

Morris County, NJ

Risk-assessment baseline packet

Unit **County area 34027** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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

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Plan clock

Status	Approved, expires 2030-09-28	Plan	Morris County 2025 (FEMA plan 109912)
Approved	2025-09-29	Expires	2030-09-28
As of	2026-09-28	Days	1,461 days to expiry

What changed since your last plan (approved 2025-09-29)

New federal declarations	none (0 declaration rows; 0 counted incidents)	Storm Events records since approval	28 (data through 2026-06-30)
Repetitive loss now	FMA RL 96, SRL 416 (44 CFR 77.2); any definition: 1,027	Repeat-flood change	First release: no prior release to compare.

SOURCES: FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API); FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API); NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>; FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

Plan status for every jurisdiction listed in this county: 40 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

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

CONTENTS

1. Plan clock, page 1
2. What changed since your last plan (approved 2025-09-29), page 1
3. Supports B1-a: hazards, page 4
4. Supports B1-b: location, page 6
5. Supports B1-c: extent, page 6
6. Supports B1-d: previous occurrences, page 10
7. Supports B1-e: probability, page 15
8. Supports B1-f: variation across the planning area, page 18
9. Supports B2-a and B2-b: assets and impacts, page 21
10. Supports B2-a: context, page 23
11. Supports B2-c: repetitive loss, page 23
12. Sources and OpenFEMA disclaimer, page 26

Plan clock**Plan status for every jurisdiction listed in this county**

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Morris County	County	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		
Boonton town	Town	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-22
Butler borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-12
Chatham borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-16
Chester borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2026-02-13
Dover town	Town	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-12-01
Florham Park borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-12
Kinnelon borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2026-02-13
Lincoln Park borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2026-02-19
Madison borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2026-01-30
Mendham borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-24
Morris Plains borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-22
Morristown town	Town	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-14
Mount Arlington borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-14
Mountain Lakes borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-14

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Netcong borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2026-02-06
Riverdale borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-24
Rockaway borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-14
Victory Gardens borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2026-01-08
Wharton borough	Borough	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-06
Boonton township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-12
Chatham township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-14
Chester township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-24
Denville township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-24
East Hanover township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-06
Hanover township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-12-01
Harding township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-24
Jefferson township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-22
Long Hill township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-27
Mendham township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-16
Mine Hill township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-12
Montville township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-22
Morris township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-12
Mount Olive township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-16
Parsippany-Troy Hills township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-12-18
Pequannock township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-11-14

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Randolph township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-27
Rockaway township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-22
Roxbury township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-12-01
Washington township	Township	Approved, expires 2030-09-28	Morris County 2025 (FEMA plan 109912)	2025-09-29	2030-09-28	1,461		member approved 2025-10-27

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

Supports B1-a: hazards

Hazards NRI does not cover: check locally

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

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

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Relatively High	Relatively High	\$156,547,401	\$1	\$1,530,541	\$158,077,942	149		
2	Cold Wave	Relatively High	Relatively High	\$543	\$3,139	\$14,945,952	\$14,949,633	35		Includes 2 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
3	Earthquake	Relatively Low	Relatively Moderate	\$6,071,722		\$1,076,191	\$7,147,913			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
4	Tornado	Relatively Moderate	Relatively Moderate	\$3,516,858	\$273	\$2,855,414	\$6,372,544	2		
5	Hurricane	Relatively Moderate	Relatively Moderate	\$6,030,764	\$98,776	\$172,555	\$6,302,095	3		
6	Strong Wind	Relatively High	Relatively High	\$859,423	\$1,992	\$5,237,615	\$6,099,030	435		Includes 34 High Wind records and 90 Strong Wind records, event types the NRI definition of this hazard leaves out.

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
7	Heat Wave	Relatively Moderate	Relatively Moderate	under \$1	\$4,476	\$4,629,104	\$4,633,579	76		
8	Lightning	Relatively High	Relatively High	\$114,499		\$1,909,767	\$2,024,266	49		
9	Winter Weather	Very High	Very High	\$279,402	\$14	\$1,166,606	\$1,446,022	317		Includes 5 Sleet records, event types the NRI definition of this hazard leaves out.
10	Drought	Relatively Moderate	Relatively Moderate		\$690,906		\$690,906	41		
11	Ice Storm	Relatively Low	Relatively Moderate	\$32,360		\$182,524	\$214,885	3		
12	Hail	Very Low	Relatively Low	\$86,879	\$15,196	\$25,870	\$127,944	61		
13	Wildfire	Very Low	Very Low	\$19,075	\$3	\$3,899	\$22,977	8		
14	Landslide	Relatively Low	Relatively Low	\$13,196		\$649	\$13,845	0		Declared 1 time; no Storm Events record of this type. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
15	Avalanche	Very Low	Very Low	\$0		\$33	\$33	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Coastal Flooding	Not Applicable	Not Applicable					0		Declared 2 times; no Storm Events record of this type.
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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

SOURCES

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

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

Check your state hazard mitigation plan's hazard list for this county; explain any hazard you drop.

