

Bucks County, PA

Risk-assessment baseline packet

County FIPS: 42017 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: Plan 109112 approved 2026-08-10, pending adoption here; not yet eligible. Plan: Bucks County Hazard Mitigation Plan (FEMA plan 109112), pending adoption here, approved 2026-08-10 by FEMA; not yet adopted here.

Update: FEMA tracker shows a plan approvable pending adoption.

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$141,204,457 a year), Earthquake (\$13,275,921) and Tornado (\$10,313,454).

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; 42017 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:	Plan 109112 approved 2026-08-10, pending adoption here; not yet eligible	Plan:	Bucks County Hazard Mitigation Plan (FEMA plan 109112), pending adoption here
Approved:	2026-08-10 by FEMA; not yet adopted here	Expires:	2031-08-09 once adopted
Update underway:	FEMA tracker shows a plan approvable pending adoption		

Not yet eligible: adopt the approved plan.

Not yet eligible: adopt the approved plan.

What changed since your last plan

Not available. Plan 109112 was approved by FEMA on 2026-08-10 but is not yet adopted here, so no since-plan counts are given.

Sources: 1, 2, 4, 6 (numbered list at the end)

Plan status for every jurisdiction listed in this county: 57 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 <i>negative = days since expiry</i>	Update underway	Notes
Bucks County	County	Plan 109112 approved 2026-08-10, pending adoption here; not yet eligible	Bucks County Hazard Mitigation Plan (FEMA plan 109112), pending adoption here	2026-08-10 by FEMA; not yet adopted here	2031-08-09 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Bristol borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Chalfont borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Doylestown borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Dublin borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Hulmeville borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Ivyland borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Langhorne borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan. this jurisdiction approved 2022-01-12
Langhorne Manor borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Morrisville borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
New Britain borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
New Hope borough	Organized Borough	Plan 109112 approved 2026-08-10, pending adoption here; not yet eligible	Bucks County Hazard Mitigation Plan (FEMA plan 109112), pending adoption here	2026-08-10 by FEMA; not yet adopted here	2031-08-09 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Newtown borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Penndel borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Perkasie borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Quakertown borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Richlandtown borough	Organized Borough	Plan 107652 approved 2021-10-04, pending adoption here; not yet eligible	Bucks County Hazard Mitigation Plan (FEMA plan 107652), pending adoption here	2021-10-04 by FEMA; not yet adopted here	2026-10-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Riegelsville borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sellersville borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Silverdale borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Telford borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Trumbauersville borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Tullytown borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Yardley borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>		Update underway	Notes
Bedminster township	Township	Approved, expires 2031-08-09	Bucks County Hazard Mitigation Plan (FEMA plan 109112)	2026-08-10	2031-08-09	1,774			Also approved under plan 107652 (Bucks County Hazard Mitigation Plan, expires 2026-10-03). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last. this jurisdiction approved 2026-08-11
Bensalem township	Township	Approved, expires 2031-08-09	Bucks County Hazard Mitigation Plan (FEMA plan 109112)	2026-08-10	2031-08-09	1,774			Also approved under plan 107652 (Bucks County Hazard Mitigation Plan, expires 2026-10-03). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last. this jurisdiction approved 2026-09-14
Bridgeton township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption		Not yet eligible: adopt the approved plan.
Bristol township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption		Not yet eligible: adopt the approved plan.
Buckingham township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption		Not yet eligible: adopt the approved plan.
Doylestown township	Township	Plan 109112 approved 2026-08-10, pending adoption here; not yet eligible	Bucks County Hazard Mitigation Plan (FEMA plan 109112), pending adoption here	2026-08-10 by FEMA; not yet adopted here	2031-08-09 once adopted		FEMA tracker shows a plan approvable pending adoption		Not yet eligible: adopt the approved plan.
Durham township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption		Not yet eligible: adopt the approved plan.
East Rockhill township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption		Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
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Falls township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Haycock township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Hilltown township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lower Makefield township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lower Southampton township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Middletown township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Milford township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
New Britain township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Newtown township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Nockamixon township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Northampton township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Plumstead township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Richland township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Solebury township	Township	Plan 109112 approved 2026-08-10, pending adoption here; not yet eligible	Bucks County Hazard Mitigation Plan (FEMA plan 109112), pending adoption here	2026-08-10 by FEMA; not yet adopted here	2031-08-09 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Springfield township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Tinicum township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Upper Makefield township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Upper Southampton township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Warminster township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Warrington township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Warwick township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
West Rockhill township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Wrightstown township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	3	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Council Rock School District	School/School District	Plan 109112 approved 2026-08-10, pending adoption here; not yet eligible	Bucks County Hazard Mitigation Plan (FEMA plan 109112), pending adoption here	2026-08-10 by FEMA; not yet adopted here	2031-08-09 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Warminster Municipal Authority	Special District	Approved, expires 2031-08-09	Bucks County Hazard Mitigation Plan (FEMA plan 109112)	2026-08-10	2031-08-09	1,774		

