

Philadelphia County, PA

Risk-assessment baseline packet

County FIPS: 42101 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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Summary

Plan status as of 2026-09-30: Approved, expires 2031-06-03. Plan: City of Philadelphia Hazard Mitigation Plan (FEMA plan 110755), approved 2026-06-04. Since the plan was approved on 2026-06-04: no new hazard declaration and 17 NOAA Storm Events records; details under "What changed since your last plan". Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$266,057,136 a year), Heat Wave (\$256,419,434) and Cold Wave (\$57,040,490). 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; 42101 is this area.
D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).
F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.
kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.
CFR: Code of Federal Regulations.
A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).
Dollars: nominal (as reported, labeled with the year), not adjusted for inflation.

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Plan clock

Status:	Approved, expires 2031-06-03	Plan:	City of Philadelphia Hazard Mitigation Plan (FEMA plan 110755)
Approved:	2026-06-04	Days to expiry:	1,707

Also approved under plan 108236 (City of Philadelphia Hazard Mitigation Plan, expires 2027-05-18). 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.

Plan clock from the consolidated city-county government plan (Philadelphia city). FEMA plan data has no separate county-level row for this county.

What changed since your last plan (approved 2026-06-04)

New federal declarations:

none

Repetitive loss now:

FMA RL 4, SRL 35 (44 CFR 77.2); any definition: 142

Storm Events records since approval:

17 records (data through 2026-06-30)

Repeat-flood change:

this release sets the baseline count.

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

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Notes
Philadelphia city	City	Approved, expires 2031-06-03	City of Philadelphia Hazard Mitigation Plan (FEMA plan 110755)	2026-06-04	2031-06-03	1,707	Also approved under plan 108236 (City of Philadelphia Hazard Mitigation Plan, expires 2027-05-18). 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.

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

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	Very High	Relatively High	\$262,808,562	\$565	\$3,248,009	\$266,057,136	246	
2	Heat Wave	Very High	Very High	\$1,316	\$10	\$256,418,109	\$256,419,434	137	
3	Cold Wave	Very High	Very High	\$12,115	under \$1	\$57,028,375	\$57,040,490	33	Includes 1 Frost/Freeze record (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
4	Earthquake	Relatively High	Relatively High	\$24,823,117	n/a	\$16,806,461	\$41,629,578		Storm Events does not record earthquakes.
5	Tornado	Relatively High	Relatively High	\$6,605,994	\$5	\$14,496,551	\$21,102,550	6	
6	Hurricane	Relatively High	Relatively High	\$11,522,453	\$1,537	\$496,730	\$12,020,719	3	
7	Strong Wind	Relatively High	Relatively High	\$640,350	\$1	\$2,860,443	\$3,500,793	427	Includes 41 High Wind and 104 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
8	Coastal Flooding	Relatively High	Relatively High	\$2,618,897	n/a	\$182,935	\$2,801,833	58	
9	Hail	Relatively High	Relatively Moderate	\$2,003,804	\$144	\$51,189	\$2,055,138	37	
10	Winter Weather	Very High	Very High	\$192,166	under \$1	\$1,743,016	\$1,935,182	207	Includes 5 Sleet records (outside NRI's Winter Weather definition).
11	Lightning	Relatively High	Relatively High	\$12,252	n/a	\$1,488,047	\$1,500,298	11	
12	Ice Storm	Relatively High	Relatively High	\$411,084	n/a	\$577,669	\$988,753	2	

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
13	Wildfire	Very Low	Very Low	\$7,330	under \$1	\$1,474	\$8,805	1	
14	Landslide	Relatively Low	Very Low	\$7,158	n/a	\$9	\$7,168	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Drought	Very Low	Very Low	n/a	\$4,120	n/a	\$4,120	46	
	Tsunami	Insufficient Data	Insufficient Data	n/a	n/a	n/a	n/a	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

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

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

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: avalanche 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>
Earthquake	tract 153 (Relatively Moderate, 88.0); tract 191 (Relatively Moderate, 84.3); tract 330 (Relatively Moderate, 83.8)
Hurricane	tract 369.02 (Relatively Moderate, 87.2); tract 153 (Relatively Moderate, 84.4); tract 4.04 (Relatively Low, 78.0)
Landslide	tract 386 (Relatively Low, 93.0); tract 220 (Relatively Low, 91.6); tract 216 (Relatively Low, 89.7)
Tornado	tract 369.02 (Relatively High, 81.5); tract 153 (Relatively High, 77.4); tract 355 (Relatively Moderate, 69.4)
Tsunami	no tract has a National Risk Index rating for this hazard
Wildfire	tract 352 (Relatively Low, 73.4); tract 122.04 (Relatively Low, 72.9); tract 362.01 (Very Low, 64.4)