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	3 of 110
Coastal Flooding	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 110
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	110 of 110
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	37 of 110
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	110 of 110
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	110 of 110
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	110 of 110
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	110 of 110
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	110 of 110
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.	110 of 110
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	110 of 110
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	110 of 110
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	110 of 110
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	110 of 110
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 110
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 110
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	94 of 110
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	110 of 110

SOURCE

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

Supports B1-c: extent

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

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	33, 1996 to 2022 (33 zone-level)	1 day to 16 days (median 1 day); 27 with a recorded value	16 consecutive days, 2003-01-14 to 2003-01-29, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required. Cold/Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	2, 2007 to 2007 (2 zone-level)		No crop damage reported in 2 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Temperature: in event narratives only; local data required.
Drought	US Drought Monitor D-scale	41, 1997 to 2015 (41 zone-level)	1 day to 392 days (median 2 days); 17 with a recorded value	392 days (about 12.9 months), 2001-10-30 to 2002-11-25, a run of 14 consecutive Storm Events drought records, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	72, 1975 to 2024	0.75 in to 2.75 in (median 1 in); 72 with a recorded value	2.75 in hail, 1995-07-11	Hail, 2013-07-07, \$5,000 property; \$0 crops (2013 dollars)	Event records naming member places: Butler borough (4 records), Morristown town (4 records), Madison borough (3 records), Chester borough (2 records), Chester township (2 records), Dover town (2 records), Mendham borough (2 records), Mendham township (2 records), Chatham borough (1 record), Chatham township (1 record); and 8 more member places (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	76, 1996 to 2025 (76 zone-level)	1 day to 10 days (median 2 days); 51 with a recorded value	10 consecutive days, 2002-08-11 to 2002-08-20, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required. Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	3, 2008 to 2020 (3 zone- level)		Strongest recorded (records with damage, a wind speed or direct casualties first, then storm type, category and wind): Tropical Storm record, 2011-08-27 to 2011-08-28, \$500,000 property; \$0 crops, reported for the zone (2011 dollars); NWS zone NJZ008 (MORRIS), zone- level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.
Ice Storm	Sperry-Piltz (local data)	3, 1997 to 2005 (3 zone- level)		No damage reported in 3 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: in event narratives only; local data required.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	149, 1996 to 2026 (26 zone- level)		Flood, 2011-08-28, \$200,000,000 property; \$0 crops (2011 dollars), 1 direct death		Event records naming member places: Boonton town (10 records), Boonton township (10 records), Lincoln Park borough (10 records), Chatham borough (8 records), Chatham township (8 records), Riverdale borough (6 records), Morristown town (5 records), Dover town (4 records), Netcong borough (4 records), Butler borough (3 records); and 13 more member places (see the XLSX file). Zone-level records (26) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	49, 1996 to 2025		Lightning, 2009-06-09, \$250,000 property; \$0 crops (2009 dollars)		Event records naming member places: Boonton town (4 records), Boonton township (4 records), Morristown town (4 records), Florham Park borough (3 records), Hanover township (3 records), Rockaway borough (2 records), Rockaway township (2 records), Butler borough (1 record), Chatham borough (1 record), Chatham township (1 record); and 10 more member places (see the XLSX file).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	124, 1996 to 2020 (123 zone-level)	35 kt (40 mph) to 61 kt (70 mph) (median 40 kt (46 mph)); 97 with a recorded value	61 kt (70 mph) measured gust, High Wind, 2012-10-29, 3 direct deaths, 2 direct injuries (reported for the zone); NWS zone NJZ008 (MORRIS), zone-level: may include parts of neighboring counties	High Wind, 1999-09-16, \$3,000,000 property; crops not reported, reported for the zone (1999 dollars)	Event records naming member places: Morristown town (1 record). Zone-level records (123) apply countywide.	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Thunderstorm Wind	wind speed (kt and mph)	357, 1963 to 2026	50 kt (58 mph) to 70 kt (81 mph) (median 50 kt (58 mph)); 305 with a recorded value	70 kt (81 mph), measurement type not recorded, Thunderstorm Wind, 1963-05-20	Thunderstorm Wind, 2003-07-22, \$1,000,000 property; crops not reported (2003 dollars)	Event records naming member places: Chester borough (17 records), Chester township (17 records), Morristown town (17 records), Mendham borough (16 records), Mendham township (16 records), Chatham borough (12 records), Chatham township (12 records), Madison borough (10 records), Denville township (9 records), Morris Plains borough (9 records); and 20 more member places (see the XLSX file).	
Tornado	Enhanced Fujita (F before Feb 2007)	8, 1951 to 2021	F/EF0 to F/EF3 (median F/EF1); 8 with a recorded value	F3 tornado, 1973-05-28, 0.4 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 50 yd wide, \$250,000 property; crops not recorded (1973 dollars), 12 direct injuries		Event records naming member places: Florham Park borough (1 record), Rockaway borough (1 record), Rockaway township (1 record).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	8, 1997 to 2013 (6 zone- level)		No damage reported in 8 records.		Event records naming member places: Morristown town (1 record). Zone-level records (6) apply countywide.	Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	317, 1996 to 2026 (317 zone-level)		Blizzard, 1996-01-07, \$1,500,000 property; crops not reported, reported for the zone (1996 dollars); NWS zone NJZ008 (MORRIS), zone- level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

