

Perry County, PA

Risk-assessment baseline packet

County FIPS: 42099 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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

Summary

Plan status as of 2026-09-30: Approved, expires 2030-08-12. Plan: Perry County Hazard Mitigation Plan (FEMA plan 109090), approved 2025-08-13.

Since the plan was approved on 2025-08-13: no new hazard declaration and 10 NOAA Storm Events records; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$13,376,937 a year), Hurricane (\$1,203,178) and Heat Wave (\$1,174,021).

The tables that follow are organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B (B1-a to B2-c); each heading says which item its tables support.

TERMS USED

EAL: expected annual loss: FEMA's modeled average yearly loss from a hazard.

NRI: FEMA's National Risk Index (version 1.20, December 2025).

NFIP: National Flood Insurance Program.

RL, SRL: repetitive loss and severe repetitive loss: flood-insured properties with repeated claims (definitions in B2-c).

FMA, HMGP: Flood Mitigation Assistance and Hazard Mitigation Grant Program, FEMA mitigation grants.

PA: FEMA Public Assistance: disaster aid to governments and some nonprofits.

Zone-level: NOAA logged the event for a National Weather Service forecast zone, which may include parts of neighboring counties.

County-coded: NOAA logged the event to this county.

FIPS: the federal code for a place; 42099 is this area.

D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).

F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.

kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.

CFR: Code of Federal Regulations.

A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).

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

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Plan clock

Status:	Approved, expires 2030-08-12	Plan:	Perry County Hazard Mitigation Plan (FEMA plan 109090)
Approved:	2025-08-13	Days to expiry:	1,412
What changed since your last plan (approved 2025-08-13)			
New federal declarations:	none	Storm Events records since approval:	10 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 7, SRL 9 (44 CFR 77.2); any definition: 107	Repeat-flood change:	this release sets the baseline count.
Sources: 1, 2, 4, 6 (numbered list at the end)			

Plan status for every jurisdiction listed in this county: 31 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Notes
Perry County	County	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction approved 2025-09-04
Jackson township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction approved 2025-08-26

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Notes
Northeast Madison township	Township	Approved, expires 2030-08-12	Perry County Hazard Mitigation Plan (FEMA plan 109090)	2025-08-13	2030-08-12	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction 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	1,412	this jurisdiction approved 2025-11-03

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	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 and 2 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
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	n/a	\$26,679	\$146,959		Storm Events does not record earthquakes.
9	Lightning	Relatively Low	Relatively Low	\$4,618	n/a	\$127,000	\$131,618	1	
10	Landslide	Relatively Low	Relatively Low	\$13,865	n/a	\$14,320	\$28,184	0	Declared 1 time; no Storm Events record of this type.
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).
12	Hail	Very Low	Very Low	\$1,618	\$5,959	\$159	\$7,736	28	
13	Ice Storm	Very Low	Very Low	\$3,424	n/a	\$3,673	\$7,098	5	

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
14	Drought	Very Low	Very Low	n/a	\$332	n/a	\$332	4	
15	Avalanche	Very Low	Very Low	\$0	n/a	\$304	\$304	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

NRI risk rating combines expected annual loss with social vulnerability and community resilience; EAL rating rates expected annual loss alone. Both compare this county with all U.S. counties.

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

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: coastal flooding, tsunami and volcanic activity. That is the evidence for leaving them out of the plan.

The state hazard mitigation plan also lists hazards for this county; FEMA asks the plan to explain any hazard it leaves out.

Supports FEMA checklist item B1-b: hazard location

Affects the whole county (national data give no location within it): Cold Wave, Drought, Hail, Heat Wave, Ice Storm, Lightning, Strong Wind and Winter Weather.

Inland Flooding: The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (<https://msc.fema.gov>) for this county.

