

Chesapeake city, VA

Risk-assessment baseline packet

Independent city FIPS: 51550 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 2027-06-07. Plan: PDC 23 Hampton Roads Hazard Mitigation Plan (FEMA plan 108315), approved 2022-06-08.

Update: FEMA tracker shows a plan in progress.

Since the plan was approved on 2022-06-08: 1 new hazard declaration (1 incident) and 49 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 (\$28,601,391 a year), Hurricane (\$14,484,947) and Tornado (\$3,430,762).

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; 51550 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 2027-06-07	Plan:	PDC 23 Hampton Roads Hazard Mitigation Plan (FEMA plan 108315)
Approved:	2022-06-08	Days to expiry:	250
Update underway:	FEMA tracker shows a plan in progress		

What changed since your last plan (approved 2022-06-08)

New federal declarations:	1 new hazard declaration (1 incident): EM-3631-VA (Severe Winter Storm)	Storm Events records since approval:	49 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 29, SRL 78 (44 CFR 77.2); any definition: 415	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 <i>negative = days since expiry</i>	Update underway	Notes
Chesapeake city	City	Approved, expires 2027-06-07	PDC 23 Hampton Roads Hazard Mitigation Plan (FEMA plan 108315)	2022-06-08	2027-06-07	250	FEMA tracker shows a plan in progress	this jurisdiction approved 2022-07-12

Plan 108315 covers 26 other participants, named in the Excel file.

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	\$28,383,844	\$3,770	\$213,778	\$28,601,391	47	
2	Hurricane	Relatively Moderate	Relatively High	\$13,649,932	\$346,638	\$488,378	\$14,484,947	13	
3	Tornado	Relatively Moderate	Relatively Moderate	\$1,344,900	\$644	\$2,085,218	\$3,430,762	8	
4	Heat Wave	Relatively Moderate	Relatively Moderate	\$59	\$46	\$3,323,886	\$3,323,992	5	
5	Coastal Flooding	Relatively Moderate	Relatively High	\$2,325,684	n/a	\$551,181	\$2,876,866	12	
6	Earthquake	Relatively Low	Relatively Low	\$780,579	n/a	\$320,685	\$1,101,265		Storm Events does not record earthquakes.
7	Cold Wave	Relatively Low	Relatively Moderate	\$4,387	\$14,799	\$1,009,613	\$1,028,798	3	Includes 3 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
8	Hail	Relatively Low	Relatively Low	\$494,387	\$8,238	\$4,564	\$507,190	69	
9	Lightning	Relatively Low	Relatively Moderate	\$53,542	n/a	\$291,183	\$344,725	7	
10	Wildfire	Relatively Low	Relatively Low	\$152,926	\$23	\$15,338	\$168,288	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
11	Ice Storm	Relatively Low	Relatively Low	\$38,782	n/a	\$54,738	\$93,521	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
12	Strong Wind	Very Low	Very Low	\$16,277	\$241	\$70,481	\$86,999	132	Includes 5 High Wind and 3 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
13	Drought	Relatively Low	Relatively Low	n/a	\$86,621	n/a	\$86,621	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Winter Weather	Relatively Low	Relatively Low	\$12,504	\$6	\$36,571	\$49,081	50	
15	Landslide	Very Low	Very Low	\$381	n/a	\$2	\$384	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 and landslide 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, tsunami and volcanic activity. That is the evidence for leaving them out of the plan.

The state hazard mitigation plan also lists hazards for this county; FEMA asks the plan to explain any hazard it leaves out.

Supports FEMA checklist item B1-b: hazard location

Affects the whole county (national data give no location within it): Cold Wave, Drought, Hail, Heat Wave, Ice Storm, Lightning, Strong Wind and Winter Weather.

Coastal Flooding and Inland Flooding: The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (<https://msc.fema.gov>) for this county.

