

Suffolk County, MA

Risk-assessment baseline packet

Unit **County area 25025** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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

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Plan clock

No county-level plan row in FEMA data

What changed since your last plan

Not available. No county-level plan row in FEMA data, so there is no approval date to count from.

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

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Boston city	City	Approved, expires 2026-12-05	City of Boston 2021 Natural Hazard Mitigation Plan Update (FEMA plan 107823)	2021-12-06	2026-12-05	68		
Chelsea city	City	Approved, expires 2027-07-11	Chelsea, MA 2022 Hazard Mitigation Plan (FEMA plan 108264)	2022-07-12	2027-07-11	286		
Revere city	City	Approved, expires 2027-02-16	The City of Revere, Massachusetts Hazard Mitigation Plan - 2021 Update (FEMA plan 107869)	2022-02-17	2027-02-16	141		
Winthrop Town city	City	Approved, expires 2031-08-13	Town of Winthrop Hazard Mitigation Plan 2025 Update (FEMA plan 111531)	2026-08-14	2031-08-13	1,780		
Name not given in FEMA data (ID NM01_12383)	College/University	Expired on 2021-05-12	University of Massachusetts Multi-Campus Hazard Mitigation Plan (FEMA plan 12383)	2016-05-12	2021-05-12	-1,965		

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

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

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Supports B1-a: hazards

Hazards NRI does not cover: check locally

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

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

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	EAL population equivalence statistical value of life and injury, \$13.7M per life, not property damage	EAL total (see note) modeled dollars per year	Storm Events records since 1996 count	Evidence for an omission NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
1	Inland Flooding	Relatively High	Relatively High	\$59,469,894	\$313	\$47,960	\$59,518,167	72		
2	Hurricane	Relatively High	Relatively High	\$12,415,981	\$5,559	\$501,711	\$12,923,252	4		
3	Earthquake	Relatively Moderate	Relatively Moderate	\$8,238,651		\$3,411,770	\$11,650,421			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
4	Heat Wave	Relatively High	Relatively High	\$30	\$82	\$9,433,664	\$9,433,776	21		
5	Cold Wave	Relatively High	Relatively High	\$677	\$64	\$8,677,694	\$8,678,435	8		
6	Coastal Flooding	Relatively High	Relatively High	\$5,228,356		\$1,059,907	\$6,288,266	50		
7	Tornado	Relatively Moderate	Relatively Moderate	\$2,217,516	\$5	\$378,485	\$2,596,006	1		
8	Lightning	Very High	Relatively High	\$409,876		\$1,908,214	\$2,318,090	19		
9	Hail	Relatively Moderate	Relatively Low	\$598,469	\$2	\$16,652	\$615,123	20		

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
10	Strong Wind	Relatively Moderate	Relatively Low	\$224,347	under \$1	\$255,897	\$480,245	277		Includes 76 High Wind records and 100 Strong Wind records, event types the NRI definition of this hazard leaves out.
11	Ice Storm	Relatively Moderate	Relatively Moderate	\$129,801		\$199,097	\$328,898	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Winter Weather	Relatively Low	Relatively Low	\$26,709	under \$1	\$16,678	\$43,387	99		
13	Wildfire	Very Low	Very Low	\$2,076	under \$1	\$290	\$2,366	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
14	Landslide	Very Low	Very Low	\$367		\$39	\$406	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
15	Drought	No Rating	No Expected Annual Losses		\$0		\$0	11		
	Avalanche	Not Applicable	Not Applicable					0	NRI rates avalanche Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Tsunami	Insufficient Data	Insufficient Data					0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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

SOURCES

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

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

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 234
Coastal Flooding	The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (https://msc.fema.gov) for this county.	97 of 234
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	234 of 234
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 234
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	234 of 234
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	234 of 234
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	234 of 234
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	234 of 234
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	234 of 234
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.	234 of 234
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	230 of 234
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	234 of 234
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	234 of 234
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	234 of 234
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 234
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 234
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	58 of 234
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	234 of 234