Hazards that vary within the county: highest-rated census tracts

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Avalanche	tract 302.01 (Very Low, 32.7); tract 303.02 (Very Low, 31.3); tract 306.02 (Very Low, 30.5)
Earthquake	tract 301 (Relatively Low, 42.3); tract 305.02 (Very Low, 40.5); tract 303.01 (Very Low, 40.3)
Hurricane	tract 305.02 (Relatively Moderate, 82.6); tract 306.02 (Relatively Moderate, 81.6); tract 301 (Relatively Moderate, 81.5)
Landslide	tract 306.02 (Relatively Moderate, 96.8); tract 301 (Relatively Moderate, 96.7); tract 306.01 (Relatively Moderate, 96.4)
Tornado	tract 305.02 (Relatively Moderate, 55.2); tract 303.02 (Relatively Moderate, 53.8); tract 302.02 (Relatively Low, 52.6)
Wildfire	tract 303.01 (Relatively Low, 73.1); tract 303.02 (Relatively Low, 72.6); tract 306.01 (Relatively Low, 70.7)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 302.01 is Census Tract 302.01). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Avalanche	none (count and damage only)	0					
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	4 records, 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		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					
Drought	U.S. Drought Monitor scale (D0 to D4)	4 records, 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		Countywide (zone-level records).	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	34 records, 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 jurisdictions in the plan: 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 (in event narratives)	9 records, 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		Countywide (zone-level records).	
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	1 record, 2003 (1 zone-level)		Strongest recorded: Tropical Storm record, 2003-09-18 to 2003-09-19, damage not reported; NWS zone PAZ056		Countywide (zone-level records).	Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	5 records, 1998 to 2008 (5 zone-level)		No damage reported in 5 records.		Countywide (zone-level records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	41 records, 1996 to 2025 (11 zone-level)		Flash Flood, 2009-05-28, \$50,000 property; \$0 crops (2009 dollars)		Event records naming jurisdictions in the plan: 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 is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	0					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1 record, 2025		Lightning, 2025-04-29, \$20,000 property; \$0 crops (2025 dollars)		No event record names a jurisdiction in the plan.	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	20 records, 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	High Wind, 2002-03-21, \$25,000 property; crops not reported (zone total, 2002 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	222 records, 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 jurisdictions in the plan: 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 (Fujita before Feb 2007)	6 records, 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 (whole path, pre-1996), 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 jurisdictions in the plan: Marysville borough (1 record), New Buffalo borough (1 record), Newport borough (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Wildfire	acres burned (local data)	0					
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	59 records, 1996 to 2026 (59 zone-level)		Heavy Snow, 2001-03-04, \$4,000 property; crops not reported (2001 dollars); NWS zone PAZ056		Countywide (zone-level records).	

In event narratives only (local data needed): wind chill, temperature, heat index, ice thickness, acres burned and snow depth; any physical measure of avalanche, debris flow and lightning.

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records from zones that no NWS zone-county file places in this county (mostly before 2020) are not counted here (the Methods page explains the zone matching).

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 20 declarations covering 15 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	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	no Public Assistance recorded	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	no Public Assistance recorded	
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	no Public Assistance recorded	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	no Public Assistance recorded	
2004-09-19	2004-09-17	DR-1557-PA	Major disaster	Tropical Depression Ivan	Hurricane	\$290,628.38	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Notes
						<i>federal share obligated, nominal dollars</i>	
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	no Public Assistance recorded	
1996-01-21	1996-01-19	DR-1093-PA	Major disaster	Severe Storms and Flooding	Inland Flooding	no Public Assistance recorded	
1996-01-13	1996-01-06	DR-1085-PA	Major disaster	Blizzard of 96	Winter Weather	no Public Assistance recorded	
1994-03-10	1994-01-04	DR-1015-PA	Major disaster	Severe Winter Storms	Winter Weather	no Public Assistance recorded	
1993-03-16	1993-03-13	EM-3105-PA	Emergency	Severe Snowfall & Winter Storm	Winter Weather	no Public Assistance recorded	
1976-10-20	1976-10-20	DR-523-PA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded	
1975-09-26	1975-09-26	DR-485-PA	Major disaster	Severe Storms, Heavy Rains & Flooding	Inland Flooding	no Public Assistance recorded	
1972-06-23	1972-06-23	DR-340-PA	Major disaster	Tropical Storm Agnes	Inland Flooding (primary); also designated: Hurricane	no Public Assistance recorded	

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

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
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, so they are listed on every county page in the state and not counted with county rows. Local data needed: whether each one affected this county.