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 High	Relatively High	\$131,209,252	\$162,858	\$9,832,347	\$141,204,457	192	
2	Earthquake	Relatively Moderate	Relatively Moderate	\$10,259,135	n/a	\$3,016,787	\$13,275,921		Storm Events does not record earthquakes.
3	Tornado	Relatively High	Relatively High	\$5,895,071	\$1,043	\$4,417,339	\$10,313,454	13	
4	Cold Wave	Relatively High	Relatively High	\$682	\$24	\$9,302,520	\$9,303,226	35	Includes 3 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
5	Heat Wave	Relatively Moderate	Relatively Moderate	\$10	\$444	\$7,494,437	\$7,494,892	105	
6	Hurricane	Relatively Moderate	Relatively Moderate	\$6,507,956	\$245,434	\$205,527	\$6,958,916	3	
7	Ice Storm	Very High	Very High	\$3,961,699	n/a	\$538,214	\$4,499,913	6	
8	Strong Wind	Relatively High	Relatively High	\$1,518,795	\$13,000	\$1,930,489	\$3,462,284	564	Includes 35 High Wind and 97 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
9	Winter Weather	Very High	Very High	\$576,824	\$36	\$1,775,774	\$2,352,634	308	Includes 5 Sleet records (outside NRI's Winter Weather definition).
10	Lightning	Relatively High	Relatively High	\$198,073	n/a	\$1,418,052	\$1,616,125	65	
11	Drought	Relatively Moderate	Relatively Moderate	n/a	\$926,102	n/a	\$926,102	47	
12	Coastal Flooding	Relatively Moderate	Relatively Moderate	\$903,574	n/a	\$18,281	\$921,854	31	
13	Hail	Relatively Low	Relatively Low	\$103,827	\$82,547	\$28,611	\$214,984	83	
14	Wildfire	Very Low	Very Low	\$65,328	\$11	\$12,508	\$77,847	4	

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
15	Landslide	Very Low	Very Low	\$2,498	n/a	\$98	\$2,596	0	Declared 1 time; no Storm Events record of this type.
16	Avalanche	Very Low	Very Low	under \$1	n/a	\$42	\$42	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 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: 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.

Coastal Flooding and 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 1037 (Very Low, 9.1); tract 1051 (Very Low, 7.9)
Earthquake	tract 1008.07 (Relatively Moderate, 83.9); tract 1001.02 (Relatively Moderate, 83.1); tract 1003.03 (Relatively Moderate, 82.1)
Hurricane	tract 1008.07 (Relatively Moderate, 82.8); tract 1001.02 (Relatively Moderate, 79.1); tract 1058.05 (Relatively Moderate, 78.9)
Landslide	tract 1039 (Relatively Low, 92.5); tract 1034 (Relatively Low, 85.2); tract 1066 (Relatively Low, 83.0)
Tornado	tract 1064.02 (Relatively Moderate, 71.0); tract 1046.03 (Relatively Moderate, 69.8); tract 1045.02 (Relatively Moderate, 67.8)
Wildfire	tract 1003.03 (Relatively Low, 79.3); tract 1001.02 (Relatively Low, 78.4); tract 1054.01 (Relatively Low, 77.8)

