

Richmond County, NY

Risk-assessment baseline packet

County FIPS: 36085 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 2029-05-27. Plan: New York City 2024 (FEMA plan 109731), approved 2024-05-28.

Since the plan was approved on 2024-05-28: no new hazard declaration and 28 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 (\$40,590,005 a year), Heat Wave (\$13,365,880) and Hurricane (\$6,746,571).

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; 36085 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.

CONTENTS

1. Summary and terms used, page 1
2. Plan clock, page 2
3. What changed since your last plan (approved 2024-05-28), page 2
4. B1-a: hazard identification, page 3
5. B1-b: hazard location, page 4
6. B1-c: hazard extent, page 5
7. B1-d: previous occurrences, page 7
8. B1-e: probability of future events, page 11
9. B1-f: hazards that vary across jurisdictions, page 14
10. B2-a and B2-b: vulnerability and potential impacts, page 15
11. B2-a: vulnerability (county context), page 17
12. B2-c: repetitive loss properties, page 17
13. Sources, what the plan adds, disclaimer and citation, page 18

Plan clock

Status:	Approved, expires 2029-05-27	Plan:	New York City 2024 (FEMA plan 109731)
Approved:	2024-05-28	Days to expiry:	970

Plan clock from the New York City government plan (New York city); the five boroughs share it. FEMA plan data has no county-level row for this borough.

What changed since your last plan (approved 2024-05-28)

New federal declarations:

none

Repetitive loss now:

FMA RL 15, SRL 58 (44 CFR 77.2); any definition: 2,399

Storm Events records since approval:

28 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
New York city	City	Approved, expires 2029-05-27	New York City 2024 (FEMA plan 109731)	2024-05-28	2029-05-27	970

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	Relatively Moderate	Relatively Moderate	\$40,233,504	\$118	\$356,384	\$40,590,005	69	
2	Heat Wave	Relatively High	Relatively High	\$40	\$232	\$13,365,608	\$13,365,880	9	
3	Hurricane	Relatively Moderate	Relatively Moderate	\$6,475,003	\$6,686	\$264,882	\$6,746,571	4	
4	Earthquake	Relatively Moderate	Relatively Moderate	\$4,777,473	n/a	\$1,391,476	\$6,168,949		Storm Events does not record earthquakes.
5	Cold Wave	Relatively High	Relatively High	\$348	under \$1	\$5,645,967	\$5,646,315	4	
6	Tornado	Relatively Moderate	Relatively Moderate	\$1,728,755	\$7	\$2,344,654	\$4,073,416	2	
7	Strong Wind	Relatively High	Relatively High	\$254,477	\$31	\$1,905,846	\$2,160,354	118	Includes 25 High Wind and 13 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
8	Coastal Flooding	Relatively Moderate	Relatively Moderate	\$1,851,178	n/a	\$192,213	\$2,043,390	13	
9	Hail	Relatively Low	Relatively Low	\$427,664	\$251	\$11,992	\$439,907	16	
10	Winter Weather	Relatively High	Relatively High	\$40,113	under \$1	\$295,370	\$335,484	66	
11	Lightning	Relatively Moderate	Relatively Low	\$3,087	n/a	\$303,786	\$306,873	6	
12	Ice Storm	Relatively Moderate	Relatively Moderate	\$59,116	n/a	\$91,529	\$150,645	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>	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	\$11,993	under \$1	\$1,251	\$13,245	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Drought	Very Low	Very Low	n/a	\$5,705	n/a	\$5,705	8	
15	Landslide	Very Low	Very Low	\$1,190	n/a	\$11	\$1,200	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	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 wildfire, 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 7 (Relatively Moderate, 78.3); tract 156.01 (Relatively Moderate, 77.9); tract 81 (Relatively Low, 77.5)
Hurricane	tract 273.01 (Relatively Moderate, 82.9); tract 198 (Relatively Moderate, 81.6); tract 277.02 (Relatively Moderate, 81.2)
Landslide	tract 177.01 (Relatively Low, 90.1); tract 47 (Relatively Low, 84.6); tract 33 (Relatively Low, 83.3)
Tornado	tract 273.01 (Relatively Low, 52.5); tract 112.03 (Relatively Low, 52.0); tract 277.02 (Relatively Low, 51.9)
Tsunami	no tract has a National Risk Index rating for this hazard
Wildfire	tract 291.05 (Relatively Low, 73.6); tract 112.01 (Relatively Low, 72.2); tract 132.03 (Relatively Low, 72.0)