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 153 is Census Tract 153). 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
Coastal Flood, Storm Surge/ Tide	none in data (flood depth: FIRM)	58 records, 1996 to 2024 (58 zone-level)		Coastal Flood, 2011-04-16, \$100,000 property; \$0 crops (2011 dollars); NWS zone PAZ071		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 1 day); 27 with a recorded value	16 consecutive days, 2003-01-14 to 2003-01-29, 3 direct deaths, zone-level	Cold/Wind Chill, 2015-02-20, \$250,000 property; \$0 crops (zone total, 2015 dollars)	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	1 record, 2007 (1 zone-level)		No crop damage reported in 1 record.		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	46 records, 1997 to 2010 (46 zone-level)	1 day to 385 days (median 11 days); 18 with a recorded value	385 days (about 12.6 months), 2001-11-06 to 2002-11-25, a run of 15 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)	45 records, 1978 to 2023	0.75 in to 1.75 in (median 0.88 in); 45 with a recorded value	1.75 in hail, 2009-03-29; same size also recorded on 1978-08-11, 1994-06-29, 1995-05-29, 2006-08-25		Event records naming jurisdictions in the plan: Philadelphia city (18 records).	
Excessive Heat, Heat	heat index (in event narratives)	137 records, 1996 to 2026 (137 zone-level)	1 day to 10 days (median 2 days); 111 with a recorded value	10 consecutive days, 2002-08-11 to 2002-08-20, 8 direct deaths, zone-level	Excessive Heat, 2011-06-08, \$25,000 property; \$0 crops (zone total, 2011 dollars)	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.
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, \$10,000 property; \$0 crops (2011 dollars); NWS zone PAZ071		Countywide (zone-level records).	Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Ice Storm	Sperry-Piltz ice scale (local data)	2 records, 2011 to 2014 (2 zone-level)		No damage reported in 2 records.		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	246 records, 1996 to 2026 (20 zone-level)		Flash Flood, 2021-09-01, \$60,000,000 property; \$0 crops (2021 dollars)		Event records naming jurisdictions in the plan: Philadelphia city (34 records). Zone-level records (20) 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)	11 records, 1999 to 2014		Lightning, 2009-08-02, \$100,000 property; \$0 crops (2009 dollars)		Event records naming jurisdictions in the plan: Philadelphia city (5 records).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	145 records, 1996 to 2026 (145 zone-level)	29 kt (33 mph) to 61 kt (70 mph) (median 42 kt (48 mph)); 116 with a recorded value	61 kt (70 mph) measured gust, High Wind, 2012-10-29; NWS zone PAZ071	High Wind, 2003-09-18, \$3,020,000 property; crops not reported (zone total, 2003 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	339 records, 1969 to 2026	43 kt (49 mph) to 87 kt (100 mph) (median 51 kt (59 mph)); 299 with a recorded value	87 kt (100 mph), measurement type not recorded, Thunderstorm Wind, 1992-08-11	Thunderstorm Wind, 1994-06-19, \$5,000,000 property; crops not recorded (1994 dollars)	Event records naming jurisdictions in the plan: Philadelphia city (78 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	12 records, 1958 to 2021	F/EF0 to F/EF3 (median between F/EF1 and F/EF2); 12 with a recorded value	EF3 tornado, 2021-07-29, 0.62 mi within this county, 530 yd wide, property not reported; \$0 crops (2021 dollars)	Tornado, 1991-08-03, \$2,500,000 property; crops not recorded (1991 dollars)	Event records naming jurisdictions in the plan: Philadelphia city (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).
Tsunami	none (count and damage only)	0					

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Wildfire	acres burned (local data)	1 record, 2002 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	207 records, 1996 to 2026 (207 zone-level)		Winter Storm, 2003-02-16, \$4,000,000 property; crops not reported (2003 dollars), 2 direct deaths, 1 direct injury (reported for the zone); NWS zone PAZ071		Countywide (zone-level records).	