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 1037 is Census Tract 1037). 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					
Coastal Flood, Storm Surge/ Tide	none in data (flood depth: FIRM)	31 records, 1998 to 2024 (31 zone-level)		Coastal Flood, 2011-04-16, \$100,000 property; \$0 crops (2011 dollars); Storm Events area BUCKS (legacy zone code PAZ069)		Countywide (zone-level records).	Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	32 records, 1996 to 2022 (32 zone-level)	1 day to 16 days (median 2 days); 26 with a recorded value	16 consecutive days, 2003-01-14 to 2003-01-29, zone-level		Countywide (zone-level records).	Cold/Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	3 records, 2007 (3 zone-level)		No crop damage reported in 3 records.		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	47 records, 1997 to 2010 (47 zone-level)	1 day to 385 days (median 21 days); 19 with a recorded value	385 days (about 12.6 months), 2001-11-06 to 2002-11-25, a run of 13 consecutive Storm Events drought records, zone-level		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)	103 records, 1975 to 2023	0.75 in to 2 in (median 1 in); 103 with a recorded value	2 in hail, 2019-05-29; same size also recorded on 1977-11-17, 2000-05-13, 2003-03-21	Hail, 2009-07-26, \$0 property; \$400,000 crops (2009 dollars)	Event records naming jurisdictions in the plan: Quakertown borough (7 records), Chalfont borough (5 records), Warminster township (4 records), Bedminster township (3 records), Perkasié borough (3 records), Bristol borough (2 records), Bristol township (2 records), Langhorne borough (2 records), Morrisville borough (2 records), New Britain borough (2 records); and 13 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	105 records, 1996 to 2025 (105 zone-level)	1 day to 10 days (median 2.5 days); 76 with a recorded value	10 consecutive days, 2002-08-11 to 2002-08-20, zone-level		Countywide (zone-level records).	Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	3 records, 2008 to 2020 (3 zone-level)		Strongest recorded: Tropical Storm record, 2011-08-27 to 2011-08-28, \$700,000 property; \$0 crops (2011 dollars); Storm Events area BUCKS (legacy zone code PAZ069)		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)	6 records, 1998 to 2022 (6 zone-level)		No damage reported in 6 records.		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	192 records, 1996 to 2025 (17 zone-level)		Flood, 2005-04-03, \$40,000,000 property; crops not reported (2005 dollars); Storm Events area BUCKS (legacy zone code PAZ069)		Event records naming jurisdictions in the plan: Langhorne borough (27 records), Quakertown borough (7 records), Riegelsville borough (6 records), Morrisville borough (4 records), Trumbauersville borough (4 records), Bristol borough (3 records), Bristol township (3 records), New Britain borough (3 records), New Britain township (3 records), Perkasio borough (3 records); and 17 more jurisdictions (see the Excel file). Zone-level records (17) 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)	65 records, 1996 to 2025		Lightning, 2014-07-02, \$500,000 property; \$0 crops (2014 dollars)		Event records naming jurisdictions in the plan: Doylestown borough (4 records), Doylestown township (4 records), New Hope borough (4 records), Bristol borough (3 records), Bristol township (3 records), Quakertown borough (3 records), Silverdale borough (3 records), Hulmeville borough (2 records), Langhorne borough (2 records), Perkasio borough (2 records); and 11 more jurisdictions (see the Excel file).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	132 records, 1996 to 2025 (132 zone-level)	35 kt (40 mph) to 66 kt (76 mph) (median 40 kt (46 mph)); 105 with a recorded value	66 kt (76 mph) measured gust, High Wind, 2012-10-29, 2 direct injuries (reported for the zone); Storm Events area BUCKS (legacy zone code PAZ069)	High Wind, 2003-09-18, \$5,010,000 property; crops not reported (zone total, 2003 dollars)	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
Thunderstorm Wind	wind speed (kt and mph)	505 records, 1960 to 2026	43 kt (49 mph) to 95 kt (109 mph) (median 50 kt (58 mph)); 429 with a recorded value	95 kt (109 mph) estimated gust, Thunderstorm Wind, 2019-10-31, 2 direct injuries	Thunderstorm Wind, 1996-04-30, \$300,000 property; crops not reported (1996 dollars)	Event records naming jurisdictions in the plan: Newtown borough (13 records), Newtown township (13 records), Perkasio borough (13 records), Bristol borough (12 records), Bristol township (12 records), Chalfont borough (12 records), Doylestown borough (12 records), Doylestown township (12 records), Quakertown borough (12 records), Warminster township (11 records); and 25 more jurisdictions (see the Excel file).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	29 records, 1950 to 2023	F/EF0 to F/EF3 (median F/EF1); 29 with a recorded value	EF3 tornado, 2021-07-29, 2.78 mi within this county, 530 yd wide, property not reported; \$0 crops (2021 dollars)	Tornado, 1993-09-27, \$5,000,000 property; crops not recorded (1993 dollars)	Event records naming jurisdictions in the plan: Dublin borough (1 record), Hilltown township (1 record), New Hope borough (1 record), Newtown borough (1 record), Newtown township (1 record), Silverdale borough (1 record), Telford 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).
Wildfire	acres burned (local data)	4 records, 2002 to 2006 (4 zone-level)		Wildfire, 2006-03-30, \$100,000 property; crops not reported (2006 dollars); Storm Events area BUCKS (legacy zone code PAZ069)		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	308 records, 1996 to 2026 (308 zone-level)		Winter Storm, 2010-02-09, \$5,000,000 property; \$0 crops (2010 dollars); Storm Events area BUCKS (legacy zone code PAZ069)		Countywide (zone-level records).	

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".

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

Plan 109112 was approved by FEMA on 2026-08-10 but is not yet adopted here, so no since-plan counts are given.

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
2021-09-10	2021-08-31	DR-4618-PA	Major disaster	Remnants of Hurricane Ida	Hurricane	\$6,892,417.40	
2020-03-30	2020-01-20	DR-4506-PA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$81,658,486.34	
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	\$2,662,475.60	
2014-02-06	2014-02-04	EM-3367-PA	Emergency	Severe Winter Storm	Ice Storm	no Public Assistance recorded	
2013-01-10	2012-10-26	DR-4099-PA	Major disaster	Hurricane Sandy	Hurricane	\$2,331,977.96	
2012-10-29	2012-10-26	EM-3356-PA	Emergency	Hurricane Sandy	Hurricane	no Public Assistance recorded	same incident as DR-4099
2011-09-12	2011-09-03	DR-4030-PA	Major disaster	Tropical Storm Lee	Inland Flooding (primary); also designated: Hurricane	\$1,228,371.98	
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
2011-09-03	2011-08-26	DR-4025-PA	Major disaster	Hurricane Irene	Hurricane	\$1,116,242.09	
2011-08-29	2011-08-26	EM-3339-PA	Emergency	Hurricane Irene	Hurricane	no Public Assistance recorded	same incident as DR-4025
2006-06-30	2006-06-23	DR-1649-PA	Major disaster	Severe Storms, Flooding, and Mudslides	Inland Flooding; Landslide	\$1,445,915.96	
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	
2005-04-14	2005-04-02	DR-1587-PA	Major disaster	Severe Storms and Flooding	Inland Flooding	\$750,422.11	
2004-09-19	2004-09-17	DR-1557-PA	Major disaster	Tropical Depression Ivan	Hurricane	\$392,546.28	
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>	
2001-06-21	2001-06-15	DR-1383-PA	Major disaster	Tropical Storm Allison	Hurricane; Inland Flooding	PA not declared for this county	
1999-09-18	1999-09-16	DR-1294-PA	Major disaster	Hurricane Floyd Major Disaster Declarations	Hurricane	\$1,089,302.25	
1996-06-18	1996-06-12	DR-1120-PA	Major disaster	Flooding, Severe Storms	Inland Flooding	PA not declared for this county	
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	
1973-07-17	1973-07-17	DR-400-PA	Major disaster	Severe Storms & 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	
1971-09-18	1971-09-18	DR-312-PA	Major disaster	Floods	Inland Flooding	no Public Assistance recorded	
1965-08-18	1965-08-18	DR-206-PA	Major disaster	Water Shortage	Drought	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.

