

Centre County, PA

Risk-assessment baseline packet

County FIPS: 42027 **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 2030-06-16. Plan: Centre County Hazard Mitigation Plan (FEMA plan 109107), approved 2025-06-17.
Since the plan was approved on 2025-06-17: no new federal declaration.
NOAA Storm Events records since that date: 39 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$19,375,419 a year), Hurricane (\$1,284,952) and Lightning (\$1,053,132).
Repetitive-loss flood properties now: FMA RL 1, SRL 0 (44 CFR 77.2); any definition: 22.
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; 42027 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 2030-06-16	Plan:	Centre County Hazard Mitigation Plan (FEMA plan 109107)
Approved:	2025-06-17	Days to expiry:	1,355
What changed since your last plan (approved 2025-06-17)			
New federal declarations:	none	Storm Events records since approval:	39 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 1, SRL 0 (44 CFR 77.2); any definition: 22	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: 36 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
Centre County	County	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	
Belleville borough	Organized Borough	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-07
Centre Hall borough	Organized Borough	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-10
Howard borough	Organized Borough	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-14
Milesburg borough	Organized Borough	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-10-13
Millheim borough	Organized Borough	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-08
Philipsburg borough	Organized Borough	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2026-02-16
Port Matilda borough	Organized Borough	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-08-26
Snow Shoe borough	Organized Borough	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-08-12
State College borough	Organized Borough	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-08-18
Unionville borough	Organized Borough	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-07
Benner township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-07
Boggs township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-01
Burnside township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-02
College township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-17
Curtin township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-12-15
Ferguson township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-08-05
Gregg township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-11-06
Haines township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-15

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Notes
Halfmoon township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-10
Harris township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-14
Howard township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-08-04
Huston township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-08-04
Liberty township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-01
Marion township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-09
Miles township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-08-07
Patton township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-09
Penn township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-06-25
Potter township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-07
Rush township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-10-14
Snow Shoe township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2026-03-02
Spring township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-10-06
Taylor township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-14
Union township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-09-09
Walker township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-10-01
Worth township	Township	Approved, expires 2030-06-16	Centre County Hazard Mitigation Plan (FEMA plan 109107)	2025-06-17	2030-06-16	1,355	this jurisdiction approved 2025-07-03

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 Moderate	Relatively Moderate	\$19,286,497	\$4,944	\$83,977	\$19,375,419	34	
2	Hurricane	Relatively Low	Relatively Low	\$1,098,060	\$132,056	\$54,836	\$1,284,952	1	
3	Lightning	Relatively High	Relatively High	\$22,461	n/a	\$1,030,671	\$1,053,132	3	
4	Tornado	Relatively Low	Relatively Low	\$620,428	\$1,384	\$271,193	\$893,006	9	
5	Winter Weather	Relatively High	Relatively High	\$34,795	\$49	\$540,912	\$575,756	103	
6	Strong Wind	Relatively Moderate	Relatively Moderate	\$64,525	\$1,845	\$503,199	\$569,570	390	Includes 18 High Wind and 5 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
7	Earthquake	Very Low	Relatively Low	\$315,941	n/a	\$66,470	\$382,411		Storm Events does not record earthquakes.
8	Heat Wave	Relatively Low	Relatively Low	under \$1	\$29	\$316,205	\$316,234	3	
9	Cold Wave	Very Low	Relatively Low	\$491	\$20,731	\$222,958	\$244,180	20	
10	Hail	Very Low	Very Low	\$26,532	\$2,102	\$61,474	\$90,107	73	
11	Ice Storm	Relatively Low	Relatively Low	\$44,101	n/a	\$4,070	\$48,170	13	
12	Landslide	Relatively Moderate	Relatively Low	\$25,226	n/a	\$15,362	\$40,588	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Wildfire	Very Low	Very Low	\$11,953	\$23	\$3,569	\$15,545	2	

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	Avalanche	Very Low	Very Low	under \$1	n/a	\$2,380	\$2,380	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Drought	No Rating	No Expected Annual Losses	n/a	\$0	n/a	\$0	7	