Hazards that vary within the county: highest-rated census tracts

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 208.05 (Relatively Low, 70.4); tract 208.09 (Relatively Low, 61.5); tract 207 (Relatively Low, 58.5)
Hurricane	tract 208.05 (Relatively High, 94.6); tract 208.09 (Relatively High, 90.4); tract 208.04 (Relatively Moderate, 89.4)
Landslide	tract 213.01 (Very Low, 78.6); tract 208.05 (Very Low, 74.0); tract 208.04 (Very Low, 71.3)
Tornado	tract 208.05 (Relatively Moderate, 67.1); tract 207 (Relatively Moderate, 61.7); tract 208.09 (Relatively Moderate, 58.9)
Wildfire	tract 211.03 (Relatively Low, 86.8); tract 208.04 (Relatively Low, 86.6); tract 209.07 (Relatively Low, 84.6)

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 208.05 is Census Tract 208.05). 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)	12 records, 2006 to 2025 (12 zone-level)		Coastal Flood, 2012-10-28, \$275,000 property; \$0 crops (2012 dollars); NWS zone VAZ097		Countywide (zone-level records).	Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	0					
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	3 records, 2003 to 2016 (3 zone-level)		No crop damage reported in 3 records.		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	0					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)	74 records, 1990 to 2025	0.75 in to 3 in (median 1 in); 74 with a recorded value	3 in hail, 2009-06-09	Hail, 1997-05-01, \$25,000 property; \$5,000 crops (1997 dollars)	Event records naming jurisdictions in the plan: Chesapeake city (21 records).	
Excessive Heat, Heat	heat index (in event narratives)	5 records, 1996 to 2025 (5 zone-level)	1 day to 4 days (median 3 days); 5 with a recorded value	4 consecutive days, 2012-07-05 to 2012-07-08, zone-level		Countywide (zone-level records).	
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	13 records, 1998 to 2023 (13 zone-level)		Strongest recorded: Hurricane record (NOAA event type 'Hurricane (Typhoon)'), 2003-09-18 to 2003-09-19, \$28,000,000 property; \$2,000,000 crops (2003 dollars); NWS zone VAZ097		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					

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	47 records, 1996 to 2026		Flood, 2016-10-08, \$20,000,000 property; \$800,000 crops (2016 dollars)		Event records naming jurisdictions in the plan: Chesapeake city (16 records).	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)	7 records, 1997 to 2021		Lightning, 2017-07-15, \$1,000,000 property; \$0 crops (2017 dollars)		Event records naming jurisdictions in the plan: Chesapeake city (2 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)	8 records, 2000 to 2024 (8 zone-level)	40 kt (46 mph) to 50 kt (58 mph) (median 48 kt (55 mph)); 8 with a recorded value	50 kt (58 mph) estimated gust, High Wind, 2024-01-09; same speed and measurement basis also recorded on 2018-03-02, 2018-10-11, 2020-04-13; NWS zone VAZ097	High Wind, 2018-03-02, \$25,000 property; \$0 crops (zone total, 2018 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	146 records, 1984 to 2026	49 kt (56 mph) to 70 kt (81 mph) (median 50 kt (58 mph)); 118 with a recorded value	70 kt (81 mph), measurement type not recorded, Thunderstorm Wind, 1989-05-06	Thunderstorm Wind, 2014-06-19, \$100,000 property; \$0 crops (2014 dollars)	Event records naming jurisdictions in the plan: Chesapeake city (23 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	13 records, 1969 to 2019	F/EF0 to F/EF2 (median F/EF1); 12 with a recorded value	F2 tornado, 1993-08-06, 2.5 mi path length (whole path, pre-1996), 200 yd wide, \$5,000,000 property; crops not recorded (1993 dollars)		Event records naming jurisdictions in the plan: Chesapeake city (2 records).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Wildfire	acres burned (local data)	0					
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	50 records, 1996 to 2026 (50 zone-level)		Heavy Snow, 2025-02-19, \$1,000 property; \$0 crops (2025 dollars); NWS zone VAZ097		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 and lightning.

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records from zones that no NWS zone-county file places in this county (mostly before 2020) are not counted here (the Methods page explains the zone matching).

