

Bucks County, PA

Risk-assessment baseline packet

Unit **County area 42017** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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

A starting point for the plan's risk assessment (FEMA Local Mitigation Plan Review Tool, Element B). It does not replace local data or FEMA review. Section headings say which FEMA review item each table supports; whether an item is satisfied is decided by the plan and its reviewers.

OPENFEMA DISCLAIMER

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

Plan clock

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
As of	2026-09-28	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: FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API); FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API); NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>; FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

Plan status for every jurisdiction listed in this county: 57 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

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

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

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
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	5	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	5	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	5	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	5	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	5	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	5	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	5	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan. member 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	5	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
Morrisville borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	5	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	5	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.
Newtown borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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
Yardley borough	Organized Borough	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	5	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Bedminster township	Township	Approved, expires 2031-08-09	Bucks County Hazard Mitigation Plan (FEMA plan 109112)	2026-08-10	2031-08-09	1,776		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. member approved 2026-08-11
Bensalem township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	5	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Bridgeton township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	5	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	5	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	5	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	5	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	5	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Falls township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	5	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	5	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
Hilltown township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Tinicum township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	5	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	5	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
Upper Southampton township	Township	Approved, expires 2026-10-03	Bucks County Hazard Mitigation Plan (FEMA plan 107652)	2021-10-04	2026-10-03	5	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	5	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	5	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	5	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	5	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	5	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	1,776		

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

Supports B1-a: hazards

Hazards NRI does not cover: check locally

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

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

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	EAL population equivalence statistical value of life and injury, \$13.7M per life, not property damage	EAL total (see note) modeled dollars per year	Storm Events records since 1996 count	Evidence for an omission NRI Not Applicable, no declaration and no Storm Events record since 1996	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		\$3,016,787	\$13,275,921			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
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, event types the NRI definition of this hazard leaves out.
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		\$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 records and 97 Strong Wind records, event types the NRI definition of this hazard leaves out.
9	Winter Weather	Very High	Very High	\$576,824	\$36	\$1,775,774	\$2,352,634	308		Includes 5 Sleet records, event types the NRI definition of this hazard leaves out.
10	Lightning	Relatively High	Relatively High	\$198,073		\$1,418,052	\$1,616,125	65		
11	Drought	Relatively Moderate	Relatively Moderate		\$926,102		\$926,102	47		
12	Coastal Flooding	Relatively Moderate	Relatively Moderate	\$903,574		\$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		
15	Landslide	Very Low	Very Low	\$2,498		\$98	\$2,596	0		Declared 1 time; no Storm Events record of this type. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
16	Avalanche	Very Low	Very Low	under \$1		\$42	\$42	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

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

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	2 of 147
Coastal 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.	15 of 147
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	147 of 147
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	85 of 147
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	147 of 147
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	147 of 147
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	147 of 147
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	147 of 147
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	147 of 147
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.	147 of 147
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	147 of 147
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	147 of 147
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	147 of 147
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	147 of 147

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 147
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 147
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	140 of 147
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	147 of 147

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

Supports B1-c: extent

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

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	31, 1998 to 2024 (31 zone-level)		Coastal Flood, 2011-04-16, \$100,000 property; \$0 crops, reported for the zone (2011 dollars); Storm Events area BUCKS (legacy zone code PAZ069), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	32, 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		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required. Cold/ Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	3, 2007 to 2007 (3 zone-level)		No crop damage reported in 3 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Temperature: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Drought	US Drought Monitor D-scale	47, 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		Zone-level records: applies countywide; national data do not locate these events within the county.	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	103, 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 member places: 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 member places (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	105, 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		Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required. Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	3, 2008 to 2020 (3 zone-level)		Strongest recorded (records with damage, a wind speed or direct casualties first, then storm type, category and wind): Tropical Storm record, 2011-08-27 to 2011-08-28, \$700,000 property; \$0 crops, reported for the zone (2011 dollars); Storm Events area BUCKS (legacy zone code PAZ069), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.
Ice Storm	Sperry-Piltz (local data)	6, 1998 to 2022 (6 zone-level)		No damage reported in 6 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	192, 1996 to 2025 (17 zone-level)		Flood, 2005-04-03, \$40,000,000 property; crops not reported, reported for the zone (2005 dollars); Storm Events area BUCKS (legacy zone code PAZ069), zone-level: may include parts of neighboring counties		Event records naming member places: 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 member places (see the XLSX file). Zone-level records (17) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	65, 1996 to 2025		Lightning, 2014-07-02, \$500,000 property; \$0 crops (2014 dollars)		Event records naming member places: 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 member places (see the XLSX file).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	132, 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), zone-level: may include parts of neighboring counties	High Wind, 2003-09-18, \$5,010,000 property; crops not reported, reported for the zone (2003 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	505, 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 member places: 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 member places (see the XLSX file).	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Tornado	Enhanced Fujita (F before Feb 2007)	29, 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 member places: 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).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	4, 2002 to 2006 (4 zone-level)		Wildfire, 2006-03-30, \$100,000 property; crops not reported, reported for the zone (2006 dollars); Storm Events area BUCKS (legacy zone code PAZ069), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	308, 1996 to 2026 (308 zone-level)		Winter Storm, 2010-02-09, \$5,000,000 property; \$0 crops, reported for the zone (2010 dollars); Storm Events area BUCKS (legacy zone code PAZ069), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

