

Onslow County, NC

Risk-assessment baseline packet

County FIPS: 37133 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 2031-04-20. Plan: Southeastern NC Regional (FEMA plan 111751), approved 2026-04-21.

Since the plan was approved on 2026-04-21: no new hazard declaration and 4 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): Hurricane (\$170,613,391 a year), Inland Flooding (\$22,776,825) and Tornado (\$6,866,464).

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; 37133 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.

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Plan clock

Status: Approved, expires 2031-04-20

Approved: 2026-04-21

Plan: Southeastern NC Regional (FEMA plan 111751)

Days to expiry: 1,663

What changed since your last plan (approved 2026-04-21)

New federal declarations: none

Storm Events records since approval: 4 records (data through 2026-06-30)

Repetitive loss now: FMA RL 21, SRL 78 (44 CFR 77.2); any definition: 497

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>	Notes
Onslow County	County	Approved, expires 2031-04-20	Southeastern NC Regional (FEMA plan 111751)	2026-04-21	2031-04-20	1,663	this jurisdiction approved 2026-05-01
Holly Ridge town	Town	Approved, expires 2031-04-20	Southeastern NC Regional (FEMA plan 111751)	2026-04-21	2031-04-20	1,663	this jurisdiction approved 2026-05-26
Jacksonville city	City	Approved, expires 2031-04-20	Southeastern NC Regional (FEMA plan 111751)	2026-04-21	2031-04-20	1,663	this jurisdiction approved 2026-05-01
North Topsail Beach town	Town	Approved, expires 2031-04-20	Southeastern NC Regional (FEMA plan 111751)	2026-04-21	2031-04-20	1,663	this jurisdiction approved 2026-05-01
Richlands town	Town	Approved, expires 2031-04-20	Southeastern NC Regional (FEMA plan 111751)	2026-04-21	2031-04-20	1,663	this jurisdiction approved 2026-05-01
Swansboro town	Town	Approved, expires 2031-04-20	Southeastern NC Regional (FEMA plan 111751)	2026-04-21	2031-04-20	1,663	this jurisdiction approved 2026-05-01
Onslow Water and Sewer Authority	Water/Sewer Authority	Approved, expires 2031-04-20	Southeastern NC Regional (FEMA plan 111751)	2026-04-21	2031-04-20	1,663	this jurisdiction approved 2026-09-21

Plan 111751 lists 34 other participants not on this page, 2 of them not covered by it yet (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	Hurricane	Very High	Very High	\$157,476,825	\$3,644,832	\$9,491,734	\$170,613,391	4	
2	Inland Flooding	Relatively Moderate	Relatively Moderate	\$22,122,799	\$101,600	\$552,427	\$22,776,825	60	
3	Tornado	Relatively Moderate	Relatively Moderate	\$1,505,554	\$4,337	\$5,356,572	\$6,866,464	29	
4	Heat Wave	Relatively Moderate	Relatively Moderate	\$195	\$516	\$3,109,125	\$3,109,836	9	
5	Coastal Flooding	Relatively Moderate	Relatively High	\$2,624,821	n/a	\$195,621	\$2,820,443	1	
6	Winter Weather	Very High	Very High	\$181,764	\$305	\$1,609,852	\$1,791,921	4	
7	Cold Wave	Relatively Low	Relatively Moderate	\$9,980	\$72,395	\$1,696,629	\$1,779,005	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
8	Lightning	Relatively High	Relatively High	\$151,393	n/a	\$1,625,743	\$1,777,135	6	
9	Strong Wind	Relatively Moderate	Relatively High	\$454,616	\$152,888	\$1,070,602	\$1,678,105	178	Includes 1 High Wind record (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
10	Wildfire	Relatively Low	Relatively Moderate	\$836,671	\$1,493	\$129,742	\$967,906	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
11	Earthquake	Relatively Low	Relatively Low	\$649,756	n/a	\$183,943	\$833,699		Storm Events does not record earthquakes.
12	Ice Storm	Relatively Moderate	Relatively Moderate	\$334,943	n/a	\$59,176	\$394,119	1	

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	Hail	Relatively Low	Relatively Low	\$84,294	\$28,044	\$153,703	\$266,042	174	
14	Drought	Relatively Low	Relatively Low	n/a	\$48,183	n/a	\$48,183	13	
15	Landslide	Very Low	Very Low	\$734	n/a	\$8	\$742	0	Declared 1 time; no Storm Events record of this type.
	Tsunami	Insufficient Data	Insufficient Data	n/a	n/a	n/a	n/a	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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.

