$3,171.84
DR-1546-NC	2004-09-10	TROPICAL STORM FRANCES	NC DOT License & Theft Bureau/DMV	\$10,211.83
DR-1546-NC	2004-09-10	TROPICAL STORM FRANCES	Blue Ridge Mountain Electric Membership Corporation	\$73,175.66
DR-1457-NC	2003-03-27	ICE STORM	NC State University	\$7,141.50
DR-1457-NC	2003-03-27	ICE STORM	NC Dept. of Natural and Cultural Resources (NC Department of Cultural Resources)	\$11,197.50
EM-3141-NC	1999-09-01	HURRICANE DENNIS	North Carolina National Guard	\$825,876

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

SOURCES

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

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

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval records	During plan review records	Last 5 years records	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	2	1	0	1	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
Drought	0	0	0	0	2	0	1996 to 2026-06-30	No Storm Events records of this type; 2 federal declared incidents (see declarations table)
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	393	8	0	30	0	0	1955 to 2026-06-30	
Heat Wave	7	5	0	5	0	0	1996 to 2026-06-30	
Hurricane	13	0	0	1	10	0	1996 to 2026-06-30	
Ice Storm	3	0	0	0	2	0	1996 to 2026-06-30	
Inland Flooding	291	20	40	110	3	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)
Lightning	41	0	0	5	0	0	1996 to 2026-06-30	
Strong Wind	759	49	36	170	0	0	1955 to 2026-06-30	Includes 7 High Wind records and 15 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	40	0	2	2	3	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	1	0	0	0	0	0	1996 to 2026-06-30	
Winter Weather	66	5	0	8	5	1	1996 to 2026-06-30	

SOURCES

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

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2025-07-26	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2025 dollars)	0, 0	NWS zone NCZ041 (WAKE), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2018-07-28	Lightning		\$0 property; \$0 crops (2018 dollars)	1, 1	KNIGHTDALE		B1-c worst recorded: Lightning
2016-10-08	Flash Flood		\$65,500,000 property; \$0 crops (2016 dollars)	0, 0	PURNELL to BARHAM		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2015-02-25	Winter Storm		\$1,000,000 property; \$0 crops, reported for the zone (2015 dollars)	0, 0	NWS zone NCZ041 (WAKE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2014-01-11	Thunderstorm Wind	75 kt (86 mph) measured gust	\$0 property; \$0 crops (2014 dollars)	0, 0	(RDU)RALEIGH-DURHAM		B1-c worst recorded: Thunderstorm Wind
2011-04-16	Tornado	EF3, 37.99 mi within this county, 300 yd wide	\$115,000,000 property; \$0 crops (2011 dollars)	4, 67	BURT to BARHAM		deaths or injuries recorded
2009-01-07	High Wind	55 kt (63 mph) measured gust	\$100,000 property; \$0 crops, reported for the zone (2009 dollars)	0, 0	NWS zone NCZ041 (WAKE), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2005-03-28	Hail	4 in	damage not reported	0, 0	RALEIGH		B1-c worst recorded: Hail
2003-09-18	Hurricane (Typhoon)		\$890,000 property; crops not reported, reported for the zone (2003 dollars)	0, 0	NWS zone NCZ041 (WAKE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
1996-09-05	Hurricane (Typhoon)		damage not reported	3, 0	NWS zone NCZ041 (WAKE), zone-level: may include parts of neighboring counties		deaths or injuries recorded
1996-02-03	Cold/Wind Chill		damage not reported	0, 0	NWS zone NCZ041 (WAKE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1988-11-28	Tornado	F4, 20 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 400 yd wide	\$250,000,000 property; crops not recorded (1988 dollars)	2, 105	location not recorded		deaths or injuries recorded

The full list is in the **XLSX** file, sheet "B1-d Storm Events history" (1,616 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.
Cold Wave	0.684	event-days per year	about 0.684 days per year	Possible	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	13	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	13.5	event-days per year	about 13.5 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	406	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
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	4.1	events per year	about 4.1 per year	Highly likely	FEMA annualized frequency (modeled)	155.9 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	6.89	event-days per year	about 6.89 days per year	Likely	event-days in 3 of 30 years, 1996 to 2025 (10%)	109	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 6.89 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 3 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	0.176	events per year	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	58	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.

