

Northampton County, PA

Risk-assessment baseline packet

Unit **County area 42095** 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

No county-level plan row in FEMA data

What changed since your last plan

Not available. No county-level plan row in FEMA data, so there is no approval date to count from.

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: 37 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, 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 14

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

9. Supports B2-a and B2-b: assets and impacts, page 21

10. Supports B2-a: context, page 22

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 negative = days since expiry	Update underway	Notes
Bangor borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-11-13
Bath borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2025-03-10
Bethlehem city	City	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2025-01-18
Chapman borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-11-04
East Bangor borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2025-01-07
Easton city	City	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-12-11
Freemansburg borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-12-17
Glendon borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2025-02-13
Hellertown borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-10-21
Nazareth borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-10-07
North Catasauqua borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-10-21
Northampton borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2025-08-07
Pen Argyl borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-11-06
Portland borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2025-03-04

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Roseto borough	Organized Borough	Plan 109074 approved 2024-10-17, pending adoption here; not yet eligible	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074), pending adoption here	2024-10-17 by FEMA; not yet adopted here	2029-10-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Stockertown borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-12-04
Tatamy borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-11-04
Walnutport borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-12-12
West Easton borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2025-02-10
Wilson borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-10-28
Wind Gap borough	Organized Borough	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2025-01-21
Allen township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-12-10
Bethlehem township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-12-02
Bushkill township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-11-07
East Allen township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-10-24
Forks township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		
Hanover township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-10-22
Lehigh township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-11-12
Lower Mount Bethel township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-12-16
Lower Nazareth township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-10-23
Lower Saucon township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-12-18
Moore township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-11-12
Palmer township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2025-02-24
Plainfield township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-12-11
Upper Mount Bethel township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-11-25

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Upper Nazareth township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-11-06
Williams township	Township	Approved, expires 2029-10-16	Lehigh-Northampton Hazard Mitigation Plan (FEMA plan 109074)	2024-10-17	2029-10-16	1,114		member approved 2024-12-11

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	EAL agriculture	EAL population equivalence	EAL total (see note)	Storm Events records since 1996	Evidence for an omission	Storm Events coverage note
				<i>modeled dollars per year</i>	<i>modeled dollars per year</i>	<i>statistical value of life and injury, \$13.7M per life, not property damage</i>	<i>modeled dollars per year</i>	<i>count</i>	<i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	
1	Inland Flooding	Relatively High	Relatively High	\$62,871,152	\$25,990	\$84,124	\$62,981,267	137		
2	Heat Wave	Relatively Moderate	Relatively Moderate	\$2	\$91	\$5,324,101	\$5,324,195	66		
3	Hurricane	Relatively Moderate	Relatively Moderate	\$4,956,369	\$86,001	\$211,718	\$5,254,088	2		
4	Cold Wave	Relatively Moderate	Relatively High	\$432	\$484	\$4,976,868	\$4,977,784	36		Includes 3 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
5	Tornado	Relatively Moderate	Relatively Moderate	\$2,224,914	\$465	\$2,209,617	\$4,434,996	3		
6	Earthquake	Relatively Low	Relatively Low	\$2,204,483		\$615,048	\$2,819,530			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
7	Lightning	Relatively High	Relatively High	\$142,205		\$1,393,011	\$1,535,216	60		
8	Strong Wind	Relatively Moderate	Relatively Moderate	\$1,190,584	\$2,475	\$287,920	\$1,480,979	435		Includes 36 High Wind records and 87 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
9	Winter Weather	Relatively High	Very High	\$139,221	\$20	\$801,249	\$940,490	311		Includes 4 Sleet records, event types the NRI definition of this hazard leaves out.
10	Ice Storm	Relatively Moderate	Relatively Moderate	\$35,154		\$223,828	\$258,981	4		
11	Drought	Relatively Low	Relatively Low		\$228,214		\$228,214	43		
12	Hail	Very Low	Very Low	\$44,787	\$22,063	\$40,314	\$107,164	60		
13	Wildfire	Very Low	Very Low	\$11,738	\$2	\$2,061	\$13,802	19		
14	Landslide	Relatively Low	Relatively Low	\$8,760		\$2,554	\$11,314	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	under \$1		\$173	\$173	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Coastal Flooding	Not Applicable	Not Applicable					0	NRI rates coastal flooding Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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