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

Supports B1-c: extent

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

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	0					Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	50, 2002 to 2024 (49 zone- level)		Coastal Flood, 2012-10-29, \$3,000,000 property; \$0 crops, reported for the zone (2012 dollars); NWS zone MAZ015 (SUFFOLK), zone-level: may include parts of neighboring counties		Event records naming member places: Revere city (1 record). Zone-level records (49) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	8, 1999 to 2018 (8 zone- level)	1 day to 2 days (median 1 day); 6 with a recorded value	2 consecutive days, 2007-02-03 to 2007-02-04, 1 direct death, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required. Cold/ Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	0					Temperature: in event narratives only; local data required.
Drought	US Drought Monitor D- scale	11, 1999 to 2017 (11 zone- level)	1 day to 183 days (median 17.5 days); 4 with a recorded value	183 days (about 6.0 months), 2016-07-26 to 2017-01-24, a run of 7 consecutive Storm Events drought records, zone- level		Zone-level records: applies countywide; national data do not locate these events within the county.	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	24, 1966 to 2020	0.75 in to 2 in (median 0.75 in); 24 with a recorded value	2 in hail, 2015-08-04		Event records naming member places: Revere city (3 records), Boston city (2 records).	
Excessive Heat, Heat	heat index (narratives)	21, 1996 to 2018 (21 zone- level)	1 day to 2 days (median 1 day); 10 with a recorded value	2 consecutive days, 2001-05-03 to 2001-05-04, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required. Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	4, 2011 to 2021 (4 zone- level)		Strongest recorded (records with damage, a wind speed or direct casualties first, then storm type, category and wind): Tropical Storm record, 2011-08-28, \$3,450,000 property; \$0 crops, reported for the zone (2011 dollars); NWS zone MAZ015 (SUFFOLK), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.
Ice Storm	Sperry-Piltz (local data)	0					Ice thickness: in event narratives only; local data required.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	72, 1996 to 2024 (1 zone- level)		Flood, 2001-03-05, \$15,000,000 property; crops not reported, reported for the zone (2001 dollars); NWS zone MAZ015 (SUFFOLK), zone-level: may include parts of neighboring counties		Event records naming member places: Boston city (14 records), Revere city (14 records), Chelsea city (8 records). Zone-level records (1) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	19, 1997 to 2023		Lightning, 2010-08-05, \$0 property; \$0 crops (2010 dollars), 1 direct death	Lightning, 2008-06-27, \$5,000,000 property; \$0 crops (2008 dollars)	Event records naming member places: Boston city (5 records), Revere city (2 records).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	176, 1996 to 2025 (176 zone-level)	27 kt (31 mph) to 68 kt (78 mph) (median 45 kt (52 mph)); 128 with a recorded value	68 kt (78 mph) measured gust, High Wind, 2006-01-18; NWS zone MAZ015 (SUFFOLK / ALSO PART OF NORFOLK), zone-level: may include parts of neighboring counties	High Wind, 2012-10-29, \$3,000,000 property; \$0 crops, reported for the zone (2012 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Thunderstorm Wind	wind speed (kt and mph)	130, 1956 to 2025	45 kt (52 mph) to 73 kt (84 mph) (median 50 kt (58 mph)); 115 with a recorded value	73 kt (84 mph), measurement type not recorded, Thunderstorm Wind, 1956-06-13	Thunderstorm Wind, 2010-06-06, \$100,000 property; \$0 crops (2010 dollars)	Event records naming member places: Boston city (31 records), Revere city (10 records), Chelsea city (3 records).	
Tornado	Enhanced Fujita (F before Feb 2007)	1, 2014 to 2014	F/EF2; 1 with a recorded value	EF2 tornado, 2014-07-28, 1.93 mi within this county, 660 yd wide, \$4,000,000 property; \$0 crops (2014 dollars), 2 direct injuries		Event records naming member places: Chelsea city (1 record), Revere city (1 record).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	0					Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	99, 1996 to 2026 (99 zone- level)		Heavy Snow, 1996-01-07, \$7,000,000 property; crops not reported, reported for the zone (1996 dollars); NWS zone MAZ015 (SUFFOLK), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

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

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

SOURCES

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

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

Supports B1-d: previous occurrences

Declaration rows

38

Counted incidents

28

No county-level plan row in FEMA data, so there is no approval date to count from.