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 18 declarations covering 13 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>	Flags	Notes
2026-01-23	2026-01-22	EM-3631-VA	Emergency	Severe Winter Storm	Winter Weather	no Public Assistance recorded		new since last plan; within last 5 years
2020-04-02	2020-01-20	DR-4512-VA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$373,626.46		
2020-03-13	2020-01-20	EM-3448-VA	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4512
2018-09-11	2018-09-13	EM-3403-VA	Emergency	Hurricane Florence	Hurricane	no Public Assistance recorded		
2016-11-02	2016-10-07	DR-4291-VA	Major disaster	Hurricane Matthew	Hurricane	no Public Assistance recorded		
2012-10-29	2012-10-26	EM-3359-VA	Emergency	Hurricane Sandy	Hurricane	no Public Assistance recorded		
2011-09-03	2011-08-26	DR-4024-VA	Major disaster	Hurricane Irene	Hurricane	\$2,648,461.96		
2011-08-26	2011-08-26	EM-3329-VA	Emergency	Hurricane Irene	Hurricane	no Public Assistance recorded		same incident as DR-4024
2009-12-09	2009-11-11	DR-1862-VA	Major disaster	Severe Storms and Flooding Associated with Tropical Depression Ida and a Nor'east	Hurricane; Inland Flooding	\$567,068.50		
2005-09-12	2005-08-29	EM-3240-VA	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2003-09-18	2003-09-18	DR-1491-VA	Major disaster	Hurricane Isabel	Hurricane	\$14,990,795.65		
1999-09-18	1999-09-13	DR-1293-VA	Major disaster	Hurricane Floyd Major Disaster Declarations	Hurricane	\$855,636.79		
1999-09-16	1999-09-13	EM-3147-VA	Emergency	Hurricane Floyd Emergency Declarations	Hurricane	no Public Assistance recorded		same incident as DR-1293
1998-09-04	1998-08-25	DR-1242-VA	Major disaster	Hurricane Bonnie	Hurricane	no Public Assistance recorded		
1996-01-13	1996-01-06	DR-1086-VA	Major disaster	Blizzard of 96 (Severe Snow Storm)	Winter Weather	no Public Assistance recorded		
1993-03-25	1993-03-13	EM-3112-VA	Emergency	Severe Winter Storm	Winter Weather	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1977-01-26	1977-01-26	DR-525-VA	Major disaster	Ice Conditions	Cold Wave	PA not declared for this county		
1972-06-23	1972-06-23	DR-339-VA	Major disaster	Tropical Storm Agnes	Inland Flooding (primary); also designated: Hurricane	no Public Assistance recorded		

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

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
1963-03-21	1963-03-21	DR-149-VA	Major disaster	Floods	Inland Flooding
1962-03-09	1962-03-09	DR-123-VA	Major disaster	Severe Storms, High Tides & Flooding	Inland Flooding (primary); also designated: Coastal Flooding
1957-02-01	1957-02-01	DR-68-VA	Major disaster	Floods	Inland Flooding

FEMA recorded these with designated area Statewide and no county, so they are listed on every county page in the state and not counted with county rows. Local data needed: whether each one affected this county.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Coastal Flooding	12	6	0	6	0	0	1996 to 2026-06-30	
Cold Wave	3	0	0	0	1	0	1996 to 2026-06-30	Includes 3 Frost/Freeze records.
Drought	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	74	4	0	4	0	0	1955 to 2026-06-30	
Heat Wave	5	2	0	2	0	0	1996 to 2026-06-30	
Hurricane	13	1	1	1	9	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	47	9	3	9	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