SOURCES

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

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

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

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	11 of 74
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 74
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	74 of 74
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	44 of 74
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.	74 of 74
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	74 of 74
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	74 of 74
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.	74 of 74
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	74 of 74
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.	74 of 74
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.	74 of 74
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	74 of 74
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	74 of 74
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.	74 of 74
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 74
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 74
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.	73 of 74
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	74 of 74

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	3, 2007 to 2016 (3 zone-level)		Frost/Freeze, 2016-04-05, \$10,000 crop damage, reported for the zone (2016 dollars); NWS zone PAZ062 (NORTHAMPTON), zone-level: may include parts of neighboring counties		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	43, 1997 to 2010 (43 zone-level)	1 day to 385 days (median 21 days); 17 with a recorded value	385 days (about 12.6 months), 2001-11-06 to 2002-11-25, a run of 13 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)	69, 1975 to 2025	0.75 in to 2 in (median 1 in); 69 with a recorded value	2 in hail, 2007-08-17		Event records naming member places: Bethlehem city (10 records), Bethlehem township (10 records), Easton city (3 records), Glendon borough (3 records), Nazareth borough (3 records), Bath borough (2 records), Tatamy borough (2 records), Walnutport borough (2 records), Chapman borough (1 record), Freemansburg borough (1 record); and 1 more member place (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	66, 1996 to 2025 (66 zone-level)	1 day to 10 days (median 3 days); 43 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	2, 2011 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, 2011-08-27 to 2011-08-28, \$750,000 property; \$0 crops, reported for the zone (2011 dollars); NWS zone PAZ062 (NORTHAMPTON), 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)	4, 1996 to 2005 (4 zone-level)		No damage reported in 4 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)	137, 1996 to 2025 (10 zone-level)		Flood, 2005-04-02, \$40,000,000 property; crops not reported, reported for the zone (2005 dollars); NWS zone PAZ062 (NORTHAMPTON), zone-level: may include parts of neighboring counties		Event records naming member places: Bethlehem city (19 records), Bethlehem township (19 records), Easton city (7 records), Walnutport borough (7 records), Freemansburg borough (4 records), Glendon borough (4 records), Stockertown borough (4 records), Chapman borough (2 records), Nazareth borough (2 records), Roseto borough (2 records); and 7 more member places (see the XLSX file). Zone-level records (10) 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)	60, 1996 to 2022		Lightning, 2009-08-05, \$0 property; \$0 crops (2009 dollars), 1 direct death	Lightning, 2007-08-25, \$1,250,000 property; \$0 crops (2007 dollars)	Event records naming member places: Easton city (9 records), Bethlehem city (8 records), Bethlehem township (8 records), Bath borough (3 records), Nazareth borough (3 records), Wilson borough (3 records), Glendon borough (2 records), Wind Gap borough (2 records), Bangor borough (1 record), Hellertown borough (1 record); and 2 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)	123, 1996 to 2025 (123 zone-level)	35 kt (40 mph) to 67 kt (77 mph) (median 40 kt (46 mph)); 95 with a recorded value	67 kt (77 mph) measured gust, High Wind, 2012-10-29; NWS zone PAZ062 (NORTHAMPTON), zone-level: may include parts of neighboring counties	High Wind, 2009-02-12, \$1,250,000 property; \$0 crops, reported for the zone (2009 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	