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 7 is Census Tract 7). 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)	13 records, 1996 to 2024 (13 zone-level)		No damage reported in 13 records.		Countywide (zone-level records).	Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	4 records, 2000 to 2004 (4 zone-level)	1 day to 2 days (median 2 days); 4 with a recorded value	2 consecutive days, 2004-01-15 to 2004-01-16, zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					
Drought	U.S. Drought Monitor scale (D0 to D4)	8 records, 2002 (8 zone-level)	31 days to 214 days (median 122.5 days); 2 with a recorded value	214 days (7 months), 2002-04-01 to 2002-10-31, a run of 7 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)	18 records, 1985 to 2025	0.75 in to 1.75 in (median 0.88 in); 18 with a recorded value	1.75 in hail, 2019-05-28	Hail, 2008-06-29, \$500 property; \$0 crops (2008 dollars)	Event records naming jurisdictions in the plan: New York city (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	9 records, 1999 to 2013 (9 zone-level)	2 days to 4 days (median 3 days); 9 with a recorded value	4 consecutive days, 2010-07-04 to 2010-07-07, 2 direct deaths, zone-level		Countywide (zone-level records).	
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	4 records, 2003 to 2020 (4 zone-level)		Strongest recorded: Tropical Storm record, 2020-08-04, \$3,800,000 property; \$0 crops (2020 dollars); NWS zone NYZ074 (RICHMOND (STATEN IS.))		Countywide (zone-level records).	Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	0					
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	69 records, 1996 to 2025 (3 zone-level)		Flash Flood, 2021-09-01, \$60,000,000 property; \$0 crops (2021 dollars)		No event record names a jurisdiction in the plan. Zone-level records (3) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Debris Flow	none (count and damage only)	0					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	6 records, 1999 to 2021		Lightning, 2012-06-25, \$50,000 property; crops not reported (2012 dollars)		No event record names a jurisdiction in the plan.	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	38 records, 1996 to 2025 (38 zone-level)	29 kt (33 mph) to 73 kt (84 mph) (median 50 kt (58 mph)); 32 with a recorded value	73 kt (84 mph) measured gust, High Wind, 2018-03-02; NWS zone NYZ074 (RICHMOND (STATEN IS.))	High Wind, 2012-10-29, \$1,000,000 property; \$0 crops (zone total, 2012 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	92 records, 1988 to 2026	50 kt (58 mph) to 70 kt (81 mph) (median 52 kt (60 mph)); 82 with a recorded value	70 kt (81 mph), measurement type not recorded, Thunderstorm Wind, 1998-09-07; same speed and measurement basis also recorded on 1998-09-07	Thunderstorm Wind, 2010-09-16, \$1,700,000 property; crops not reported (2010 dollars)	No event record names a jurisdiction in the plan.	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	4 records, 1990 to 2007	F/EF0 to F/EF1 (median between F/EF0 and F/EF1); 4 with a recorded value	F1 tornado, 1995-10-28, 1.6 mi path length (whole path, pre-1996), 70 yd wide, \$500,000 property; crops not recorded (1995 dollars)		No event record names a jurisdiction in the plan.	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					
Wildfire	acres burned (local data)	0					
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	66 records, 1996 to 2026 (66 zone-level)		No damage reported in 66 records.		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 15 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Notes
