

Putnam County, NY

Risk-assessment baseline packet

Unit **County area 36079** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

Hazard Plain is an independent product built from public federal data. It is not a FEMA document and is not reviewed or endorsed by FEMA or any state agency.

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

OPENFEMA DISCLAIMER

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

Plan clock

Status	Expired on 2026-06-08	Plan	Putnam County 2021 (FEMA plan 107443)
Approved	2021-06-09	Expires	2026-06-08
As of	2026-09-28	Days	112 days since expiry
Update underway	FEMA tracker shows a plan in progress		

Generally not eligible for FEMA mitigation project grants (HMGP, FMA) until a new plan is approved, barring a 44 CFR 201.6(a)(3) exception. Planning grants are not affected.

What changed since your last plan (approved 2021-06-09)

New federal declarations	EM-3565-NY, EM-3572-NY, DR-4615-NY, DR-4723-NY (4 declaration rows; 3 counted incidents)	Storm Events records since approval	56 (data through 2026-06-30)
Repetitive loss now	FMA RL 0, SRL 4 (44 CFR 77.2); any definition: 25	Repeat-flood change	First release: no prior release to compare.

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

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Putnam County	County	Expired on 2026-06-08	Putnam County 2021 (FEMA plan 107443)	2021-06-09	2026-06-08	-112	FEMA tracker shows a plan in progress	
Brewster village	Village	Expired on 2026-06-08	Putnam County 2021 (FEMA plan 107443)	2021-06-09	2026-06-08	-112	FEMA tracker shows a plan in progress	member approved 2021-07-23
Nelsonville village	Village	Expired on 2026-06-08	Putnam County 2021 (FEMA plan 107443)	2021-06-09	2026-06-08	-112	FEMA tracker shows a plan in progress	member approved 2021-07-16

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Carmel town	Town	Expired on 2026-06-08	Putnam County 2021 (FEMA plan 107443)	2021-06-09	2026-06-08	-112	FEMA tracker shows a plan in progress	member approved 2021-06-22
Kent town	Town	Expired on 2026-06-08	Putnam County 2021 (FEMA plan 107443)	2021-06-09	2026-06-08	-112	FEMA tracker shows a plan in progress	member approved 2021-06-28
Patterson town	Town	Expired on 2026-06-08	Putnam County 2021 (FEMA plan 107443)	2021-06-09	2026-06-08	-112	FEMA tracker shows a plan in progress	
Philipstown town	Town	Expired on 2026-06-08	Putnam County 2021 (FEMA plan 107443)	2021-06-09	2026-06-08	-112	FEMA tracker shows a plan in progress	member approved 2021-07-15
Putnam Valley town	Town	Expired on 2026-06-08	Putnam County 2021 (FEMA plan 107443)	2021-06-09	2026-06-08	-112	FEMA tracker shows a plan in progress	
Southeast town	Town	Expired on 2026-06-08	Putnam County 2021 (FEMA plan 107443)	2021-06-09	2026-06-08	-112	FEMA tracker shows a plan in progress	member approved 2021-07-23

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

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

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Supports B1-a: hazards

Hazards NRI does not cover: check locally

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

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

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <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 Low	Relatively Low	\$13,573,672	\$57	\$14,217	\$13,587,946	32		
2	Hurricane	Relatively Low	Relatively Low	\$1,225,675	\$20,086	\$40,271	\$1,286,032	2		
3	Strong Wind	Relatively Moderate	Relatively Moderate	\$455,718	\$116	\$683,556	\$1,139,390	137		Includes 18 High Wind records and 5 Strong Wind records, event types the NRI definition of this hazard leaves out.
4	Cold Wave	Relatively Low	Relatively Moderate	\$158	\$540	\$1,041,532	\$1,042,231	4		
5	Earthquake	Relatively Low	Relatively Low	\$892,537		\$106,701	\$999,238			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
6	Tornado	Relatively Low	Relatively Low	\$664,808	\$78	\$160,154	\$825,039	2		
7	Heat Wave	Relatively Low	Relatively Low	under \$1	\$523	\$543,563	\$544,086	10		
8	Ice Storm	Relatively Moderate	Relatively Moderate	\$253,927		\$74,299	\$328,226	7		
9	Lightning	Relatively Low	Relatively Low	\$37,041		\$268,856	\$305,897	6		
10	Winter Weather	Relatively Low	Relatively Moderate	\$19,134	\$2	\$100,720	\$119,856	106		

