

Perry County, PA

Risk-assessment baseline packet

Unit **County area 42099** 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.

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Plan clock

Status	Approved, expires 2030-08-12	Plan	Perry County Hazard Mitigation Plan (FEMA plan 109090)
Approved	2025-08-13	Expires	2030-08-12
As of	2026-09-28	Days	1,414 days to expiry

What changed since your last plan (approved 2025-08-13)

New federal declarations	none (0 declaration rows; 0 counted incidents)	Storm Events records since approval	10 (data through 2026-06-30)
Repetitive loss now	FMA RL 7, SRL 9 (44 CFR 77.2); any definition: 107	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: 31 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.

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

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Perry County	County	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-08-11
Blain borough	Organized Borough	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-11-13
Bloomfield borough	Organized Borough	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-09-02
Duncannon borough	Organized Borough	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-11-18
Landisburg borough	Organized Borough	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-11-10
Liverpool borough	Organized Borough	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-10-15
Marysville borough	Organized Borough	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-10-22
Millerstown borough	Organized Borough	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-09-08
New Buffalo borough	Organized Borough	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-10-13
Newport borough	Organized Borough	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-09-02
Buffalo township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-08-18
Carroll township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-09-09
Centre township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-09-02
Greenwood township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-10-15
Howe township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-09-04

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Jackson township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-08-28
Juniata township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-09-10
Liverpool township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-10-06
Miller township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-08-26
Northeast Madison township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-11-04
Oliver township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-10-29
Penn township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-08-26
Rye township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-08-26
Saville township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-09-02
Southwest Madison township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-10-27
Spring township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-10-06
Toboyne township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-11-10
Tuscarora township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-08-14
Tyrone township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-09-02
Watts township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-09-03
Wheatfield township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,414		member approved 2025-11-03

SOURCE

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

Supports B1-a: hazards

Hazards NRI does not cover: check locally

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

- land subsidence and sinkholes

- expansive soils

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

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Relatively Low	Relatively Low	\$12,563,557	\$101,283	\$712,097	\$13,376,937	41		
2	Hurricane	Relatively Low	Relatively Low	\$713,469	\$455,888	\$33,821	\$1,203,178	1		
3	Heat Wave	Relatively Low	Relatively Low	under \$1	\$865	\$1,173,155	\$1,174,021	9		
4	Strong Wind	Relatively Moderate	Relatively Moderate	\$63,068	\$49,262	\$1,027,500	\$1,139,830	211		Includes 18 High Wind records and 2 Strong Wind records, event types the NRI definition of this hazard leaves out.
5	Tornado	Relatively Low	Relatively Low	\$258,683	\$2,768	\$320,328	\$581,779	3		
6	Cold Wave	Very Low	Relatively Low	\$121	\$24,938	\$178,049	\$203,108	4		
7	Winter Weather	Relatively Moderate	Relatively Moderate	\$10,026	\$24	\$178,505	\$188,555	59		
8	Earthquake	Very Low	Very Low	\$120,279		\$26,679	\$146,959			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
9	Lightning	Relatively Low	Relatively Low	\$4,618		\$127,000	\$131,618	1		
10	Landslide	Relatively Low	Relatively Low	\$13,865		\$14,320	\$28,184	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.
11	Wildfire	Very Low	Very Low	\$7,977	\$55	\$3,094	\$11,127	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.
12	Hail	Very Low	Very Low	\$1,618	\$5,959	\$159	\$7,736	28		
13	Ice Storm	Very Low	Very Low	\$3,424		\$3,673	\$7,098	5		
14	Drought	Very Low	Very Low		\$332		\$332	4		
15	Avalanche	Very Low	Very Low	\$0		\$304	\$304	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).