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)	390, 1958 to 2026	30 kt (35 mph) to 87 kt (100 mph) (median 50 kt (58 mph)); 331 with a recorded value	87 kt (100 mph) estimated, Thunderstorm Wind, 2000-05-13	Thunderstorm Wind, 2007-07-10, \$1,000,000 property; \$0 crops (2007 dollars)	Event records naming member places: Bethlehem city (27 records), Bethlehem township (27 records), Easton city (20 records), Nazareth borough (17 records), Bangor borough (14 records), Hellertown borough (12 records), Bath borough (10 records), Glendon borough (7 records), Wind Gap borough (7 records), Stockertown borough (6 records); and 11 more member places (see the XLSX file).	
Tornado	Enhanced Fujita (F before Feb 2007)	13, 1973 to 2025	F/EF0 to F/EF3 (median F/EF1); 13 with a recorded value	F3 tornado, 1981-07-26, 3.3 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 (1981 dollars), 2 direct injuries	Tornado, 1983-08-11, \$25,000,000 property; crops not recorded (1983 dollars)	Event records naming member places: Bangor borough (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)	19, 2000 to 2015 (15 zone-level)		Wildfire, 2007-04-23, \$1,200,000 property; \$0 crops, reported for the zone (2007 dollars); NWS zone PAZ062 (NORTHAMPTON), zone-level: may include parts of neighboring counties		Event records naming member places: Chapman borough (1 record). Zone-level records (15) 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)	311, 1996 to 2026 (311 zone-level)		Heavy Snow, 2003-02-16, \$1,000,000 property; crops not reported, reported for the zone (2003 dollars); NWS zone PAZ062 (NORTHAMPTON), 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 24 Counted incidents 17

No county-level plan row in FEMA data, so there is no approval date to count from.

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
2021-09-10	2021-08-31	DR-4618-PA	Major disaster	REMNANTS OF HURRICANE IDA	Hurricane	PA not declared for this county		
2020-03-30	2020-01-20	DR-4506-PA	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$18,045,176.69		
2020-03-13	2020-01-20	EM-3441-PA	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4506
2018-11-27	2018-08-10	DR-4408-PA	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$601,375.91		
2016-03-23	2016-01-22	DR-4267-PA	Major disaster	SEVERE WINTER STORM AND SNOWSTORM	Winter Weather	\$1,504,905.79		
2013-01-10	2012-10-26	DR-4099-PA	Major disaster	HURRICANE SANDY	Hurricane	\$1,097,600.26		
2012-10-29	2012-10-26	EM-3356-PA	Emergency	HURRICANE SANDY	Hurricane	none found		same incident as DR-4099
2011-09-12	2011-09-03	DR-4030-PA	Major disaster	TROPICAL STORM LEE	Inland Flooding (primary); also designated: Hurricane	\$487,676.70		
2011-09-08	2011-09-03	EM-3340-PA	Emergency	REMNANTS OF TROPICAL STORM LEE	Inland Flooding (primary); also designated: Hurricane	none found		same incident as DR-4030
2011-09-03	2011-08-26	DR-4025-PA	Major disaster	HURRICANE IRENE	Hurricane	\$1,360,255.92		
2011-08-29	2011-08-26	EM-3339-PA	Emergency	HURRICANE IRENE	Hurricane	none found		same incident as DR-4025
2006-06-30	2006-06-23	DR-1649-PA	Major disaster	SEVERE STORMS, FLOODING, AND MUDSLIDES	Inland Flooding; Landslide	\$1,346,198.76		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	
						<i>federal share obligated, nominal dollars</i>	Flags Notes
2005-09-10	2005-08-29	EM-3235-PA	Emergency	HURRICANE KATRINA	Hurricane: evacuation support, not a local hazard event; not counted	none found	
2005-04-14	2005-04-02	DR-1587-PA	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$1,833,691.68	
2004-09-19	2004-09-17	DR-1557-PA	Major disaster	TROPICAL DEPRESSION IVAN	Hurricane	\$5,245,458.74	
2004-09-19	2004-09-08	DR-1555-PA	Major disaster	SEVERE STORMS AND FLOODING ASSOCIATED WITH TROPICAL DEPRESSION FRANCES	Hurricane; Inland Flooding: designated for Hazard Mitigation only (no Public or Individual Assistance for this county); not counted	PA not declared for this county	
2003-03-14	2003-02-14	EM-3180-PA	Emergency	SNOW	Winter Weather	\$458,149.67	
1996-01-21	1996-01-19	DR-1093-PA	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	none found	
1996-01-13	1996-01-06	DR-1085-PA	Major disaster	BLIZZARD OF 96	Winter Weather	none found	
1994-03-10	1994-01-04	DR-1015-PA	Major disaster	SEVERE WINTER STORMS	Winter Weather	none found	
1993-03-16	1993-03-13	EM-3105-PA	Emergency	SEVERE SNOWFALL & WINTER STORM	Winter Weather	none found	
1973-07-17	1973-07-17	DR-400-PA	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found	
1972-06-23	1972-06-23	DR-340-PA	Major disaster	TROPICAL STORM AGNES	Inland Flooding (primary); also designated: Hurricane	none found	
1965-08-18	1965-08-18	DR-206-PA	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
2003-08-23	2003-07-21	DR-1485-PA	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado		
1959-01-23	1959-01-23	DR-89-PA	Major disaster	FLOODS	Inland Flooding		
1956-08-09	1956-08-09	DR-61-PA	Major disaster	STORM	Hazard not mapped (severe storm title names no single hazard); not counted		
1956-05-21	1956-05-21	DR-58-PA	Major disaster	SEVERE STORM	Hazard not mapped (severe storm title names no single hazard); not counted		
1956-03-15	1956-03-15	DR-51-PA	Major disaster	FLOOD	Inland Flooding		
1955-08-20	1955-08-20	DR-40-PA	Major disaster	FLOODS & RAINS	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