2021-09-05	2021-09-01	DR-4615-NY	Major disaster	Remnants of Hurricane Ida	Hurricane	\$384,410	
2021-09-02	2021-09-01	EM-3572-NY	Emergency	Remnants of Hurricane Ida	Hurricane	no Public Assistance recorded	same incident as DR-4615
2021-08-22	2021-08-21	EM-3565-NY	Emergency	Hurricane Henri	Hurricane	no Public Assistance recorded	
2020-10-02	2020-08-04	DR-4567-NY	Major disaster	Tropical Storm Isaias	Hurricane	no Public Assistance recorded	
2020-03-20	2020-01-20	DR-4480-NY	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$36,661,233.53	
2020-03-13	2020-01-20	EM-3434-NY	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded	same incident as DR-4480
2012-10-30	2012-10-27	DR-4085-NY	Major disaster	Hurricane Sandy	Hurricane	\$3,403,708.37	
2012-10-28	2012-10-27	EM-3351-NY	Emergency	Hurricane Sandy	Hurricane	no Public Assistance recorded	same incident as DR-4085
2011-08-31	2011-08-26	DR-4020-NY	Major disaster	Hurricane Irene	Hurricane	\$636,999.60	
2011-08-26	2011-08-25	EM-3328-NY	Emergency	Hurricane Irene	Hurricane	\$9,461.16	same incident as DR-4020
2011-02-18	2010-12-26	DR-1957-NY	Major disaster	Severe Winter Storm and Snowstorm	Winter Weather	\$328,549.85	
2010-10-14	2010-09-16	DR-1943-NY	Major disaster	Severe Storms, Tornadoes, and Straight-Line Winds	Tornado (primary); also designated: Strong Wind	\$10,804.51	
2010-04-16	2010-03-13	DR-1899-NY	Major disaster	Severe Storms and Flooding	Inland Flooding	\$2,400,274.83	
2007-04-24	2007-04-14	DR-1692-NY	Major disaster	Severe Storms and Inland and Coastal Flooding	Coastal Flooding	PA not declared for this county	
2005-09-30	2005-08-29	EM-3262-NY	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded	
2004-08-03	2004-05-13	DR-1534-NY	Major disaster	Severe Storms and Flooding	Inland Flooding: designated for Hazard Mitigation only (no Public or Individual Assistance for this county); not counted	PA not declared for this county	
2003-08-23	2003-08-14	EM-3186-NY	Emergency	Power Outage	Non-natural, not counted	\$25,395.45	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Notes
						<i>federal share obligated, nominal dollars</i>	
2003-03-27	2003-02-17	EM-3184-NY	Emergency	Snow	Winter Weather	no Public Assistance recorded	
2001-09-11	2001-09-11	DR-1391-NY	Major disaster	Fires and Explosions	Non-natural, not counted	\$88,370.66	
2000-10-11	2000-05-22	EM-3155-NY	Emergency	West Nile Virus	Non-natural, not counted	no Public Assistance recorded	
1996-01-12	1996-01-06	DR-1083-NY	Major disaster	Blizzard of 96 (Severe Snow Storm)	Winter Weather	no Public Assistance recorded	
1993-03-17	1993-03-13	EM-3107-NY	Emergency	Severe Blizzard	Winter Weather	no Public Assistance recorded	
1984-04-17	1984-03-28	DR-702-NY	Major disaster	Coastal Storms & Flooding	Coastal Flooding	no Public Assistance recorded	
1971-09-13	1971-09-13	DR-311-NY	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded	
1965-08-18	1965-08-18	DR-204-NY	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
1963-08-23	1963-08-23	DR-158-NY	Major disaster	Heavy Rains & Flooding	Inland Flooding
1962-03-16	1962-03-16	DR-129-NY	Major disaster	Severe Storm, High Tides & Flooding	Inland Flooding (primary); also designated: Coastal Flooding
1956-03-29	1956-03-29	DR-52-NY	Major disaster	Flood	Inland Flooding
1955-08-22	1955-08-22	DR-45-NY	Major disaster	Hurricane & Floods	Hurricane (primary); also designated: Inland Flooding
1954-10-07	1954-10-07	DR-26-NY	Major disaster	Hurricanes	Hurricane (primary); also designated: 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.

