

Rutherford County, NC

Risk-assessment baseline packet

County FIPS: 37161 Release: 2026-10 Data as of: 2026-09-30 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.

Summary

Plan status as of 2026-09-30: Approved, expires 2030-05-20. Plan: South Mountains Regional (FEMA plan 110628), approved 2025-05-21.

Since the plan was approved on 2025-05-21: 1 new hazard declaration (1 incident) and 14 NOAA Storm Events records; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$14,360,722 a year), Strong Wind (\$3,250,216) and Tornado (\$1,918,725).

The tables that follow are organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B (B1-a to B2-c); each heading says which item its tables support.

TERMS USED

EAL: expected annual loss: FEMA's modeled average yearly loss from a hazard.

NRI: FEMA's National Risk Index (version 1.20, December 2025).

NFIP: National Flood Insurance Program.

RL, SRL: repetitive loss and severe repetitive loss: flood-insured properties with repeated claims (definitions in B2-c).

FMA, HMGP: Flood Mitigation Assistance and Hazard Mitigation Grant Program, FEMA mitigation grants.

PA: FEMA Public Assistance: disaster aid to governments and some nonprofits.

Zone-level: NOAA logged the event for a National Weather Service forecast zone, which may include parts of neighboring counties.

County-coded: NOAA logged the event to this county.

FIPS: the federal code for a place; 37161 is this area.

D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).

F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.

kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.

CFR: Code of Federal Regulations.

A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).

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

CONTENTS

1. Summary and terms used, page 1
2. Plan clock, page 2
3. What changed since your last plan (approved 2025-05-21), page 2
4. B1-a: hazard identification, page 3
5. B1-b: hazard location, page 4
6. B1-c: hazard extent, page 5
7. B1-d: previous occurrences, page 7
8. B1-e: probability of future events, page 11
9. B1-f: hazards that vary across jurisdictions, page 13
10. B2-a and B2-b: vulnerability and potential impacts, page 15
11. B2-a: vulnerability (county context), page 17
12. B2-c: repetitive loss properties, page 17
13. Sources, what the plan adds, disclaimer and citation, page 19

Plan clock

Status: Approved, expires 2030-05-20
Approved: 2025-05-21

Plan: South Mountains Regional (FEMA plan 110628)
Days to expiry: 1,328

What changed since your last plan (approved 2025-05-21)

New federal declarations: 1 new hazard declaration (1 incident): EM-3637-NC (Severe Winter Storm)

Repetitive loss now: FMA RL 1, SRL 3 (44 CFR 77.2); any definition: 11

Storm Events records since approval: 14 records (data through 2026-06-30)

Repeat-flood change: this release sets the baseline count.

Sources: 1, 2, 4, 6 (numbered list at the end)

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Rutherford County (unincorporated area)	Unincorporated	Approved, expires 2030-05-20	South Mountains Regional (FEMA plan 110628)	2025-05-21	2030-05-20	1,328		this jurisdiction approved 2025-10-17
Bostic town	Town	Approved, expires 2030-05-20	South Mountains Regional (FEMA plan 110628)	2025-05-21	2030-05-20	1,328		this jurisdiction approved 2025-08-12
Chimney Rock Village village	Village	Approved, expires 2030-05-20	South Mountains Regional (FEMA plan 110628)	2025-05-21	2030-05-20	1,328		this jurisdiction approved 2026-07-17
Ellenboro town	Town	Plan 110628 approved 2025-05-21, pending adoption here; not yet eligible	South Mountains Regional (FEMA plan 110628), pending adoption here	2025-05-21 by FEMA; not yet adopted here	2030-05-20 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Forest City town	Town	Approved, expires 2030-05-20	South Mountains Regional (FEMA plan 110628)	2025-05-21	2030-05-20	1,328		this jurisdiction approved 2026-03-24
Lake Lure town	Town	Approved, expires 2030-05-20	South Mountains Regional (FEMA plan 110628)	2025-05-21	2030-05-20	1,328		this jurisdiction approved 2025-07-10
Ruth town	Town	Approved, expires 2030-05-20	South Mountains Regional (FEMA plan 110628)	2025-05-21	2030-05-20	1,328		this jurisdiction approved 2026-07-01
Rutherfordton town	Town	Approved, expires 2030-05-20	South Mountains Regional (FEMA plan 110628)	2025-05-21	2030-05-20	1,328		this jurisdiction approved 2026-07-24
Spindale town	Town	Approved, expires 2030-05-20	South Mountains Regional (FEMA plan 110628)	2025-05-21	2030-05-20	1,328		this jurisdiction approved 2025-08-18

Plan 110628 covers 13 other participants, named in the Excel file.