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 records (Storm Events records this hazard 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 107 (Very Low, 58.9); tract 106 (Very Low, 57.2); tract 108.02 (Very Low, 56.4)
Earthquake	tract 122 (Relatively Low, 73.0); tract 120 (Relatively Low, 44.2); tract 111.01 (Relatively Low, 44.0)
Hurricane	tract 122 (Relatively Moderate, 83.6); tract 107 (Relatively Low, 76.8); tract 108.02 (Relatively Low, 73.1)
Landslide	tract 105 (Relatively Moderate, 98.4); tract 101 (Relatively Moderate, 96.8); tract 106 (Relatively Moderate, 96.8)
Tornado	tract 122 (Relatively Moderate, 64.3); tract 107 (Relatively Low, 42.5); tract 117.02 (Relatively Low, 40.4)
Wildfire	tract 106 (Relatively Low, 74.8); tract 105 (Relatively Low, 72.1); tract 104 (Very Low, 67.9)

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 107 is Census Tract 107). 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					Physical measure: in event narratives only (local data needed).
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	20 records, 2004 to 2026 (20 zone-level)	1 day to 4 days (median 2 days); 17 with a recorded value	4 consecutive days, 2007-02-03 to 2007-02-06, zone-level		Countywide (zone-level records).	Wind chill: in event narratives only (local data needed).
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					Temperature: in event narratives only (local data needed).
Drought	U.S. Drought Monitor scale (D0 to D4)	7 records, 1997 to 2020 (7 zone-level)	1 day to 70 days (median 31.5 days); 4 with a recorded value	70 days (about 2.3 months), 2020-09-22 to 2020-11-30, a run of 3 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)	83 records, 1960 to 2026	0.75 in to 3 in (median 0.88 in); 83 with a recorded value	3 in hail, 1960-07-19	Hail, 2021-07-13, \$20,000 property; \$4,000 crops (2021 dollars)	Event records naming jurisdictions in the plan: State College borough (22 records), Bellefonte borough (7 records), Centre Hall borough (4 records), Philipsburg borough (4 records), Port Matilda borough (4 records), Howard borough (2 records), Howard township (2 records), Millheim borough (2 records), Snow Shoe borough (1 record), Snow Shoe township (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	3 records, 2006 to 2025 (3 zone-level)	1 day to 3 days (median 2 days); 3 with a recorded value	3 consecutive days, 2025-06-23 to 2025-06-25, zone-level		Countywide (zone-level records).	Heat index: in event narratives only (local data needed).
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 PAZ019		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.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Ice Storm	Sperry-Piltz ice scale (local data)	13 records, 1997 to 2022 (13 zone-level)		Ice Storm, 2002-10-29, \$1,000,000 property; crops not reported (2002 dollars); NWS zone PAZ018		Countywide (zone-level records).	Ice thickness: in event narratives only (local data needed).
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	34 records, 1996 to 2025 (3 zone-level)		Flash Flood, 2016-10-20, \$5,000,000 property; \$0 crops (2016 dollars)		Event records naming jurisdictions in the plan: State College borough (6 records), Port Matilda borough (3 records), Philipsburg borough (2 records), Curtin township (1 record), Millheim borough (1 record). Zone-level records (3) 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					Physical measure: in event narratives only (local data needed).
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	3 records, 2000 to 2024		Lightning, 2021-07-13, \$500,000 property; \$0 crops (2021 dollars)		Event records naming jurisdictions in the plan: Port Matilda borough (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	23 records, 1996 to 2025 (23 zone-level)	35 kt (40 mph) to 64 kt (74 mph) (median 52 kt (60 mph)); 21 with a recorded value	64 kt (74 mph), measurement type not recorded, High Wind, 1996-03-25; NWS zone PAZ018	High Wind, 2000-12-12, \$13,900 property; crops not reported, reported for the zone (2000 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	441 records, 1957 to 2026	43 kt (49 mph) to 96 kt (110 mph) (median 52 kt (60 mph)); 364 with a recorded value	96 kt (110 mph) estimated gust, Thunderstorm Wind, 2021-07-11	Thunderstorm Wind, 2025-03-16, \$140,000 property; \$0 crops (2025 dollars)	Event records naming jurisdictions in the plan: State College borough (61 records), Bellefonte borough (24 records), Millheim borough (12 records), Centre Hall borough (11 records), Philipsburg borough (11 records), Port Matilda borough (10 records), Milesburg borough (7 records), Howard borough (6 records), Howard township (6 records), Unionville borough (5 records); and 3 more jurisdictions (see the Excel file).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	15 records, 1975 to 2026	F/EF0 to F/EF4 (median F/EF1); 15 with a recorded value	F4 tornado, 1985-05-31, 4.5 mi path length (whole path, pre-1996), 3,330 yd wide, \$25,000,000 property; crops not recorded (1985 dollars)		Event records naming jurisdictions in the plan: Bellefonte borough (1 record), Philipsburg 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)	2 records, 2022 to 2023 (2 zone-level)		No damage reported in 2 records.		Countywide (zone-level records).	Acres burned: in event narratives only (local data needed).
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	103 records, 1996 to 2026 (103 zone-level)		Winter Weather, 2025-04-01, \$100,000 property; \$0 crops (2025 dollars); NWS zone PAZ018		Countywide (zone-level records).	Snow depth: in event narratives only (local data needed).