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		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	31			10	0		1996 to 2026-06-30	
Cold Wave	35			1	0		1996 to 2026-06-30	Includes 3 Frost/Freeze records.
Drought	47			0	1		1996 to 2026-06-30	
Earthquake	0			0	0			Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	103			12	0		1955 to 2026-06-30	
Heat Wave	105			9	0		1996 to 2026-06-30	
Hurricane	3			0	8		1996 to 2026-06-30	
Ice Storm	6			1	1		1996 to 2026-06-30	
Inland Flooding	192			34	9		1996 to 2026-06-30	
Landslide	0			0	1		1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Lightning	65			3	0		1996 to 2026-06-30	
Strong Wind	637			90	0		1955 to 2026-06-30	Includes 35 High Wind and 97 Strong Wind records.
Tornado	29			2	0		1950 to 2026-06-30	
Wildfire	4			0	0		1996 to 2026-06-30	
Winter Weather	308			38	4		1996 to 2026-06-30	Includes 5 Sleet records.

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
2023-07-15	Flash Flood		\$0 property; \$0 crops (2023 dollars)	7, 0	BUCKMANVILLE	within last 5 years	deaths or injuries recorded
2021-07-29	Tornado	EF3, 2.78 mi within this county, 530 yd wide	property not reported; \$0 crops (2021 dollars)	0, 0	BELMONT HILLS to STANWOOD		B1-c worst recorded: Tornado
2019-10-31	Thunderstorm Wind	95 kt (109 mph) estimated gust	\$0 property; \$0 crops (2019 dollars)	0, 2	NESHAMINY		B1-c worst recorded: Thunderstorm Wind
2014-07-02	Lightning		\$500,000 property; \$0 crops (2014 dollars)	0, 0	STANWOOD		B1-c worst recorded: Lightning
2012-10-29	High Wind	66 kt (76 mph) measured gust	\$3,160,000 property; \$0 crops (zone total, 2012 dollars)	0, 2	Storm Events area BUCKS (legacy zone code PAZ069), zone-level		B1-c worst recorded: High Wind and Strong Wind
2011-08-27	Tropical Storm		\$700,000 property; \$0 crops (zone total, 2011 dollars)	0, 0	Storm Events area BUCKS (legacy zone code PAZ069), zone-level		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2010-02-09	Winter Storm		\$5,000,000 property; \$0 crops (zone total, 2010 dollars)	0, 0	Storm Events area BUCKS (legacy zone code PAZ069), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2005-04-03	Flood		\$40,000,000 property; crops not reported (zone total, 2005 dollars)	0, 0	Storm Events area BUCKS (legacy zone code PAZ069), zone-level		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2003-01-14	Cold/Wind Chill		damage not reported	0, 0	Storm Events area BUCKS (legacy zone code PAZ069), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2002-08-11	Heat		damage not reported	0, 0	Storm Events area BUCKS (legacy zone code PAZ069), zone-level		B1-c worst recorded: Excessive Heat, Heat
1999-07-04	Heat		damage not reported	2, 6	Storm Events area BUCKS (legacy zone code PAZ069), zone-level		deaths or injuries recorded
1996-06-12	Flash Flood		\$14,500,000 property; crops not reported (1996 dollars)	2, 0	SOUTHEAST		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,565 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.
Coastal Flooding	6.16	events per year at a location (modeled)	about 6.2 per year at a given location in the county	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	Descriptor from NRI: the rate at a location is 1 or more a year, so the county rate is at least that.
Cold Wave	0.894	event-days per year	about 0.894 days per year	Likely	Storm Events event-days in 13 of 30 years, 1996 to 2025 (43.3%)	17	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	3.94	event-days per year	about 3.94 days per year	Likely	Storm Events event-days in 10 of 30 years, 1996 to 2025 (33.3%)	140	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00164	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.164%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	2.63	events per year	about 2.63 per year	Highly likely	FEMA annualized frequency (modeled)	99.6 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	9.64	event-days per year	about 9.64 days per year	Likely	Storm Events event-days in 25 of 30 years, 1996 to 2025 (83.3%)	116	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.077	events per year	about 1 in 13 years	Possible	FEMA annualized frequency (modeled)	26	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	1.43	event-days per year	about 1.43 days per year	Likely	Storm Events event-days in 5 of 30 years, 1996 to 2025 (16.7%)	96	1946-12-31 to 2014-02-12 (67 years)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Inland Flooding	4.43	event-days per year	about 4.43 days per year	Highly likely	Storm Events event-days in 28 of 30 years, 1996 to 2025 (93.3%)	124	1996 to 2023 (28 years)	see B1-f	
Landslide	0.232	events per year (modeled)	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	34	days per year with a strike	about 34 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	7.03	events per year	about 7.03 per year	Highly likely	FEMA annualized frequency (modeled)	267	1986 to 2023 (38 years)	countywide	
Tornado	0.287	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	0.000141	annual probability at a location	chance a given location in the county burns in a year: 0.0141%	Possible	Storm Events records in 2 of 30 years, 1996 to 2025 (6.67%)	not shown	modeled	see B1-f	
Winter Weather	12.3	event-days per year	about 12.3 days per year	Highly likely	Storm Events event-days in 30 of 30 years, 1996 to 2025 (100%)	234	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	39	30	1.3
Hail	2.00 in+	1996 to 2025	3	30	0.1
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	391	30	13
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	6	30	0.2
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	19	30	0.633
Tornado	EF0-1	1996 to 2025	9	30	0.3
Tornado	EF2-3	1996 to 2025	4	30	0.133
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	2 of 147	7.9	8.5	9.1	Very Low 2, Not Applicable 145
Coastal Flooding	15 of 147	79.5	86.7	98.3	Relatively High 3, Relatively Moderate 4, Relatively Low 8, No Rating 132
Cold Wave	147 of 147	15.6	51.8	76.1	Relatively Moderate 97, Relatively Low 49, Very Low 1
Drought	85 of 147	67.8	83.0	95.2	Relatively Moderate 5, Relatively Low 45, Very Low 35, No Rating 62
Earthquake	147 of 147	33.9	67.1	83.9	Relatively Moderate 20, Relatively Low 123, Very Low 4
Hail	147 of 147	2.8	19.8	55.0	Relatively Low 7, Very Low 140
Heat Wave	147 of 147	1.4	54.3	83.7	Relatively Moderate 72, Relatively Low 73, Very Low 2
Hurricane	147 of 147	49.4	64.5	82.8	Relatively Moderate 3, Relatively Low 143, Very Low 1
Ice Storm	147 of 147	42.7	86.4	96.4	Relatively High 45, Relatively Moderate 96, Relatively Low 6
Inland Flooding	147 of 147	4.4	56.3	97.9	Very High 5, Relatively High 38, Relatively Moderate 50, Relatively Low 46, Very Low 8
Landslide	147 of 147	9.9	37.5	92.5	Relatively Low 4, Very Low 143
Lightning	147 of 147	3.0	44.2	74.7	Relatively Moderate 51, Relatively Low 93, Very Low 3
Strong Wind	147 of 147	19.9	54.2	82.2	Relatively Moderate 72, Relatively Low 74, Very Low 1
Tornado	147 of 147	25.4	48.1	71.0	Relatively Moderate 41, Relatively Low 103, Very Low 3
Wildfire	140 of 147	18.5	48.5	79.3	Relatively Low 13, Very Low 127, No Rating 7
Winter Weather	147 of 147	41.9	87.4	97.1	Very High 5, Relatively High 117, Relatively Moderate 24, Relatively Low 1