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		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	36			1	0		1996 to 2026-06-30	Includes 3 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
Drought	43			0	1		1996 to 2026-06-30	
Earthquake	0			0	0			No Storm Events record; local data required (e.g., USGS).
Hail	69			12	0		1955 to 2026-06-30	
Heat Wave	66			1	0		1996 to 2026-06-30	
Hurricane	2			0	6		1996 to 2026-06-30	
Ice Storm	4			0	0		1996 to 2026-06-30	
Inland Flooding	137			18	7		1996 to 2026-06-30	
Landslide	0			0	1		1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Lightning	60			1	0		1996 to 2026-06-30	
Strong Wind	513			46	0		1955 to 2026-06-30	Includes 36 High Wind records and 87 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	13			2	0		1950 to 2026-06-30	
Tsunami	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		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	19			0	0		1996 to 2026-06-30	
Winter Weather	311			37	5		1996 to 2026-06-30	Includes 4 Sleet records, event types the NRI definition of this hazard leaves out.

SOURCESNOAA 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
2016-04-05	Frost/Freeze		property not reported; \$10,000 crops, reported for the zone (2016 dollars)	0, 0	NWS zone PAZ062 (NORTHAMPTON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Frost/Freeze (outside NRI Cold Wave definition)
2012-10-29	High Wind	67 kt (77 mph) measured gust	\$1,000,000 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone PAZ062 (NORTHAMPTON), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2011-08-27	Tropical Storm		\$750,000 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone PAZ062 (NORTHAMPTON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2009-08-05	Lightning		\$0 property; \$0 crops (2009 dollars)	1, 0	FARMERSVILLE		deaths or injuries recorded
2007-02-13	Winter Storm		\$0 property; \$0 crops, reported for the zone (2007 dollars)	1, 0	NWS zone PAZ062 (NORTHAMPTON), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2005-04-02	Flood		\$40,000,000 property; crops not reported, reported for the zone (2005 dollars)	0, 0	NWS zone PAZ062 (NORTHAMPTON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2005-01-23	Cold/Wind Chill		damage not reported	1, 0	NWS zone PAZ062 (NORTHAMPTON), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2003-02-16	Heavy Snow		\$1,000,000 property; crops not reported, reported for the zone (2003 dollars)	0, 0	NWS zone PAZ062 (NORTHAMPTON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2003-01-14	Cold/Wind Chill		damage not reported	0, 0	NWS zone PAZ062 (NORTHAMPTON), 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 PAZ062 (NORTHAMPTON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2000-05-13	Thunderstorm Wind	87 kt (100 mph) estimated	\$500,000 property; crops not reported (2000 dollars)	0, 0	BETHLEHEM		B1-c worst recorded: Thunderstorm Wind
1981-07-26	Tornado	F3, 3.3 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 (1981 dollars)	0, 2	location not recorded		B1-c worst recorded: Tornado

The full list is in the **XLSX** file, sheet "B1-d Storm Events history" (1,273 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.