Local data needed: state and local wildfire, landslide and tsunami records (Storm Events records these hazards only in part).

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: avalanche 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.

Coastal Flooding and 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 26 (Relatively Moderate, 79.7); tract 21 (Relatively Low, 62.8); tract 2.07 (Relatively Low, 59.1)
Hurricane	tract 26 (Very High, 100.0); tract 1.05 (Very High, 100.0); tract 6 (Very High, 100.0)
Landslide	tract 4.01 (Relatively Low, 83.0); tract 1.05 (Very Low, 80.7); tract 1.03 (Very Low, 78.7)
Tornado	tract 6 (Relatively High, 86.1); tract 24 (Relatively High, 84.0); tract 2.05 (Relatively High, 83.8)
Tsunami	no tract has a National Risk Index rating for this hazard
Wildfire	tract 4.01 (Relatively Moderate, 95.8); tract 4.05 (Relatively Moderate, 93.3); tract 3.04 (Relatively Moderate, 93.3)

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 26 is Census Tract 26). 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
Coastal Flood, Storm Surge/ Tide	none in data (flood depth: FIRM)	1 record, 2021 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	0					
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					
Drought	U.S. Drought Monitor scale (D0 to D4)	13 records, 2022 to 2026 (13 zone-level)	7 days to 108 days (median 79 days); 4 with a recorded value	108 days (about 3.5 months), 2022-03-15 to 2022-06-30, a run of 4 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)	193 records, 1974 to 2025	0.75 in to 2.75 in (median 0.88 in); 193 with a recorded value	2.75 in hail, 1997-04-21		Event records naming jurisdictions in the plan: Jacksonville city (21 records), Richlands town (11 records), Swansboro town (11 records), Holly Ridge town (3 records), North Topsail Beach town (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	9 records, 2019 to 2025 (9 zone-level)	1 day to 3 days (median 2 days); 7 with a recorded value	3 consecutive days, 2025-07-26 to 2025-07-28, zone-level		Countywide (zone-level records).	
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	4 records, 2019 to 2024 (4 zone-level)		Strongest recorded: Tropical Storm record, 2022-09-30, \$0 property; \$0 crops (2022 dollars); NWS zone NCZ198		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)	1 record, 2022 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	60 records, 1996 to 2025		Flash Flood, 2010-09-30, \$1,000,000 property; \$6,000,000 crops (2010 dollars)		Event records naming jurisdictions in the plan: Jacksonville city (9 records), Richlands town (4 records), Swansboro town (2 records), Holly Ridge town (1 record), North Topsail Beach town (1 record).	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.
Debris Flow	none (count and damage only)	0					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	6 records, 1996 to 2025		Lightning, 2025-04-11, \$0 property; \$0 crops (2025 dollars), 1 direct death, 1 direct injury	Lightning, 1996-08-01, \$2,000,000 property; crops not reported (1996 dollars)	Event records naming jurisdictions in the plan: Jacksonville city (1 record), Swansboro town (1 record).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	1 record, 2022 (1 zone-level)	50 kt (58 mph); 1 with a recorded value	50 kt (58 mph) estimated gust, High Wind, 2022-03-12; NWS zone NCZ198		Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	231 records, 1964 to 2026	50 kt (58 mph) to 78 kt (90 mph) (median 50 kt (58 mph)); 183 with a recorded value	78 kt (90 mph), measurement type not recorded, Thunderstorm Wind, 1983-03-21	Thunderstorm Wind, 2006-05-26, \$50,000 property; crops not reported (2006 dollars)	Event records naming jurisdictions in the plan: Jacksonville city (17 records), Swansboro town (11 records), Richlands town (10 records), Holly Ridge town (3 records), North Topsail Beach town (3 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	50 records, 1955 to 2026	F/EF0 to F/EF3 (median F/EF0); 50 with a recorded value	EF3 tornado, 2011-04-16, 3.76 mi within this county, 450 yd wide, \$9,400,000 property; \$0 crops (2011 dollars), 30 direct injuries		Event records naming jurisdictions in the plan: Jacksonville city (8 records), Richlands town (4 records), Swansboro 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).
Tsunami	none (count and damage only)	0					
Wildfire	acres burned (local data)	0					
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	4 records, 2025 to 2026 (4 zone-level)		No damage reported in 4 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, lightning and tsunami.