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.

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
Bucks County	County	Plan 109112 approved 2026-08-10, pending adoption here; not yet eligible		\$17,915,644.90	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row. Includes \$15,892,505.39 for declarations not counted as hazard incidents (DR-4506-PA).
Bristol borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 1, SRL 3; any 25	\$118,368.39	20 total; 2 since its plan	Includes \$5,461.86 for declarations not counted as hazard incidents (DR-4506-PA).
Chalfont borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 1	\$18,653.36	18 total; 1 since its plan	
Doylestown borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 1, SRL 0; any 3	\$34,720.47	17 total; 0 since its plan	
Dublin borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$24,039.33	11 total; 3 since its plan	
Hulmeville borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 1, SRL 3; any 13	\$12,471.59	5 total; 0 since its plan	
Ivyland borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$3,327.05	2 total; 0 since its plan	
Langhorne borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 3, SRL 3; any 6	no Public Assistance recorded	40 total; 2 since its plan	
Langhorne Manor borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 2	\$2,805	6 total; 3 since its plan	
Morrisville borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 1	\$167,246.54	15 total; 2 since its plan	Includes \$6,164.60 for declarations not counted as hazard incidents (DR-4506-PA).
New Britain borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$12,183.04	12 total; 1 since its plan	
New Hope borough	Organized Borough	Plan 109112 approved 2026-08-10, pending adoption here; not yet eligible	FMA RL 8, SRL 16; any 84	\$672,159.82	12 total; no approved plan	Includes \$6,636.46 for declarations not counted as hazard incidents (DR-4506-PA).
Newtown borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$70,043.43	18 total; 3 since its plan	
Penndel borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$35,088.74	2 total; 0 since its plan	Includes \$11,867.72 for declarations not counted as hazard incidents (DR-4506-PA).
Perkasie borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 1, SRL 5; any 5	\$1,773,491.82	21 total; 0 since its plan	Includes \$10,820.27 for declarations not counted as hazard incidents (DR-4506-PA).
Quakertown borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 1, SRL 2; any 9	\$136,255.64	29 total; 3 since its plan	