1 Fire Management declaration (1995-08-25 to 1995-08-25) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Coastal Flooding	13	0	2	2	2	0	1996 to 2026-06-30	
Cold Wave	4	0	0	0	0	0	1996 to 2026-06-30	
Drought	8	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
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	18	1	1	2	0	0	1955 to 2026-06-30	
Heat Wave	9	0	0	0	0	0	1996 to 2026-06-30	
Hurricane	4	0	0	0	5	0	1996 to 2026-06-30	
Ice Storm	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Inland Flooding	69	1	0	1	2	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	6	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	130	20	3	26	1	0	1955 to 2026-06-30	Includes 25 High Wind and 13 Strong Wind records.
Tornado	4	0	0	0	1	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	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	66	6	2	12	4	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Why listed
2021-09-01	Flash Flood		\$60,000,000 property; \$0 crops (2021 dollars)	0, 0	ST GEORGE to SOUTH BEACH	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2020-08-04	Tropical Storm		\$3,800,000 property; \$0 crops (zone total, 2020 dollars)	0, 0	NWS zone NYZ074 (RICHMOND (STATEN IS.)), zone-level	B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2019-05-28	Hail	1.75 in	\$0 property; \$0 crops (2019 dollars)	0, 0	WILLOWBROOK	B1-c worst recorded: Hail
2018-03-02	High Wind	73 kt (84 mph) measured gust	\$50,000 property; \$0 crops (zone total, 2018 dollars)	0, 0	NWS zone NYZ074 (RICHMOND (STATEN IS.)), zone-level	B1-c worst recorded: High Wind and Strong Wind
2012-10-29	Coastal Flood		\$0 property; \$0 crops (zone total, 2012 dollars)	23, 0	NWS zone NYZ074 (RICHMOND (STATEN IS.)), zone-level	deaths or injuries recorded
2012-06-25	Lightning		\$50,000 property; crops not reported (2012 dollars)	0, 0	STATEN IS	B1-c worst recorded: Lightning
2010-07-04	Excessive Heat		\$0 property; \$0 crops (zone total, 2010 dollars)	2, 0	NWS zone NYZ074 (RICHMOND (STATEN IS.)), zone-level	deaths or injuries recorded
2009-02-12	High Wind	50 kt (58 mph) estimated gust	property not reported; \$0 crops (zone total, 2009 dollars)	1, 1	NWS zone NYZ074 (RICHMOND (STATEN IS.)), zone-level	deaths or injuries recorded
2004-01-15	Cold/Wind Chill		damage not reported	0, 0	NWS zone NYZ074 (RICHMOND (STATEN IS.)), zone-level	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2002-04-01	Drought		damage not reported	0, 0	NWS zone NYZ074 (RICHMOND (STATEN IS.)), zone-level	B1-c worst recorded: Drought
1998-09-07	Thunderstorm Wind	70 kt (81 mph), measurement type not recorded	damage not reported	0, 0	GREAT KILLS	B1-c worst recorded: Thunderstorm Wind
1995-10-28	Tornado	F1, 1.6 mi path length (whole path, pre-1996), 70 yd wide	\$500,000 property; crops not recorded (1995 dollars)	0, 0	New Dorp Beach	B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (331 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).