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
Ice Storm	1.59	event-days per year	about 1.59 days per year	Possible	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	108	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 1.59 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 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.
Inland Flooding	4.64	event-days per year	about 4.64 days per year	Highly likely	event-days in 30 of 30 years, 1996 to 2025 (100%)	130	1996 to 2023 (28 years)	see B1-f	
Landslide	0.438	events per year (modeled)	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	50.3	days per year with a strike	about 50.3 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.936	events per year	about 0.94 per year	Likely	FEMA annualized frequency (modeled)	36	1986 to 2023 (38 years)	countywide	
Tornado	0.414	events per year	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.0000637	annual probability at a location	chance a given location in the county burns in a year: 0.00637%	Possible	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Winter Weather	6.37	event-days per year	about 6.37 days per year	Likely	event-days in 21 of 30 years, 1996 to 2025 (70%)	121	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the

number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county, which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Descriptor scale used in this packet (defined per unit)

Unit	Descriptor	Definition
events per year	Highly likely	1 or more per year
events per year	Likely	about once in 1 to 10 years
events per year	Possible	about once in 10 to 100 years
events per year	Unlikely	less than once in 100 years
annual probability	Likely	10% to under 100% chance in a given year
annual probability	Possible	1% to under 10% chance in a given year
annual probability	Unlikely	under 1% chance in a given year
event-days (share of years)	Highly likely	event-days recorded in 90% or more of years
event-days (share of years)	Likely	event-days recorded in 10% to under 90% of years
event-days (share of years)	Possible	event-days recorded in some years but under 10% of years
lightning strike-days	Highly likely	cloud-to-ground strikes on 1 or more days per year

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Intensity bands: historical frequency (Storm Events)

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	176	30	5.87
Hail	2.00 in+	1996 to 2025	14	30	0.467
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	610	30	20.3
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	8	30	0.267
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	9	30	0.3
Tornado	EF0-1	1996 to 2025	17	30	0.567
Tornado	EF2-3	1996 to 2025	3	30	0.1

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	0 of 230				Not Applicable 230	
Coastal Flooding	0 of 230				Not Applicable 230	
Cold Wave	230 of 230	15.5	32.3	59.5	Relatively Moderate 13, Relatively Low 214, 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	81 of 230	67.3	76.6	92.4	Relatively Moderate 1, Relatively Low 35, Very Low 45, No Rating 149	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	230 of 230	0.6	38.5	77.5	Relatively Low 91, Very Low 139	
Hail	230 of 230	4.6	79.8	94.3	Relatively High 17, Relatively Moderate 187, Relatively Low 25, Very Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	230 of 230	1.3	57.3	88.3	Relatively High 2, Relatively Moderate 121, Relatively Low 103, Very Low 4	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	230 of 230	22.6	64.3	80.8	Relatively Moderate 4, Relatively Low 223, Very Low 3	
Ice Storm	230 of 230	0.3	49.6	82.1	Relatively Moderate 14, Relatively Low 191, Very Low 25	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	230 of 230	0.2	56.9	98.1	Very High 1, Relatively High 41, Relatively Moderate 97, Relatively Low 74, Very Low 17	
Landslide	230 of 230	25.7	64.0	91.1	Relatively Low 14, Very Low 216	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Lightning	230 of 230	0.1	36.3	73.9	Relatively Moderate 31, Relatively Low 186, Very Low 13	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	230 of 230	0.3	16.2	34.7	Relatively Low 49, Very Low 181	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	230 of 230	1.3	50.0	79.5	Relatively High 1, Relatively Moderate 89, Relatively Low 136, Very Low 4	
Tsunami	0 of 230				Not Applicable 230	
Volcanic Activity	0 of 230				Not Applicable 230	
Wildfire	230 of 230	18.5	50.5	77.4	Relatively Low 10, Very Low 220	
Winter Weather	230 of 230	10.7	37.1	64.7	Relatively Moderate 26, Relatively Low 202, 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
Wake County (unincorporated area)	Unincorporated	Approved, expires 2029-11-19	FMA RL 1, SRL 2; any 6	\$64,486,003.24	0; 0	Includes \$63,254,900.48 for declarations not counted as hazard incidents (DR-4487-NC, EM-3222-NC).
Apex town	Town	Approved, expires 2029-11-19	FMA RL 0, SRL 0; any 0	\$521,978.45	53; 1	Includes \$123,393.63 for declarations not counted as hazard incidents (DR-4487-NC).
Cary town	Town	Approved, expires 2029-11-19	FMA RL 0, SRL 0; any 19	\$2,904,136.95	66; 1	Includes \$168,782.34 for declarations not counted as hazard incidents (DR-4487-NC).
Fuquay-Varina town	Town	Approved, expires 2029-11-19	FMA RL 1, SRL 0; any 1	\$235,651.61	1; 0	Includes \$6,923.57 for declarations not counted as hazard incidents (DR-4487-NC).
Garner town	Town	Approved, expires 2029-11-19	FMA RL 0, SRL 0; any 5	\$325,548.56	51; 4	
Holly Springs town	Town	Approved, expires 2029-11-19	FMA RL 0, SRL 0; any 0	\$513,719.48	39; 1	Includes \$36,693.48 for declarations not counted as hazard incidents (DR-4487-NC).
Knightdale town	Town	Approved, expires 2029-11-19	FMA RL 0, SRL 0; any 1	\$135,038.05	23; 1	