Public Assistance filed under this county for declarations that do not list it: 1 row, \$3,091.21

Sources: 2, 3

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.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Avalanche	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		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
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 and 2 Strong Wind records.
Tornado	6	0	0	0	0	0	1950 to 2026-06-30	
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	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2025-04-29	Lightning		\$20,000 property; \$0 crops (2025 dollars)	0, 0	REWARD	in the 12 months before plan approval; within last 5 years	B1-c worst recorded: Lightning
2025-01-21	Cold/Wind Chill		\$0 property; \$0 crops (zone total, 2025 dollars)	0, 0	NWS zone PAZ056 (PERRY), zone-level	in the 12 months before plan approval; 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		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		deaths or injuries recorded
2003-09-18	Tropical Storm		damage not reported	0, 0	NWS zone PAZ056 (PERRY), zone-level		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 (zone total, 2001 dollars)	0, 0	NWS zone PAZ056 (PERRY), zone-level		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		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 (whole path, pre-1996), 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 Excel file, sheet "B1-d Storm Events history" (406 rows).

Location is the place NOAA recorded, as written in its data; it need not be a jurisdiction in this plan.

Local data needed: state-declared emergencies, from your state emergency management agency (federal data do not include them).

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

Supports FEMA checklist item B1-e: probability of future events

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
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.
Cold Wave	1.21	event-days per year	about 1.21 days per year	Likely	Storm Events event-days in 3 of 30 years, 1996 to 2025 (10%)	23	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	0.0138	event-days per year	about 0.0138 days per year	Likely	Storm Events 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	No descriptor (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	
Heat Wave	4.32	event-days per year	about 4.32 days per year	Likely	Storm Events event-days in 5 of 30 years, 1996 to 2025 (16.7%)	63	2005-11-12 to 2024-11-12 (19 years)	countywide	
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 in B1-d.
Ice Storm	0.421	event-days per year	about 0.421 days per year	Likely	Storm Events 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	Storm Events event-days in 17 of 30 years, 1996 to 2025 (56.7%)	33	1996 to 2023 (28 years)	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Landslide	0.928	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	
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 descriptor: no Storm Events record 1996 to 2025
Winter Weather	12.2	event-days per year	about 12.2 days per year	Likely	Storm Events 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) is the National Risk Index v1.20 (December 2025) estimate of how often a hazard affects this county in a year; it is not recorded events divided by years, and its unit differs by hazard (events, event-days, or days with a lightning strike per year). For earthquake, wildfire, coastal flooding and tsunami the value is the chance (or number of events) at a location in the county, not across the county, so no "1 in N years" is given and the descriptor comes from Storm Events where it has a record (none for earthquake). The Methods page gives each hazard's method, from FEMA's National Risk Index Technical Documentation v1.20.

Where NRI gives event-days, the descriptor comes from the share of years with a Storm Events record; NRI's source records more events, so the two differ.

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	22	30	0.733
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	167	30	5.57
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	5	30	0.167
Thunderstorm Wind (counted as NRI Strong Wind)	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

The bands show how often events of each severity were recorded in this county, to profile how severe events have been (FEMA's probability item asks for the range of intensities).

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

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

Supports FEMA checklist item B1-f: hazards that vary across jurisdictions

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Avalanche	9 of 10	25.8	29.4	32.7	Very Low 9, Not Applicable 1
Cold Wave	10 of 10	28.1	32.5	36.7	Relatively Low 10
Drought	1 of 10	75.4	75.4	75.4	Very Low 1, No Rating 9
Earthquake	10 of 10	29.0	36.8	42.3	Relatively Low 1, Very Low 9
Hail	10 of 10	7.3	19.8	24.0	Very Low 10
Heat Wave	10 of 10	76.2	84.2	88.3	Relatively High 5, Relatively Moderate 5
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
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
Strong Wind	10 of 10	87.7	93.0	95.7	Relatively High 10
Tornado	10 of 10	42.2	50.0	55.2	Relatively Moderate 2, Relatively Low 8
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

Drought: Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

Hail: Agriculture is 77% of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

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

The score ranks a tract against all U.S. tracts (100 = highest). The rating is FEMA's category for the tract's risk value, computed differently, so the two can disagree.