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
11	Coastal Flooding	Very Low	Relatively Low	\$27,190		\$1,023	\$28,214	1		
12	Landslide	Relatively Low	Relatively Low	\$13,567		\$6,198	\$19,764	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.
13	Hail	Very Low	Very Low	\$7,021	\$1,632	\$9,251	\$17,904	26		
14	Wildfire	Very Low	Very Low	\$9,799	\$1	\$2,189	\$11,990	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
15	Drought	Very Low	Very Low		\$5,341		\$5,341	10		
16	Avalanche	Very Low	Very Low	under \$1		\$225	\$225	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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

SOURCES

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

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

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	7 of 24
Coastal 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.	3 of 24
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	24 of 24

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	2 of 24
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.	24 of 24
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	24 of 24
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	24 of 24
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.	24 of 24
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	24 of 24
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.	24 of 24
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.	24 of 24
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	24 of 24
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	24 of 24
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.	24 of 24
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 24
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 24
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.	24 of 24
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	24 of 24

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)	1, 1996 to 1996 (1 zone-level)		No damage reported in 1 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	4, 2000 to 2004 (4 zone-level)	1 day to 2 days (median 2 days); 4 with a recorded value	2 consecutive days, 2004-01-15 to 2004-01-16, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	0					Temperature: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Drought	US Drought Monitor D-scale	10, 2001 to 2002 (10 zone-level)	92 days to 214 days (median 153 days); 2 with a recorded value	214 days (7 months), 2002-04-01 to 2002-10-31, a run of 7 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)	33, 1970 to 2023	0.75 in to 1.75 in (median 0.88 in); 33 with a recorded value	1.75 in hail, 2014-09-06; same size also recorded on 1992-07-15, 1995-07-11, 1998-05-20, 2007-08-03		Event records naming member places: Carmel town (4 records), Brewster village (2 records), Nelsonville village (1 record).	
Excessive Heat, Heat	heat index (narratives)	10, 1999 to 2016 (10 zone-level)	1 day to 3 days (median 3 days); 9 with a recorded value	3 consecutive days, 2006-08-01 to 2006-08-03, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	2, 2008 to 2020 (2 zone-level)		Strongest recorded (records with damage, a wind speed or direct casualties first, then storm type, category and wind): Tropical Storm record, 2008-09-06 to 2008-09-07, \$4,000 property; crops not reported, reported for the zone (2008 dollars); NWS zone NYZ068 (PUTNAM), 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)	7, 1998 to 2025 (7 zone-level)		No damage reported in 7 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)	32, 1996 to 2025 (4 zone-level)		Flash Flood, 1999-09-16, \$1,900,000 property; crops not reported (1999 dollars)		Event records naming member places: Patterson town (2 records), Brewster village (1 record), Nelsonville village (1 record). Zone-level records (4) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	6, 1998 to 2008		Lightning, 2002-07-09, \$500,000 property; crops not reported (2002 dollars)		Event records naming member places: Patterson town (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	23, 1996 to 2024 (23 zone-level)	40 kt (46 mph) to 59 kt (68 mph) (median 50 kt (58 mph)); 17 with a recorded value	59 kt (68 mph) measured gust, High Wind, 2012-10-29; NWS zone NYZ068 (PUTNAM), zone-level: may include parts of neighboring counties	High Wind, 2020-04-13, \$50,000 property; \$0 crops, reported for the zone (2020 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	148, 1968 to 2024	43 kt (49 mph) to 70 kt (81 mph) (median 52 kt (60 mph)); 113 with a recorded value	70 kt (81 mph) estimated gust, Thunderstorm Wind, 2020-08-27	Thunderstorm Wind, 1997-07-09, \$30,000 property; crops not reported (1997 dollars)	Event records naming member places: Brewster village (18 records), Carmel town (17 records), Patterson town (5 records), Nelsonville village (3 records), Putnam Valley town (1 record).	
Tornado	Enhanced Fujita (F before Feb 2007)	6, 1968 to 2018	F/EF0 to F/EF2 (median between F/EF1 and F/EF2); 6 with a recorded value	F2 tornado, 1989-07-10, 0.5 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 100 yd wide, \$25,000,000 property; crops not recorded (1989 dollars), 5 direct injuries		No event record names a member place.	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Wildfire	acres burned (local data)	0					Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	106, 1996 to 2026 (106 zone-level)		No damage reported in 106 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