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
Richlandtown borough	Organized Borough	Plan 107652 approved 2021-10-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$2,624.01	10 total; no approved plan	
Riegelsville borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 4, SRL 0; any 40	\$62,307.01	10 total; 1 since its plan	
Sellersville borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 5; any 13	\$202,918.10	12 total; 0 since its plan	
Silverdale borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	10 total; 1 since its plan	
Telford borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	6 total; 0 since its plan	
Trumbauersville borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$2,355.45	13 total; 2 since its plan	
Tullytown borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$42,358.30	11 total; 1 since its plan	
Yardley borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 48, SRL 57; any 168	\$328,986.06	12 total; 3 since its plan	
Bedminster township	Township	Approved, expires 2031-08-09	FMA RL 0, SRL 0; any 0	\$35,514.45	8 total; not yet covered	Also approved under plan 107652 (Bucks County Hazard Mitigation Plan, expires 2026-10-03). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.
Bensalem township	Township	Approved, expires 2031-08-09	FMA RL 0, SRL 11; any 39	\$1,014,460.04	0 total; not yet covered	Also approved under plan 107652 (Bucks County Hazard Mitigation Plan, expires 2026-10-03). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last. Includes \$168,254.58 for declarations not counted as hazard incidents (DR-4506-PA).
Bridgeton township	Township	Approved, expires 2026-10-03	FMA RL 17, SRL 12; any 55	\$48,886.47	0 total; 0 since its plan	
Bristol township	Township	Approved, expires 2026-10-03	FMA RL 1, SRL 3; any 25	\$266,198.91	20 total; 2 since its plan	Includes \$13,357.48 for declarations not counted as hazard incidents (DR-4506-PA).
Buckingham township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 5	\$274,044.75	0 total; 0 since its plan	Includes \$16,509.71 for declarations not counted as hazard incidents (DR-4506-PA).
Doylestown township	Township	Plan 109112 approved 2026-08-10, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 3	\$182,476.79	17 total; no approved plan	Includes \$8,494.78 for declarations not counted as hazard incidents (DR-4506-PA).
Durham township	Township	Approved, expires 2026-10-03	FMA RL 6, SRL 6; any 17	\$133,790.82	3 total; 2 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>	
East Rockhill township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$18,159.39	0 total; 0 since its plan	
Falls township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 2; any 7	\$96,493.77	0 total; 0 since its plan	Includes \$38,743.27 for declarations not counted as hazard incidents (DR-4506-PA).
Haycock township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 1	\$20,869.06	0 total; 0 since its plan	
Hilltown township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$174,649.78	5 total; 0 since its plan	Includes \$4,657.38 for declarations not counted as hazard incidents (DR-4506-PA).
Lower Makefield township	Township	Approved, expires 2026-10-03	FMA RL 11, SRL 17; any 53	\$710,259.95	0 total; 0 since its plan	Includes \$40,174.64 for declarations not counted as hazard incidents (DR-4506-PA).
Lower Southampton township	Township	Approved, expires 2026-10-03	FMA RL 2, SRL 5; any 21	\$375,407.33	0 total; 0 since its plan	Includes \$61,054.91 for declarations not counted as hazard incidents (DR-4506-PA).
Middletown township	Township	Approved, expires 2026-10-03	FMA RL 10, SRL 12; any 31	\$760,021.07	0 total; 0 since its plan	Includes \$336,614.61 for declarations not counted as hazard incidents (DR-4506-PA).
Milford township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 4	\$8,136.25	0 total; 0 since its plan	
New Britain township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 1	\$254,901.02	12 total; 1 since its plan	Includes \$16,504.56 for declarations not counted as hazard incidents (DR-4506-PA).
Newtown township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 1	\$106,927.20	18 total; 3 since its plan	Includes \$10,410.28 for declarations not counted as hazard incidents (DR-4506-PA).
Nockamixon township	Township	Approved, expires 2026-10-03	FMA RL 3, SRL 1; any 4	\$154,398.50	0 total; 0 since its plan	
Northampton township	Township	Approved, expires 2026-10-03	FMA RL 2, SRL 6; any 15	\$336,734.60	0 total; 0 since its plan	Includes \$35,381.28 for declarations not counted as hazard incidents (DR-4506-PA).
Plumstead township	Township	Approved, expires 2026-10-03	FMA RL 4, SRL 3; any 12	\$402,990.32	0 total; 0 since its plan	
Richland township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 1; any 3	\$71,611.21	0 total; 0 since its plan	Includes \$6,685.76 for declarations not counted as hazard incidents (DR-4506-PA).
Solebury township	Township	Plan 109112 approved 2026-08-10, pending adoption here; not yet eligible	FMA RL 10, SRL 13; any 42	\$791,163.35	6 total; no approved plan	
Springfield township	Township	Approved, expires 2026-10-03	FMA RL 1, SRL 2; any 4	\$196,508.10	0 total; 0 since its plan	
Tinicum township	Township	Approved, expires 2026-10-03	FMA RL 23, SRL 21; any 70	\$598,998.33	1 total; 0 since its plan	
Upper Makefield township	Township	Approved, expires 2026-10-03	FMA RL 29, SRL 30; any 73	\$96,379.76	0 total; 0 since its plan	
Upper Southampton township	Township	Approved, expires 2026-10-03	FMA RL 3, SRL 1; any 9	\$913,978.74	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>	
Warminster township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 1; any 9	\$238,116.01	16 total; 2 since its plan	Includes \$14,043.85 for declarations not counted as hazard incidents (DR-4506-PA).
Warrington township	Township	Approved, expires 2026-10-03	FMA RL 2, SRL 3; any 18	\$207,814.45	10 total; 0 since its plan	Includes \$13,867.45 for declarations not counted as hazard incidents (DR-4506-PA).
Warwick township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 1; any 2	\$249,336.27	0 total; 0 since its plan	Includes \$15,706.68 for declarations not counted as hazard incidents (DR-4506-PA).
West Rockhill township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 2; any 3	\$19,067.13	0 total; 0 since its plan	
Wrightstown township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 2	\$34,227.37	3 total; 0 since its plan	Includes \$13,130.73 for declarations not counted as hazard incidents (DR-4506-PA).