Tribal and special-area declarations in this state are listed on the state page.

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	3.76	events per year at a location (modeled)	about 3.8 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	0.484	event-days per year	about 0.484 days per year	Possible	Storm Events event-days in 2 of 30 years, 1996 to 2025 (6.67%)	7.06	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	3.05	event-days per year	about 3.05 days per year	Possible	Storm Events event-days in 1 of 30 years, 1996 to 2025 (3.33%)	77	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00199	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.199%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	1.92	events per year	about 1.92 per year	Highly likely	FEMA annualized frequency (modeled)	86.7 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	10.2	event-days per year	about 10.2 days per year	Likely	Storm Events event-days in 7 of 30 years, 1996 to 2025 (23.3%)	135	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.156	events per year	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	34	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	0.745	event-days per year	about 0.745 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	35	1946-12-31 to 2014-02-12 (67 years)	countywide	No Storm Events ice storm record, 1996 to 2025
Inland Flooding	1.93	event-days per year	about 1.93 days per year	Likely	Storm Events event-days in 23 of 30 years, 1996 to 2025 (76.7%)	54	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	0.0172	events per year (modeled)	about 1 in 58 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	33.1	days per year with a strike	about 33.1 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	5.5	events per year	about 5.5 per year	Highly likely	FEMA annualized frequency (modeled)	146	1986 to 2023 (38 years)	countywide	
Tornado	0.0323	events per year	about 1 in 31 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	0.0000894	annual probability at a location	chance a given location in the county burns in a year: 0.00894%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Winter Weather	8.77	event-days per year	about 8.77 days per year	Likely	Storm Events event-days in 24 of 30 years, 1996 to 2025 (80%)	121	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	7	30	0.233
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	76	30	2.53
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	1	30	0.0333
Tornado	EF0-1	1996 to 2025	2	30	0.0667
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Coastal Flooding	61 of 125	69.6	81.6	99.0	Relatively High 3, Relatively Moderate 16, Relatively Low 18, Very Low 24, No Rating 64
Cold Wave	125 of 125	15.5	48.5	68.9	Relatively Moderate 68, Relatively Low 51, Very Low 6
Drought	6 of 125	75.7	77.5	84.6	Relatively Low 1, Very Low 5, No Rating 119
Earthquake	124 of 125	6.5	58.0	78.3	Relatively Moderate 2, Relatively Low 106, Very Low 16, No Rating 1
Hail	125 of 125	1.2	38.7	60.0	Relatively Low 66, Very Low 59
Heat Wave	125 of 125	1.7	81.7	93.5	Relatively High 48, Relatively Moderate 68, Relatively Low 3, Very Low 6
Hurricane	125 of 125	29.9	69.5	82.9	Relatively Moderate 5, Relatively Low 115, Very Low 5
Ice Storm	124 of 125	0.1	17.0	33.6	Very Low 124, No Rating 1
Inland Flooding	125 of 125	0.1	20.9	77.5	Relatively Moderate 15, Relatively Low 65, Very Low 45
Landslide	124 of 125	9.1	32.1	90.1	Relatively Low 4, Very Low 120, No Rating 1
Lightning	124 of 125	0.2	16.1	31.2	Relatively Low 36, Very Low 88, No Rating 1
Strong Wind	125 of 125	0.3	51.4	73.2	Relatively Moderate 54, Relatively Low 64, Very Low 7
Tornado	125 of 125	0.2	39.0	52.5	Relatively Low 114, Very Low 11
Tsunami	0 of 125				Insufficient Data 125
Wildfire	44 of 125	18.5	34.9	73.6	Relatively Low 5, Very Low 39, No Rating 81
Winter Weather	125 of 125	10.6	52.2	71.2	Relatively Moderate 83, Relatively Low 36, Very Low 6

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
New York city	City	Approved, expires 2029-05-27	FMA RL 56, SRL 206; any 4,511	no Public Assistance recorded	1 total; 0 since its plan	Whole community, including the part in Bronx County, Dutchess County, Kings County, Nassau County, New York County, Queens County, Rensselaer County, Rockland County, Suffolk County and Westchester County, plus 7 properties with no county in FEMA's file; in-county portion (county table): FMA RL 15, FMA SRL 58, NFIP RL 2,385, NFIP SRL 45, any category 2,397.