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

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: 25 declarations covering 18 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Notes
2021-09-10	2021-08-31	DR-4618-PA	Major disaster	Remnants of Hurricane Ida	Hurricane	\$6,369,013.81	
2020-03-30	2020-01-20	DR-4506-PA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$207,580,025.47	
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	\$7,727,794.43	
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	\$2,233,706.80	
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	\$141,597.24	FEMA's declaration record does not list Public Assistance, but FEMA's PA project summaries show obligations for this county
2011-09-08	2011-09-03	EM-3340-PA	Emergency	Remnants of Tropical Storm Lee	Inland Flooding (primary); also designated: Hurricane	\$301,818.34	same incident as DR-4030
2011-09-03	2011-08-26	DR-4025-PA	Major disaster	Hurricane Irene	Hurricane	\$4,775,537.27	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Notes
						<i>federal share obligated, nominal dollars</i>	
2011-08-29	2011-08-26	EM-3339-PA	Emergency	Hurricane Irene	Hurricane	no Public Assistance recorded	same incident as DR-4025
2010-04-16	2010-02-05	DR-1898-PA	Major disaster	Severe Winter Storms and Snowstorms	Winter Weather	\$7,476,703.74	
2005-09-10	2005-08-29	EM-3235-PA	Emergency	Hurricane Katrina	Hurricane: evacuation support, not a local hazard event; not counted	\$3,120,197.10	
2004-09-19	2004-09-17	DR-1557-PA	Major disaster	Tropical Depression Ivan	Hurricane	PA not declared for this county	
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	
2004-08-06	2004-07-27	DR-1538-PA	Major disaster	Severe Storms and Flooding	Inland Flooding	PA not declared for this county	
2003-03-14	2003-02-14	EM-3180-PA	Emergency	Snow	Winter Weather	\$4,832,498.94	
1999-09-18	1999-09-16	DR-1294-PA	Major disaster	Hurricane Floyd Major Disaster Declarations	Hurricane	\$1,511,337.51	
1996-01-21	1996-01-19	DR-1093-PA	Major disaster	Severe Storms and Flooding	Inland Flooding	PA not declared for this county	
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	
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.

Public Assistance filed under this county for declarations that do not list it: 1 row, \$4,317,276.81

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-1383-PA	2001-06-21	Tropical Storm Allison	Southeastern Pennsylvania Transportation Authority (Philadelphia County)	\$4,317,276.81

FEMA's Public Assistance summaries file these applicants under this county, but FEMA's declaration rows for these disasters do not designate it (an electric cooperative or district serving several counties, for example). Not in any declaration row above and not counted.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval records	In the 12 months before plan approval records	Last 5 years records	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Coastal Flooding	58	0	0	10	0	0	1996 to 2026-06-30	
Cold Wave	33	0	0	1	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record.
Drought	46	0	0	0	1	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	45	0	0	6	0	0	1955 to 2026-06-30	
Heat Wave	137	1	5	13	0	0	1996 to 2026-06-30	
Hurricane	3	0	0	0	7	0	1996 to 2026-06-30	
Ice Storm	2	0	0	0	1	0	1996 to 2026-06-30	

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
Inland Flooding	246	6	13	37	5	0	1996 to 2026-06-30	
Landslide	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	11	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	484	10	17	65	0	0	1955 to 2026-06-30	Includes 41 High Wind and 104 Strong Wind records.
Tornado	12	0	0	0	0	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	1	0	0	0	0	0	1996 to 2026-06-30	
Winter Weather	207	0	7	24	6	0	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	Why listed
2021-09-01	Flash Flood		\$60,000,000 property; \$0 crops (2021 dollars)	0, 0	WAYNE JCT to ROXBOROUGH	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2021-07-29	Tornado	EF3, 0.62 mi within this county, 530 yd wide	property not reported; \$0 crops (2021 dollars)	0, 0	BYBERRY	B1-c worst recorded: Tornado
2012-10-29	High Wind	61 kt (70 mph) measured gust	\$400,000 property; \$0 crops (zone total, 2012 dollars)	0, 0	NWS zone PAZ071 (PHILADELPHIA), zone-level	B1-c worst recorded: High Wind and Strong Wind
2011-08-27	Tropical Storm		\$10,000 property; \$0 crops (zone total, 2011 dollars)	0, 0	NWS zone PAZ071 (PHILADELPHIA), zone-level	B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2011-07-21	Excessive Heat		\$0 property; \$0 crops (zone total, 2011 dollars)	22, 48	NWS zone PAZ071 (PHILADELPHIA), zone-level	deaths or injuries recorded
2011-04-16	Coastal Flood		\$100,000 property; \$0 crops (zone total, 2011 dollars)	0, 0	NWS zone PAZ071 (PHILADELPHIA), zone-level	B1-c worst recorded: Coastal Flood, Storm Surge/Tide
2009-03-29	Hail	1.75 in	\$0 property; \$0 crops (2009 dollars)	0, 0	TORRESDALE	B1-c worst recorded: Hail
2003-01-14	Cold/Wind Chill		damage not reported	3, 0	NWS zone PAZ071 (PHILADELPHIA), zone-level	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2002-08-11	Heat		damage not reported	8, 0	NWS zone PAZ071 (PHILADELPHIA), zone-level	B1-c worst recorded: Excessive Heat, Heat
1999-07-04	Heat		damage not reported	58, 124	NWS zone PAZ071 (PHILADELPHIA), zone-level	deaths or injuries recorded
1997-07-12	Heat		damage not reported	23, 50	NWS zone PAZ071 (PHILADELPHIA), zone-level	deaths or injuries recorded
1992-08-11	Thunderstorm Wind	87 kt (100 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded	B1-c worst recorded: Thunderstorm Wind