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
	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.	9 of 10
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 10
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	10 of 10
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	1 of 10
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.	10 of 10
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	10 of 10
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	10 of 10
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.	10 of 10
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	10 of 10
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.	10 of 10
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.	10 of 10
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	10 of 10
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	10 of 10
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.	10 of 10
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 10

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
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 10
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.	10 of 10
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	10 of 10

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.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	4, 2007 to 2025 (4 zone-level)	2 days; 3 with a recorded value	2 consecutive days, 2025-01-21 to 2025-01-22, 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.
Drought	US Drought Monitor D-scale	4, 1997 to 1999 (4 zone-level)	1 day to 62 days (median 1 day); 3 with a recorded value	62 days (2 months), 1999-07-01 to 1999-08-31, a run of 2 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)	34, 1985 to 2025	0.75 in to 1.75 in (median 1 in); 34 with a recorded value	1.75 in hail, 2003-07-22; same size also recorded on 1986-08-05, 1999-07-30, 2000-05-10, 2002-08-02, 2003-07-22	Hail, 2003-07-22, \$15,000 property; crops not reported (2003 dollars)	Event records naming member places: Duncannon borough (9 records), Marysville borough (3 records), Millerstown borough (2 records), New Buffalo borough (2 records), Landisburg borough (1 record), Newport borough (1 record).	
Excessive Heat, Heat	heat index (narratives)	9, 1999 to 2025 (9 zone-level)	1 day to 4 days (median 1 day); 8 with a recorded value	4 consecutive days, 2006-07-31 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.

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	1, 2003 to 2003 (1 zone-level)		Strongest recorded (records with damage, a wind speed or direct casualties first, then storm type, category and wind): Tropical Storm record, 2003-09-18 to 2003-09-19, damage not reported; NWS zone PAZ056 (PERRY), 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)	5, 1998 to 2008 (5 zone-level)		No damage reported in 5 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)	41, 1996 to 2025 (11 zone-level)		Flash Flood, 2009-05-28, \$50,000 property; \$0 crops (2009 dollars)		Event records naming member places: Blain borough (5 records), Duncannon borough (5 records), Liverpool borough (2 records), Liverpool township (2 records), Landisburg borough (1 record), Millerstown borough (1 record), Saville township (1 record). Zone-level records (11) 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)	1, 2025 to 2025		Lightning, 2025-04-29, \$20,000 property; \$0 crops (2025 dollars)		No event record names a member place.	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)	20, 1999 to 2025 (20 zone-level)	35 kt (40 mph) to 60 kt (69 mph) (median 52 kt (60 mph)); 17 with a recorded value	60 kt (69 mph) estimated gust, High Wind, 2003-11-13, 2 direct deaths (reported for the zone); same speed and measurement basis also recorded on 2003-02-23; NWS zone PAZ056 (PERRY), zone-level: may include parts of neighboring counties	High Wind, 2002-03-21, \$25,000 property; crops not reported, reported for the zone (2002 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)	222, 1963 to 2026	43 kt (49 mph) to 83 kt (96 mph) (median 51 kt (59 mph)); 181 with a recorded value	83 kt (96 mph) estimated gust, Thunderstorm Wind, 2023-07-10; same speed and measurement basis also recorded on 2014-07-08	Thunderstorm Wind, 2025-06-09, \$40,000 property; \$0 crops (2025 dollars)	Event records naming member places: Newport borough (35 records), Liverpool borough (18 records), Liverpool township (18 records), Duncannon borough (13 records), Millerstown borough (12 records), Blain borough (9 records), Marysville borough (8 records), Landisburg borough (6 records), New Buffalo borough (5 records), Saville township (2 records).	
Tornado	Enhanced Fujita (F before Feb 2007)	6, 1967 to 2019	F/EF1 to F/EF2 (median F/EF1); 6 with a recorded value	F2 tornado, 1989-06-20, 2 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 23 yd wide, \$25,000 property; crops not recorded (1989 dollars), 1 direct injury	Tornado, 1967-09-21, \$250,000 property; crops not recorded (1967 dollars)	Event records naming member places: Marysville borough (1 record), New Buffalo borough (1 record), Newport 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)	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)	59, 1996 to 2026 (59 zone-level)		Heavy Snow, 2001-03-04, \$4,000 property; crops not reported, reported for the zone (2001 dollars); NWS zone PAZ056 (PERRY), 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.