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2023-09-15	2023-09-15	EM-3599-MA	Emergency	HURRICANE LEE	Hurricane	\$173,126.76	within last 5 years	
2022-04-18	2022-01-28	DR-4651-MA	Major disaster	SEVERE WINTER STORM AND SNOWSTORM	Winter Weather	\$9,862,630.59	within last 5 years	
2020-03-27	2020-01-20	DR-4496-MA	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$491,517,173.77		
2020-03-13	2020-01-20	EM-3438-MA	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4496
2018-07-19	2018-03-13	DR-4379-MA	Major disaster	SEVERE WINTER STORM AND SNOWSTORM	Winter Weather	\$12,192,682.41		
2015-04-13	2015-01-26	DR-4214-MA	Major disaster	SEVERE WINTER STORM, SNOWSTORM, AND FLOODING	Inland Flooding; Winter Weather	\$25,562,137.63		
2013-04-19	2013-02-08	DR-4110-MA	Major disaster	SEVERE WINTER STORM, SNOWSTORM, AND FLOODING	Inland Flooding; Winter Weather	\$3,861,484.42		
2013-04-17	2013-04-15	EM-3362-MA	Emergency	EXPLOSIONS	Non-natural, not counted	\$3,591,762.10		
2012-12-19	2012-10-27	DR-4097-MA	Major disaster	HURRICANE SANDY	Hurricane	\$3,749,961.97		
2012-10-28	2012-10-27	EM-3350-MA	Emergency	HURRICANE SANDY	Hurricane	none found		same incident as DR-4097
2011-08-26	2011-08-26	EM-3330-MA	Emergency	HURRICANE IRENE	Hurricane	\$916,866.43		
2011-03-07	2011-01-11	DR-1959-MA	Major disaster	SEVERE WINTER STORM AND SNOWSTORM	Winter Weather	\$9,430,940.63		
2010-09-02	2010-09-01	EM-3315-MA	Emergency	HURRICANE EARL	Hurricane	\$63,420.86		
2010-05-03	2010-05-01	EM-3312-MA	Emergency	WATER MAIN BREAK	Non-natural, not counted	none found		
2010-03-29	2010-03-12	DR-1895-MA	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$4,466,860.58		
2008-12-13	2008-12-11	EM-3296-MA	Emergency	SEVERE WINTER STORM	Winter Weather	none found		
2006-05-25	2006-05-12	DR-1642-MA	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$654,853.84		FEMA's declaration record does not list Public Assistance, but FEMA's PA project summaries show obligations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2005-11-10	2005-10-07	DR-1614-MA	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding: designated for Hazard Mitigation only (no Public or Individual Assistance for this county); not counted	\$809,896.39		FEMA's declaration record does not list Public Assistance, but FEMA's PA project summaries show obligations for this county
2005-09-13	2005-08-29	EM-3252-MA	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	none found		
2005-02-17	2005-01-22	EM-3201-MA	Emergency	RECORD AND/OR NEAR RECORD SNOW	Winter Weather	\$15,673,117.74		
2004-04-21	2004-04-01	DR-1512-MA	Major disaster	FLOODING	Inland Flooding	PA not declared for this county		
2004-01-15	2003-12-06	EM-3191-MA	Emergency	SNOW	Winter Weather	\$3,267,208.62		
2003-03-11	2003-02-17	EM-3175-MA	Emergency	SNOW	Winter Weather	\$9,724,128.12		
2001-04-10	2001-03-05	DR-1364-MA	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	PA not declared for this county		
1998-06-23	1998-06-13	DR-1224-MA	Major disaster	HEAVY RAINS AND FLOODING	Inland Flooding	PA not declared for this county		
1996-10-25	1996-10-20	DR-1142-MA	Major disaster	EXTREME WEATHER CONDITONS AND FLOODING	Inland Flooding	none found		
1996-10-23	1996-10-20	EM-3119-MA	Emergency	EXTREME WEATHER CONDITIONS AND FLOODING	Inland Flooding	none found		same incident as DR-1142
1996-01-24	1996-01-07	DR-1090-MA	Major disaster	BLIZZARD OF 96	Winter Weather	none found		
1993-03-16	1993-03-13	EM-3103-MA	Emergency	BLIZZARDS, HIGH WINDS & RECORD SNOWFALL	Winter Weather	none found		
1992-12-21	1992-12-11	DR-975-MA	Major disaster	WINTER COASTAL STORM	Coastal Flooding	none found		
1991-11-04	1991-10-30	DR-920-MA	Major disaster	COASTAL STORM	Coastal Flooding	none found		
1991-08-26	1991-08-19	DR-914-MA	Major disaster	HURRICANE BOB	Hurricane	none found		
1985-10-28	1985-09-27	DR-751-MA	Major disaster	HURRICANE GLORIA	Hurricane	none found		
1978-02-10	1978-02-06	DR-546-MA	Major disaster	COASTAL STORMS, FLOOD, ICE & SNOW	Coastal Flooding	none found		
1978-02-07	1978-02-07	EM-3059-MA	Emergency	BLIZZARD & SNOWSTORMS	Winter Weather	none found		
1973-10-16	1973-10-16	DR-405-MA	Major disaster	FIRE (CITY OF CHELSEA)	Non-natural, not counted	none found		
1972-09-28	1972-09-28	DR-357-MA	Major disaster	TOXIC ALGAE IN COASTAL WATERS	Fishing Losses: economic loss, not a physical hazard event; non-natural, not counted	PA not declared for this county		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1972-03-06	1972-03-06	DR-325-MA	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		