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
Lightning	7	0	1	0	0	0	1996 to 2026-06-30	
Strong Wind	154	23	5	25	0	0	1955 to 2026-06-30	Includes 5 High Wind and 3 Strong Wind records.
Tornado	13	0	0	0	0	0	1950 to 2026-06-30	
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	50	4	2	6	3	1	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2025-02-19	Heavy Snow		\$1,000 property; \$0 crops (zone total, 2025 dollars)	0, 0	NWS zone VAZ097 (CHESAPEAKE), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2024-01-09	High Wind	50 kt (58 mph) estimated gust	\$5,000 property; \$0 crops (zone total, 2024 dollars)	0, 0	NWS zone VAZ097 (CHESAPEAKE), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2017-07-15	Lightning		\$1,000,000 property; \$0 crops (2017 dollars)	0, 0	CHESAPEAKE		B1-c worst recorded: Lightning
2016-10-08	Flood		\$20,000,000 property; \$800,000 crops (2016 dollars)	0, 0	BOWERS HILL to WALLACETON		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2012-10-28	Coastal Flood		\$275,000 property; \$0 crops (zone total, 2012 dollars)	0, 0	NWS zone VAZ097 (CHESAPEAKE), zone-level		B1-c worst recorded: Coastal Flood, Storm Surge/Tide
2012-07-05	Heat		\$0 property; \$0 crops (zone total, 2012 dollars)	0, 0	NWS zone VAZ097 (CHESAPEAKE), zone-level		B1-c worst recorded: Excessive Heat, Heat
2009-06-09	Hail	3 in	\$0 property; \$0 crops (2009 dollars)	0, 0	DEEP CREEK		B1-c worst recorded: Hail
2003-09-18	Hurricane (NOAA event type 'Hurricane (Typhoon)')		\$28,000,000 property; \$2,000,000 crops (zone total, 2003 dollars)	0, 0	NWS zone VAZ097 (CHESAPEAKE), zone-level		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
1998-08-26	Hurricane (NOAA event type 'Hurricane (Typhoon)')		\$2,100,000 property; \$400,000 crops (zone total, 1998 dollars)	0, 1	NWS zone VAZ097 (CHESAPEAKE), zone-level		deaths or injuries recorded
1993-08-06	Tornado	F2, 2.5 mi path length (whole path, pre-1996), 200 yd wide	\$5,000,000 property; crops not recorded (1993 dollars)	0, 0	SE Chesapeake		B1-c worst recorded: Tornado
1991-06-22	Thunderstorm Wind	speed not recorded	damage not recorded (pre-1996 record)	0, 2	location not recorded		deaths or injuries recorded
1989-05-06	Thunderstorm Wind	70 kt (81 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" (378 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	3.65	events per year at a location (modeled)	about 3.6 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	0.474	event-days per year	about 0.474 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	9.01	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events cold wave record, 1996 to 2025.
Drought	1.1	event-days per year	about 1.1 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	42	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.000885	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0885%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	1.44	events per year	about 1.44 per year	Highly likely	FEMA annualized frequency (modeled)	54.7 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	6.88	event-days per year	about 6.88 days per year	Likely	Storm Events event-days in 4 of 30 years, 1996 to 2025 (13.3%)	103	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.242	events per year	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	70	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	0.878	event-days per year	about 0.878 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	60	1946-12-31 to 2014-02-12 (67 years)	countywide	No Storm Events ice storm record, 1996 to 2025
Inland Flooding	1.32	event-days per year	about 1.32 days per year	Likely	Storm Events event-days in 21 of 30 years, 1996 to 2025 (70%)	37	1996 to 2023 (28 years)	see B1-f	
Landslide	0.0517	events per year (modeled)	about 1 in 19 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Lightning	42.3	days per year with a strike	about 42.3 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.555	events per year	about 0.55 per year	Likely	FEMA annualized frequency (modeled)	22	1986 to 2023 (38 years)	countywide	
Tornado	0.156	events per year	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.000316	annual probability at a location	chance a given location in the county burns in a year: 0.0316%		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	3.44	event-days per year	about 3.44 days per year	Likely	Storm Events event-days in 20 of 30 years, 1996 to 2025 (66.7%)	65.4	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	45	30	1.5
Hail	2.00 in+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	109	30	3.63
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	11	30	0.367
Tornado	EF0-1	1996 to 2025	7	30	0.233
Tornado	EF2-3	1996 to 2025	1	30	0.0333
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	50 of 61	69.7	90.2	97.6	Relatively High 6, Relatively Moderate 21, Relatively Low 9, Very Low 14, No Rating 11
Cold Wave	61 of 61	20.0	25.1	42.5	Relatively Low 61
Drought	28 of 61	67.2	72.6	91.4	Relatively Low 8, Very Low 20, No Rating 33
Earthquake	61 of 61	10.5	31.0	70.4	Relatively Low 13, Very Low 48
Hail	61 of 61	27.7	45.6	78.1	Relatively Moderate 1, Relatively Low 44, Very Low 16
Heat Wave	61 of 61	19.3	49.6	83.2	Relatively Moderate 26, Relatively Low 35
Hurricane	61 of 61	68.1	81.6	94.6	Relatively High 2, Relatively Moderate 41, Relatively Low 18
Ice Storm	61 of 61	4.3	13.5	45.8	Relatively Low 4, Very Low 57
Inland Flooding	61 of 61	1.4	21.4	84.1	Relatively High 1, Relatively Moderate 10, Relatively Low 25, Very Low 25
Landslide	61 of 61	14.8	42.4	78.6	Very Low 61
Lightning	61 of 61	9.4	22.6	51.4	Relatively Moderate 1, Relatively Low 38, Very Low 22