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

20

Counted incidents

15

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
2020-03-30	2020-01-20	DR-4506-PA	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$79,169.45		
2020-03-13	2020-01-20	EM-3441-PA	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4506
2016-03-23	2016-01-22	DR-4267-PA	Major disaster	SEVERE WINTER STORM AND SNOWSTORM	Winter Weather	\$223,002.92		
2012-10-29	2012-10-26	EM-3356-PA	Emergency	HURRICANE SANDY	Hurricane	none found		
2011-09-12	2011-09-03	DR-4030-PA	Major disaster	TROPICAL STORM LEE	Inland Flooding (primary); also designated: Hurricane	\$125,922.04		
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
2010-04-16	2010-02-05	DR-1898-PA	Major disaster	SEVERE WINTER STORMS AND SNOWSTORMS	Winter Weather	\$152,018.09		
2006-06-30	2006-06-23	DR-1649-PA	Major disaster	SEVERE STORMS, FLOODING, AND MUDSLIDES	Inland Flooding; Landslide	\$115,544.92		
2005-09-10	2005-08-29	EM-3235-PA	Emergency	HURRICANE KATRINA	Hurricane: evacuation support, not a local hazard event; not counted	none found		
2004-09-19	2004-09-17	DR-1557-PA	Major disaster	TROPICAL DEPRESSION IVAN	Hurricane	\$290,628.38		
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	\$119,267.98		
1996-09-13	1996-09-06	DR-1138-PA	Major disaster	FLOODING ASSOCIATED WITH TROPICAL DEPRESSION FRAN	Inland Flooding (primary); also designated: Hurricane	none found		
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		
1976-10-20	1976-10-20	DR-523-PA	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1975-09-26	1975-09-26	DR-485-PA	Major disaster	SEVERE STORMS, HEAVY RAINS & 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		

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

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, \$3,091.21

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-4099-PA	2013-01-10	HURRICANE SANDY	Susquehanna, Township of (Perry County)	\$3,091.21

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 <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
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events

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
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	4	0	1	1	0	0	1996 to 2026-06-30	
Drought	4	0	0	0	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	34	0	1	2	0	0	1955 to 2026-06-30	
Heat Wave	9	0	3	3	0	0	1996 to 2026-06-30	
Hurricane	1	0	0	0	5	0	1996 to 2026-06-30	
Ice Storm	5	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	41	0	2	2	7	0	1996 to 2026-06-30	
Landslide	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Lightning	1	0	1	1	0	0	1996 to 2026-06-30	
Strong Wind	242	7	5	33	0	0	1955 to 2026-06-30	Includes 18 High Wind records and 2 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	59	3	1	8	6	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
2025-04-29	Lightning		\$20,000 property; \$0 crops (2025 dollars)	0, 0	REWARD	during plan review, check whether your last plan included it; within last 5 years	B1-c worst recorded: Lightning
2025-01-21	Cold/Wind Chill		\$0 property; \$0 crops, reported for the zone (2025 dollars)	0, 0	NWS zone PAZ056 (PERRY), zone-level: may include parts of neighboring counties	during plan review, check whether your last plan included it; within last 5 years	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2023-07-10	Thunderstorm Wind	83 kt (96 mph) estimated gust	\$0 property; \$0 crops (2023 dollars)	0, 0	LIVERPOOL	within last 5 years	B1-c worst recorded: Thunderstorm Wind
2009-05-28	Flash Flood		\$50,000 property; \$0 crops (2009 dollars)	0, 0	BLAIN to LOYSVILLE		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2006-07-31	Heat		damage not reported	0, 0	NWS zone PAZ056 (PERRY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2003-11-13	High Wind	60 kt (69 mph) estimated gust	damage not reported	2, 0	NWS zone PAZ056 (PERRY), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2003-09-18	Tropical Storm		damage not reported	0, 0	NWS zone PAZ056 (PERRY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2003-07-22	Hail	1.75 in	damage not reported	0, 0	MONTGOMERY FERRY		B1-c worst recorded: Hail
2001-03-04	Heavy Snow		\$4,000 property; crops not reported, reported for the zone (2001 dollars)	0, 0	NWS zone PAZ056 (PERRY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
1999-07-05	Heat		damage not reported	2, 0	NWS zone PAZ056 (PERRY), zone-level: may include parts of neighboring counties		deaths or injuries recorded
1996-09-06	Flash Flood		damage not reported	1, 0	COUNTYWIDE		deaths or injuries recorded
1989-06-20	Tornado	F2, 2 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 23 yd wide	\$25,000 property; crops not recorded (1989 dollars)	0, 1	location not recorded		B1-c worst recorded: Tornado