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

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

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

SOURCES

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

Supports B1-d: previous occurrences

Declaration rows 33 Counted incidents 23

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2021-09-05	2021-09-01	DR-4614-NJ	Major disaster	REMNANTS OF HURRICANE IDA	Hurricane	\$1,479,707.29		
2021-09-02	2021-09-01	EM-3573-NJ	Emergency	REMNANTS OF HURRICANE IDA	Hurricane	none found		same incident as DR-4614
2021-04-28	2021-01-31	DR-4597-NJ	Major disaster	SEVERE WINTER STORM AND SNOWSTORM	Winter Weather	\$4,940,237.42		
2020-12-11	2020-08-04	DR-4574-NJ	Major disaster	TROPICAL STORM ISAIAS	Hurricane	\$3,878,319.43		
2020-03-25	2020-01-20	DR-4488-NJ	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$8,622,041.12		
2020-03-13	2020-01-20	EM-3451-NJ	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4488
2018-06-08	2018-03-06	DR-4368-NJ	Major disaster	SEVERE WINTER STORM AND SNOWSTORM	Winter Weather	\$7,212,168.74		
2016-03-14	2016-01-22	DR-4264-NJ	Major disaster	SEVERE WINTER STORM AND SNOWSTORM	Winter Weather	\$2,631,699.32		
2012-10-30	2012-10-26	DR-4086-NJ	Major disaster	HURRICANE SANDY	Hurricane	\$14,120,577.50		
2012-10-28	2012-10-26	EM-3354-NJ	Emergency	HURRICANE SANDY	Hurricane	none found		same incident as DR-4086
2011-11-30	2011-10-29	DR-4048-NJ	Major disaster	SEVERE STORM	Hazard not mapped (severe storm title names no single hazard); not counted	\$4,000,964.98		
2011-08-31	2011-08-27	DR-4021-NJ	Major disaster	HURRICANE IRENE	Hurricane	\$15,297,148.93		
2011-08-27	2011-08-26	EM-3332-NJ	Emergency	HURRICANE IRENE	Hurricane	none found		same incident as DR-4021
2011-02-04	2010-12-26	DR-1954-NJ	Major disaster	SEVERE WINTER STORM AND SNOWSTORM	Winter Weather	\$1,919,526.70		
2010-04-02	2010-03-12	DR-1897-NJ	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$1,135,396.70		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	
						<i>federal share obligated, nominal dollars</i>	Flags Notes
2007-04-26	2007-04-14	DR-1694-NJ	Major disaster	SEVERE STORMS AND INLAND AND COASTAL FLOODING	Coastal Flooding	PA not declared for this county	
2005-09-19	2005-08-29	EM-3257-NJ	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	none found	
2005-04-19	2005-04-01	DR-1588-NJ	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	PA not declared for this county	
2003-03-20	2003-02-16	EM-3181-NJ	Emergency	SNOW	Winter Weather	\$1,588,843.32	
2001-09-19	2001-09-11	EM-3169-NJ	Emergency	FIRES AND EXPLOSIONS	Non-natural, not counted	\$161,970.63	
2000-11-01	2000-05-30	EM-3156-NJ	Emergency	WEST NILE VIRUS	Non-natural, not counted	none found	
2000-08-17	2000-08-12	DR-1337-NJ	Major disaster	SEVERE STORMS, FLOODING AND MUDSLIDES	Inland Flooding; Landslide	\$479,034.30	
1999-09-18	1999-09-16	DR-1295-NJ	Major disaster	HURRICANE FLOYD MAJOR DISASTER DECLARATIONS	Hurricane	\$1,284,779.97	
1999-09-17	1999-09-16	EM-3148-NJ	Emergency	HURRICANE FLOYD EMERGENCY DECLARATIONS	Hurricane	none found	same incident as DR-1295
1996-11-19	1996-10-18	DR-1145-NJ	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	PA not declared for this county	
1996-01-13	1996-01-07	DR-1088-NJ	Major disaster	BLIZZARD OF 96 (SEVERE SNOW STORM)	Winter Weather	none found	
1993-03-17	1993-03-13	EM-3106-NJ	Emergency	SEVERE BLIZZARD	Winter Weather	none found	
1984-04-12	1984-03-28	DR-701-NJ	Major disaster	COASTAL STORMS & FLOODING	Coastal Flooding	none found	
1980-10-19	1980-10-19	EM-3083-NJ	Emergency	WATER SHORTAGE	Drought	none found	
1975-07-23	1975-07-23	DR-477-NJ	Major disaster	HEAVY RAINS, HIGH WINDS, HAIL & TORNADOES	Inland Flooding (primary); also designated: Hail, Strong Wind, Tornado	none found	
1971-09-04	1971-09-04	DR-310-NJ	Major disaster	HEAVY RAINS & FLOODING	Inland Flooding	none found	
1968-06-18	1968-06-18	DR-245-NJ	Major disaster	HEAVY RAINS & FLOODING	Inland Flooding	none found	
1965-08-18	1965-08-18	DR-205-NJ	Major disaster	WATER SHORTAGE	Drought	none found	