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 2024-05-28 <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	\$6,788,891,410	n/a	34,608	\$1,851,178	n/a	\$192,213	0.0273%				
Cold Wave	\$81,865,805,649	\$971,305	495,666	\$348	under \$1	\$5,645,967	under 0.0001%				
Drought	n/a	\$802,632	n/a	n/a	\$5,705	n/a	0.711% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$137,883,952,572	n/a	495,747	\$4,777,473	n/a	\$1,391,476	0.00346%				

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 2024-05-28 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Hail	\$81,865,805,649	\$971,305	495,666	\$427,664	\$251	\$11,992	0.000522%	\$0			
Heat Wave	\$81,865,805,649	\$971,305	495,666	\$40	\$232	\$13,365,608	under 0.0001%				
Hurricane	\$81,838,973,750	\$971,305	495,475	\$6,475,003	\$6,686	\$264,882	0.00791%				
Ice Storm	\$80,884,014,027	n/a	490,571	\$59,116	n/a	\$91,529	under 0.0001%				
Inland Flooding	\$81,767,188,508	\$7,588	20,710	\$40,233,504	\$118	\$356,384	n/a (see note)	\$0			NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$1,512,352,489	n/a	8,286	\$1,190	n/a	\$11	under 0.0001%				
Lightning	\$81,865,805,649	n/a	495,666	\$3,087	n/a	\$303,786	under 0.0001%				
Strong Wind	\$81,865,805,649	\$971,305	495,666	\$254,477	\$31	\$1,905,846	0.000311%	\$44,000	\$0		
Tornado	\$81,865,805,649	\$971,305	495,666	\$1,728,755	\$7	\$2,344,654	0.00211%				
Tsunami	n/a	n/a	n/a	n/a	n/a	n/a					NRI publishes no building exposure for this county
Wildfire	\$1,654,106,277	\$296,146	9,506	\$11,993	under \$1	\$1,251	0.000725%				
Winter Weather	\$81,865,805,649	\$971,305	495,666	\$40,113	under \$1	\$295,370	under 0.0001%		\$0		

Totals since 2024-05-28 (Storm Events through 2026-06-30): 19 county-coded records, 19 with a damage value recorded (including \$0), \$44,000; 9 zone-level records, 8 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	495,666
Building value (total, not at risk)	\$81,865,805,649
Agriculture value (total, not at risk)	\$971,305
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$55,876,970
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)	\$26,170,970
Social vulnerability rating	Relatively High
Community resilience rating	Relatively High
NRI version	December 2025

FEMA's all-hazard expected annual loss adds buildings, agriculture and population equivalence; this table gives the property part and the population-equivalence part as separate rows.

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	15	Severe repetitive loss, FMA definition (44 CFR 77.2)	58
Repetitive loss, NFIP insurance definition	2,387	Severe repetitive loss, NFIP insurance definition	45

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	15	58	2,387	45	2,399	1	501
of which: New York city	15	58	2,385	45	2,397	1	501
of which: Unknown (community ID Unknown in FEMA data)	0	0	2	0	2	0	0
Statewide, no county in FEMA's file	0	0	19	0	19	0	3

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 properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties	Note
New York city	360497	56	206	4,483	168	4,511	6	1,692	Whole community, including the part in Bronx County, Dutchess County, Kings County, Nassau County, New York County, Queens County, Rensselaer County, Rockland County, Suffolk County and Westchester County, plus 7 properties with no county in FEMA's file; in-county portion (county table): FMA RL 15, FMA SRL 58, NFIP RL 2,385, NFIP SRL 45, any category 2,397.

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 properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties
single-family residential	14	43	1,764	32	1,775	1	390
2 to 4 unit residential	1	6	504	5	504	0	92
other residential	0	2	16	2	16	0	4
non-residential	0	7	101	6	102	0	15
not reported	0	0	2	0	2	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 3 properties are FMA repetitive loss but not NFIP repetitive loss, and 2,375 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_Gaz_cousubs_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_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.

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