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	61 of 61	5.1	9.5	17.2	Very Low 61
Tornado	61 of 61	27.5	40.8	67.1	Relatively Moderate 10, Relatively Low 48, Very Low 3
Wildfire	61 of 61	18.6	57.4	86.8	Relatively Low 21, Very Low 40
Winter Weather	61 of 61	18.7	25.2	42.1	Relatively Low 61

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	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
Chesapeake city	City	Approved, expires 2027-06-07	FMA RL 29, SRL 78; any 415	\$18,985,615.82	64 total; 5 since its plan	Includes \$193,374.28 for declarations not counted as hazard incidents (DR-4512-VA).

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 2022-06-08 <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	\$5,568,227,877	n/a	31,413	\$2,325,684	n/a	\$551,181	0.0418%		\$60,000		
Cold Wave	\$45,171,334,203	\$40,097,356	249,270	\$4,387	\$14,799	\$1,009,613	under 0.0001%				
Drought	n/a	\$32,055,073	n/a	n/a	\$86,621	n/a	0.27% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$75,993,836,544	n/a	249,422	\$780,579	n/a	\$320,685	0.00103%				
Hail	\$45,171,334,203	\$40,097,356	249,270	\$494,387	\$8,238	\$4,564	0.00109%	\$0			
Heat Wave	\$45,171,334,203	\$40,097,356	249,270	\$59	\$46	\$3,323,886	under 0.0001%		\$0		
Hurricane	\$45,171,139,710	\$40,090,360	249,266	\$13,649,932	\$346,638	\$488,378	0.0302%		\$0		
Ice Storm	\$45,167,047,778	n/a	249,232	\$38,782	n/a	\$54,738	under 0.0001%				

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 2022-06-08 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Inland Flooding	\$45,093,445,911	\$300,688	18,131	\$28,383,844	\$3,770	\$213,778	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	\$134,975,880	n/a	681	\$381	n/a	\$2	0.000282%				
Lightning	\$45,171,334,203	n/a	249,270	\$53,542	n/a	\$291,183	0.000119%				
Strong Wind	\$45,171,334,203	\$40,097,356	249,270	\$16,277	\$241	\$70,481	under 0.0001%	\$99,000	\$5,000		Storm Events damage since the plan includes 1 zone-level High Wind record (\$5,000): a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition.
Tornado	\$45,171,334,203	\$40,097,356	249,270	\$1,344,900	\$644	\$2,085,218	0.00298%				
Wildfire	\$8,339,257,131	\$6,566,090	53,141	\$152,926	\$23	\$15,338	0.00183%				
Winter Weather	\$45,171,334,203	\$40,097,356	249,270	\$12,504	\$6	\$36,571	under 0.0001%		\$1,000	no Public Assistance recorded (1 declaration)	

Totals since 2022-06-08 (Storm Events through 2026-06-30): 35 county-coded records, 35 with a damage value recorded (including \$0), \$99,000; 14 zone-level records, 11 with a damage value recorded (including \$0), \$66,000 reported for the zone; Public Assistance: none recorded on the 1 counted declaration.

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	249,270
Building value (total, not at risk)	\$45,171,334,203
Agriculture value (total, not at risk)	\$40,097,356
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$47,719,210
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)	\$8,465,617
Social vulnerability rating	Very Low
Community resilience rating	Very 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)	29	Severe repetitive loss, FMA definition (44 CFR 77.2)	78
Repetitive loss, NFIP insurance definition	405	Severe repetitive loss, NFIP insurance definition	69

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	29	78	405	69	415	10	245
of which: Chesapeake city	29	78	405	69	415	10	245
Statewide, no county in FEMA's file	0	0	4	0	4	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>
Chesapeake city	510034	29	78	405	69	415	10	245

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	25	72	388	64	397	9	236
2 to 4 unit residential	1	1	5	1	5	0	1
other residential	0	0	0	0	0	0	0
non-residential	3	5	12	4	13	1	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 2 properties are FMA repetitive loss but not NFIP repetitive loss, and 378 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.

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