Where a hazard names more than 10 member places, the table lists the 10 with the most records; every place is in the XLSX file, sheet "B1-c Extent".

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

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

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Supports B1-d: previous occurrences

Declaration rows 27 Counted incidents 20

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

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2021-09-10	2021-08-31	DR-4618-PA	Major disaster	REMNANTS OF HURRICANE IDA	Hurricane	\$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	none found		same incident as DR-4506
2016-03-23	2016-01-22	DR-4267-PA	Major disaster	SEVERE WINTER STORM AND SNOWSTORM	Winter Weather	\$2,662,475.60		
2014-02-06	2014-02-04	EM-3367-PA	Emergency	SEVERE WINTER STORM	Ice Storm	none found		
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	none found		same incident as DR-4099
2011-09-12	2011-09-03	DR-4030-PA	Major disaster	TROPICAL STORM LEE	Inland Flooding (primary); also designated: Hurricane	\$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	none found		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	none found		same incident as DR-4025
2006-06-30	2006-06-23	DR-1649-PA	Major disaster	SEVERE STORMS, FLOODING, AND MUDSLIDES	Inland Flooding; Landslide	\$1,445,915.96		
2005-09-10	2005-08-29	EM-3235-PA	Emergency	HURRICANE KATRINA	Hurricane: evacuation support, not a local hazard event; not counted	none found		
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		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2004-09-19	2004-09-08	DR-1555-PA	Major disaster	SEVERE STORMS AND FLOODING ASSOCIATED WITH TROPICAL DEPRESSION FRANCES	Hurricane; Inland Flooding; designated for Hazard Mitigation only (no Public or Individual Assistance for this county); not counted	PA not declared for this county		
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	none found		
1996-01-13	1996-01-06	DR-1085-PA	Major disaster	BLIZZARD OF 96	Winter Weather	none found		
1994-03-10	1994-01-04	DR-1015-PA	Major disaster	SEVERE WINTER STORMS	Winter Weather	none found		
1993-03-16	1993-03-13	EM-3105-PA	Emergency	SEVERE SNOWFALL & WINTER STORM	Winter Weather	none found		
1973-07-17	1973-07-17	DR-400-PA	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1972-06-23	1972-06-23	DR-340-PA	Major disaster	TROPICAL STORM AGNES	Inland Flooding (primary); also designated: Hurricane	none found		
1971-09-18	1971-09-18	DR-312-PA	Major disaster	FLOODS	Inland Flooding	none found		
1965-08-18	1965-08-18	DR-206-PA	Major disaster	WATER SHORTAGE	Drought	none found		

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

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

SOURCES

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

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

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

Statewide declarations

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
2003-08-23	2003-07-21	DR-1485-PA	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado		
1959-01-23	1959-01-23	DR-89-PA	Major disaster	FLOODS	Inland Flooding		
1956-08-09	1956-08-09	DR-61-PA	Major disaster	STORM	Hazard not mapped (severe storm title names no single hazard); not counted		
1956-05-21	1956-05-21	DR-58-PA	Major disaster	SEVERE STORM	Hazard not mapped (severe storm title names no single hazard); not counted		
1956-03-15	1956-03-15	DR-51-PA	Major disaster	FLOOD	Inland Flooding		
1955-08-20	1955-08-20	DR-40-PA	Major disaster	FLOODS & RAINS	Inland Flooding		

FEMA recorded these with designated area Statewide and no county. Listed on every county page in the state; not counted with county rows.

SOURCEFEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)**Previous occurrences by hazard, with explicit no-event rows**

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0			0	0		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, event types the NRI definition of this hazard leaves out.
Drought	47			0	1		1996 to 2026-06-30	
Earthquake	0			0	0			No Storm Events record; local data required (e.g., USGS).
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 records and 97 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	29			2	0		1950 to 2026-06-30	
Tsunami	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	4			0	0		1996 to 2026-06-30	
Winter Weather	308			38	4		1996 to 2026-06-30	Includes 5 Sleet records, event types the NRI definition of this hazard leaves out.

SOURCESNOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
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, reported for the zone (2012 dollars)	0, 2	Storm Events area BUCKS (legacy zone code PAZ069), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2011-08-27	Tropical Storm		\$700,000 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	Storm Events area BUCKS (legacy zone code PAZ069), zone-level: may include parts of neighboring counties		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2010-02-09	Winter Storm		\$5,000,000 property; \$0 crops, reported for the zone (2010 dollars)	0, 0	Storm Events area BUCKS (legacy zone code PAZ069), zone-level: may include parts of neighboring counties		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, reported for the zone (2005 dollars)	0, 0	Storm Events area BUCKS (legacy zone code PAZ069), zone-level: may include parts of neighboring counties		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: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2002-08-11	Heat		damage not reported	0, 0	Storm Events area BUCKS (legacy zone code PAZ069), zone-level: may include parts of neighboring counties		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: may include parts of neighboring counties		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 XLSX file, sheet "B1-d Storm Events history" (1,565 rows).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

SOURCES

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

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

State-declared emergencies are not in federal data. Add them from your state emergency management agency.

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1994 to 2023 (30 years)	see B1-f	0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events.
Coastal Flooding	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	event-days in 13 of 30 years, 1996 to 2025 (43.3%)	17	2005-11-12 to 2024-11-12 (19 years)	countywide	Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	3.94	event-days per year	about 3.94 days per year	Likely	event-days in 10 of 30 years, 1996 to 2025 (33.3%)	140	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 3.94 drought event-days a year here (its annualized frequency over 25.25 years; not its event count divided by the years), but Storm Events has a record in only 10 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Earthquake	0.00164	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	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.
Hail	2.63	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	event-days in 25 of 30 years, 1996 to 2025 (83.3%)	116	2005-11-12 to 2024-11-12 (19 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
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 counted separately in B1-d and need not match.
Ice Storm	1.43	event-days per year	about 1.43 days per year	Likely	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	96	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 1.43 ice storm event-days a year here (its annualized frequency over 67 years; not its event count divided by the years), but Storm Events has a record in only 5 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Inland Flooding	4.43	event-days per year	about 4.43 days per year	Highly likely	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	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
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	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.

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
Winter Weather	12.3	event-days per year	about 12.3 days per year	Highly likely	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) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county, which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Descriptor scale used in this packet (defined per unit)

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

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Intensity bands: historical frequency (Storm Events)

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	39	30	1.3
Hail	2.00 in+	1996 to 2025	3	30	0.1
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	391	30	13
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	6	30	0.2
Strong Wind (Thunderstorm Wind records)	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

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

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	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	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	85 of 147	67.8	83.0	95.2	Relatively Moderate 5, Relatively Low 45, Very Low 35, No Rating 62	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally.
Earthquake	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	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Heat Wave	147 of 147	1.4	54.3	83.7	Relatively Moderate 72, Relatively Low 73, Very Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	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	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	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	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	147 of 147	19.9	54.2	82.2	Relatively Moderate 72, Relatively Low 74, Very Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	147 of 147	25.4	48.1	71.0	Relatively Moderate 41, Relatively Low 103, Very Low 3	
Tsunami	0 of 147				Not Applicable 147	
Volcanic Activity	0 of 147				Not Applicable 147	
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	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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

SOURCE

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

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat- flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Bucks County	County	Plan 109112 approved 2026-08-10, pending adoption here; not yet eligible		\$17,915,644.90	0; no approved plan	No NFIP community ID on this member's plan row. Includes \$15,892,505.39 for declarations not counted as hazard incidents (DR-4506-PA).