Frequency data for cold wave, drought, hail, heat wave, ice storm, lightning, strong wind and winter weather are county-wide or coarse (49 km grid or NWS zone), the same for every jurisdiction; the tract range mostly reflects where buildings and people are (crop and livestock value where a line above names agriculture).

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Perry County	County	Approved, expires 2030-08-12		\$99,692.31	0 total; 0 since its plan	No NFIP community ID on this jurisdiction'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 total; 0 since its plan	
Bloomfield borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Duncannon borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 2; any 39	\$131,166.77	27 total; 1 since its plan	
Landisburg borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	8 total; 0 since its plan	
Liverpool borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$1,658.02	20 total; 0 since its plan	
Marysville borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 4; any 12	\$61,897.19	12 total; 1 since its plan	
Millerstown borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 1	\$8,933.92	15 total; 0 since its plan	
New Buffalo borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$7,597.50	8 total; 0 since its plan	
Newport borough	Organized Borough	Approved, expires 2030-08-12	FMA RL 1, SRL 0; any 7	\$29,282.04	37 total; 0 since its plan	
Buffalo township	Township	Approved, expires 2030-08-12	FMA RL 2, SRL 0; any 3	\$34,176.62	0 total; 0 since its plan	
Carroll township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 6	\$58,009.63	0 total; 0 since its plan	
Centre township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$19,983.14	0 total; 0 since its plan	
Greenwood township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 1	\$15,675.50	0 total; 0 since its plan	
Howe township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 2	\$6,622.56	0 total; 0 since its plan	
Jackson township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$167,744.75	0 total; 0 since its plan	
Juniata township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 1	\$9,108.62	0 total; 0 since its plan	
Liverpool township	Township	Approved, expires 2030-08-12	FMA RL 2, SRL 1; any 6	\$11,316.09	20 total; 0 since its plan	

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
Miller township	Township	Approved, expires 2030-08-12	FMA RL 1, SRL 1; any 3	\$10,302.39	0 total; 0 since its plan	
Northeast Madison township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$4,640.05	0 total; 0 since its plan	
Oliver township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 1	\$26,901.74	0 total; 0 since its plan	
Penn township	Township	Approved, expires 2030-08-12	FMA RL 1, SRL 1; any 5	\$42,065.75	0 total; 0 since its plan	
Rye township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 1	\$92,613.99	0 total; 0 since its plan	
Saville township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 3	\$15,733.65	3 total; 0 since its plan	
Southwest Madison township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$28,412.38	0 total; 0 since its plan	
Spring township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 1	\$14,280.03	0 total; 0 since its plan	
Toboyne township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$2,945	0 total; 0 since its plan	
Tuscarora township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 0	\$9,551.12	0 total; 0 since its plan	
Tyrone township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 3	\$9,049.18	0 total; 0 since its plan	
Watts township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 4	\$9,913.92	0 total; 0 since its plan	
Wheatfield township	Township	Approved, expires 2030-08-12	FMA RL 0, SRL 0; any 8	\$17,790.77	0 total; 0 since its plan	

Repetitive-loss counts are for whole NFIP communities, which can extend beyond this county (see the note in B2-c).

County Public Assistance in B1-d also includes applicants filed under the county that are not jurisdictions in this plan (for example state agencies, special districts and nonprofits), so the jurisdiction rows add up to less.

Supports FEMA checklist items B2-a and B2-b: vulnerability and potential impacts

Local data needed

The table below gives county-level starting figures; the plan describes impacts for each jurisdiction and its own assets.

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

- Future assets

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

Sources: 1, 2, 3, 5, 6, 7

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 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	n/a	under 1	\$0	n/a	\$304					building exposure is 0 in NRI
Cold Wave	\$9,276,420,187	\$222,434,226	45,809	\$121	\$24,938	\$178,049	under 0.0001%				
Drought	n/a	\$48,019	n/a	n/a	\$332	n/a	0.692% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$15,307,498,074	n/a	45,842	\$120,279	n/a	\$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	n/a	45,647	\$3,424	n/a	\$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.
Landslide	\$736,685,429	n/a	3,919	\$13,865	n/a	\$14,320	0.00188%				
Lightning	\$9,276,420,189	n/a	45,809	\$4,618	n/a	\$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%				
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: no counted declaration since the plan.