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

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

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

Supports B1-d: previous occurrences

Declaration rows 29 Counted incidents 18

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
2023-07-22	2023-07-09	DR-4723-NY	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$13,106,926.46	new since last plan; within last 5 years	
2021-09-05	2021-09-01	DR-4615-NY	Major disaster	REMNANTS OF HURRICANE IDA	Hurricane	\$2,369,849.61	new since last plan	
2021-09-02	2021-09-01	EM-3572-NY	Emergency	REMNANTS OF HURRICANE IDA	Hurricane	none found	new since last plan	same incident as DR-4615
2021-08-22	2021-08-21	EM-3565-NY	Emergency	HURRICANE HENRI	Hurricane	none found	new since last plan	
2020-10-02	2020-08-04	DR-4567-NY	Major disaster	TROPICAL STORM ISAIAS	Hurricane	\$1,482,171.50	during plan review, check whether your last plan included it	
2020-03-20	2020-01-20	DR-4480-NY	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$904,526.72		
2020-03-13	2020-01-20	EM-3434-NY	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4480
2012-10-30	2012-10-27	DR-4085-NY	Major disaster	HURRICANE SANDY	Hurricane	\$2,071,081.94		
2012-10-28	2012-10-27	EM-3351-NY	Emergency	HURRICANE SANDY	Hurricane	none found		same incident as DR-4085

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Notes
						<i>federal share obligated, nominal dollars</i>	Flags	
2011-08-31	2011-08-26	DR-4020-NY	Major disaster	HURRICANE IRENE	Hurricane	\$4,417,784.54		
2011-08-26	2011-08-25	EM-3328-NY	Emergency	HURRICANE IRENE	Hurricane	none found		same incident as DR-4020
2008-12-18	2008-12-11	EM-3299-NY	Emergency	SEVERE WINTER STORM	Winter Weather	\$2,750.24		
2007-04-24	2007-04-14	DR-1692-NY	Major disaster	SEVERE STORMS AND INLAND AND COASTAL FLOODING	Coastal Flooding	\$1,216,461.08		
2005-09-30	2005-08-29	EM-3262-NY	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	none found		
2005-04-19	2005-04-02	DR-1589-NY	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$148,972.20		
2004-08-03	2004-05-13	DR-1534-NY	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding: designated for Hazard Mitigation only (no Public or Individual Assistance for this county); not counted	PA not declared for this county		
2003-08-23	2003-08-14	EM-3186-NY	Emergency	POWER OUTAGE	Non-natural, not counted	\$4,454.72		
2003-03-27	2003-02-17	EM-3184-NY	Emergency	SNOW	Winter Weather	\$460,140.85		
2001-09-11	2001-09-11	DR-1391-NY	Major disaster	FIRES AND EXPLOSIONS	Non-natural, not counted	\$106,734		
2000-10-11	2000-05-22	EM-3155-NY	Emergency	WEST NILE VIRUS	Non-natural, not counted	none found		
1999-09-19	1999-09-16	DR-1296-NY	Major disaster	HURRICANE FLOYD MAJOR DISASTER DECLARATIONS	Hurricane	\$1,825,692.82		
1999-09-18	1999-09-16	EM-3149-NY	Emergency	HURRICANE FLOYD EMERGENCY DECLARATIONS	Hurricane	none found		same incident as DR-1296
1996-01-24	1996-01-19	DR-1095-NY	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	none found		
1996-01-12	1996-01-06	DR-1083-NY	Major disaster	BLIZZARD OF 96 (SEVERE SNOW STORM)	Winter Weather	none found		
1993-03-17	1993-03-13	EM-3107-NY	Emergency	SEVERE BLIZZARD	Winter Weather	none found		
1987-11-10	1987-10-04	DR-801-NY	Major disaster	SEVERE WINTER STORM	Winter Weather	none found		
1975-10-02	1975-10-02	DR-487-NY	Major disaster	STORMS, RAINS, LANDSLIDES & FLOODING	Inland Flooding (primary); also designated: Landslide	none found		
1971-09-13	1971-09-13	DR-311-NY	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1965-08-18	1965-08-18	DR-204-NY	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
1963-08-23	1963-08-23	DR-158-NY	Major disaster	HEAVY RAINS & FLOODING	Inland Flooding		
1962-03-16	1962-03-16	DR-129-NY	Major disaster	SEVERE STORM, HIGH TIDES & FLOODING	Inland Flooding (primary); also designated: Coastal Flooding		
1956-03-29	1956-03-29	DR-52-NY	Major disaster	FLOOD	Inland Flooding		
1955-08-22	1955-08-22	DR-45-NY	Major disaster	HURRICANE & FLOODS	Hurricane (primary); also designated: Inland Flooding		
1954-10-07	1954-10-07	DR-26-NY	Major disaster	HURRICANES	Hurricane (primary); also designated: Inland Flooding		