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

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

- 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)

Sources: 5, 6

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>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Inland Flooding	Relatively Moderate	Relatively Low	\$14,201,752	\$60,113	\$98,858	\$14,360,722	34	
2	Strong Wind	Relatively High	Relatively High	\$146,668	\$21,049	\$3,082,500	\$3,250,216	251	Includes 18 High Wind and 1 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
3	Tornado	Relatively Moderate	Relatively Low	\$1,054,930	\$1,535	\$862,260	\$1,918,725	8	
4	Earthquake	Relatively Low	Relatively Low	\$798,702	n/a	\$301,090	\$1,099,792		Storm Events does not record earthquakes.
5	Cold Wave	Relatively Low	Relatively Moderate	\$6,449	\$112,160	\$893,134	\$1,011,743	11	Includes 1 Frost/Freeze record (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
6	Ice Storm	Relatively High	Relatively High	\$733,750	n/a	\$46,524	\$780,274	5	
7	Lightning	Relatively Moderate	Relatively Moderate	\$36,066	n/a	\$487,321	\$523,387	15	
8	Hail	Relatively Low	Relatively Low	\$133,146	\$183,905	\$24,211	\$341,262	119	
9	Hurricane	Relatively Low	Relatively Low	\$272,797	\$40,176	\$14,201	\$327,174	1	
10	Heat Wave	Very Low	Very Low	\$6	\$10	\$158,997	\$159,013	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
11	Wildfire	Very Low	Very Low	\$62,641	\$121	\$17,529	\$80,290	2	
12	Drought	Relatively Low	Relatively Low	n/a	\$65,757	n/a	\$65,757	18	

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>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
13	Landslide	Relatively Low	Relatively Low	\$24,194	n/a	\$1,994	\$26,188	1	
14	Winter Weather	Relatively Low	Relatively Low	\$1,841	\$170	\$18,380	\$20,391	89	

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

NRI risk rating combines expected annual loss with social vulnerability and community resilience; EAL rating rates expected annual loss alone. Both compare this county with all U.S. counties.

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: avalanche, coastal flooding, tsunami and volcanic activity. That is the evidence for leaving them out of the plan.

The state hazard mitigation plan also lists hazards for this county; FEMA asks the plan to explain any hazard it leaves out.

Supports FEMA checklist item B1-b: hazard location

Affects the whole county (national data give no location within it): Cold Wave, Drought, Hail, Heat Wave, Ice Storm, Lightning, Strong Wind and Winter Weather.

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.