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Bristol borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 1, SRL 3; any 25	\$118,368.39	20; 2	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; 1	
Doylestown borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 1, SRL 0; any 3	\$34,720.47	17; 0	
Dublin borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$24,039.33	11; 3	
Hulmeville borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 1, SRL 3; any 13	\$12,471.59	5; 0	
Ivyland borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$3,327.05	2; 0	
Langhorne borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 3, SRL 3; any 6	none found	40; 2	
Langhorne Manor borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 2	\$2,805	6; 3	
Morrisville borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 1	\$167,246.54	15; 2	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; 1	
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; 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; 3	
Penndel borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$35,088.74	2; 0	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; 0	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; 3	
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; no approved plan	
Riegelsville borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 4, SRL 0; any 40	\$62,307.01	10; 1	
Sellersville borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 5; any 13	\$202,918.10	12; 0	

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Silverdale borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	none found	10; 1	
Telford borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	none found	6; 0	
Trumbauersville borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$2,355.45	13; 2	
Tullytown borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$42,358.30	11; 1	
Yardley borough	Organized Borough	Approved, expires 2026-10-03	FMA RL 48, SRL 57; any 168	\$328,986.06	12; 3	
Bedminster township	Township	Approved, expires 2031-08-09	FMA RL 0, SRL 0; any 0	\$35,514.45	8; 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 2026-10-03	FMA RL 0, SRL 11; any 39	\$1,014,460.04	0; 0	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; 0	
Bristol township	Township	Approved, expires 2026-10-03	FMA RL 1, SRL 3; any 25	\$266,198.91	20; 2	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; 0	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; 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; 2	
East Rockhill township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$18,159.39	0; 0	
Falls township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 2; any 7	\$96,493.77	0; 0	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; 0	
Hilltown township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 0	\$174,649.78	5; 0	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; 0	Includes \$40,174.64 for declarations not counted as hazard incidents (DR-4506-PA).

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Lower Southampton township	Township	Approved, expires 2026-10-03	FMA RL 2, SRL 5; any 21	\$375,407.33	0; 0	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; 0	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; 0	
New Britain township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 1	\$254,901.02	12; 1	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; 3	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; 0	
Northampton township	Township	Approved, expires 2026-10-03	FMA RL 2, SRL 6; any 15	\$336,734.60	0; 0	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; 0	
Richland township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 1; any 3	\$71,611.21	0; 0	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; no approved plan	
Springfield township	Township	Approved, expires 2026-10-03	FMA RL 1, SRL 2; any 4	\$196,508.10	0; 0	
Tinicum township	Township	Approved, expires 2026-10-03	FMA RL 23, SRL 21; any 70	\$598,998.33	1; 0	
Upper Makefield township	Township	Approved, expires 2026-10-03	FMA RL 29, SRL 30; any 73	\$96,379.76	0; 0	
Upper Southampton township	Township	Approved, expires 2026-10-03	FMA RL 3, SRL 1; any 9	\$913,978.74	0; 0	
Warminster township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 1; any 9	\$238,116.01	16; 2	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; 0	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; 0	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; 0	
Wrightstown township	Township	Approved, expires 2026-10-03	FMA RL 0, SRL 0; any 2	\$34,227.37	3; 0	Includes \$13,130.73 for declarations not counted as hazard incidents (DR-4506-PA).

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

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

SOURCES

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Supports B2-a and B2-b: assets and impacts

Local data required

County-level starter. The plan must describe impacts for each participant and its own assets.

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 participant per hazard
- Changes in development in hazard-prone areas since the last approval, or a statement of none (E1-a)
 - Future assets

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since plan <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche	\$126,574		under 1	under \$1		\$42	under 0.0001%				
Coastal Flooding	\$524,819,497		1,438	\$903,574		\$18,281	0.172%				
Cold Wave	\$178,195,351,244	\$97,543,026	646,216	\$682	\$24	\$9,302,520	under 0.0001%				
Drought		\$64,635,353			\$926,102		1.43% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$301,177,945,671		646,538	\$10,259,135		\$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		645,558	\$3,961,699		\$538,214	0.00222%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since plan <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
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. EAL as % of exposure: n/a.
Landslide	\$2,134,318,082		6,637	\$2,498		\$98	0.000117%				
Lightning	\$178,195,351,244		646,216	\$198,073		\$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%				
Tornado	\$178,195,351,244	\$97,543,026	646,216	\$5,895,071	\$1,043	\$4,417,339	0.00331%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
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.

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

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

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

SOURCES

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

https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

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

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

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

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

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

Supports B2-a: context

County context

Measure	Value
Population	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 total adds buildings, agriculture and population equivalence; the two parts are shown separately so the property figure is not read as including the statistical value of life.