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

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SOURCES

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

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

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

Statewide declarations

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
1955-08-20	1955-08-20	DR-43-MA	Major disaster	HURRICANE & FLOODS	Hurricane (primary); also designated: Inland Flooding		
1954-09-02	1954-09-02	DR-22-MA	Major disaster	HURRICANES	Hurricane (primary); also designated: Inland Flooding		
1953-06-11	1953-06-11	DR-7-MA	Major disaster	TORNADO	Tornado		

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

1 Fire Management declaration (1995-09-12 to 1995-09-12) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

SOURCE

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

Public Assistance filed under this county for declarations that do not list it: 23 rows, \$18,874,379.97

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-4372-MA	2018-06-25	SEVERE WINTER STORM AND FLOODING	Massachusetts Water Resources Authority	\$13,042.25
DR-4372-MA	2018-06-25	SEVERE WINTER STORM AND FLOODING	Massachusetts Environmental Police	\$14,917.12
DR-4372-MA	2018-06-25	SEVERE WINTER STORM AND FLOODING	Conservation and Recreation, Department of	\$406,195.44
DR-4051-MA	2012-01-06	SEVERE STORM AND SNOWSTORM	Massachusetts Water Resources Authority	\$169,101.82
DR-4051-MA	2012-01-06	SEVERE STORM AND SNOWSTORM	Massachusetts Department of Transportation	\$883,164.59
DR-4051-MA	2012-01-06	SEVERE STORM AND SNOWSTORM	Massachusetts Bay Transportation Authority	\$132,924.88
DR-4051-MA	2012-01-06	SEVERE STORM AND SNOWSTORM	Environmental Protection, Department of	\$4,081.96
DR-4051-MA	2012-01-06	SEVERE STORM AND SNOWSTORM	Conservation and Recreation, Department of	\$207,997.85
DR-1994-MA	2011-06-15	SEVERE STORMS AND TORNADOES	Department of Developmental Services	\$10,552.72
DR-1813-MA	2009-01-05	SEVERE WINTER STORM AND FLOODING	Massachusetts Water Resources Authority	\$27,831.63
DR-1813-MA	2009-01-05	SEVERE WINTER STORM AND FLOODING	Massachusetts Department of Transportation	\$1,741,408.88
DR-1813-MA	2009-01-05	SEVERE WINTER STORM AND FLOODING	MA Department of Youth Services	\$993.75
DR-1813-MA	2009-01-05	SEVERE WINTER STORM AND FLOODING	Environmental Protection, Department of	\$5,810.65
DR-1813-MA	2009-01-05	SEVERE WINTER STORM AND FLOODING	Department of Developmental Services	\$10,627.06
DR-1813-MA	2009-01-05	SEVERE WINTER STORM AND FLOODING	Conservation and Recreation, Department of	\$7,041,783.46