Hazards that vary within the county: highest-rated census tracts

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 9609 (Relatively Moderate, 80.4); tract 9606 (Relatively Moderate, 78.8); tract 9608 (Relatively Moderate, 78.6)
Hurricane	tract 9606 (Relatively Low, 62.8); tract 9609 (Relatively Low, 61.1); tract 9610.02 (Relatively Low, 59.9)
Landslide	tract 9603.01 (Relatively Moderate, 98.0); tract 9603.02 (Relatively Moderate, 97.3); tract 9602.01 (Relatively Moderate, 96.1)
Tornado	tract 9606 (Relatively High, 74.9); tract 9609 (Relatively Moderate, 72.4); tract 9605.02 (Relatively Moderate, 68.4)
Wildfire	tract 9602.01 (Relatively Low, 85.6); tract 9603.01 (Relatively Low, 83.6); tract 9612 (Relatively Low, 82.9)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 9609 is Census Tract 9609). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	10 records, 2014 to 2026 (10 zone-level)	1 day to 3 days (median 2 days); 8 with a recorded value	3 consecutive days, 2015-02-18 to 2015-02-20, zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	1 record, 2007 (1 zone-level)		Frost/Freeze, 2007-04-08, \$2,000,000 crop damage (2007 dollars); NWS zone NCZ508		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	18 records, 2007 to 2026 (18 zone-level)	30 days to 276 days (median 122 days); 4 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		Countywide (zone-level records).	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					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	131 records, 1979 to 2025	0.75 in to 2.75 in (median 1 in); 131 with a recorded value	2.75 in hail, 2024-05-08	Hail, 2003-05-15, \$25,000 property; crops not reported (2003 dollars)	Event records naming jurisdictions in the plan: Rutherfordton town (25 records), Forest City town (16 records), Lake Lure town (10 records), Ellenboro town (8 records), Bostic town (2 records), Spindale town (2 records), Ruth town (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	0					
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	1 record, 2024 (1 zone-level)		Strongest recorded: Tropical Storm record, 2024-09-27, \$4,000,000 property; \$0 crops (2024 dollars), 2 direct deaths (reported for the zone); NWS zone NCZ508		Countywide (zone-level records).	Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	5 records, 2008 to 2021 (5 zone-level)		No damage reported in 5 records.		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	34 records, 1996 to 2024		Flash Flood, 2024-09-26, \$35,000,000 property; \$0 crops (2024 dollars), 1 direct death		Event records naming jurisdictions in the plan: Forest City town (5 records), Rutherfordton town (4 records), Lake Lure town (3 records).	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Debris Flow	none (count and damage only)	1 record, 2013		Debris Flow, 2013-05-07, \$500,000 property; \$0 crops (2013 dollars)		Event records naming jurisdictions in the plan: Lake Lure town (1 record).	
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	15 records, 1997 to 2017		Lightning, 2002-04-17, \$100,000 property; crops not reported (2002 dollars)		Event records naming jurisdictions in the plan: Bostic town (2 records), Ellenboro town (2 records), Forest City town (2 records), Lake Lure town (2 records), Rutherfordton town (2 records).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	19 records, 2006 to 2026 (19 zone-level)	40 kt (46 mph) to 70 kt (81 mph) (median 50 kt (58 mph)); 19 with a recorded value	70 kt (81 mph) estimated gust, High Wind, 2007-04-15; NWS zone NCZ507	High Wind, 2007-04-16, \$500,000 property; \$0 crops (zone total, 2007 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	254 records, 1964 to 2026	40 kt (46 mph) to 70 kt (81 mph) (median 50 kt (58 mph)); 234 with a recorded value	70 kt (81 mph) estimated gust, Thunderstorm Wind, 2011-05-10	Thunderstorm Wind, 1997-08-05, \$300,000 property; crops not reported (1997 dollars)	Event records naming jurisdictions in the plan: Rutherfordton town (57 records), Forest City town (33 records), Lake Lure town (20 records), Ellenboro town (18 records), Bostic town (13 records), Spindale town (10 records), Ruth town (7 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	12 records, 1973 to 2024	F/EF0 to F/EF4 (median between F/EF0 and F/EF1); 12 with a recorded value	F4 tornado, 1989-05-05, 6 mi path length (whole path, pre-1996), 400 yd wide, \$250,000 property; crops not recorded (1989 dollars)		Event records naming jurisdictions in the plan: Ellenboro town (2 records), Forest City town (2 records), Rutherfordton town (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Wildfire	acres burned (local data)	2 records, 2011 to 2016 (2 zone-level)		No damage reported in 2 records.		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	89 records, 2007 to 2026 (89 zone-level)		No damage reported in 89 records.		Countywide (zone-level records).	

In event narratives only (local data needed): wind chill, temperature, heat index, ice thickness, acres burned and snow depth; any physical measure of debris flow and lightning.

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records from zones that no NWS zone-county file places in this county (mostly before 2020) are not counted here (the Methods page explains the zone matching).