County Public Assistance: applicants the FEMA record places in this county, including any state agencies FEMA files there; statewide rows are listed on the state page; federal share obligated, nominal dollars.

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

SOURCES

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

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

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

Statewide declarations

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
1962-03-09	1962-03-09	DR-124-NJ	Major disaster	SEVERE STORM, HIGH TIDES & FLOODING	Inland Flooding (primary); also designated: Coastal Flooding		
1955-08-20	1955-08-20	DR-41-NJ	Major disaster	HURRICANE & FLOODS	Hurricane (primary); also designated: Inland Flooding		

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

SOURCE

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

Public Assistance not placed in a county in this state: 1 row, \$23,724.37

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated <i>federal share obligated, nominal dollars</i>	Why not placed
4021	2011-08-31	SOUTH PLAINFIELD PUBLIC LIBRARY	Monroe County	\$23,724.37	county field is a county of another state and the applicant name does not identify a place in the declaring state

FEMA's Public Assistance summaries file these applicants under a county field that is not a county of this state (an Alaska school area, the former Valdez-Cordova Census Area, or another state's county), and the applicant name does not identify one place here. They are listed for the whole state and are not in any county total. Check whether any of them worked in your county.

SOURCE

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

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval records	During plan review records	Last 5 years records	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0	0	0	0	2	0	1996 to 2026-06-30	No Storm Events records of this type; 2 federal declared incidents (see declarations table)
Cold Wave	35	0	0	1	0	0	1996 to 2026-06-30	Includes 2 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
Drought	41	0	0	0	2	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	72	0	0	16	1	0	1955 to 2026-06-30	
Heat Wave	76	0	3	9	0	0	1996 to 2026-06-30	
Hurricane	3	0	0	0	5	0	1996 to 2026-06-30	
Ice Storm	3	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	149	1	4	19	7	0	1996 to 2026-06-30	

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
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	49	0	1	2	0	0	1996 to 2026-06-30	
Strong Wind	481	16	7	70	1	0	1955 to 2026-06-30	Includes 34 High Wind records and 90 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	8	0	0	0	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
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	8	0	0	0	0	0	1996 to 2026-06-30	
Winter Weather	317	11	9	40	7	0	1996 to 2026-06-30	Includes 5 Sleet records, event types the NRI definition of this hazard leaves out.

SOURCES

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

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

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2018-06-18	Thunderstorm Wind	50 kt (58 mph) estimated gust	\$0 property; \$0 crops (2018 dollars)	1, 1	CONVENT STATION		deaths or injuries recorded
2012-10-29	High Wind	61 kt (70 mph) measured gust	\$50,000 property; \$0 crops, reported for the zone (2012 dollars)	3, 2	NWS zone NJZ008 (MORRIS), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2011-08-28	Flood		\$200,000,000 property; \$0 crops (2011 dollars)	1, 0	MILTON to STEPHENSBURG		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2011-08-27	Tropical Storm		\$500,000 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone NJZ008 (MORRIS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2009-06-09	Lightning		\$250,000 property; \$0 crops (2009 dollars)	0, 0	CEDAR KNOLLS		B1-c worst recorded: Lightning
2005-01-28	Cold/Wind Chill		damage not reported	2, 0	NWS zone NJZ008 (MORRIS), zone-level: may include parts of neighboring counties		deaths or injuries recorded

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2003-01-14	Cold/Wind Chill		damage not reported	0, 0	NWS zone NJZ008 (MORRIS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2002-08-11	Heat		damage not reported	0, 0	NWS zone NJZ008 (MORRIS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2001-10-30	Drought		damage not reported	0, 0	NWS zone NJZ008 (MORRIS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Drought
1996-01-07	Blizzard		\$1,500,000 property; crops not reported, reported for the zone (1996 dollars)	0, 0	NWS zone NJZ008 (MORRIS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
1973-05-28	Tornado	F3, 0.4 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 50 yd wide	\$250,000 property; crops not recorded (1973 dollars)	0, 12	location not recorded		B1-c worst recorded: Tornado
1963-05-20	Thunderstorm Wind	70 kt (81 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind

The full list is in the XLSX file, sheet "B1-d Storm Events history" (1,242 rows).