SOURCE

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

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	191	Severe repetitive loss, FMA definition (44 CFR 77.2)	245
Repetitive loss, NFIP insurance definition	788	Severe repetitive loss, NFIP insurance definition	168

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

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties: county and state-level rows

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	191	245	788	168	881	78	411
BENSALEM, TOWNSHIP OF	0	11	38	10	39	0	7
BRIDGETON TOWNSHIP OF	17	12	48	6	55	6	25
BRISTOL BOROUGH OF (community ID not in plan data)	0	1	6	1	6	0	4
CHALFONT, BOROUGHES OF	0	0	1	0	1	0	0

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>
DOYLESTOWN, TOWNSHIP OF	0	0	3	0	3	0	2
DURHAM TOWNSHIP OF	6	6	17	6	17	1	8
FALLS, TOWNSHIP OF	0	2	7	2	7	0	2
HULMEVILLE BOROUGH OF	1	3	13	3	13	0	4
LOWER MAKEFIELD, TOWNSHIP OF	11	17	44	8	53	8	33
LOWER SOUTHAMPTON, TOWNSHIP OF	2	5	20	5	21	0	8
MIDDLETOWN, TOWNSHIP OF	10	12	23	7	31	5	9
MORRISVILLE, BOROUGH OF	0	0	1	0	1	0	0
NEW HOPE, BOROUGH OF	8	16	83	15	84	1	32
NOCKAMIXON, TOWNSHIP OF	3	1	4	1	4	0	1
PERKASIE, BOROUGH OF	1	5	5	5	5	0	5
PLUMSTEAD, TOWNSHIP OF	4	3	12	3	12	1	2
QUAKERTOWN, BOROUGH OF	1	2	9	1	9	0	4
RIEGELSVILLE, BOROUGH OF	4	0	40	0	40	0	23
SOLEBURY, TOWNSHIP OF	10	13	41	12	42	1	18
SELLERSVILLE, BOROUGH OF	0	5	13	5	13	0	6
SPRINGFIELD, TOWNSHIP OF	1	2	4	2	4	0	1
TINICUM, TOWNSHIP OF	23	21	64	15	70	6	17
UPPER MAKEFIELD, TOWNSHIP OF	29	30	61	20	73	12	44
WARRINGTON, TOWNSHIP OF	2	3	17	3	18	0	10
WARWICK, TOWNSHIP OF	0	1	2	1	2	0	1
YARDLEY, BOROUGH OF	48	57	128	23	168	33	118
BRISTOL, TOWNSHIP OF	1	3	24	3	25	0	7
BUCKINGHAM, TOWNSHIP OF	0	0	5	0	5	0	1
NEW BRITAIN, TOWNSHIP OF	0	0	1	0	1	0	0
NORTHAMPTON, TOWNSHIP OF	2	6	15	6	15	0	7
UPPER SOUTHAMPTON, TOWNSHIP OF	3	1	6	0	9	2	3
WARMINSTER, TOWNSHIP OF	0	1	9	1	9	0	4
WRIGHTSTOWN, TOWNSHIP OF	0	0	2	0	2	0	0
LANGHORNE, BOROUGH OF	3	3	4	1	6	2	0
NEWTOWN, TOWNSHIP OF	0	0	1	0	1	0	1
RICHLAND, TOWNSHIP OF	0	1	3	1	3	0	1
WEST ROCKHILL, TOWNSHIP OF	0	2	3	2	3	0	1
HAYCOCK, TOWNSHIP OF	0	0	1	0	1	0	1
DOYLESTOWN, BOROUGH OF	1	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>
LANGHORNE MANOR, BOROUGH OF	0	0	2	0	2	0	0
MILFORD, TOWNSHIP OF	0	0	4	0	4	0	0
Unknown (community ID Unknown in FEMA data)	0	0	1	0	1	0	0
State level, not in this county: county not reported	0	0	1	0	1	0	0

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties by plan member (NFIP community)

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

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

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

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

SOURCES

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

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

County repeat-flood properties by occupancy group

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

Institutional properties cannot be separated in this data: FEMA's occupancy groups have no institutional class, so they fall in non-residential or other residential in the table by occupancy group.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

FMA RL and FMA SRL are the Flood Mitigation Assistance definitions (44 CFR 77.2), the ones the FEMA Local Mitigation Planning Policy Guide cites; OpenFEMA's fmaRI field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRI) is 2 or more claims over \$1,000 in 10 years and can drop to false when a property is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured.

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

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

Counts may differ from your state NFIP coordinator's list, which is the source the Handbook names.

In this county 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

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

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

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

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Cite this: Hazard Plain (2026). Bucks County, PA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 42017). Preview: automated baseline. Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_PA_42017. Preview: automated baseline.