Where a hazard names more than 10 jurisdictions, the table lists the 10 with the most records; every one is in the Excel file, sheet "B1-c Extent".

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records whose zone 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: 15 declarations covering 11 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	\$5,724,549.30	
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
2016-12-02	2016-10-20	DR-4292-PA	Major disaster	Severe Storms and Flooding	Inland Flooding	\$2,479,676.35	
2013-10-01	2013-06-26	DR-4149-PA	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$551,113.42	
2012-10-29	2012-10-26	EM-3356-PA	Emergency	Hurricane Sandy	Hurricane	no Public Assistance recorded	
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	
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	\$477,707.67	
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	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Notes
						<i>federal share obligated, nominal dollars</i>	
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	
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: 3 rows, \$298,217.32

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-4267-PA	2016-03-23	Severe Winter Storm and Snowstorm	Pennsylvania State University (Centre County)	\$136,693.58
DR-1898-PA	2010-04-16	Severe Winter Storms and Snowstorms	Pennsylvania State University (Centre County)	\$6,593.17
DR-1649-PA	2006-06-30	Severe Storms, Flooding, and Mudslides	Pennsylvania State University (Centre County)	\$154,930.57

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	20	1	1	3	0	0	1996 to 2026-06-30	
Drought	7	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	83	7	0	12	0	0	1955 to 2026-06-30	
Heat Wave	3	1	0	1	0	0	1996 to 2026-06-30	
Hurricane	1	0	0	0	4	0	1996 to 2026-06-30	
Ice Storm	13	0	0	1	0	0	1996 to 2026-06-30	
Inland Flooding	34	1	0	3	6	0	1996 to 2026-06-30	
Landslide	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	3	0	0	1	0	0	1996 to 2026-06-30	
Strong Wind	464	20	43	114	0	0	1955 to 2026-06-30	Includes 18 High Wind and 5 Strong Wind records.
Tornado	15	1	0	2	1	0	1950 to 2026-06-30	
Wildfire	2	0	0	2	0	0	1996 to 2026-06-30	
Winter Weather	103	8	4	30	3	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
2025-06-23	Heat		\$0 property; \$0 crops, reported for the zone (2025 dollars)	0, 0	NWS zone PAZ019 (SOUTHERN CENTRE), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2025-04-01	Winter Weather		\$100,000 property; \$0 crops, reported for the zone (2025 dollars)	0, 0	NWS zone PAZ018 (NORTHERN CENTRE), zone-level	in the 12 months before plan approval; within last 5 years	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2021-07-13	Lightning		\$500,000 property; \$0 crops (2021 dollars)	0, 0	BUFFALO RUN		B1-c worst recorded: Lightning
2021-07-11	Thunderstorm Wind	96 kt (110 mph) estimated gust	\$20,000 property; \$0 crops (2021 dollars)	0, 0	INGLEBY		B1-c worst recorded: Thunderstorm Wind
2017-05-01	Tornado	EF1, 1.1 mi within this county, 100 yd wide	\$200,000 property; \$0 crops (2017 dollars)	0, 1	SMULLTON to REBERSBURG		deaths or injuries recorded
2016-10-20	Flash Flood		\$5,000,000 property; \$0 crops (2016 dollars)	0, 0	YARNELL to HUBLERSBURG		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2012-07-26	Thunderstorm Wind	50 kt (58 mph) estimated gust	\$5,000 property; \$0 crops (2012 dollars)	0, 3	OAK HALL		deaths or injuries recorded
2007-02-03	Extreme Cold/ Wind Chill		\$0 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone PAZ018 (NORTHERN CENTRE), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2003-09-18	Tropical Storm		damage not reported	0, 0	NWS zone PAZ019 (SOUTHERN CENTRE), zone-level		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2000-06-11	Lightning		damage not reported	0, 2	PORT MATILDA		deaths or injuries recorded
1996-03-25	High Wind	64 kt (74 mph), measurement type not recorded	damage not reported	0, 0	NWS zone PAZ018 (NORTHERN CENTRE), zone-level		B1-c worst recorded: High Wind and Strong Wind