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

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
 NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
 FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

State-declared emergencies are not in federal data. Add them from your state emergency management agency.

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1994 to 2023 (30 years)	see B1-f	0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events.
Coastal Flooding		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Cold Wave	0.843	event-days per year	about 0.843 days per year	Likely	event-days in 13 of 30 years, 1996 to 2025 (43.3%)	16	2005-11-12 to 2024-11-12 (19 years)	countywide	Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	2.64	event-days per year	about 2.64 days per year	Likely	event-days in 9 of 30 years, 1996 to 2025 (30%)	70	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 2.64 drought event-days a year here (its annualized frequency over 25.25 years; not its event count divided by the years), but Storm Events has a record in only 9 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Earthquake	0.00195	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.195%			not shown	modeled	see B1-f	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.
Hail	2.47	events per year	about 2.47 per year	Highly likely	FEMA annualized frequency (modeled)	93.9 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	6.06	event-days per year	about 6.06 days per year	Likely	event-days in 21 of 30 years, 1996 to 2025 (70%)	91.2	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0965	events per year	about 1 in 10 years	Possible	FEMA annualized frequency (modeled)	26	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Ice Storm	0.876	event-days per year	about 0.876 days per year	Likely	event-days in 3 of 30 years, 1996 to 2025 (10%)	59	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	4.36	event-days per year	about 4.36 days per year	Highly likely	event-days in 28 of 30 years, 1996 to 2025 (93.3%)	122	1996 to 2023 (28 years)	see B1-f	
Landslide	0.425	events per year (modeled)	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	33	days per year with a strike	about 33 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	6.37	events per year	about 6.37 per year	Highly likely	FEMA annualized frequency (modeled)	242	1986 to 2023 (38 years)	countywide	
Tornado	0.18	events per year	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.000124	annual probability at a location	chance a given location in the county burns in a year: 0.0124%	Likely	Storm Events records in 6 of 30 years, 1996 to 2025 (20%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Winter Weather	14.3	event-days per year	about 14.3 days per year	Highly likely	event-days in 30 of 30 years, 1996 to 2025 (100%)	272	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county, which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location

burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

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

Descriptor scale used in this packet (defined per unit)

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

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

Intensity bands: historical frequency (Storm Events)

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	27	30	0.9
Hail	2.00 in+	1996 to 2025	1	30	0.0333
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	283	30	9.43
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	1	30	0.0333
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	14	30	0.467
Tornado	EF0-1	1996 to 2025	2	30	0.0667
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

SOURCE

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	3 of 110	6.8	6.8	6.8	Very Low 3, Not Applicable 107	
Coastal Flooding	0 of 110				Not Applicable 110	
Cold Wave	110 of 110	46.9	67.9	87.2	Relatively High 18, Relatively Moderate 90, Relatively Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	37 of 110	76.4	83.2	96.9	Relatively Moderate 5, Relatively Low 21, Very Low 11, No Rating 73	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally.
Earthquake	110 of 110	30.1	56.6	81.0	Relatively Moderate 5, Relatively Low 97, Very Low 8	
Hail	110 of 110	8.6	18.6	41.7	Relatively Low 1, Very Low 109	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	110 of 110	19.6	43.4	72.9	Relatively Moderate 20, Relatively Low 90	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	110 of 110	52.1	65.9	78.0	Relatively Low 110	
Ice Storm	110 of 110	6.7	19.3	50.5	Relatively Low 7, Very Low 103	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	110 of 110	6.5	71.6	99.7	Very High 12, Relatively High 33, Relatively Moderate 35, Relatively Low 25, Very Low 5	
Landslide	110 of 110	11.8	63.7	92.9	Relatively Low 20, Very Low 90	
Lightning	110 of 110	32.6	55.8	83.3	Relatively High 4, Relatively Moderate 71, Relatively Low 35	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	110 of 110	52.2	75.1	90.4	Relatively High 19, Relatively Moderate 89, Relatively Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	110 of 110	30.1	43.0	56.8	Relatively Moderate 8, Relatively Low 102	
Tsunami	0 of 110				Not Applicable 110	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Volcanic Activity	0 of 110				Not Applicable 110	
Wildfire	94 of 110	18.9	36.0	70.6	Relatively Low 1, Very Low 93, No Rating 16	
Winter Weather	110 of 110	62.0	82.0	93.7	Relatively High 73, Relatively Moderate 37	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

Rated tracts only: No Rating (score 0.0), Not Applicable and Insufficient Data tracts are counted but not used for the minimum, median and maximum.