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: 30 declarations covering 20 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	in the 12 months before plan approval; within last 5 years	
2024-10-19	2024-09-16	DR-4837-NC	Major disaster	Potential Tropical Cyclone Eight	Hurricane (primary); also designated: Inland Flooding	\$3,482,974.18	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	within last 5 years	
2024-08-06	2024-08-05	EM-3608-NC	Emergency	Tropical Storm Debby	Hurricane	no Public Assistance recorded	within last 5 years	
2022-10-01	2022-09-28	EM-3586-NC	Emergency	Hurricane Ian	Hurricane	\$39,436.62	within last 5 years	
2020-10-14	2020-07-31	DR-4568-NC	Major disaster	Hurricane Isaias	Hurricane	\$1,404,258.49		
2020-08-02	2020-07-31	EM-3534-NC	Emergency	Hurricane Isaias	Hurricane	no Public Assistance recorded		same incident as DR-4568
2020-03-25	2020-01-20	DR-4487-NC	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$1,177,196.74		
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
2019-10-04	2019-09-01	DR-4465-NC	Major disaster	Hurricane Dorian	Hurricane	\$2,212,188.92		
2019-09-03	2019-09-01	EM-3423-NC	Emergency	Hurricane Dorian	Hurricane	no Public Assistance recorded		same incident as DR-4465
2018-09-14	2018-09-07	DR-4393-NC	Major disaster	Hurricane Florence	Hurricane	\$57,167,753.97		
2018-09-10	2018-09-07	EM-3401-NC	Emergency	Hurricane Florence	Hurricane	no Public Assistance recorded		same incident as DR-4393
2016-10-10	2016-10-04	DR-4285-NC	Major disaster	Hurricane Matthew	Hurricane	\$6,487,394.07		
2016-10-07	2016-10-04	EM-3380-NC	Emergency	Hurricane Matthew	Hurricane	no Public Assistance recorded		same incident as DR-4285
2011-08-31	2011-08-25	DR-4019-NC	Major disaster	Hurricane Irene	Hurricane	\$3,119,259.92		
2011-08-25	2011-08-25	EM-3327-NC	Emergency	Hurricane Irene	Hurricane	no Public Assistance recorded		same incident as DR-4019

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Flags	Notes
						<i>federal share obligated,</i>	<i>nominal dollars</i>		
2011-04-19	2011-04-16	DR-1969-NC	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado		\$384,542.07		
2010-10-14	2010-09-27	DR-1942-NC	Major disaster	Severe Storms, Flooding, and Straight-Line Winds	Inland Flooding; Strong Wind	PA not declared for this county			
2010-09-01	2010-09-01	EM-3314-NC	Emergency	Hurricane Earl	Hurricane		\$12,850.35		
2005-10-07	2005-09-11	DR-1608-NC	Major disaster	Hurricane Ophelia	Hurricane		\$495,293.43		
2005-09-14	2005-09-11	EM-3254-NC	Emergency	Hurricane Ophelia	Hurricane		\$1,258,821.46		same incident as DR-1608
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			
2003-09-18	2003-09-18	DR-1490-NC	Major disaster	Hurricane Isabel	Hurricane		\$597,198.24		
1999-09-16	1999-09-15	DR-1292-NC	Major disaster	Hurricane Floyd Major Disaster Declarations	Hurricane		\$7,128,519.83		
1999-09-15	1999-09-15	EM-3146-NC	Emergency	Hurricane Floyd Emergency Declarations	Hurricane	no Public Assistance recorded			same incident as DR-1292
1999-09-01	1999-08-29	EM-3141-NC	Emergency	Hurricane Dennis	Hurricane		\$86,009.04		
1998-08-27	1998-08-20	DR-1240-NC	Major disaster	Hurricane Bonnie	Hurricane	no Public Assistance recorded			
1996-09-06	1996-09-05	DR-1134-NC	Major disaster	Hurricane Fran	Hurricane	no Public Assistance recorded			
1996-07-18	1996-07-10	DR-1127-NC	Major disaster	Hurricane Bertha	Hurricane	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.