1985-05-31	Tornado	F4, 4.5 mi path length (whole path, pre-1996), 3,330 yd wide	\$25,000,000 property; crops not recorded (1985 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (748 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	2.46	event-days per year	about 2.46 days per year	Likely (from Storm Events: 9 of 30 years)	event-days in 9 of 30 years, 1996 to 2025 (30%)	46.7	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	0	event-days per year	none modeled	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	0	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI models no drought event-days here (2000 to 2025, 25.25 years; D3 and D4 only); Storm Events has a record in 4 of 30 years. The descriptor comes from Storm Events, which counts D2 drought that NRI leaves out.
Earthquake	0.000562	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0562%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	1.21	events per year	about 1.21 per year	Highly likely	FEMA annualized frequency (modeled)	45.9 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	1.09	event-days per year	about 1.09 days per year	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	17.7	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0414	events per year	about 1 in 24 years	Possible	FEMA annualized frequency (modeled)	16	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	0.0712	event-days per year	about 0.0712 days per year	Likely (from Storm Events: 11 of 30 years)	event-days in 11 of 30 years, 1996 to 2025 (36.7%)	5	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.04	event-days per year	about 1.04 days per year	Likely (from Storm Events: 20 of 30 years)	event-days in 20 of 30 years, 1996 to 2025 (66.7%)	29	1996 to 2023 (28 years)	see B1-f	
Landslide	1.1	events per year (modeled)	about 1.1 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	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
Lightning	34.5	days per year with a strike	about 34.5 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	2.62	events per year	about 2.62 per year	Highly likely	FEMA annualized frequency (modeled)	100	1986 to 2023 (38 years)	countywide	
Tornado	0.347	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.000181	annual probability at a location	chance a given location in the county burns in a year: 0.0181%	Possible (from Storm Events: 2 of 30 years)	Storm Events records in 2 of 30 years, 1996 to 2025 (6.67%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	14.4	event-days per year	about 14.4 days per year	Highly likely (from Storm Events: 28 of 30 years)	event-days in 28 of 30 years, 1996 to 2025 (93.3%)	273	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	28	30	0.933
Hail	2.00 in+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	310	30	10.3
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	16	30	0.533
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	26	30	0.867
Tornado	EF0-1	1996 to 2025	8	30	0.267
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	10 of 41	53.8	55.2	58.9	Very Low 10, Not Applicable 31
Cold Wave	41 of 41	17.3	21.9	26.6	Relatively Low 35, Very Low 6
Drought	0 of 41				No Rating 41
Earthquake	41 of 41	5.0	20.9	73.0	Relatively Low 3, Very Low 38
Hail	41 of 41	16.8	32.3	50.2	Relatively Low 4, Very Low 37
Heat Wave	41 of 41	3.3	10.6	26.7	Relatively Low 6, Very Low 35
Hurricane	41 of 41	45.4	59.6	83.6	Relatively Moderate 1, Relatively Low 36, Very Low 4
Ice Storm	41 of 41	2.6	11.8	68.8	Relatively Low 1, Very Low 40
Inland Flooding	41 of 41	0.4	33.0	88.5	Relatively High 3, Relatively Moderate 10, Relatively Low 16, Very Low 12
Landslide	41 of 41	19.4	67.1	98.4	Relatively Moderate 3, Relatively Low 14, Very Low 24
Lightning	41 of 41	37.8	77.1	94.1	Relatively High 19, Relatively Moderate 18, Relatively Low 4

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	41 of 41	20.2	46.3	69.2	Relatively Moderate 8, Relatively Low 33
Tornado	41 of 41	16.6	31.4	64.3	Relatively Moderate 1, Relatively Low 25, Very Low 15
Wildfire	38 of 41	19.1	46.5	74.8	Relatively Low 2, Very Low 36, No Rating 3
Winter Weather	41 of 41	61.2	88.7	96.2	Very High 2, Relatively High 32, Relatively Moderate 7

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, 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.