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 22 declarations covering 18 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

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	no Public Assistance recorded	new since last plan; within last 5 years	
2024-09-28	2024-09-25	DR-4827-NC	Major disaster	Tropical Storm Helene	Hurricane	\$69,510,972.06	in the 12 months before plan approval; within last 5 years	
2024-09-26	2024-09-25	EM-3617-NC	Emergency	Hurricane Helene	Hurricane (primary); also designated: Inland Flooding, Landslide	no Public Assistance recorded	in the 12 months before plan approval; within last 5 years	same incident as DR-4827
2022-10-01	2022-09-28	EM-3586-NC	Emergency	Hurricane Ian	Hurricane	no Public Assistance recorded	within last 5 years	
2020-08-02	2020-07-31	EM-3534-NC	Emergency	Hurricane Isaías	Hurricane	no Public Assistance recorded		
2020-05-08	2020-02-06	DR-4543-NC	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$551,180.86		
2020-03-25	2020-01-20	DR-4487-NC	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$469,970.99		
2020-03-13	2020-01-20	EM-3471-NC	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4487
2019-09-03	2019-09-01	EM-3423-NC	Emergency	Hurricane Dorian	Hurricane	no Public Assistance recorded		
2018-09-10	2018-09-07	EM-3401-NC	Emergency	Hurricane Florence	Hurricane	no Public Assistance recorded		
2016-11-11	2016-11-11	FM-5161-NC	Fire management	Party Rock Fire	Wildfire	no Public Assistance recorded		
2005-09-05	2005-08-29	EM-3222-NC	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2004-09-18	2004-09-16	DR-1553-NC	Major disaster	Hurricane Ivan	Hurricane	\$358,665.82		
2004-09-10	2004-09-07	DR-1546-NC	Major disaster	Tropical Storm Frances	Hurricane	\$77,064.90		
2002-12-12	2002-12-04	DR-1448-NC	Major disaster	Severe Ice Storm	Ice Storm	\$308,990.23		
1996-09-06	1996-09-05	DR-1134-NC	Major disaster	Hurricane Fran	Hurricane	no Public Assistance recorded		
1996-02-23	1996-02-02	DR-1103-NC	Major disaster	Winter Storm	Winter Weather	no Public Assistance recorded		
1996-01-13	1996-01-06	DR-1087-NC	Major disaster	Blizzard of 96	Winter Weather	no Public Assistance recorded		
1993-03-17	1993-03-13	EM-3110-NC	Emergency	Severe Snowfall & Winter Storm	Winter Weather	no Public Assistance recorded		
1989-05-17	1989-05-05	DR-827-NC	Major disaster	Tornadoes	Tornado	PA not declared for this county		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1977-11-09	1977-11-09	DR-542-NC	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1977-08-11	1977-08-11	EM-3049-NC	Emergency	Drought	Drought	no Public Assistance recorded		

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.

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
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, so they are listed on every county page in the state and not counted with county rows. Local data needed: whether each one affected this county.

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.

Public Assistance filed under this county for declarations that do not list it: 2 rows, \$36,345.40

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-4153-NC	2013-10-29	Severe Storms, Flooding, Landslides, Mudslides	RUTHERFORD ELECTRIC CORP	\$2,350.41
DR-4146-NC	2013-09-25	Severe Storms, Flooding, Landslides, and Mudslides	RUTHERFORD ELECTRIC CORP	\$33,994.99