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,285 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
Coastal Flooding	3.69	events per year at a location (modeled)	about 3.7 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	0.791	event-days per year	about 0.791 days per year	Likely	Storm Events event-days in 13 of 30 years, 1996 to 2025 (43.3%)	15	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	5.76	event-days per year	about 5.76 days per year	Likely	Storm Events event-days in 10 of 30 years, 1996 to 2025 (33.3%)	161	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00162	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.162%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	2.51	events per year	about 2.51 per year	Highly likely	FEMA annualized frequency (modeled)	95.4 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	11.1	event-days per year	about 11.1 days per year	Highly likely	Storm Events event-days in 27 of 30 years, 1996 to 2025 (90%)	125	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.092	events per year	about 1 in 11 years	Possible	FEMA annualized frequency (modeled)	16	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	1.44	event-days per year	about 1.44 days per year	Possible	Storm Events event-days in 2 of 30 years, 1996 to 2025 (6.67%)	97	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	5.82	event-days per year	about 5.82 days per year	Highly likely	Storm Events event-days in 30 of 30 years, 1996 to 2025 (100%)	163	1996 to 2023 (28 years)	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Landslide	0.0578	events per year (modeled)	about 1 in 17 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	35.7	days per year with a strike	about 35.7 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	7.04	events per year	about 7.04 per year	Highly likely	FEMA annualized frequency (modeled)	268	1986 to 2023 (38 years)	countywide	
Tornado	0.073	events per year	about 1 in 14 years	Possible	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)			Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Wildfire	0.0000915	annual probability at a location	chance a given location in the county burns in a year: 0.00915%	Possible	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	
Winter Weather	10.5	event-days per year	about 10.5 days per year	Highly likely	Storm Events event-days in 29 of 30 years, 1996 to 2025 (96.7%)	200	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	15	30	0.5
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	260	30	8.67
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	1	30	0.0333
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	7	30	0.233
Tornado	EF0-1	1996 to 2025	3	30	0.1
Tornado	EF2-3	1996 to 2025	3	30	0.1
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	
Coastal Flooding	35 of 408	69.7	85.7	98.8	Relatively High 9, Relatively Moderate 7, Relatively Low 13, Very Low 6, No Rating 373
Cold Wave	408 of 408	15.5	79.5	94.6	Relatively High 230, Relatively Moderate 153, Relatively Low 5, Very Low 20
Drought	18 of 408	66.9	72.3	83.6	Relatively Low 1, Very Low 17, No Rating 390
Earthquake	408 of 408	2.0	75.4	88.0	Relatively Moderate 145, Relatively Low 242, Very Low 21
Hail	408 of 408	1.1	45.8	84.8	Relatively Moderate 2, Relatively Low 353, Very Low 53
Heat Wave	408 of 408	1.4	98.1	99.9	Very High 324, Relatively High 62, Relatively Moderate 2, Very Low 20
Hurricane	408 of 408	22.1	62.5	87.2	Relatively Moderate 2, Relatively Low 393, Very Low 13
Ice Storm	408 of 408	0.1	36.1	78.3	Relatively Moderate 2, Relatively Low 235, Very Low 171
Inland Flooding	408 of 408	0.2	53.8	99.4	Very High 9, Relatively High 71, Relatively Moderate 159, Relatively Low 136, Very Low 33
Landslide	363 of 408	8.6	47.2	93.0	Relatively Low 16, Very Low 347, No Rating 45
Lightning	408 of 408	0.1	25.6	50.6	Relatively Moderate 5, Relatively Low 273, Very Low 130
Strong Wind	408 of 408	0.3	37.6	68.6	Relatively Moderate 20, Relatively Low 357, Very Low 31
Tornado	408 of 408	1.0	49.8	81.5	Relatively High 2, Relatively Moderate 126, Relatively Low 264, Very Low 16
Tsunami	0 of 408				Insufficient Data 408
Wildfire	73 of 408	18.5	28.1	73.4	Relatively Low 2, Very Low 71, No Rating 335
Winter Weather	408 of 408	10.9	69.5	89.2	Relatively High 63, Relatively Moderate 310, Relatively Low 23, Very Low 12