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
Morrisville town	Town	Approved, expires 2029-11-19	FMA RL 0, SRL 1; any 1	\$273,619.60	41; 2	Includes \$24,421.56 for declarations not counted as hazard incidents (DR-4487-NC).
Raleigh city	City	Approved, expires 2029-11-19	FMA RL 4, SRL 29; any 121	\$16,770,849.27	203; 9	Includes \$1,142,973.08 for declarations not counted as hazard incidents (DR-4487-NC).
Rolesville town	Town	Approved, expires 2029-11-19	FMA RL 0, SRL 0; any 0	\$104,946.27	19; 0	
Wake Forest town	Town	Approved, expires 2029-11-19	FMA RL 0, SRL 0; any 1	\$515,297.99	28; 0	
Wendell town	Town	Approved, expires 2029-11-19	FMA RL 1, SRL 1; any 1	\$225,852.42	15; 0	Includes \$6,631.24 for declarations not counted as hazard incidents (DR-4487-NC).
Zebulon town	Town	Approved, expires 2029-11-19	FMA RL 0, SRL 0; any 0	\$682,679.60	23; 0	Includes \$11,050.60 for declarations not counted as hazard incidents (DR-4487-NC).

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 2024-11-20 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche											Not Applicable in NRI for this county
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$241,671,216,164	\$81,969,486	1,128,357	\$33,876	\$43,652	\$6,651,284	under 0.0001%		\$0		
Drought		\$70,677,416			\$247,772		0.351% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$399,423,911,540		1,129,410	\$4,452,431		\$1,486,064	0.00111%				
Hail	\$241,671,231,122	\$81,969,486	1,128,357	\$12,607,523	\$34,236	\$59,206	0.00522%	\$0			
Heat Wave	\$241,671,216,164	\$81,969,486	1,128,357	\$316	\$154	\$14,721,921	under 0.0001%		\$0		
Hurricane	\$241,653,107,792	\$81,969,486	1,128,237	\$10,988,327	\$403,946	\$547,593	0.00455%				
Ice Storm	\$241,646,345,580		1,128,195	\$1,179,277		\$349,552	0.000488%				
Inland Flooding	\$241,536,796,341	\$750,219	8,961	\$220,684,212	\$60,824	\$939,570	n/a (see note)	\$53,000			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	\$4,682,943,014		21,162	\$10,354		\$196	0.000221%				
Lightning	\$241,671,231,122		1,128,357	\$140,968		\$2,000,377	under 0.0001%				
Strong Wind	\$241,671,231,122	\$81,969,486	1,128,357	\$289,510	\$361	\$571,294	0.00012%	\$227,000			
Tornado	\$241,671,231,122	\$81,969,486	1,128,357	\$9,932,083	\$2,017	\$10,087,286	0.00411%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$42,611,638,438	\$13,456,898	234,681	\$100,088	\$16	\$14,433	0.000235%				