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.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Cold Wave	11	1	0	3	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record.
Drought	18	2	0	2	1	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	131	1	4	13	0	0	1955 to 2026-06-30	
Heat Wave	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Hurricane	1	0	1	1	8	0	1996 to 2026-06-30	
Ice Storm	5	0	0	0	1	0	1996 to 2026-06-30	
Inland Flooding	34	0	3	5	3	0	1996 to 2026-06-30	
Landslide	1	0	0	0	1	0	1996 to 2026-06-30	
Lightning	15	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	273	7	6	30	0	0	1955 to 2026-06-30	Includes 18 High Wind and 1 Strong Wind records.
Tornado	12	0	1	1	2	0	1950 to 2026-06-30	
Wildfire	2	0	0	0	1	0	1996 to 2026-06-30	
Winter Weather	89	3	4	12	4	1	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2024-09-27	Tropical Storm		\$4,000,000 property; \$0 crops (zone total, 2024 dollars)	2, 0	NWS zone NCZ508 (GREATER RUTHERFORD), zone-level	in the 12 months before plan approval; within last 5 years	deaths or injuries recorded
2024-09-26	Flash Flood		\$35,000,000 property; \$0 crops (2024 dollars)	1, 0	CHIMNEY ROCK	in the 12 months before plan approval; within last 5 years	B1-c worst recorded: Flash Flood, Lakeshore Flood
2024-05-08	Hail	2.75 in	damage not reported	0, 0	LAKE LURE	within last 5 years	B1-c worst recorded: Hail
2015-02-18	Cold/Wind Chill		\$0 property; \$0 crops (zone total, 2015 dollars)	0, 0	NWS zone NCZ507 (RUTHERFORD MOUNTAINS), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2013-08-01	Thunderstorm Wind	50 kt (58 mph) estimated gust	\$15,000 property; \$0 crops (2013 dollars)	1, 1	GILKEY		deaths or injuries recorded
2011-05-10	Thunderstorm Wind	70 kt (81 mph) estimated gust	damage not reported	0, 0	FOREST CITY to HARRIS SPICERS ARPT		B1-c worst recorded: Thunderstorm Wind
2011-05-10	Thunderstorm Wind	60 kt (69 mph) estimated gust	damage not reported	2, 0	WHITEHOUSE to ELLENBORO		deaths or injuries recorded
2007-05-01	Drought		\$0 property; \$0 crops (zone total, 2007 dollars)	0, 0	NWS zone NCZ508 (GREATER RUTHERFORD), zone-level		B1-c worst recorded: Drought
2007-04-15	High Wind	70 kt (81 mph) estimated gust	\$0 property; \$0 crops (zone total, 2007 dollars)	0, 0	NWS zone NCZ507 (RUTHERFORD MOUNTAINS), zone-level		B1-c worst recorded: High Wind and Strong Wind
2007-04-08	Frost/Freeze		\$0 property; \$2,000,000 crops (zone total, 2007 dollars)	0, 0	NWS zone NCZ508 (GREATER RUTHERFORD), zone-level		B1-c worst recorded: Frost/Freeze
2002-04-17	Lightning		\$100,000 property; crops not reported (2002 dollars)	0, 0	GILKEY		B1-c worst recorded: Lightning
1989-05-05	Tornado	F4, 6 mi path length (whole path, pre-1996), 400 yd wide	\$250,000 property; crops not recorded (1989 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (592 rows).

Location is the place NOAA recorded, as written in its data; it need not be a jurisdiction in this plan.

Local data needed: state-declared emergencies, from your state emergency management agency (federal data do not include them).

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

Supports FEMA checklist item B1-e: probability of future events

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

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	0.679	event-days per year	about 0.679 days per year	Likely	Storm Events event- days in 6 of 30 years, 1996 to 2025 (20%)	12.9	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	34.1	event-days per year	about 34.1 days per year	Likely	Storm Events event- days in 3 of 30 years, 1996 to 2025 (10%)	1,085	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00209	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.209%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	5.22	events per year	about 5.22 per year	Highly likely	FEMA annualized frequency (modeled)	198.2 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	0.573	event-days per year	about 0.573 days per year		Storm Events event- days in 0 of 30 years, 1996 to 2025 (0%)	9.98	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events heat wave record, 1996 to 2025
Hurricane	0.0392	events per year	about 1 in 26 years	Possible	FEMA annualized frequency (modeled)	12	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	1.8	event-days per year	about 1.8 days per year	Likely	Storm Events event- days in 5 of 30 years, 1996 to 2025 (16.7%)	121	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.893	event-days per year	about 0.893 days per year	Likely	Storm Events event- days in 18 of 30 years, 1996 to 2025 (60%)	25	1996 to 2023 (28 years)	see B1-f	
Landslide	1.26	events per year (modeled)	about 1.26 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	55	days per year with a strike	about 55 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Strong Wind	2.35	events per year	about 2.35 per year	Highly likely	FEMA annualized frequency (modeled)	90	1986 to 2023 (38 years)	countywide	
Tornado	0.271	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	
Wildfire	0.000923	annual probability at a location	chance a given location in the county burns in a year: 0.0923%	Possible	Storm Events records in 2 of 30 years, 1996 to 2025 (6.67%)	not shown	modeled	see B1-f	
Winter Weather	6.08	event-days per year	about 6.08 days per year	Likely	Storm Events event- days in 18 of 30 years, 1996 to 2025 (60%)	116	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) is the National Risk Index v1.20 (December 2025) estimate of how often a hazard affects this county in a year; it is not recorded events divided by years, and its unit differs by hazard (events, event-days, or days with a lightning strike per year). For earthquake, wildfire, coastal flooding and tsunami the value is the chance (or number of events) at a location in the county, not across the county, so no "1 in N years" is given and the descriptor comes from Storm Events where it has a record (none for earthquake). The Methods page gives each hazard's method, from FEMA's National Risk Index Technical Documentation v1.20.