FEMA's declaration data list no tribal or special-area declarations for this state.

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	1	event-days per year	about 1 days per year	Likely	event-days in 13 of 30 years, 1996 to 2025 (43.3%)	19	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 1 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 13 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	1.86	event-days per year	about 1.86 days per year	Likely	event-days in 10 of 30 years, 1996 to 2025 (33.3%)	56	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 1.86 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 10 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	0.00134	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.134%			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	2.57	events per year	about 2.57 per year	Highly likely	FEMA annualized frequency (modeled)	97.6 (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	5.95	event-days per year	about 5.95 days per year	Likely	event-days in 21 of 30 years, 1996 to 2025 (70%)	89	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0557	events per year	about 1 in 18 years	Possible	FEMA annualized frequency (modeled)	18	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	1.67	event-days per year	about 1.67 days per year	Likely	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	112	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 1.67 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 4 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	3.32	event-days per year	about 3.32 days per year	Highly likely	event-days in 27 of 30 years, 1996 to 2025 (90%)	93	1996 to 2023 (28 years)	see B1-f	
Landslide	0.242	events per year (modeled)	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	34.6	days per year with a strike	about 34.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	6.13	events per year	about 6.13 per year	Highly likely	FEMA annualized frequency (modeled)	233	1986 to 2023 (38 years)	countywide	
Tornado	0.169	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.

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	0.0000445	annual probability at a location	chance a given location in the county burns in a year: 0.00445%	Likely	Storm Events records in 9 of 30 years, 1996 to 2025 (30%)	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	14.2	event-days per year	about 14.2 days per year	Highly likely	event-days in 30 of 30 years, 1996 to 2025 (100%)	270	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	30	30	1
Hail	2.00 in+	1996 to 2025	1	30	0.0333
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	298	30	9.93
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	2	30	0.0667
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	9	30	0.3
Tornado	EF0-1	1996 to 2025	2	30	0.0667
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	11 of 74	17.5	21.9	25.4	Very Low 11, Not Applicable 63	
Coastal Flooding	0 of 74				Not Applicable 74	
Cold Wave	74 of 74	33.2	53.7	78.2	Relatively High 1, Relatively Moderate 58, 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.
Drought	44 of 74	67.3	81.5	91.9	Relatively Low 25, Very Low 19, No Rating 30	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	74 of 74	30.6	50.3	80.3	Relatively Moderate 1, Relatively Low 53, Very Low 20	
Hail	74 of 74	13.3	23.3	39.8	Relatively Low 2, Very Low 72	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.

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Heat Wave	74 of 74	34.9	66.3	89.2	Relatively High 4, Relatively Moderate 59, Relatively Low 11	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	74 of 74	57.5	71.6	83.2	Relatively Moderate 8, Relatively Low 66	
Ice Storm	74 of 74	18.5	38.2	64.9	Relatively Low 49, Very Low 25	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	74 of 74	12.8	61.9	96.3	Very High 1, Relatively High 17, Relatively Moderate 29, Relatively Low 25, Very Low 2	
Landslide	74 of 74	21.0	59.2	95.4	Relatively Low 16, Very Low 58	
Lightning	74 of 74	37.2	64.5	91.2	Relatively High 15, Relatively Moderate 53, Relatively Low 6	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	74 of 74	29.1	51.1	79.6	Relatively Moderate 30, Relatively Low 44	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	74 of 74	31.7	46.0	67.3	Relatively Moderate 15, Relatively Low 59	
Tsunami	0 of 74				Not Applicable 74	
Volcanic Activity	0 of 74				Not Applicable 74	
Wildfire	73 of 74	18.5	39.4	66.7	Very Low 73, No Rating 1	
Winter Weather	74 of 74	63.2	83.9	95.9	Very High 1, Relatively High 59, Relatively Moderate 14	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	Public Assistance matched	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>federal share obligated, nominal dollars</i>	<i>all years; since the member's plan</i>	
Bangor borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 3, SRL 2; any 10	\$36,416.20	17; 1	
Bath borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 1	\$191,036.38	16; 0	