The full list is in the **XLSX** file, sheet "**B1-d Storm Events history**" (406 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>

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	1.21	event-days per year	about 1.21 days per year	Likely	event-days in 3 of 30 years, 1996 to 2025 (10%)	23	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 1.21 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 3 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	0.0138	event-days per year	about 0.0138 days per year	Likely	event-days in 3 of 30 years, 1996 to 2025 (10%)	7	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000731	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0731%			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	2.07	events per year	about 2.07 per year	Highly likely	FEMA annualized frequency (modeled)	78.7 (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	4.32	event-days per year	about 4.32 days per year	Likely	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	63	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 4.32 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 5 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	0.0658	events per year	about 1 in 15 years	Possible	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	0.421	event-days per year	about 0.421 days per year	Likely	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	29	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.18	event-days per year	about 1.18 days per year	Likely	event-days in 17 of 30 years, 1996 to 2025 (56.7%)	33	1996 to 2023 (28 years)	see B1-f	
Landslide	0.928	events per year (modeled)	about 0.93 per year	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	35.1	days per year with a strike	about 35.1 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	4.35	events per year	about 4.35 per year	Highly likely	FEMA annualized frequency (modeled)	166	1986 to 2023 (38 years)	countywide	
Tornado	0.261	events per year	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
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	0.000108	annual probability at a location	chance a given location in the county burns in a year: 0.0108%		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	12.2	event-days per year	about 12.2 days per year	Likely	event-days in 25 of 30 years, 1996 to 2025 (83.3%)	232	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	22	30	0.733
Hail	2.00 in+	1996 to 2025	0	30	0
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	167	30	5.57
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	5	30	0.167
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	12	30	0.4
Tornado	EF0-1	1996 to 2025	3	30	0.1
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	9 of 10	25.8	29.4	32.7	Very Low 9, Not Applicable 1	
Coastal Flooding	0 of 10				Not Applicable 10	
Cold Wave	10 of 10	28.1	32.5	36.7	Relatively Low 10	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	1 of 10	75.4	75.4	75.4	Very Low 1, No Rating 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. 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	10 of 10	29.0	36.8	42.3	Relatively Low 1, Very Low 9	