Where NRI gives event-days, the descriptor comes from the share of years with a Storm Events record; NRI's source records more events, so the two differ.

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

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	56	30	1.87
Hail	2.00 in+	1996 to 2025	4	30	0.133
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	224	30	7.47
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	5	30	0.167
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	1	30	0.0333
Tornado	EF0-1	1996 to 2025	7	30	0.233
Tornado	EF2-3	1996 to 2025	1	30	0.0333
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

The bands show how often events of each severity were recorded in this county, to profile how severe events have been (FEMA's probability item asks for the range of intensities).

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.

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 (<https://resilience.climate.gov/>).

Supports FEMA checklist item B1-f: hazards that vary across jurisdictions

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Cold Wave	22 of 22	33.5	52.7	65.3	Relatively Moderate 15, Relatively Low 7
Drought	14 of 22	78.0	82.8	93.0	Relatively Moderate 1, Relatively Low 12, Very Low 1, No Rating 8
Earthquake	22 of 22	30.1	54.2	80.4	Relatively Moderate 3, Relatively Low 17, Very Low 2
Hail	22 of 22	51.4	66.9	80.6	Relatively Moderate 7, Relatively Low 15
Heat Wave	22 of 22	2.9	11.5	22.5	Relatively Low 3, Very Low 19
Hurricane	22 of 22	47.7	56.0	62.8	Relatively Low 20, Very Low 2
Ice Storm	22 of 22	74.4	91.6	96.9	Relatively High 16, Relatively Moderate 6
Inland Flooding	22 of 22	13.7	57.8	90.3	Relatively High 4, Relatively Moderate 14, Relatively Low 3, Very Low 1
Landslide	22 of 22	51.7	81.9	98.0	Relatively Moderate 4, Relatively Low 7, Very Low 11
Lightning	22 of 22	52.8	78.1	91.9	Relatively High 11, Relatively Moderate 11
Strong Wind	22 of 22	86.1	97.0	98.7	Very High 12, Relatively High 10

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	22 of 22	39.2	60.5	74.9	Relatively High 1, Relatively Moderate 15, Relatively Low 6
Wildfire	22 of 22	62.2	77.1	85.6	Relatively Low 19, Very Low 3
Winter Weather	22 of 22	23.9	33.1	44.0	Relatively Low 22

Drought: Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

Hail: Agriculture is 54% of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

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.

The score ranks a tract against all U.S. tracts (100 = highest). The rating is FEMA's category for the tract's risk value, computed differently, so the two can disagree.

Frequency data for cold wave, drought, hail, heat wave, ice storm, lightning, strong wind and winter weather are county-wide or coarse (49 km grid or NWS zone), the same for every jurisdiction; the tract range mostly reflects where buildings and people are (crop and livestock value where a line above names agriculture).