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-1701-MA	2007-05-16	SEVERE STORMS AND INLAND AND COASTAL FLOODING	Massachusetts Environmental Police	\$3,505.67
DR-1701-MA	2007-05-16	SEVERE STORMS AND INLAND AND COASTAL FLOODING	Massachusetts Department of Transportation	\$68,292.72
DR-1701-MA	2007-05-16	SEVERE STORMS AND INLAND AND COASTAL FLOODING	Conservation and Recreation, Department of	\$779,614.22
EM-3264-MA	2005-10-19	SEVERE STORMS AND FLOODING	Massachusetts Department of Transportation	\$6,723.51
EM-3165-MA	2001-03-28	SNOW	Massachusetts Department of Transportation	\$7,012,518.15
EM-3165-MA	2001-03-28	SNOW	Massachusetts Bay Transportation Authority	\$282,540.29
EM-3153-MA	1999-12-06	WAREHOUSE FIRE.	Office of the Chief Medical Examiner	\$25,579.81
EM-3153-MA	1999-12-06	WAREHOUSE FIRE.	Massachusetts Department of Transportation	\$25,171.54

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.

SOURCES

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

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

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval records	During plan review records	Last 5 years records	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	50			7	3		1996 to 2026-06-30	
Cold Wave	8			0	0		1996 to 2026-06-30	
Drought	11			0	0		1996 to 2026-06-30	
Earthquake	0			0	0			No Storm Events record; local data required (e.g., USGS).
Hail	24			0	0		1955 to 2026-06-30	
Heat Wave	21			0	0		1996 to 2026-06-30	
Hurricane	4			0	6		1996 to 2026-06-30	
Ice Storm	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Inland Flooding	72			16	9		1996 to 2026-06-30	
Landslide	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	19			1	0		1996 to 2026-06-30	

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Strong Wind	306			27	0		1955 to 2026-06-30	Includes 76 High Wind records and 100 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	1			0	0		1950 to 2026-06-30	
Tsunami	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	99			6	12		1996 to 2026-06-30	

SOURCES

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

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

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

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2015-08-04	Hail	2 in	\$0 property; \$0 crops (2015 dollars)	0, 0	FOREST HILLS		B1-c worst recorded: Hail
2014-07-28	Tornado	EF2, 1.93 mi within this county, 660 yd wide	\$4,000,000 property; \$0 crops (2014 dollars)	0, 2	CHELSEA to REVERE		B1-c worst recorded: Tornado
2012-10-29	Coastal Flood		\$3,000,000 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone MAZ015 (SUFFOLK), zone-level: may include parts of neighboring counties		B1-c worst recorded: Coastal Flood, Storm Surge/Tide
2011-08-28	Tropical Storm		\$3,450,000 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone MAZ015 (SUFFOLK), zone-level: may include parts of neighboring counties		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2010-08-05	Lightning		\$0 property; \$0 crops (2010 dollars)	1, 0	SOUTH BOSTON		deaths or injuries recorded
2007-02-03	Extreme Cold/ Wind Chill		\$0 property; \$0 crops, reported for the zone (2007 dollars)	1, 0	NWS zone MAZ015 (SUFFOLK), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2006-01-18	High Wind	68 kt (78 mph) measured gust	\$100,000 property; crops not reported, reported for the zone (2006 dollars)	0, 0	NWS zone MAZ015 (SUFFOLK / ALSO PART OF NORFOLK), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2001-05-03	Excessive Heat		damage not reported	0, 0	NWS zone MAZ015 (SUFFOLK / ALSO PART OF NORFOLK), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat