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

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

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.

Plan 109112 was approved by FEMA on 2026-08-10 but is not yet adopted here, so no since-plan counts are given.

- 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 plan <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche	\$126,574	n/a	under 1	under \$1	n/a	\$42	under 0.0001 %				
Coastal Flooding	\$524,819,497	n/a	1,438	\$903,574	n/a	\$18,281	0.172 %				
Cold Wave	\$178,195,351,244	\$97,543,026	646,216	\$682	\$24	\$9,302,520	under 0.0001 %				
Drought	n/a	\$64,635,353	n/a	n/a	\$926,102	n/a	1.43 % (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$301,177,945,671	n/a	646,538	\$10,259,135	n/a	\$3,016,787	0.00341 %				
Hail	\$178,195,351,244	\$97,543,026	646,216	\$103,827	\$82,547	\$28,611	under 0.0001 %				
Heat Wave	\$178,195,351,244	\$97,543,026	646,216	\$10	\$444	\$7,494,437	under 0.0001 %				
Hurricane	\$178,146,507,117	\$97,536,824	645,874	\$6,507,956	\$245,434	\$205,527	0.00365 %				
Ice Storm	\$178,124,595,557	n/a	645,558	\$3,961,699	n/a	\$538,214	0.00222 %				
Inland Flooding	\$178,135,995,373	\$3,628,589	14,140	\$131,209,252	\$162,858	\$9,832,347	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	\$2,134,318,082	n/a	6,637	\$2,498	n/a	\$98	0.000117 %				
Lightning	\$178,195,351,244	n/a	646,216	\$198,073	n/a	\$1,418,052	0.000111 %				
Strong Wind	\$178,195,351,244	\$97,543,026	646,216	\$1,518,795	\$13,000	\$1,930,489	0.000852 %				

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 plan <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Tornado	\$178,195,351,244	\$97,543,026	646,216	\$5,895,071	\$1,043	\$4,417,339	0.00331%				
Wildfire	\$6,590,325,774	\$11,027,395	45,889	\$65,328	\$11	\$12,508	0.000991%				
Winter Weather	\$178,195,351,244	\$97,543,026	646,216	\$576,824	\$36	\$1,775,774	0.000324%				

Totals since the plan: not available. Plan 109112 was approved by FEMA on 2026-08-10 but is not yet adopted here, so no since-plan counts are given.

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	646,216
Building value (total, not at risk)	\$178,195,351,244
Agriculture value (total, not at risk)	\$97,543,026
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$162,634,223
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)	\$39,991,025
Social vulnerability rating	Very 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)	191	Severe repetitive loss, FMA definition (44 CFR 77.2)	245
Repetitive loss, NFIP insurance definition	788	Severe repetitive loss, NFIP insurance definition	168

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	191	245	788	168	881	78	411
of which: Bensalem township	0	11	38	10	39	0	7
of which: Bridgeton Township of	17	12	48	6	55	6	25
of which: Bristol Borough of (community ID not in plan data)	0	1	6	1	6	0	4
of which: Boroughs of Chalfont	0	0	1	0	1	0	0
of which: Doylestown township	0	0	3	0	3	0	2
of which: Durham Township of	6	6	17	6	17	1	8
of which: Falls township	0	2	7	2	7	0	2
of which: Hulmeville Borough of	1	3	13	3	13	0	4
of which: Lower Makefield township	11	17	44	8	53	8	33
of which: Lower Southampton township	2	5	20	5	21	0	8
of which: Middletown township	10	12	23	7	31	5	9
of which: Morrisville borough	0	0	1	0	1	0	0
of which: New Hope borough	8	16	83	15	84	1	32
of which: Nockamixon township	3	1	4	1	4	0	1
of which: Perkasio borough	1	5	5	5	5	0	5
of which: Plumstead township	4	3	12	3	12	1	2
of which: Quakertown borough	1	2	9	1	9	0	4
of which: Riegelsville borough	4	0	40	0	40	0	23
of which: Solebury township	10	13	41	12	42	1	18
of which: Sellersville borough	0	5	13	5	13	0	6
of which: Springfield township	1	2	4	2	4	0	1
of which: Tinicum township	23	21	64	15	70	6	17