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Rutherford County (unincorporated area)	Unincorporated	Approved, expires 2030-05-20	FMA RL 1, SRL 3; any 9	\$37,460,720.07	0 total; 0 since its plan	Includes \$280,097.82 for declarations not counted as hazard incidents (DR-4487-NC).
Bostic town	Town	Approved, expires 2030-05-20	FMA RL 0, SRL 0; any 0	\$161,023.57	17 total; 1 since its plan	
Chimney Rock Village village	Village	Approved, expires 2030-05-20	FMA RL 0, SRL 0; any 1	\$7,272,082.03	0 total; 0 since its plan	
Ellenboro town	Town	Plan 110628 approved 2025-05-21, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	30 total; no approved plan	
Forest City town	Town	Approved, expires 2030-05-20	FMA RL 0, SRL 0; any 1	\$2,596,787.25	58 total; 0 since its plan	Includes \$17,991.64 for declarations not counted as hazard incidents (DR-4487-NC).
Lake Lure town	Town	Approved, expires 2030-05-20	FMA RL 0, SRL 0; any 0	\$18,383,768	36 total; 0 since its plan	
Ruth town	Town	Approved, expires 2030-05-20	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	8 total; 0 since its plan	
Rutherfordton town	Town	Approved, expires 2030-05-20	FMA RL 0, SRL 0; any 0	\$1,144,875.18	89 total; 1 since its plan	
Spindale town	Town	Approved, expires 2030-05-20	FMA RL 0, SRL 0; any 0	\$1,532,378.72	12 total; 0 since its plan	

Repetitive-loss counts are for whole NFIP communities, which can extend beyond this county (see the note in B2-c).

County Public Assistance in B1-d also includes applicants filed under the county that are not jurisdictions in this plan (for example state agencies, special districts and nonprofits), so the jurisdiction rows add up to less.

Supports FEMA checklist items B2-a and B2-b: vulnerability and potential impacts

Local data needed

The table below gives county-level starting figures; the plan describes impacts for each jurisdiction and its own assets.

- Critical facilities and lifelines per hazard
- A problem statement per jurisdiction 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

Sources: 1, 2, 3, 5, 6, 7

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>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2025-05-21 <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
Cold Wave	\$13,960,285,523	\$58,513,850	64,379	\$6,449	\$112,160	\$893,134	under 0.0001%		\$0		
Drought	n/a	\$4,505,036	n/a	n/a	\$65,757	n/a	1.46% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$24,337,111,723	n/a	64,444	\$798,702	n/a	\$301,090	0.00328%				
Hail	\$13,960,285,523	\$58,513,850	64,379	\$133,146	\$183,905	\$24,211	0.000954%				
Heat Wave	\$13,960,285,523	\$58,513,850	64,379	\$6	\$10	\$158,997	under 0.0001%				
Hurricane	\$13,957,778,929	\$58,513,850	64,377	\$272,797	\$40,176	\$14,201	0.00195%				
Ice Storm	\$13,960,252,422	n/a	64,377	\$733,750	n/a	\$46,524	0.00526%				

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>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2025-05-21 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Inland Flooding	\$13,945,431,189	\$5,172,407	461	\$14,201,752	\$60,113	\$98,858	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.
Landslide	\$1,272,330,017	n/a	4,920	\$24,194	n/a	\$1,994	0.0019%				
Lightning	\$13,960,285,523	n/a	64,379	\$36,066	n/a	\$487,321	0.000258%				
Strong Wind	\$13,960,285,523	\$58,513,850	64,379	\$146,668	\$21,049	\$3,082,500	0.00105%	\$0	\$0		
Tornado	\$13,960,285,523	\$58,513,850	64,379	\$1,054,930	\$1,535	\$862,260	0.00756%				
Wildfire	\$936,370,962	\$17,444,571	13,147	\$62,641	\$121	\$17,529	0.00669%				
Winter Weather	\$13,960,285,523	\$58,513,850	64,379	\$1,841	\$170	\$18,380	under 0.0001%		\$0	no Public Assistance recorded (1 declaration)	

Totals since 2025-05-21 (Storm Events through 2026-06-30): 7 county-coded records, 6 with a damage value recorded (including \$0), \$0; 7 zone-level records, 7 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: none recorded on the 1 counted declaration.