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
Bethlehem city	City	Approved, expires 2029-10-16	FMA RL 2, SRL 7; any 19	\$1,344,782.24	64; 1	Whole community, including the part in Lehigh County; in-county portion (county table): FMA RL 2, FMA SRL 6, NFIP RL 15, NFIP SRL 6, any category 15.
Chapman borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	none found	5; 0	
East Bangor borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$149,593.67	5; 0	
Easton city	City	Approved, expires 2029-10-16	FMA RL 6, SRL 11; any 45	\$2,751,260.52	39; 3	
Freemansburg borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 1; any 4	\$90,469.93	9; 1	
Glendon borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$11,872.09	16; 0	
Hellertown borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 3	\$1,183,595.59	13; 2	Includes \$12,452.09 for declarations not counted as hazard incidents (DR-4506-PA).
Nazareth borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$137,739.15	25; 2	
North Catasauqua borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$55,565.01	0; 0	
Northampton borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 3	\$60,533.93	6; 0	
Pen Argyl borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$39,856.31	6; 0	
Portland borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 1, SRL 1; any 3	\$42,173.69	3; 0	
Roseto borough	Organized Borough	Plan 109074 approved 2024-10-17, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$27,263.23	3; no approved plan	
Stockertown borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 1	\$7,100.56	10; 0	
Tatamy borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$76,922.07	7; 0	
Walnutport borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$353,869.42	13; 0	
West Easton borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 4	\$9,220.94	4; 0	
Wilson borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$60,950.35	4; 0	Includes \$8,636.81 for declarations not counted as hazard incidents (DR-4506-PA).

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
Wind Gap borough	Organized Borough	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$15,640.77	10; 0	
Allen township	Township	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 1	\$24,962.46	0; 0	
Bethlehem township	Township	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 5	\$577,652.27	64; 1	Includes \$3,733.04 for declarations not counted as hazard incidents (DR-4506-PA).
Bushkill township	Township	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$109,199.14	0; 0	
East Allen township	Township	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$100,680.88	0; 0	
Forks township	Township	Approved, expires 2029-10-16	FMA RL 18, SRL 15; any 42	\$131,324.29	0; 0	
Hanover township	Township	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$122,012.61	0; 0	Includes \$4,894.14 for declarations not counted as hazard incidents (DR-4506-PA).
Lehigh township	Township	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 2	none found	0; 0	
Lower Mount Bethel township	Township	Approved, expires 2029-10-16	FMA RL 26, SRL 18; any 61	\$1,063,491.11	0; 0	
Lower Nazareth township	Township	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 1	\$45,845.76	0; 0	
Lower Saucon township	Township	Approved, expires 2029-10-16	FMA RL 0, SRL 1; any 4	\$357,404.54	0; 0	Includes \$24,018.34 for declarations not counted as hazard incidents (DR-4506-PA).
Moore township	Township	Approved, expires 2029-10-16	FMA RL 0, SRL 1; any 2	\$100,350.64	0; 0	Includes \$6,517.12 for declarations not counted as hazard incidents (DR-4506-PA).
Palmer township	Township	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 2	\$289,372.90	0; 0	Includes \$26,888.72 for declarations not counted as hazard incidents (DR-4506-PA).
Plainfield township	Township	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 0	\$40,488.79	0; 0	Includes \$10,224.61 for declarations not counted as hazard incidents (DR-4506-PA).
Upper Mount Bethel township	Township	Approved, expires 2029-10-16	FMA RL 17, SRL 11; any 33	\$1,444,705.06	0; 0	
Upper Nazareth township	Township	Approved, expires 2029-10-16	FMA RL 0, SRL 0; any 1	\$68,206.12	0; 0	
Williams township	Township	Approved, expires 2029-10-16	FMA RL 12, SRL 9; any 28	\$305,700.36	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.