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

NRI computes earthquake exposure on its own basis, so it exceeds the county building value in B2-a.

Supports FEMA checklist item B2-a: vulnerability (county context)

County context

Source: 5

Measure	Value
Population	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 adds buildings, agriculture and population equivalence; this table gives the property part and the population-equivalence part as separate rows.

Social vulnerability: higher means people are more likely to be harmed and slower to recover. Community resilience: lower means the community is less able to recover. High social vulnerability and low resilience both raise the NRI risk rating.

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	7	Severe repetitive loss, FMA definition (44 CFR 77.2)	9
Repetitive loss, NFIP insurance definition	105	Severe repetitive loss, NFIP insurance definition	8

The state NFIP coordinator's list, the source FEMA's Handbook names, often uses the NFIP insurance definition (second row).

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	7	9	105	8	107	0	25
of which: Duncannon borough	0	2	39	2	39	0	9
of which: Marysville borough	0	4	10	3	12	0	3
of which: Millerstown borough	0	0	1	0	1	0	0
of which: Newport borough	1	0	7	0	7	0	1

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>
of which: Penn township	1	1	5	1	5	0	2
of which: Watts township	0	0	4	0	4	0	1
of which: Oliver township	0	0	1	0	1	0	0
of which: Rye township	0	0	1	0	1	0	0
of which: Wheatfield township	0	0	8	0	8	0	1
of which: Juniata township	0	0	1	0	1	0	1
of which: Howe township	0	0	2	0	2	0	0
of which: Buffalo township	2	0	3	0	3	0	0
of which: Carroll township	0	0	6	0	6	0	3
of which: Greenwood township	0	0	1	0	1	0	0
of which: Liverpool township	2	1	6	1	6	0	2
of which: Miller township	1	1	3	1	3	0	0
of which: Saville township	0	0	3	0	3	0	2
of which: Spring township	0	0	1	0	1	0	0
of which: Tyrone township	0	0	3	0	3	0	0
Statewide, no county in FEMA's file	0	0	1	0	1	0	0

The statewide row counts properties FEMA's file gives with no county in this state; they are listed for reference and are not in this county's counts.

Repeat-flood properties by jurisdiction in the plan (NFIP community)

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
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
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

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
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

Counts by occupancy group for each jurisdiction are in the Excel file, sheet "B2-c Jurisdictions".

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

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	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

FEMA's occupancy groups have no institutional class; institutional properties are counted in non-residential or other residential in the table by occupancy group.

FMA RL and FMA SRL are the Flood Mitigation Assistance definitions (44 CFR 77.2), the ones the FEMA Local Mitigation Planning Policy Guide cites. NFIP repetitive loss (the FEMA insurance definition) is 2 or more claims over \$1,000 in 10 years, and a property can leave that group once it is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured. The Methods page gives the OpenFEMA field details.

Counts are aggregates of FEMA's public NFIP Multiple Loss Properties file (FEMA's data date 2026-08-02; file version 2026-08-04). No property is identified. County assignment is FEMA's geocode.

In this county 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

Tables cite these sources by number. The full list, for the plan's bibliography (FEMA review item A4-a):

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 2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
 3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
 4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
 5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
 6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
 7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
 8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scscd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scscd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)
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What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment (the summary on page 1 says how it is organized); the plan and FEMA's review decide whether each item is met.

The plan adds what only the community has: local data on assets, critical facilities, development and each jurisdiction's impacts; local hazard history, including state-declared emergencies; the mitigation strategy; and adoption.

How the federal data are built: National Risk Index values are FEMA's model, not counts of events. Storm Events is more complete from 1996; zone-level records are placed by forecast zone, not by location in the county. Public Assistance for a jurisdiction is matched by applicant name. The Methods page gives every rule and the known edge cases.

OpenFEMA disclaimer

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

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Perry County, PA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 42099). Automated baseline. <https://hazardplain.org/pa/42099/> 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: contact@hazardplain.org