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 does not add up to the total; the unit total counts each declaration once.

NRI computes earthquake exposure on its own basis, so it exceeds the county building value in B2-a.

Supports FEMA checklist item B2-a: vulnerability (county context)

County context

Source: 5

Measure	Value
Population	64,379
Building value (total, not at risk)	\$13,960,285,523
Agriculture value (total, not at risk)	\$58,513,850
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$17,957,935
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)	\$6,007,000
Social vulnerability rating	Relatively High
Community resilience rating	Relatively Low
NRI version	December 2025

FEMA's all-hazard expected annual loss adds buildings, agriculture and population equivalence; this table gives the property part and the population-equivalence part as separate rows.

Social vulnerability: higher means people are more likely to be harmed and slower to recover. Community resilience: lower means the community is less able to recover. High social vulnerability and low resilience both raise the NRI risk rating.

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	1	Severe repetitive loss, FMA definition (44 CFR 77.2)	3
Repetitive loss, NFIP insurance definition	11	Severe repetitive loss, NFIP insurance definition	3

The state NFIP coordinator's list, the source FEMA's Handbook names, often uses the NFIP insurance definition (second row).

Repeat-flood properties: county and state-level rows

Sources: 1, 4

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	1	3	11	3	11	0	4
of which: Rutherford County (unincorporated area)	1	3	9	3	9	0	3
of which: Forest City town	0	0	1	0	1	0	1
of which: Chimney Rock village	0	0	1	0	1	0	0
Statewide, no county in FEMA's file	0	0	2	0	2	0	0

The statewide row counts properties FEMA's file gives with no county in this state; they are listed for reference and are not in this county's counts.

Repeat-flood properties by jurisdiction in the plan (NFIP community)

Sources: 1, 4

Jurisdiction	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>
Rutherford County (unincorporated area)	370217	1	3	9	3	9	0	3
Bostic town	370354	0	0	0	0	0	0	0
Chimney Rock Village village	370487	0	0	1	0	1	0	0
Ellenboro town	370561	0	0	0	0	0	0	0
Forest City town	370218	0	0	1	0	1	0	1
Lake Lure town	370488	0	0	0	0	0	0	0
Ruth town	370355	0	0	0	0	0	0	0
Rutherfordton town	370219	0	0	0	0	0	0	0
Spindale town	370356	0	0	0	0	0	0	0

Counts by occupancy group for each jurisdiction are in the Excel file, sheet "B2-c Jurisdictions".

Jurisdiction 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 jurisdiction row, while the county table counts only its part in this county.

County repeat-flood properties by occupancy group

Sources: 1, 4

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	1	2	7	2	7	0	4
2 to 4 unit residential	0	0	1	0	1	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	1	3	1	3	0	0
not reported	0	0	0	0	0	0	0

FEMA's occupancy groups have no institutional class; institutional properties are counted in non-residential or other residential in the table by occupancy group.

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. NFIP repetitive loss (the FEMA insurance definition) is 2 or more claims over \$1,000 in 10 years, and a property can leave that group once it is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured. The Methods page gives the OpenFEMA field details.

Counts are aggregates of FEMA's public NFIP Multiple Loss Properties file (FEMA's data date 2026-08-02; file version 2026-08-04). No property is identified. County assignment is FEMA's geocode.

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 10 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

Tables cite these sources by number. The full list, for the plan's bibliography (FEMA review item A4-a):

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
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5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, 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 2026-09-30, <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 2026-09-30, <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 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)

What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment (the summary on page 1 says how it is organized); the plan and FEMA's review decide whether each item is met.

The plan adds what only the community has: local data on assets, critical facilities, development and each jurisdiction's impacts; local hazard history, including state-declared emergencies; the mitigation strategy; and adoption.

How the federal data are built: National Risk Index values are FEMA's model, not counts of events. Storm Events is more complete from 1996; zone-level records are placed by forecast zone, not by location in the county. Public Assistance for a jurisdiction is matched by applicant name. The Methods page gives every rule and the known edge cases.

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Corrections: to report an error, name the packet, the table and what your records show. Contact: contact@hazardplain.org