No county-level plan row in FEMA data, so there is no approval date to count from.

- 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 plan <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	\$870,724		under 1	under \$1		\$173	under 0.0001%				
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$65,838,026,282	\$46,433,035	312,822	\$432	\$484	\$4,976,868	under 0.0001%				
Drought		\$25,656,803			\$228,214		0.889% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$114,687,317,349		312,951	\$2,204,483		\$615,048	0.00192%				
Hail	\$65,838,026,282	\$46,433,035	312,822	\$44,787	\$22,063	\$40,314	under 0.0001%				
Heat Wave	\$65,838,026,282	\$46,433,035	312,822	\$2	\$91	\$5,324,101	under 0.0001%				
Hurricane	\$65,831,900,012	\$46,428,009	312,758	\$4,956,369	\$86,001	\$211,718	0.00753%				
Ice Storm	\$65,817,789,501		312,646	\$35,154		\$223,828	under 0.0001%				
Inland Flooding	\$65,788,941,347	\$822,345	4,972	\$62,871,152	\$25,990	\$84,124	n/a (see note)				NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. EAL as % of exposure: n/a.
Landslide	\$1,781,277,096		9,188	\$8,760		\$2,554	0.000492%				
Lightning	\$65,838,026,282		312,822	\$142,205		\$1,393,011	0.000216%				

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 plan <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
Strong Wind	\$65,838,026,282	\$46,433,035	312,822	\$1,190,584	\$2,475	\$287,920	0.00181%				
Tornado	\$65,838,026,282	\$46,433,035	312,822	\$2,224,914	\$465	\$2,209,617	0.00338%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$7,186,723,540	\$5,475,960	39,588	\$11,738	\$2	\$2,061	0.000163%				
Winter Weather	\$65,838,026,282	\$46,433,035	312,822	\$139,221	\$20	\$801,249	0.000211%				

Totals since the plan: not available. No county-level plan row in FEMA data, so there is no approval date to count from.

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	312,822
Building value (total, not at risk)	\$65,838,026,282
Agriculture value (total, not at risk)	\$46,433,035
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$74,195,606
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)	\$16,172,588
Social vulnerability rating	Relatively Low

Measure	Value
Community resilience rating	Relatively 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)	85	Severe repetitive loss, FMA definition (44 CFR 77.2)	76
Repetitive loss, NFIP insurance definition	244	Severe repetitive loss, NFIP insurance definition	55

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	85	76	244	55	272	26	101
BANGOR, BOROUGH OF	3	2	9	1	10	1	3
BATH, BOROUGH OF	0	0	1	0	1	0	0
BETHLEHEM, CITY OF	2	6	15	6	15	0	8
FREEMANSBURG, BOROUGH OF	0	1	4	1	4	0	2
HELLERTOWN, BOROUGH OF	0	0	3	0	3	0	2
LOWER MOUNT BETHEL, TOWNSHIP OF	26	18	52	13	61	8	19
NORTHAMPTON, BOROUGH OF	0	0	3	0	3	0	3
PALMER, TOWNSHIP OF	0	0	2	0	2	0	0
PORTLAND, BOROUGH OF	1	1	2	0	3	1	0
STOCKERTOWN, BOROUGH OF	0	0	1	0	1	0	0
WEST EASTON, BOROUGH OF	0	0	4	0	4	0	2
BETHLEHEM, TOWNSHIP OF	0	0	5	0	5	0	3
LOWER SAUCON, TOWNSHIP OF	0	1	4	1	4	0	0
MOORE, TOWNSHIP OF	0	1	2	1	2	0	2
WILLIAMS, TOWNSHIP OF	12	9	23	4	28	5	11