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
Centre County	County	Approved, expires 2030-06-16		\$24,815.21	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Bellefonte borough	Organized Borough	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 2	\$575,480.22	32 total; 3 since its plan	
Centre Hall borough	Organized Borough	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	15 total; 0 since its plan	
Howard borough	Organized Borough	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$5,583.85	8 total; 0 since its plan	
Milesburg borough	Organized Borough	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 3	\$30,184.40	7 total; 0 since its plan	
Millheim borough	Organized Borough	Approved, expires 2030-06-16	FMA RL 1, SRL 0; any 1	\$18,861.07	15 total; 1 since its plan	
Philipsburg borough	Organized Borough	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	18 total; 1 since its plan	
Port Matilda borough	Organized Borough	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$5,139.88	18 total; 1 since its plan	
Snow Shoe borough	Organized Borough	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	5 total; 1 since its plan	
State College borough	Organized Borough	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 1	\$9,699.53	89 total; 5 since its plan	
Unionville borough	Organized Borough	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$2,543.21	5 total; 1 since its plan	
Benner township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 1	\$1,795,706.57	0 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>	
Boggs township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 2	\$161,248.52	0 total; 0 since its plan	
Burnside township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$1,760.47	0 total; 0 since its plan	
College township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 4	\$17,292.47	0 total; 0 since its plan	Includes \$5,112.73 for declarations not counted as hazard incidents (DR-4506-PA).
Curtin township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$26,516.48	4 total; 0 since its plan	
Ferguson township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$20,559.12	0 total; 0 since its plan	
Gregg township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 1	\$25,334.04	0 total; 0 since its plan	
Haines township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Halfmoon township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$3,442.88	0 total; 0 since its plan	
Harris township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 1	\$24,396.31	0 total; 0 since its plan	
Howard township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$51,935.14	8 total; 0 since its plan	
Huston township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Liberty township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$161,801.53	0 total; 0 since its plan	
Marion township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Miles township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Patton township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$138,240.38	0 total; 0 since its plan	
Penn township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 3	\$6,228.94	0 total; 0 since its plan	
Potter township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 1	\$4,038.77	0 total; 0 since its plan	
Rush township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Snow Shoe township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$3,364.21	5 total; 1 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>	
Spring township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 2	\$61,044.12	0 total; 0 since its plan	
Taylor township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$26,885	0 total; 0 since its plan	
Union township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$167,131.54	0 total; 0 since its plan	
Walker township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	\$14,078.18	0 total; 0 since its plan	
Worth township	Township	Approved, expires 2030-06-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	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	Agriculture exposure	Population exposed	EAL buildings	EAL agriculture	Cost of expected deaths and injuries	EAL as % of exposure	Storm Events damage since 2025-06-17	Zone-level damage since plan	Public Assistance since plan	Note
	<i>modeled dollars</i>	<i>modeled dollars</i>	<i>people</i>	<i>modeled dollars per year</i>	<i>modeled dollars per year</i>	<i>FEMA's dollar value per year, not property damage</i>	<i>buildings; agriculture where noted</i>	<i>county-coded records, property plus crops, nominal dollars</i>	<i>property plus crops, reported for the zone</i>	<i>nominal dollars; see note</i>	
Avalanche	\$137,261	n/a	1	under \$1	n/a	\$2,380	under 0.0001%				
Cold Wave	\$34,386,547,141	\$117,776,389	158,157	\$491	\$20,731	\$222,958	under 0.0001%		\$0		
Drought	n/a	\$0	n/a	n/a	\$0	n/a					agriculture exposure is 0 in NRI
Earthquake	\$63,532,224,510	n/a	158,172	\$315,941	n/a	\$66,470	0.000497%				

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 2025-06-17 <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
Hail	\$34,386,574,896	\$117,776,389	158,157	\$26,532	\$2,102	\$61,474	under 0.0001%	\$0			
Heat Wave	\$34,386,547,141	\$117,776,389	158,157	under \$1	\$29	\$316,205	under 0.0001%		\$0		
Hurricane	\$34,384,765,978	\$117,518,910	158,144	\$1,098,060	\$132,056	\$54,836	0.00319%				
Ice Storm	\$34,386,427,665	n/a	158,157	\$44,101	n/a	\$4,070	0.000128%				
Inland Flooding	\$34,343,211,157	\$6,636,790	3,753	\$19,286,497	\$4,944	\$83,977	n/a (see note)	\$0			NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$1,125,959,830	n/a	5,867	\$25,226	n/a	\$15,362	0.00224%				
Lightning	\$34,386,574,896	n/a	158,157	\$22,461	n/a	\$1,030,671	under 0.0001%				
Strong Wind	\$34,386,574,896	\$117,776,389	158,157	\$64,525	\$1,845	\$503,199	0.000188%	\$116,500			
Tornado	\$34,386,574,896	\$117,776,389	158,157	\$620,428	\$1,384	\$271,193	0.0018%	\$150,000			
Wildfire	\$2,725,779,199	\$13,362,145	18,532	\$11,953	\$23	\$3,569	0.000439%				
Winter Weather	\$34,386,547,141	\$117,776,389	158,157	\$34,795	\$49	\$540,912	0.000101%		\$50,000		