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
Coastal Flooding	1	0	0	1	0	0	1996 to 2026-06-30	
Cold Wave	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Drought	13	2	5	13	0	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	193	0	3	9	0	0	1955 to 2026-06-30	
Heat Wave	9	0	2	5	0	0	1996 to 2026-06-30	
Hurricane	4	0	0	2	17	0	1996 to 2026-06-30	
Ice Storm	1	0	0	1	0	0	1996 to 2026-06-30	
Inland Flooding	60	0	7	17	4	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	6	0	0	1	0	0	1996 to 2026-06-30	
Strong Wind	232	2	5	49	1	0	1955 to 2026-06-30	Includes 1 High Wind record.
Tornado	50	0	2	4	1	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
Wildfire	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	4	0	2	4	1	0	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
2025-07-26	Excessive Heat		damage not reported	0, 0	NWS zone NCZ199 (COASTAL ONSLOW), zone-level	in the 12 months before plan approval; within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2025-04-11	Lightning		\$0 property; \$0 crops (2025 dollars)	1, 1	MIDWAY PARK	within last 5 years	deaths or injuries recorded
2022-09-30	Tropical Storm		\$0 property; \$0 crops (zone total, 2022 dollars)	0, 0	NWS zone NCZ198 (INLAND ONSLOW), zone-level	within last 5 years	B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2022-03-15	Drought		damage not reported	0, 0	NWS zone NCZ199 (COASTAL ONSLOW), zone-level	within last 5 years	B1-c worst recorded: Drought
2022-03-12	High Wind	50 kt (58 mph) estimated gust	damage not reported	0, 0	NWS zone NCZ198 (INLAND ONSLOW), zone-level	within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2017-07-11	Lightning		\$0 property; \$0 crops (2017 dollars)	1, 1	(NCA)MCAS NEW RIVER		deaths or injuries recorded
2011-04-16	Tornado	EF3, 3.76 mi within this county, 450 yd wide	\$9,400,000 property; \$0 crops (2011 dollars)	0, 30	MIDWAY PARK		B1-c worst recorded: Tornado
2010-09-30	Flash Flood		\$1,000,000 property; \$6,000,000 crops (2010 dollars)	0, 0	CATHERINE LAKE to MORRIS LNDG		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1997-04-21	Hail	2.75 in	damage not reported	0, 0	DEPPE		B1-c worst recorded: Hail
1996-08-01	Lightning		\$2,000,000 property; crops not reported (1996 dollars)	0, 0	JACKSONVILLE		B1-c most damaging: Lightning
1986-07-02	Tornado	F2, 1.5 mi path length (whole path, pre-1996), 33 yd wide	\$250,000 property; crops not recorded (1986 dollars)	3, 10	location not recorded		deaths or injuries recorded
1983-03-21	Thunderstorm Wind	78 kt (90 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind