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

1 Fire Management declaration (1995-08-25 to 1995-08-25) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

SOURCE

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

Public Assistance filed under this county for declarations that do not list it: 1 row, \$0

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-1827-NY	2009-03-04	SEVERE WINTER STORM	Round Lake Hose Company No. 1, Inc.	\$0

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

SOURCES

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval records	During plan review records	Last 5 years records	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	1	0	0	0	1	0	1996 to 2026-06-30	
Cold Wave	4	0	0	0	0	0	1996 to 2026-06-30	
Drought	10	0	0	0	1	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	33	2	0	2	0	0	1955 to 2026-06-30	
Heat Wave	10	0	0	0	0	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
Hurricane	2	0	1	0	6	2	1996 to 2026-06-30	
Ice Storm	7	1	0	1	0	0	1996 to 2026-06-30	
Inland Flooding	32	9	0	9	5	1	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	0	0	0	1996 to 2026-06-30	
Strong Wind	171	25	3	24	0	0	1955 to 2026-06-30	Includes 18 High Wind records and 5 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	6	0	0	0	0	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	106	19	5	19	5	0	1996 to 2026-06-30	

SOURCES

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

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

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

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2020-08-27	Thunderstorm Wind	70 kt (81 mph) estimated gust	\$10,000 property; \$0 crops (2020 dollars)	0, 0	LAKE MAHOPAC	during plan review, check whether your last plan included it	B1-c worst recorded: Thunderstorm Wind
2018-03-01	Winter Weather		\$0 property; \$0 crops, reported for the zone (2018 dollars)	1, 0	NWS zone NYZ068 (PUTNAM), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2014-09-06	Hail	1.75 in	\$0 property; \$0 crops (2014 dollars)	0, 0	KENT CLIFFS		B1-c worst recorded: Hail

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2012-10-29	High Wind	59 kt (68 mph) measured gust	\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone NYZ068 (PUTNAM), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2008-09-06	Tropical Storm		\$4,000 property; crops not reported, reported for the zone (2008 dollars)	0, 0	NWS zone NYZ068 (PUTNAM), zone-level: may include parts of neighboring counties		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2006-08-01	Heat		damage not reported	0, 0	NWS zone NYZ068 (PUTNAM), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2004-01-15	Cold/Wind Chill		damage not reported	0, 0	NWS zone NYZ068 (PUTNAM), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2002-07-09	Lightning		\$500,000 property; crops not reported (2002 dollars)	0, 0	MAHOPAC FALLS		B1-c worst recorded: Lightning
2002-04-01	Drought		damage not reported	0, 0	NWS zone NYZ068 (PUTNAM), zone-level: may include parts of neighboring counties		B1-c worst recorded: Drought
1999-09-16	Flash Flood		\$1,900,000 property; crops not reported (1999 dollars)	0, 0	COUNTYWIDE		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1997-07-07	Thunderstorm Wind	50 kt (58 mph), measurement type not recorded	damage not reported	0, 7	CARMEL		deaths or injuries recorded
1989-07-10	Tornado	F2, 0.5 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 100 yd wide	\$25,000,000 property; crops not recorded (1989 dollars)	0, 5	location not recorded		deaths or injuries recorded