SOURCE

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

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Morris County	County	Approved, expires 2030-09-28		\$10,324,804	0; 0	No NFIP community ID on this member's plan row. Includes \$4,413,435.10 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ, EM-3169-NJ).
Boonton town	Town	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$489,078.62	21; 1	Includes \$49,888.15 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).
Butler borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 6	\$1,501,651.94	10; 0	Includes \$153,695.64 for declarations not counted as hazard incidents (DR-4048-NJ).
Chatham borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 1	\$770,228.56	22; 0	Includes \$65,771.03 for declarations not counted as hazard incidents (DR-4048-NJ).
Chester borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$203,693.76	20; 1	Includes \$34,158.53 for declarations not counted as hazard incidents (DR-4048-NJ).
Dover town	Town	Approved, expires 2030-09-28	FMA RL 1, SRL 20; any 52	\$542,687.73	15; 2	Includes \$30,140.46 for declarations not counted as hazard incidents (DR-4048-NJ).
Florham Park borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$1,254,808.79	12; 0	Includes \$191,315.20 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).
Kinnelon borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$971,683.77	4; 0	Includes \$24,133.43 for declarations not counted as hazard incidents (DR-4048-NJ).
Lincoln Park borough	Borough	Approved, expires 2030-09-28	FMA RL 42, SRL 186; any 349	\$1,568,814.73	11; 0	Includes \$67,138.07 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).
Madison borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 1	\$2,413,449.20	14; 0	Includes \$370,242.95 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Mendham borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$856,248.44	20; 2	Includes \$206,733.53 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).
Morris Plains borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$647,285.56	11; 0	Includes \$34,806.18 for declarations not counted as hazard incidents (DR-4048-NJ).
Morristown town	Town	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 2	\$1,455,683.58	32; 1	Includes \$64,078.61 for declarations not counted as hazard incidents (DR-4048-NJ).
Mount Arlington borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$223,530.05	6; 1	Includes \$11,344.63 for declarations not counted as hazard incidents (DR-4048-NJ).
Mountain Lakes borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$1,182,933.17	2; 0	Includes \$125,995.30 for declarations not counted as hazard incidents (DR-4048-NJ).
Netcong borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$165,911.71	8; 0	
Riverdale borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 19	\$136,261.03	6; 0	Includes \$17,918.46 for declarations not counted as hazard incidents (DR-4488-NJ).
Rockaway borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 1; any 8	\$221,077.19	12; 0	Includes \$12,883.95 for declarations not counted as hazard incidents (DR-4048-NJ).
Victory Gardens borough	Borough	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$5,645.56	0; 0	Includes \$3,271.01 for declarations not counted as hazard incidents (DR-4048-NJ).
Wharton borough	Borough	Approved, expires 2030-09-28	FMA RL 1, SRL 1; any 1	\$302,409.30	6; 0	Includes \$25,115.86 for declarations not counted as hazard incidents (DR-4048-NJ).
Boonton township	Township	Approved, expires 2030-09-28	FMA RL 1, SRL 2; any 11	\$268,509.82	21; 1	Includes \$27,511 for declarations not counted as hazard incidents (DR-4048-NJ).
Chatham township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 1	\$1,182,079.94	22; 0	Includes \$208,668.50 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).
Chester township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$763,114.12	20; 1	Includes \$89,720.81 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).
Denville township	Township	Approved, expires 2030-09-28	FMA RL 6, SRL 43; any 94	\$1,501,965.63	12; 1	Includes \$122,021.48 for declarations not counted as hazard incidents (DR-4048-NJ).
East Hanover township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 3; any 10	\$1,504,295.88	6; 0	Includes \$43,316.48 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).
Hanover township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 1; any 11	\$1,025,926.78	6; 0	Includes \$77,442.33 for declarations not counted as hazard incidents (DR-4048-NJ).
Harding township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$573,359.39	0; 0	Includes \$26,026.96 for declarations not counted as hazard incidents (DR-4048-NJ).
Jefferson township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 10	\$1,585,841.70	1; 0	Includes \$70,193.55 for declarations not counted as hazard incidents (DR-4048-NJ).
Long Hill township	Township	Approved, expires 2030-09-28	FMA RL 1, SRL 9; any 25	\$1,684,222.57	0; 0	Includes \$133,660.42 for declarations not counted as hazard incidents (DR-4048-NJ).