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: Upper Makefield township	29	30	61	20	73	12	44
of which: Warrington township	2	3	17	3	18	0	10
of which: Warwick township	0	1	2	1	2	0	1
of which: Yardley borough	48	57	128	23	168	33	118
of which: Bristol township	1	3	24	3	25	0	7
of which: Buckingham township	0	0	5	0	5	0	1
of which: New Britain township	0	0	1	0	1	0	0
of which: Northampton township	2	6	15	6	15	0	7
of which: Upper Southampton township	3	1	6	0	9	2	3
of which: Warminster township	0	1	9	1	9	0	4
of which: Wrightstown township	0	0	2	0	2	0	0
of which: Langhorne borough	3	3	4	1	6	2	0
of which: Newtown township	0	0	1	0	1	0	1
of which: Richland township	0	1	3	1	3	0	1
of which: West Rockhill township	0	2	3	2	3	0	1
of which: Haycock township	0	0	1	0	1	0	1
of which: Doylestown borough	1	0	3	0	3	0	1
of which: Langhorne Manor borough	0	0	2	0	2	0	0
of which: Milford township	0	0	4	0	4	0	0
of which: Unknown (community ID Unknown in FEMA data)	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>	Note
Bristol borough	420984	1	3	24	3	25	0	7	shared NFIP community; count covers the joint community
Chalfont borough	420184	0	0	1	0	1	0	0	
Doylestown borough	421410	1	0	3	0	3	0	1	
Dublin borough	422676	0	0	0	0	0	0	0	
Hulmeville borough	420190	1	3	13	3	13	0	4	
Ivyland borough	422677	0	0	0	0	0	0	0	
Langhorne borough	421074	3	3	4	1	6	2	0	
Langhorne Manor borough	422336	0	0	2	0	2	0	0	
Morrisville borough	420194	0	0	1	0	1	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>	Note
New Britain borough	420986	0	0	0	0	0	0	0	
New Hope borough	420195	8	16	83	15	84	1	32	
Newtown borough	420196	0	0	0	0	0	0	0	
Penndel borough	422678	0	0	0	0	0	0	0	
Perkasie borough	420198	1	5	5	5	5	0	5	
Quakertown borough	420200	1	2	9	1	9	0	4	
Richlandtown borough	422679	0	0	0	0	0	0	0	
Riegelsville borough	420201	4	0	40	0	40	0	23	
Sellersville borough	420203	0	5	13	5	13	0	6	
Silverdale borough	422338	0	0	0	0	0	0	0	
Telford borough	422339	0	0	0	0	0	0	0	
Trumbauersville borough	422681	0	0	0	0	0	0	0	
Tullytown borough	420206	0	0	0	0	0	0	0	
Yardley borough	420210	48	57	128	23	168	33	118	
Bedminster township	421049	0	0	0	0	0	0	0	
Bensalem township	420181	0	11	38	10	39	0	7	
Bridgeton township	420182	17	12	48	6	55	6	25	
Bristol township	420984	1	3	24	3	25	0	7	shared NFIP community; count covers the joint community
Buckingham township	420985	0	0	5	0	5	0	1	
Doylestown township	420185	0	0	3	0	3	0	2	
Durham township	420186	6	6	17	6	17	1	8	
East Rockhill township	420187	0	0	0	0	0	0	0	
Falls township	420188	0	2	7	2	7	0	2	
Haycock township	421127	0	0	1	0	1	0	1	
Hilltown township	420189	0	0	0	0	0	0	0	
Lower Makefield township	420191	11	17	44	8	53	8	33	
Lower Southampton township	420192	2	5	20	5	21	0	8	
Middletown township	420193	10	12	23	7	31	5	9	
Milford township	422337	0	0	4	0	4	0	0	
New Britain township	420987	0	0	1	0	1	0	0	
Newtown township	421084	0	0	1	0	1	0	1	
Nockamixon township	420197	3	1	4	1	4	0	1	
Northampton township	420988	2	6	15	6	15	0	7	
Plumstead township	420199	4	3	12	3	12	1	2	
Richland township	421095	0	1	3	1	3	0	1	

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>	Note
Solebury township	420202	10	13	41	12	42	1	18	
Springfield township	420204	1	2	4	2	4	0	1	
Tinicum township	420205	23	21	64	15	70	6	17	
Upper Makefield township	420207	29	30	61	20	73	12	44	
Upper Southampton township	420989	3	1	6	0	9	2	3	
Warminster township	420990	0	1	9	1	9	0	4	
Warrington township	420208	2	3	17	3	18	0	10	
Warwick township	420209	0	1	2	1	2	0	1	
West Rockhill township	421123	0	2	3	2	3	0	1	
Wrightstown township	421045	0	0	2	0	2	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	176	198	616	124	707	75	348
2 to 4 unit residential	3	6	35	4	37	2	13
other residential	2	8	30	8	30	0	15
non-residential	10	33	107	32	107	1	35
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 78 properties are FMA repetitive loss but not NFIP repetitive loss, and 675 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_Gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)

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). Bucks County, PA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 42017). Automated baseline. <https://hazardplain.org/pa/42017/> 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