The full list is in the **XLSX** file, sheet "**B1-d Storm Events history**" (388 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	3.69	events per year at a location (modeled)	about 3.7 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	1.26	event-days per year	about 1.26 days per year	Possible	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	24	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 1.26 cold wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 2 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together. Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	1.07	event-days per year	about 1.07 days per year	Possible	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	105	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 1.07 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 2 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Earthquake	0.00132	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.132%			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	2.73	events per year	about 2.73 per year	Highly likely	FEMA annualized frequency (modeled)	103.9 (modeled)	1986 to 2023 (38 years)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Heat Wave	5.63	event-days per year	about 5.63 days per year	Likely	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	90	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 5.63 heat wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 8 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Hurricane	0.121	events per year	about 1 in 8 years	Likely	FEMA annualized frequency (modeled)	24	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.
Ice Storm	1.96	event-days per year	about 1.96 days per year	Likely	event-days in 7 of 30 years, 1996 to 2025 (23.3%)	132	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 1.96 ice storm event-days a year here (its annualized frequency over 67 years; not its event count divided by the years), but Storm Events has a record in only 7 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Inland Flooding	0.857	event-days per year	about 0.857 days per year	Likely	event-days in 14 of 30 years, 1996 to 2025 (46.7%)	24	1996 to 2023 (28 years)	see B1-f	
Landslide	0.452	events per year (modeled)	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	29.3	days per year with a strike	about 29.3 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	4.44	events per year	about 4.44 per year	Highly likely	FEMA annualized frequency (modeled)	169	1986 to 2023 (38 years)	countywide	
Tornado	0.0785	events per year	about 1 in 13 years	Possible	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.

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
Wildfire	0.000185	annual probability at a location	chance a given location in the county burns in a year: 0.0185%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)
Winter Weather	14.5	event-days per year	about 14.5 days per year	Highly likely	event-days in 29 of 30 years, 1996 to 2025 (96.7%)	276	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)

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	9	30	0.3
Hail	2.00 in+	1996 to 2025	0	30	0
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	111	30	3.7
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	2	30	0.0667
Tornado	EF0-1	1996 to 2025	1	30	0.0333
Tornado	EF2-3	1996 to 2025	1	30	0.0333
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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	7 of 24	19.2	23.6	28.3	Very Low 7, Not Applicable 17	
Coastal Flooding	3 of 24	82.2	85.7	87.3	Relatively Low 3, No Rating 21	
Cold Wave	24 of 24	30.7	41.5	52.1	Relatively Moderate 4, Relatively Low 20	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	2 of 24	73.5	78.5	83.4	Relatively Low 1, Very Low 1, No Rating 22	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	24 of 24	31.3	51.8	67.7	Relatively Low 19, Very Low 5	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Hail	24 of 24	8.0	15.6	24.0	Very Low 24	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	24 of 24	13.3	26.8	40.2	Relatively Low 21, Very Low 3	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	24 of 24	55.6	66.6	75.0	Relatively Low 24	
Ice Storm	24 of 24	37.1	70.4	85.0	Relatively Moderate 15, Relatively Low 9	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	24 of 24	5.4	33.0	69.0	Relatively Moderate 9, Relatively Low 10, Very Low 5	
Landslide	24 of 24	63.6	86.4	96.0	Relatively Moderate 1, Relatively Low 17, Very Low 6	
Lightning	24 of 24	30.7	46.6	61.0	Relatively Moderate 9, Relatively Low 15	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	24 of 24	55.3	73.1	83.8	Relatively High 1, Relatively Moderate 23	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	24 of 24	25.0	35.1	46.5	Relatively Low 20, Very Low 4	
Tsunami	0 of 24				Not Applicable 24	
Volcanic Activity	0 of 24				Not Applicable 24	
Wildfire	24 of 24	23.1	49.7	68.7	Relatively Low 1, Very Low 23	
Winter Weather	24 of 24	46.5	60.4	72.5	Relatively Moderate 23, Relatively Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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
Putnam County	County	Expired on 2026-06-08		\$2,109,706.39	0; 0	No NFIP community ID on this member's plan row. Includes \$535,237.14 for declarations not counted as hazard incidents (DR-1391-NY, DR-4480-NY, EM-3186-NY).

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
Brewster village	Village	Expired on 2026-06-08	FMA RL 0, SRL 0; any 0	\$2,600,909.81	21; 3	
Nelsonville village	Village	Expired on 2026-06-08	FMA RL 0, SRL 0; any 0	\$674,520.59	5; 2	
Carmel town	Town	Expired on 2026-06-08	FMA RL 0, SRL 0; any 6	\$4,958,913.63	21; 1	Includes \$47,731.86 for declarations not counted as hazard incidents (DR-4480-NY).
Kent town	Town	Expired on 2026-06-08	FMA RL 0, SRL 0; any 1	\$2,829,747.99	0; 0	
Patterson town	Town	Expired on 2026-06-08	FMA RL 0, SRL 0; any 0	\$526,574.99	8; 1	Includes \$31,219.70 for declarations not counted as hazard incidents (DR-4480-NY).
Philipstown town	Town	Expired on 2026-06-08	FMA RL 0, SRL 2; any 4	\$1,872,841.72	0; 0	
Putnam Valley town	Town	Expired on 2026-06-08	FMA RL 0, SRL 2; any 6	\$5,269,395.17	1; 0	Includes \$12,133.27 for declarations not counted as hazard incidents (DR-4480-NY).
Southeast town	Town	Expired on 2026-06-08	FMA RL 0, SRL 0; any 1	\$809,549.61	0; 0	