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 2024-11-20 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Winter Weather	\$241,671,216,164	\$81,969,486	1,128,357	\$122,267	\$351	\$302,586	under 0.0001%		\$0	none found (1 declaration)	

Totals since 2024-11-20 (Storm Events through 2026-06-30): 77 county-coded records, 77 with a damage value recorded (including \$0), \$280,000; 11 zone-level records, 11 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	1,128,357
Building value (total, not at risk)	\$241,671,231,122
Agriculture value (total, not at risk)	\$81,969,486
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$261,334,560
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)	\$37,731,361
Social vulnerability rating	Very Low
Community resilience rating	Very High
NRI version	December 2025

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

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

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	7	Severe repetitive loss, FMA definition (44 CFR 77.2)	33
Repetitive loss, NFIP insurance definition	149	Severe repetitive loss, NFIP insurance definition	26

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	7	33	149	26	157	7	57
CARY, TOWN OF	0	0	19	0	19	0	6
FUQUAY-VARINA, TOWN OF	1	0	1	0	1	0	0
GARNER, TOWN OF	0	0	5	0	5	0	4
KNIGHTDALE, TOWN OF	0	0	1	0	1	0	1
MORRISVILLE, TOWN OF	0	1	1	1	1	0	1
RALEIGH, CITY OF	4	29	113	22	121	7	44
WAKE FOREST, TOWN OF	0	0	1	0	1	0	1
WENDELL, TOWN OF	1	1	1	1	1	0	0
WAKE COUNTY *	1	2	6	2	6	0	0
Unknown (community ID Unknown in FEMA data)	0	0	1	0	1	0	0
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
Wake County (unincorporated area)	370368	1	2	6	2	6	0	0	
Apex town	370467	0	0	0	0	0	0	0	
Cary town	370238	0	0	19	0	19	0	6	
Fuquay-Varina town	370239	1	0	1	0	1	0	0	
Garner town	370240	0	0	5	0	5	0	4	

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
Holly Springs town	370403	0	0	0	0	0	0	0	
Knightdale town	370241	0	0	1	0	1	0	1	
Morrisville town	370242	0	1	1	1	1	0	1	
Raleigh city	370243	4	29	113	22	121	7	44	
Rolesville town	370468	0	0	0	0	0	0	0	
Wake Forest town	370244	0	0	1	0	1	0	1	
Wendell town	370245	1	1	1	1	1	0	0	
Zebulon town	370246	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	3	10	89	8	91	2	36
2 to 4 unit residential	0	5	7	2	11	3	1
other residential	0	3	18	3	18	0	10
non-residential	4	15	35	13	37	2	10
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 fmaRL field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRL) 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 1 property is FMA repetitive loss but not NFIP repetitive loss, and 143 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_scscd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scscd_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
-

OpenFEMA disclaimer

This product uses the Federal Emergency Management Agency's OpenFEMA API, but is not endorsed by FEMA. The Federal Government or FEMA cannot vouch for the data or analyses derived from these data after the data have been retrieved from the Agency's website(s).

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.

Reuse, citation and corrections

Reuse and citation: Hazard Plain text and tables are licensed under Creative Commons Attribution 4.0 International (CC BY 4.0, <https://creativecommons.org/licenses/by/4.0/>); credit Hazard Plain and the release. The underlying federal data are public domain; OpenFEMA data are also subject to the OpenFEMA terms and conditions.

Cite this: Hazard Plain (2026). Wake County, NC: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 37183). 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_NC_37183. Preview: automated baseline.