Hazard	Tracts rated of all	Risk score min	Median	Max	Tracts by rating	Note
		NRI score, 0 to 100				
Hail	10 of 10	7.3	19.8	24.0	Very Low 10	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 77% 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.
Heat Wave	10 of 10	76.2	84.2	88.3	Relatively High 5, Relatively Moderate 5	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	10 of 10	72.3	80.6	82.6	Relatively Moderate 6, Relatively Low 4	
Ice Storm	10 of 10	3.7	8.9	13.6	Very Low 10	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	10 of 10	77.3	87.1	93.9	Relatively High 8, Relatively Moderate 2	
Landslide	10 of 10	92.7	95.0	96.8	Relatively Moderate 4, Relatively Low 6	
Lightning	10 of 10	45.7	56.4	64.2	Relatively Moderate 7, Relatively 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.
Strong Wind	10 of 10	87.7	93.0	95.7	Relatively High 10	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	10 of 10	42.2	50.0	55.2	Relatively Moderate 2, Relatively Low 8	
Tsunami	0 of 10				Not Applicable 10	
Volcanic Activity	0 of 10				Not Applicable 10	
Wildfire	10 of 10	55.9	69.0	73.1	Relatively Low 6, Very Low 4	
Winter Weather	10 of 10	88.2	92.8	95.0	Relatively High 10	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
Perry County	County	Approved, expires 2030-08-12		\$99,692.31	0; 0	No NFIP community ID on this member's plan row. Includes \$66,131.46 for declarations not counted as hazard incidents (DR-4506-PA).
Blain borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$24,068.81	14; 0	
Bloomfield borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	none found	0; 0	
Duncannon borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 2; any 39	\$131,166.77	27; 1	
Landisburg borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	none found	8; 0	
Liverpool borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$1,658.02	20; 0	
Marysville borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 4; any 12	\$61,897.19	12; 1	
Millerstown borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 1	\$8,933.92	15; 0	
New Buffalo borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$7,597.50	8; 0	
Newport borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 1, SRL 0; any 7	\$29,282.04	37; 0	
Buffalo township	Township	Approved, expires 2030-08-12	FMA RL 2, SRL 0; any 3	\$34,176.62	0; 0	
Carroll township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 6	\$58,009.63	0; 0	
Centre township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$19,983.14	0; 0	
Greenwood township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 1	\$15,675.50	0; 0	
Howe township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 2	\$6,622.56	0; 0	
Jackson township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$167,744.75	0; 0	
Juniata township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 1	\$9,108.62	0; 0	
Liverpool township	Township	Approved, expires 2030-08-12	FMA RL 2, SRL 1; any 6	\$11,316.09	20; 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
Miller township	Township	Approved, expires 2030-08-12	FMA RL 1, SRL 1; any 3	\$10,302.39	0; 0	
Northeast Madison township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$4,640.05	0; 0	
Oliver township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 1	\$26,901.74	0; 0	
Penn township	Township	Approved, expires 2030-08-12	FMA RL 1, SRL 1; any 5	\$42,065.75	0; 0	
Rye township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 1	\$92,613.99	0; 0	
Saville township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 3	\$15,733.65	3; 0	
Southwest Madison township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$28,412.38	0; 0	
Spring township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 1	\$14,280.03	0; 0	
Toboyne township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$2,945	0; 0	
Tuscarora township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$9,551.12	0; 0	
Tyrone township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 3	\$9,049.18	0; 0	
Watts township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 4	\$9,913.92	0; 0	
Wheatfield township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 8	\$17,790.77	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 2025-08-13 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche	\$0		under 1	\$0		\$304					building exposure is 0 in NRI
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$9,276,420,187	\$222,434,226	45,809	\$121	\$24,938	\$178,049	under 0.0001%				
Drought		\$48,019			\$332		0.692% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$15,307,498,074		45,842	\$120,279		\$26,679	0.000786%				
Hail	\$9,276,420,189	\$222,434,226	45,809	\$1,618	\$5,959	\$159	under 0.0001%				
Heat Wave	\$9,276,420,187	\$222,434,226	45,809	under \$1	\$865	\$1,173,155	under 0.0001%				
Hurricane	\$9,276,193,364	\$222,396,263	45,809	\$713,469	\$455,888	\$33,821	0.00769%				
Ice Storm	\$9,240,339,877		45,647	\$3,424		\$3,673	under 0.0001%				
Inland Flooding	\$9,264,843,551	\$9,091,240	2,215	\$12,563,557	\$101,283	\$712,097	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	\$736,685,429		3,919	\$13,865		\$14,320	0.00188%				
Lightning	\$9,276,420,189		45,809	\$4,618		\$127,000	under 0.0001%				
Strong Wind	\$9,276,420,189	\$222,434,226	45,809	\$63,068	\$49,262	\$1,027,500	0.00068%	\$30,000			
Tornado	\$9,276,420,189	\$222,434,226	45,809	\$258,683	\$2,768	\$320,328	0.00279%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$2,680,214,439	\$57,699,499	14,411	\$7,977	\$55	\$3,094	0.000298%				
Winter Weather	\$9,276,420,187	\$222,434,226	45,809	\$10,026	\$24	\$178,505	0.000108%		\$0		

Totals since 2025-08-13 (Storm Events through 2026-06-30): 7 county-coded records, 7 with a damage value recorded (including \$0), \$30,000; 3 zone-level records, 3 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance on counted declarations none found (0 declarations, 0 with PA).