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

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

SOURCES

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

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

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

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

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

Local data required

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2021-06-09 <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	\$697,018		under 1	under \$1		\$225	under 0.0001%				
Coastal Flooding	\$346,763,534		1,072	\$27,190		\$1,023	0.00784%				
Cold Wave	\$22,826,240,869	\$4,049,339	97,640	\$158	\$540	\$1,041,532	under 0.0001%				
Drought		\$409,433			\$5,341		1.3% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$37,661,483,842		97,668	\$892,537		\$106,701	0.00237%				
Hail	\$22,826,240,869	\$4,049,339	97,640	\$7,021	\$1,632	\$9,251	under 0.0001%	\$0			
Heat Wave	\$22,826,240,869	\$4,049,339	97,640	under \$1	\$523	\$543,563	under 0.0001%				
Hurricane	\$22,825,717,953	\$4,049,339	97,638	\$1,225,675	\$20,086	\$40,271	0.00537%			\$2,369,849.61	
Ice Storm	\$22,824,792,074		97,634	\$253,927		\$74,299	0.00111%		\$0		
Inland Flooding	\$22,778,533,396	\$13,088	830	\$13,573,672	\$57	\$14,217	n/a (see note)	\$0		\$13,106,926.46	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	\$2,759,220,694		12,099	\$13,567		\$6,198	0.000492%				
Lightning	\$22,826,240,869		97,640	\$37,041		\$268,856	0.000162%				
Strong Wind	\$22,826,240,869	\$4,049,339	97,640	\$455,718	\$116	\$683,556	0.002%	\$93,000	\$0		
Tornado	\$22,826,240,869	\$4,049,339	97,640	\$664,808	\$78	\$160,154	0.00291%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$631,036,493	\$670,134	6,566	\$9,799	\$1	\$2,189	0.00155%				
Winter Weather	\$22,826,240,869	\$4,049,339	97,640	\$19,134	\$2	\$100,720	under 0.0001%		\$0		

Totals since 2021-06-09 (Storm Events through 2026-06-30): 33 county-coded records, 33 with a damage value recorded (including \$0), \$93,000; 23 zone-level records, 23 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance on counted declarations \$15,476,776.07 (4 declarations, 2 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	97,640
Building value (total, not at risk)	\$22,826,240,869
Agriculture value (total, not at risk)	\$4,049,339
NRI risk rating (all hazards)	Very Low
Expected annual loss, buildings and agriculture, all hazards	\$17,208,625
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)	\$3,052,754
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)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	4
Repetitive loss, NFIP insurance definition	25	Severe repetitive loss, NFIP insurance definition	4

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	0	4	25	4	25	0	12
CARMEL, TOWN OF	0	0	6	0	6	0	0
COLD SPRING, VILLAGE OF (community ID not in plan data)	0	0	7	0	7	0	7
KENT, TOWN OF	0	0	1	0	1	0	0
PHILIPSTOWN, TOWN OF	0	2	4	2	4	0	1
PUTNAM VALLEY, TOWN OF	0	2	6	2	6	0	4
SOUTHEAST, TOWN OF	0	0	1	0	1	0	0
State level, not in this county: county not reported	0	0	19	0	19	0	3

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 <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
Brewster village	360668	0	0	0	0	0	0	0	
Nelsonville village	361019	0	0	0	0	0	0	0	
Carmel town	360669	0	0	6	0	6	0	0	
Kent town	360671	0	0	1	0	1	0	0	
Patterson town	361023	0	0	0	0	0	0	0	
Philipstown town	361026	0	2	4	2	4	0	1	
Putnam Valley town	361030	0	2	6	2	6	0	4	
Southeast town	361041	0	0	1	0	1	0	0	

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

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

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)**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	0	4	23	4	23	0	10
2 to 4 unit residential	0	0	1	0	1	0	1
other residential	0	0	1	0	1	0	1

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>
non-residential	0	0	0	0	0	0	0
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 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 25 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_Gaz_cousubs_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_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_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_NY_36079. Preview: automated baseline.