				Direct deaths, injuries			
Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	<i>indirect not counted</i>	Location	Flags	Why listed
2001-03-05	Flood		\$15,000,000 property; crops not reported, reported for the zone (2001 dollars)	0, 0	NWS zone MAZ015 (SUFFOLK), zone-level: may include parts of neighboring counties		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1999-07-05	Heat		damage not reported	2, 0	NWS zone MAZ015 (SUFFOLK / ALSO PART OF NORFOLK), zone-level: may include parts of neighboring counties		deaths or injuries recorded
1996-01-07	Heavy Snow		\$7,000,000 property; crops not reported, reported for the zone (1996 dollars)	0, 0	NWS zone MAZ015 (SUFFOLK), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
1956-06-13	Thunderstorm Wind	73 kt (84 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 XLSX file, sheet "B1-d Storm Events history" (615 rows).

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

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

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

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche		events per year					1994 to 2023 (30 years)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Coastal Flooding	7.4	events per year at a location (modeled)	about 7.4 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.

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
Cold Wave	1.19	event-days per year	about 1.19 days per year	Likely	event-days in 6 of 30 years, 1996 to 2025 (20%)	11.6	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 1.19 cold wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 6 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together. Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	6.68	event-days per year	about 6.68 days per year	Likely	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	196	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 6.68 drought event-days a year here (its annualized frequency over 25.25 years; not its event count divided by the years), but Storm Events has a record in only 4 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Earthquake	0.00173	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.173%			not shown	modeled	see B1-f	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.
Hail	1.64	events per year	about 1.64 per year	Highly likely	FEMA annualized frequency (modeled)	68.4 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	5.25	event-days per year	about 5.25 days per year	Likely	event-days in 9 of 30 years, 1996 to 2025 (30%)	44.9	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 5.25 heat wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 9 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Hurricane	0.184	events per year	about 1 in 5 years	Likely	FEMA annualized frequency (modeled)	48	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.
Ice Storm	1.01	event-days per year	about 1.01 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	39	1946-12-31 to 2014-02-12 (67 years)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Inland Flooding	1.68	event-days per year	about 1.68 days per year	Likely	event-days in 20 of 30 years, 1996 to 2025 (66.7%)	47	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	0.0178	events per year (modeled)	about 1 in 56 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	20	days per year with a strike	about 20 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.704	events per year	about 0.7 per year	Likely	FEMA annualized frequency (modeled)	16	1986 to 2023 (38 years)	countywide	
Tornado	0.0184	events per year	about 1 in 54 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 Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.0000227	annual probability at a location	chance a given location in the county burns in a year: 0.00227%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)
Winter Weather	12.2	event-days per year	about 12.2 days per year	Highly likely	event-days in 28 of 30 years, 1996 to 2025 (93.3%)	120	2005-11-12 to 2024-11-12 (19 years)	countywide	

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

SOURCES

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

Descriptor scale used in this packet (defined per unit)

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

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

Intensity bands: historical frequency (Storm Events)

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	6	30	0.2
Hail	2.00 in+	1996 to 2025	1	30	0.0333
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	99	30	3.3
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	1	30	0.0333
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	1	30	0.0333
Tornado	EF0-1	1996 to 2025	0	30	0
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