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

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

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

SOURCES

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

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

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

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

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

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

Supports B2-a: context

County context

Measure	Value
Population	45,809
Building value (total, not at risk)	\$9,276,420,189
Agriculture value (total, not at risk)	\$222,434,226
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$14,402,081
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)	\$3,798,686
Social vulnerability rating	Relatively Low
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)	7	Severe repetitive loss, FMA definition (44 CFR 77.2)	9
Repetitive loss, NFIP insurance definition	105	Severe repetitive loss, NFIP insurance definition	8

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

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: 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	7	9	105	8	107	0	25
DUNCANNON, BOROUGH OF	0	2	39	2	39	0	9
MARYSVILLE, BOROUGH OF	0	4	10	3	12	0	3
MILLERSTOWN, BOROUGH OF	0	0	1	0	1	0	0
NEWPORT, BOROUGH OF	1	0	7	0	7	0	1
PENN, TOWNSHIP OF	1	1	5	1	5	0	2
WATTS, TOWNSHIP OF	0	0	4	0	4	0	1
OLIVER, TOWNSHIP OF	0	0	1	0	1	0	0
RYE, TOWNSHIP OF	0	0	1	0	1	0	0
WHEATFIELD, TOWNSHIP OF	0	0	8	0	8	0	1
JUNIATA, TOWNSHIP OF	0	0	1	0	1	0	1
HOWE, TOWNSHIP OF	0	0	2	0	2	0	0
BUFFALO, TOWNSHIP OF	2	0	3	0	3	0	0
CARROLL, TOWNSHIP OF	0	0	6	0	6	0	3
GREENWOOD, TOWNSHIP OF	0	0	1	0	1	0	0
LIVERPOOL, TOWNSHIP OF	2	1	6	1	6	0	2
MILLER, TOWNSHIP OF	1	1	3	1	3	0	0
SAVILLE, TOWNSHIP OF	0	0	3	0	3	0	2
SPRING, TOWNSHIP OF	0	0	1	0	1	0	0
TYRONE, TOWNSHIP OF	0	0	3	0	3	0	0
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
Blain borough	420747	0	0	0	0	0	0	0	
Bloomfield borough	420748	0	0	0	0	0	0	0	
Duncannon borough	420749	0	2	39	2	39	0	9	
Landisburg borough	422722	0	0	0	0	0	0	0	

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
Liverpool borough	420750	0	0	0	0	0	0	0	
Marysville borough	420751	0	4	10	3	12	0	3	
Millerstown borough	420752	0	0	1	0	1	0	0	
New Buffalo borough	420753	0	0	0	0	0	0	0	
Newport borough	420754	1	0	7	0	7	0	1	
Buffalo township	421948	2	0	3	0	3	0	0	
Carroll township	421949	0	0	6	0	6	0	3	
Centre township	422498	0	0	0	0	0	0	0	
Greenwood township	421950	0	0	1	0	1	0	0	
Howe township	421145	0	0	2	0	2	0	0	
Jackson township	421952	0	0	0	0	0	0	0	
Juniata township	421140	0	0	1	0	1	0	1	
Liverpool township	421953	2	1	6	1	6	0	2	
Miller township	421954	1	1	3	1	3	0	0	
Northeast Madison township	421955	0	0	0	0	0	0	0	
Oliver township	421022	0	0	1	0	1	0	0	
Penn township	420755	1	1	5	1	5	0	2	
Rye township	421028	0	0	1	0	1	0	0	
Saville township	421956	0	0	3	0	3	0	2	
Southwest Madison township	421957	0	0	0	0	0	0	0	
Spring township	421958	0	0	1	0	1	0	0	
Toboyne township	421959	0	0	0	0	0	0	0	
Tuscarora township	421960	0	0	0	0	0	0	0	
Tyrone township	421961	0	0	3	0	3	0	0	
Watts township	420756	0	0	4	0	4	0	1	
Wheatfield township	421035	0	0	8	0	8	0	1	

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

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

SOURCES

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

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

County repeat-flood properties by occupancy group

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	5	4	74	3	76	0	21
2 to 4 unit residential	0	0	11	0	11	0	1
other residential	1	1	5	1	5	0	1
non-residential	1	4	15	4	15	0	2
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 98 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

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

gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

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Cite this: Hazard Plain (2026). Perry County, PA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 42099). 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_42099. Preview: automated baseline.