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>
WASHINGTON, TOWNSHIP OF (community ID not in plan data)	0	0	1	0	1	0	0
ALLEN, TOWNSHIP OF	0	0	1	0	1	0	0
FORKS, TOWNSHIP OF	18	15	35	11	42	6	24
LEHIGH, TOWNSHIP OF	0	0	2	0	2	0	0
UPPER MT. BETHEL, TOWNSHIP OF	17	11	29	8	33	4	9
UPPER NAZARETH, TOWNSHIP OF	0	0	1	0	1	0	0
LOWER NAZARETH, TOWNSHIP OF	0	0	1	0	1	0	1
EASTON, CITY OF	6	11	44	9	45	1	12
State level, not in this county: county not reported	0	0	1	0	1	0	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 <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
Bangor borough	420716	3	2	9	1	10	1	3	
Bath borough	420717	0	0	1	0	1	0	0	
Bethlehem city	420718	2	7	19	7	19	0	9	Whole community, including the part in Lehigh County; in-county portion (county table): FMA RL 2, FMA SRL 6, NFIP RL 15, NFIP SRL 6, any category 15.
Chapman borough	422251	0	0	0	0	0	0	0	
East Bangor borough	422252	0	0	0	0	0	0	0	
Easton city	425383	6	11	44	9	45	1	12	
Freemansburg borough	420721	0	1	4	1	4	0	2	
Glendon borough	422254	0	0	0	0	0	0	0	
Hellertown borough	420723	0	0	3	0	3	0	2	
Nazareth borough	420725	0	0	0	0	0	0	0	
North Catasauqua borough	420727	0	0	0	0	0	0	0	
Northampton borough	420726	0	0	3	0	3	0	3	
Pen Argyl borough	421926	0	0	0	0	0	0	0	
Portland borough	420729	1	1	2	0	3	1	0	
Roseto borough	422255	0	0	0	0	0	0	0	
Stockertown borough	420730	0	0	1	0	1	0	0	
Tatamy borough	420731	0	0	0	0	0	0	0	
Walnutport borough	420732	0	0	0	0	0	0	0	

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
West Easton borough	420733	0	0	4	0	4	0	2	
Wilson borough	421927	0	0	0	0	0	0	0	
Wind Gap borough	420734	0	0	0	0	0	0	0	
Allen township	421928	0	0	1	0	1	0	0	
Bethlehem township	420980	0	0	5	0	5	0	3	
Bushkill township	421929	0	0	0	0	0	0	0	
East Allen township	420981	0	0	0	0	0	0	0	
Forks township	421930	18	15	35	11	42	6	24	
Hanover township	420722	0	0	0	0	0	0	0	
Lehigh township	421931	0	0	2	0	2	0	0	
Lower Mount Bethel township	420724	26	18	52	13	61	8	19	
Lower Nazareth township	422253	0	0	1	0	1	0	1	
Lower Saucon township	420982	0	1	4	1	4	0	0	
Moore township	420983	0	1	2	1	2	0	2	
Palmer township	420728	0	0	2	0	2	0	0	
Plainfield township	421147	0	0	0	0	0	0	0	
Upper Mount Bethel township	421933	17	11	29	8	33	4	9	
Upper Nazareth township	421934	0	0	1	0	1	0	0	
Williams township	421036	12	9	23	4	28	5	11	

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 properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties
single-family residential	81	60	187	41	214	26	82
2 to 4 unit residential	1	3	13	3	13	0	3
other residential	0	2	7	1	7	0	2
non-residential	3	11	37	10	38	0	14

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>
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 26 properties are FMA repetitive loss but not NFIP repetitive loss, and 185 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-28, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

OpenFEMA disclaimer

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

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

Reuse, citation and corrections

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

Cite this: Hazard Plain (2026). Northampton County, PA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 42095). Preview: automated baseline. Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_PA_42095. Preview: automated baseline.