Totals since 2025-06-17 (Storm Events through 2026-06-30): 29 county-coded records, 29 with a damage value recorded (including \$0), \$266,500; 10 zone-level records, 10 with a damage value recorded (including \$0), \$50,000 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	158,157
Building value (total, not at risk)	\$34,386,574,896
Agriculture value (total, not at risk)	\$117,776,389
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$21,714,174
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)	\$3,177,276
Social vulnerability rating	Relatively Moderate
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)	1	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	22	Severe repetitive loss, NFIP insurance definition	0

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	1	0	22	0	22	0	5
of which: Bellefonte borough	0	0	2	0	2	0	0
of which: College township	0	0	4	0	4	0	3
of which: Harris township	0	0	1	0	1	0	0
of which: Milesburg borough	0	0	3	0	3	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: Millheim borough	1	0	1	0	1	0	0
of which: Spring township	0	0	2	0	2	0	0
of which: State College borough	0	0	1	0	1	0	0
of which: Boggs township	0	0	2	0	2	0	1
of which: Gregg township	0	0	1	0	1	0	0
of which: Benner township	0	0	1	0	1	0	0
of which: Penn township	0	0	3	0	3	0	0
of which: Potter township	0	0	1	0	1	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>
Bellefonte borough	420257	0	0	2	0	2	0	0
Centre Hall borough	420258	0	0	0	0	0	0	0
Howard borough	420263	0	0	0	0	0	0	0
Milesburg borough	420264	0	0	3	0	3	0	1
Millheim borough	420265	1	0	1	0	1	0	0
Philipsburg borough	420267	0	0	0	0	0	0	0
Port Matilda borough	420268	0	0	0	0	0	0	0
Snow Shoe borough	421459	0	0	0	0	0	0	0
State College borough	420270	0	0	1	0	1	0	0
Unionville borough	420272	0	0	0	0	0	0	0
Benner township	421460	0	0	1	0	1	0	0
Boggs township	421193	0	0	2	0	2	0	1
Burnside township	421461	0	0	0	0	0	0	0
College township	420259	0	0	4	0	4	0	3
Curtin township	421462	0	0	0	0	0	0	0
Ferguson township	420260	0	0	0	0	0	0	0
Gregg township	421194	0	0	1	0	1	0	0
Haines township	420261	0	0	0	0	0	0	0
Halfmoon township	421463	0	0	0	0	0	0	0
Harris township	420262	0	0	1	0	1	0	0
Howard township	421464	0	0	0	0	0	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>
Huston township	421195	0	0	0	0	0	0	0
Liberty township	421196	0	0	0	0	0	0	0
Marion township	421465	0	0	0	0	0	0	0
Miles township	421197	0	0	0	0	0	0	0
Patton township	420266	0	0	0	0	0	0	0
Penn township	421466	0	0	3	0	3	0	0
Potter township	421467	0	0	1	0	1	0	0
Rush township	421468	0	0	0	0	0	0	0
Snow Shoe township	421198	0	0	0	0	0	0	0
Spring township	420269	0	0	2	0	2	0	0
Taylor township	421469	0	0	0	0	0	0	0
Union township	421470	0	0	0	0	0	0	0
Walker township	421471	0	0	0	0	0	0	0
Worth township	421472	0	0	0	0	0	0	0

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	1	0	16	0	16	0	5
2 to 4 unit residential	0	0	2	0	2	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	0	4	0	4	0	0
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 21 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):

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
 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_scsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (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, organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B. Each section heading names the item its tables support; the plan and FEMA's review decide whether the 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). Centre County, PA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 42027). Automated baseline. <https://hazardplain.org/pa/42027/> 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

Hazard Plain release 2026-10. As of 2026-09-30; Storm Events data through 2026-06-30. Automated baseline.