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
Philadelphia city	City	Approved, expires 2031-06-03	FMA RL 4, SRL 35; any 133	\$133,215,869.44	136 total; 0 since its plan	Also approved under plan 108236 (City of Philadelphia Hazard Mitigation Plan, expires 2027-05-18). 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 \$110,446,459 for declarations not counted as hazard incidents (DR-4506-PA, EM-3235-PA).

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

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2026-06-04 <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
Coastal Flooding	\$12,325,731,508	n/a	28,116	\$2,618,897	n/a	\$182,935	0.0212%				
Cold Wave	\$291,673,614,404	\$421,121	1,602,305	\$12,115	under \$1	\$57,028,375	under 0.0001%				
Drought	n/a	\$340,906	n/a	n/a	\$4,120	n/a	1.21% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$516,179,828,672	n/a	1,603,797	\$24,823,117	n/a	\$16,806,461	0.00481%				
Hail	\$291,673,614,404	\$421,121	1,602,305	\$2,003,804	\$144	\$51,189	0.000687%				

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 2026-06-04 <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
Heat Wave	\$291,673,614,404	\$421,121	1,602,305	\$1,316	\$10	\$256,418,109	under 0.0001%				
Hurricane	\$291,583,235,335	\$421,121	1,601,564	\$11,522,453	\$1,537	\$496,730	0.00395%				
Ice Storm	\$291,206,091,966	n/a	1,599,816	\$411,084	n/a	\$577,669	0.000141%				
Inland Flooding	\$291,554,040,317	\$11,659	10,788	\$262,808,562	\$565	\$3,248,009	n/a (see note)	\$85,000			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	\$2,267,428,590	n/a	10,067	\$7,158	n/a	\$9	0.000316%				
Lightning	\$291,673,614,404	n/a	1,602,305	\$12,252	n/a	\$1,488,047	under 0.0001%				
Strong Wind	\$291,673,614,404	\$421,121	1,602,305	\$640,350	\$1	\$2,860,443	0.00022%	\$0			
Tornado	\$291,673,614,404	\$421,121	1,602,305	\$6,605,994	\$5	\$14,496,551	0.00226%				
Tsunami	n/a	n/a	n/a	n/a	n/a	n/a					NRI publishes no building exposure for this county
Wildfire	\$1,296,906,165	\$45,409	8,352	\$7,330	under \$1	\$1,474	0.000565%				
Winter Weather	\$291,673,614,404	\$421,121	1,602,305	\$192,166	under \$1	\$1,743,016	under 0.0001%				

Totals since 2026-06-04 (Storm Events through 2026-06-30): 16 county-coded records, 7 with a damage value recorded (including \$0), \$85,000; 1 zone-level records, 0 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: no counted declaration since the plan.

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

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

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

County context

Source: 5

Measure	Value
Population	1,602,305
Building value (total, not at risk)	\$291,673,614,404
Agriculture value (total, not at risk)	\$421,121
NRI risk rating (all hazards)	Very High
Expected annual loss, buildings and agriculture, all hazards	\$311,672,980
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)	\$355,399,018
Social vulnerability rating	Very High
Community resilience rating	Relatively Moderate
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)	4	Severe repetitive loss, FMA definition (44 CFR 77.2)	35
Repetitive loss, NFIP insurance definition	141	Severe repetitive loss, NFIP insurance definition	34

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	4	35	141	34	142	0	69
of which: Philadelphia city	4	35	132	34	133	0	69
of which: Unknown (community ID Unknown in FEMA data)	0	0	9	0	9	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>
Philadelphia city	420757	4	35	132	34	133	0	69

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

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

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	1	20	96	19	97	0	49
2 to 4 unit residential	0	1	9	1	9	0	4
other residential	0	2	10	2	10	0	8
non-residential	3	12	26	12	26	0	8
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 1 property is FMA repetitive loss but not NFIP repetitive loss, and 138 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).

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Corrections: to report an error, name the packet, the table and what your records show. Contact: contact@hazardplain.org