The full list is in the Excel file, sheet "B1-d Storm Events history" (573 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
Coastal Flooding	3.26	events per year at a location (modeled)	about 3.3 per year at a given location in the county	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	Descriptor from NRI: the rate at a location is 1 or more a year, so the county rate is at least that.
Cold Wave	0.421	event-days per year	about 0.421 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	7.85	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events cold wave record, 1996 to 2025.
Drought	6.48	event-days per year	about 6.48 days per year	Possible	Storm Events event-days in 2 of 30 years, 1996 to 2025 (6.67%)	238	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00107	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.107%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	2.52	events per year	about 2.52 per year	Highly likely	FEMA annualized frequency (modeled)	98.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	8.53	event-days per year	about 8.53 days per year	Likely	Storm Events event-days in 5 of 30 years, 1996 to 2025 (16.7%)	133	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.378	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	131	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	0.653	event-days per year	about 0.653 days per year	Possible	Storm Events event-days in 1 of 30 years, 1996 to 2025 (3.33%)	39	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.54	event-days per year	about 1.54 days per year	Likely	Storm Events event-days in 21 of 30 years, 1996 to 2025 (70%)	43	1996 to 2023 (28 years)	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Landslide	0.119	events per year (modeled)	about 1 in 8 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	55.9	days per year with a strike	about 55.9 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	1.21	events per year	about 1.21 per year	Highly likely	FEMA annualized frequency (modeled)	42	1986 to 2023 (38 years)	countywide	
Tornado	0.59	events per year	about 0.59 per year	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)			Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Wildfire	0.00129	annual probability at a location	chance a given location in the county burns in a year: 0.129%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Winter Weather	2.55	event-days per year	about 2.55 days per year	Possible	Storm Events event-days in 1 of 30 years, 1996 to 2025 (3.33%)	48.1	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	65	30	2.17
Hail	2.00 in+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	158	30	5.27
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	3	30	0.1
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	10	30	0.333
Tornado	EF0-1	1996 to 2025	25	30	0.833
Tornado	EF2-3	1996 to 2025	2	30	0.0667
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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	
Coastal Flooding	42 of 45	69.8	77.4	99.9	Very High 1, Relatively High 1, Relatively Moderate 5, Relatively Low 17, Very Low 18, No Rating 3
Cold Wave	45 of 45	18.6	41.2	62.8	Relatively Moderate 14, Relatively Low 30, Very Low 1
Drought	39 of 45	67.3	74.8	87.5	Relatively Low 12, Very Low 27, No Rating 6
Earthquake	45 of 45	6.8	32.3	79.7	Relatively Moderate 1, Relatively Low 13, Very Low 31
Hail	45 of 45	10.1	45.9	61.0	Relatively Low 33, Very Low 12
Heat Wave	45 of 45	5.9	66.0	87.4	Relatively High 2, Relatively Moderate 29, Relatively Low 13, Very Low 1
Hurricane	45 of 45	86.1	99.0	100.0	Very High 39, Relatively High 4, Relatively Moderate 2
Ice Storm	45 of 45	6.8	62.5	85.4	Relatively Moderate 15, Relatively Low 26, Very Low 4
Inland Flooding	45 of 45	0.8	39.3	79.8	Relatively High 1, Relatively Moderate 16, Relatively Low 19, Very Low 9
Landslide	45 of 45	18.4	53.6	83.0	Relatively Low 1, Very Low 44
Lightning	45 of 45	17.3	83.8	97.7	Very High 2, Relatively High 29, Relatively Moderate 12, Relatively Low 1, Very Low 1
Strong Wind	45 of 45	15.0	71.5	87.0	Relatively High 6, Relatively Moderate 30, Relatively Low 8, Very Low 1
Tornado	45 of 45	22.6	66.7	86.1	Relatively High 12, Relatively Moderate 24, Relatively Low 8, Very Low 1
Tsunami	0 of 45				Insufficient Data 45
Wildfire	45 of 45	52.8	83.7	95.8	Relatively Moderate 15, Relatively Low 25, Very Low 5
Winter Weather	45 of 45	52.0	96.7	99.5	Very High 31, Relatively High 12, Relatively Moderate 2

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.

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
Onslow County	County	Approved, expires 2031-04-20	FMA RL 16, SRL 32; any 192	\$10,804,208.69	0 total; 0 since its plan	Includes \$336,958.61 for declarations not counted as hazard incidents (DR-4487-NC).
Holly Ridge town	Town	Approved, expires 2031-04-20	FMA RL 0, SRL 1; any 2	\$281,164.63	7 total; 0 since its plan	
Jacksonville city	City	Approved, expires 2031-04-20	FMA RL 0, SRL 4; any 28	\$9,200,136.76	56 total; 0 since its plan	
North Topsail Beach town	Town	Approved, expires 2031-04-20	FMA RL 3, SRL 31; any 199	\$38,684,086.08	5 total; 0 since its plan	
Richlands town	Town	Approved, expires 2031-04-20	FMA RL 0, SRL 0; any 0	\$235,197.58	29 total; 0 since its plan	
Swansboro town	Town	Approved, expires 2031-04-20	FMA RL 1, SRL 4; any 17	\$1,060,241.56	26 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).