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Mendham township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 2	\$1,494,907.38	20; 2	Includes \$269,065.85 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).
Mine Hill township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$109,850.17	9; 0	
Montville township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 2; any 5	\$941,537.06	5; 2	Includes \$60,002.69 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).
Morris township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 1; any 5	\$2,429,177.50	0; 0	Includes \$325,450.98 for declarations not counted as hazard incidents (DR-4048-NJ).
Mount Olive township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 4	\$837,828.13	1; 0	Includes \$126,158.91 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).
Parsippany-Troy Hills township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 5; any 50	\$4,534,107.14	0; 0	Includes \$383,419.22 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).
Pequannock township	Township	Approved, expires 2030-09-28	FMA RL 43, SRL 137; any 334	\$1,540,801.01	5; 0	Includes \$18,073.70 for declarations not counted as hazard incidents (DR-4488-NJ).
Randolph township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 2	\$1,691,676.99	0; 0	Includes \$262,782.11 for declarations not counted as hazard incidents (DR-4048-NJ).
Rockaway township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 6	\$951,556.94	12; 0	Includes \$61,394.33 for declarations not counted as hazard incidents (DR-4048-NJ, DR-4488-NJ).
Roxbury township	Township	Approved, expires 2030-09-28	FMA RL 0, SRL 0; any 0	\$1,376,134.29	0; 0	Includes \$192,042.57 for declarations not counted as hazard incidents (DR-4048-NJ).
Washington township	Township	Approved, expires 2030-09-28	FMA RL 1, SRL 4; any 17	\$585,621.89	0; 0	Includes \$48,014.67 for declarations not counted as hazard incidents (DR-4048-NJ).

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

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

SOURCES

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

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

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

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

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

Local data required

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

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

- Future assets

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2025-09-29 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche	\$0		under 1	\$0		\$33					building exposure is 0 in NRI
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$133,210,770,728	\$31,961,573	508,868	\$543	\$3,139	\$14,945,952	under 0.0001%				
Drought		\$28,213,162			\$690,906		2.45% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$224,234,760,513		509,285	\$6,071,722		\$1,076,191	0.00271%				
Hail	\$133,210,770,728	\$31,961,573	508,868	\$86,879	\$15,196	\$25,870	under 0.0001%				
Heat Wave	\$133,210,770,728	\$31,961,573	508,868	under \$1	\$4,476	\$4,629,104	under 0.0001%				
Hurricane	\$133,154,650,278	\$31,779,943	508,598	\$6,030,764	\$98,776	\$172,555	0.00453%				
Ice Storm	\$133,210,156,222		508,864	\$32,360		\$182,524	under 0.0001%				
Inland Flooding	\$133,011,367,872	\$737,199	16,566	\$156,547,401	\$1	\$1,530,541	n/a (see note)	\$0			NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. EAL as % of exposure: n/a.
Landslide	\$6,153,807,532		25,161	\$13,196		\$649	0.000214%				
Lightning	\$133,210,770,728		508,868	\$114,499		\$1,909,767	under 0.0001%				
Strong Wind	\$133,210,770,728	\$31,961,573	508,868	\$859,423	\$1,992	\$5,237,615	0.000645%	\$5,000			
Tornado	\$133,210,770,728	\$31,961,573	508,868	\$3,516,858	\$273	\$2,855,414	0.00264%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$2,440,144,740	\$3,095,313	20,160	\$19,075	\$3	\$3,899	0.000782%				
Winter Weather	\$133,210,770,728	\$31,961,573	508,868	\$279,402	\$14	\$1,166,606	0.00021%		\$0		

Totals since 2025-09-29 (Storm Events through 2026-06-30): 17 county-coded records, 4 with a damage value recorded (including \$0), \$5,000; 11 zone-level records, 11 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance on counted declarations none found (0 declarations, 0 with PA).

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

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

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

SOURCES

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

Supports B2-a: context

County context

Measure	Value
Population	508,868
Building value (total, not at risk)	\$133,210,770,728
Agriculture value (total, not at risk)	\$31,961,573
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$174,386,895
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)	\$33,736,721
Social vulnerability rating	Very Low
Community resilience rating	Very High
NRI version	December 2025

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

SOURCE

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

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	96	Severe repetitive loss, FMA definition (44 CFR 77.2)	416
Repetitive loss, NFIP insurance definition	896	Severe repetitive loss, NFIP insurance definition	293