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

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 2026-04-21 <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
Coastal Flooding	\$2,604,410,658	n/a	10,292	\$2,624,821	n/a	\$195,621	0.101%				
Cold Wave	\$33,850,515,234	\$220,908,208	202,949	\$9,980	\$72,395	\$1,696,629	under 0.0001%				
Drought	n/a	\$25,563,388	n/a	n/a	\$48,183	n/a	0.188% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$56,660,543,827	n/a	204,576	\$649,756	n/a	\$183,943	0.00115%				
Hail	\$33,850,515,234	\$220,908,208	202,949	\$84,294	\$28,044	\$153,703	0.000249%				
Heat Wave	\$33,850,515,234	\$220,908,208	202,949	\$195	\$516	\$3,109,125	under 0.0001%				
Hurricane	\$33,850,515,234	\$220,908,208	202,949	\$157,476,825	\$3,644,832	\$9,491,734	0.465%				
Ice Storm	\$33,815,479,459	n/a	202,702	\$334,943	n/a	\$59,176	0.000991%				
Inland Flooding	\$33,802,027,657	\$4,678,834	7,049	\$22,122,799	\$101,600	\$552,427	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	\$123,849,878	n/a	702	\$734	n/a	\$8	0.000593%				
Lightning	\$33,850,515,234	n/a	202,949	\$151,393	n/a	\$1,625,743	0.000447%				
Strong Wind	\$33,850,515,234	\$220,908,208	202,949	\$454,616	\$152,888	\$1,070,602	0.00134%				
Tornado	\$33,850,515,234	\$220,908,208	202,949	\$1,505,554	\$4,337	\$5,356,572	0.00445%				

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 2026-04-21 <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
Tsunami	n/a	n/a	n/a	n/a	n/a	n/a					NRI publishes no building exposure for this county
Wildfire	\$7,427,598,798	\$119,668,619	69,383	\$836,671	\$1,493	\$129,742	0.0113%				
Winter Weather	\$33,850,515,234	\$220,908,208	202,949	\$181,764	\$305	\$1,609,852	0.000537%				

Totals since 2026-04-21 (Storm Events through 2026-06-30): 2 county-coded records, 0 with a damage value recorded (including \$0), \$0; 2 zone-level records, 0 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: no counted declaration since the plan.

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	202,949
Building value (total, not at risk)	\$33,850,515,234
Agriculture value (total, not at risk)	\$220,908,208
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$190,488,939
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)	\$25,234,877
Social vulnerability rating	Very Low
Community resilience rating	Relatively Moderate
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)	21	Severe repetitive loss, FMA definition (44 CFR 77.2)	78
Repetitive loss, NFIP insurance definition	484	Severe repetitive loss, NFIP insurance definition	69

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	21	78	484	69	497	7	193
of which: Jacksonville city	0	4	28	4	28	0	14
of which: Swansboro town	1	4	17	4	17	0	4
of which: Surf City town (plan jurisdiction listed on the Pender County page)	1	6	59	6	59	0	29
of which: Onslow County (unincorporated area)	16	32	184	27	192	5	38
of which: North Topsail Beach town	3	31	194	27	199	2	108
of which: Holly Ridge town	0	1	2	1	2	0	0
Statewide, no county in FEMA's file	0	0	2	0	2	0	0

59 of the county's repeat-flood properties belong to NFIP communities whose plan jurisdiction is not listed on this page (the community rows above name the page that lists it).

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>
Onslow County	370340	16	32	184	27	192	5	38
Holly Ridge town	370575	0	1	2	1	2	0	0
Jacksonville city	370178	0	4	28	4	28	0	14
North Topsail Beach town	370466	3	31	194	27	199	2	108
Richlands town	370341	0	0	0	0	0	0	0
Swansboro town	370179	1	4	17	4	17	0	4

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	18	60	391	51	403	6	165
2 to 4 unit residential	1	7	54	7	54	0	11
other residential	0	3	18	3	18	0	10
non-residential	2	8	21	8	22	1	7
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 5 properties are FMA repetitive loss but not NFIP repetitive loss, and 468 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)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <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 2026-09-30, 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.

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).

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