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

SOURCES

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

Repeat-flood properties: county and state-level rows

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	96	416	896	293	1,027	95	422
BOONTON, TOWNSHIP OF	1	2	11	2	11	0	2
BUTLER, BOROUGH OF	0	0	6	0	6	0	3
CHATHAM, BOROUGH OF	0	0	1	0	1	0	1
DOVER, TOWN OF	1	20	52	20	52	0	9
EAST HANOVER, TOWNSHIP OF	0	3	10	3	10	0	5
HANOVER, TOWNSHIP OF	0	1	11	1	11	0	1
MADISON, BOROUGH OF	0	0	1	0	1	0	0
MONTVILLE, TOWNSHIP OF	0	2	5	2	5	0	2
MORRIS, TOWNSHIP OF	0	1	5	1	5	0	2
MORRISTOWN, TOWN OF	0	0	2	0	2	0	2
MOUNT OLIVE, TOWNSHIP OF	0	0	4	0	4	0	1
PARSIPPANY-TROY HILLS, TOWNSHIP OF	0	5	50	5	50	0	16
LONG HILL, TOWNSHIP OF	1	9	22	6	25	3	12
RANDOLPH, TOWNSHIP OF	0	0	2	0	2	0	1
RIVERDALE, BOROUGH OF	0	0	19	0	19	0	10
ROCKAWAY, TOWNSHIP OF	0	0	6	0	6	0	1
WASHINGTON, TOWNSHIP OF	1	4	17	3	17	0	8
WHARTON, BOROUGH OF	1	1	1	1	1	0	0
CHATHAM, TOWNSHIP OF	0	0	1	0	1	0	0
MENDHAM, TOWNSHIP OF	0	0	2	0	2	0	0
JEFFERSON, TOWNSHIP OF	0	0	10	0	10	0	3
DENVILLE, TOWNSHIP OF	6	43	81	33	94	11	44
LINCOLN PARK, BOROUGH OF	42	186	294	134	349	20	116
PEQUANNOCK, TOWNSHIP OF	43	137	274	80	334	61	181
ROCKAWAY, BOROUGH OF	0	1	8	1	8	0	2
Unknown (community ID Unknown in FEMA data)	0	1	1	1	1	0	0
State level, not in this county: county not reported	0	1	5	0	6	1	0

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

Repeat-flood properties by plan member (NFIP community)

Member	NFIP community ID	RL, FMA properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties	Note
Boonton town	340335	0	0	0	0	0	0	0	
Butler borough	340337	0	0	6	0	6	0	3	
Chatham borough	340338	0	0	1	0	1	0	1	
Chester borough	345534	0	0	0	0	0	0	0	
Dover town	340340	1	20	52	20	52	0	9	
Florham Park borough	340342	0	0	0	0	0	0	0	
Kinnelon borough	340345	0	0	0	0	0	0	0	
Lincoln Park borough	345300	42	186	294	134	349	20	116	
Madison borough	340347	0	0	1	0	1	0	0	
Mendham borough	340540	0	0	0	0	0	0	0	
Morris Plains borough	340351	0	0	0	0	0	0	0	
Morristown town	340352	0	0	2	0	2	0	2	
Mount Arlington borough	340541	0	0	0	0	0	0	0	
Mountain Lakes borough	340161	0	0	0	0	0	0	0	
Netcong borough	340354	0	0	0	0	0	0	0	
Riverdale borough	340359	0	0	19	0	19	0	10	
Rockaway borough	345315	0	1	8	1	8	0	2	
Victory Gardens borough	340162	0	0	0	0	0	0	0	
Wharton borough	340364	1	1	1	1	1	0	0	
Boonton township	340336	1	2	11	2	11	0	2	
Chatham township	340504	0	0	1	0	1	0	0	
Chester township	340555	0	0	0	0	0	0	0	
Denville township	345292	6	43	81	33	94	11	44	
East Hanover township	340341	0	3	10	3	10	0	5	
Hanover township	340343	0	1	11	1	11	0	1	
Harding township	340344	0	0	0	0	0	0	0	
Jefferson township	340522	0	0	10	0	10	0	3	
Long Hill township	340356	1	9	22	6	25	3	12	
Mendham township	340511	0	0	2	0	2	0	0	
Mine Hill township	340556	0	0	0	0	0	0	0	
Montville township	340349	0	2	5	2	5	0	2	
Morris township	340350	0	1	5	1	5	0	2	
Mount Olive township	340353	0	0	4	0	4	0	1	
Parsippany-Troy Hills township	340355	0	5	50	5	50	0	16	

Member	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>	Note
Pequannock township	345311	43	137	274	80	334	61	181	
Randolph township	340358	0	0	2	0	2	0	1	
Rockaway township	340360	0	0	6	0	6	0	1	
Roxbury township	340362	0	0	0	0	0	0	0	
Washington township	340363	1	4	17	3	17	0	8	

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

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

SOURCES

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

County repeat-flood properties by occupancy group

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	94	375	771	253	901	94	379
2 to 4 unit residential	1	14	34	13	35	1	9
other residential	0	1	6	1	6	0	5
non-residential	1	26	85	26	85	0	29
not reported	0	0	0	0	0	0	0

Institutional properties cannot be separated in this data: FEMA's occupancy groups have no institutional class, so they fall in non-residential or other residential in the table by occupancy group.

SOURCES

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

FMA RL and FMA SRL are the Flood Mitigation Assistance definitions (44 CFR 77.2), the ones the FEMA Local Mitigation Planning Policy Guide cites; OpenFEMA's fmaRI field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRI) is 2 or more claims over \$1,000 in 10 years and can drop to false when a property is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured.

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

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

Counts may differ from your state NFIP coordinator's list, which is the source the Handbook names.

In this county 51 properties are FMA repetitive loss but not NFIP repetitive loss, and 851 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

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

2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-28, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

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

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_NJ_34027. Preview: automated baseline.