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

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	0 of 234				Not Applicable 234	
Coastal Flooding	97 of 234	69.5	87.0	99.6	Very High 3, Relatively High 8, Relatively Moderate 31, Relatively Low 30, Very Low 25, No Rating 137	
Cold Wave	234 of 234	15.5	42.9	73.0	Relatively Moderate 90, Relatively Low 128, Very Low 16	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	0 of 234				No Rating 234	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Earthquake	234 of 234	1.2	53.9	86.3	Relatively Moderate 12, Relatively Low 168, Very Low 54	
Hail	234 of 234	1.0	30.9	72.0	Relatively Moderate 1, Relatively Low 49, Very Low 184	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	234 of 234	1.3	52.5	85.8	Relatively High 1, Relatively Moderate 102, Relatively Low 110, Very Low 21	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	234 of 234	29.2	67.3	90.2	Relatively High 1, Relatively Moderate 18, Relatively Low 201, Very Low 14	
Ice Storm	234 of 234	0.1	18.7	62.7	Relatively Low 24, Very Low 210	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	234 of 234	0.2	10.0	81.6	Relatively High 2, Relatively Moderate 15, Relatively Low 80, Very Low 137	
Landslide	230 of 234	8.8	28.7	74.5	Very Low 230, No Rating 4	
Lightning	234 of 234	0.2	46.6	87.8	Relatively High 3, Relatively Moderate 96, Relatively Low 112, Very Low 23	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	234 of 234	0.3	13.6	41.0	Relatively Low 19, Very Low 215	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	234 of 234	0.4	22.3	57.4	Relatively Moderate 1, Relatively Low 32, Very Low 201	
Tsunami	0 of 234				Insufficient Data 234	
Volcanic Activity	0 of 234				Not Applicable 234	

Hazard	Tracts <i>rated of all</i>	Risk score min	Median	Max	Tracts by rating	Note
		<i>NRI score, 0 to 100</i>				
Wildfire	58 of 234	18.5	24.2	61.7	Very Low 58, No Rating 176	
Winter Weather	234 of 234	10.7	17.9	35.8	Relatively Low 104, Very Low 130	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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

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

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat- flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Boston city	City	Approved, expires 2026-12-05	FMA RL 0, SRL 1; any 26	\$45,961,014.74	52; 3	Includes \$18,681,437.54 for declarations not counted as hazard incidents (DR-4496-MA, EM-3362-MA).
Chelsea city	City	Approved, expires 2027-07-11	FMA RL 0, SRL 0; any 2	\$1,661,694.79	12; 1	Includes \$1,021,810.19 for declarations not counted as hazard incidents (DR-4496-MA, EM-3362-MA).
Revere city	City	Approved, expires 2027-02-16	FMA RL 0, SRL 38; any 289	\$3,826,049.73	31; 5	Includes \$2,430,637.03 for declarations not counted as hazard incidents (DR-4496-MA).
Winthrop Town city	City	Approved, expires 2031-08-13	FMA RL 0, SRL 12; any 154	none found	0; not yet covered	

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

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

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

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

Local data required

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

No county-level plan row in FEMA data, so there is no approval date to count from.

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since plan <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche											Not Applicable in NRI for this county
Coastal Flooding	\$12,374,361,444		59,451	\$5,228,356		\$1,059,907	0.0423%				
Cold Wave	\$133,076,607,263	\$670,845	796,207	\$677	\$64	\$8,677,694	under 0.0001%				
Drought		\$0			\$0						agriculture exposure is 0 in NRI
Earthquake	\$243,464,287,315		797,936	\$8,238,651		\$3,411,770	0.00338%				
Hail	\$133,088,168,367	\$670,845	796,326	\$598,469	\$2	\$16,652	0.00045%				
Heat Wave	\$133,079,559,396	\$670,845	796,237	\$30	\$82	\$9,433,664	under 0.0001%				
Hurricane	\$133,027,789,050	\$670,845	795,879	\$12,415,981	\$5,559	\$501,711	0.00933%				
Ice Storm	\$131,146,908,792		786,428	\$129,801		\$199,097	under 0.0001%				
Inland Flooding	\$132,925,403,810	\$49,371	42,435	\$59,469,894	\$313	\$47,960	n/a (see note)				NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. EAL as % of exposure: n/a.
Landslide	\$2,456,588,289		16,844	\$367		\$39	under 0.0001%				
Lightning	\$133,088,168,367		796,326	\$409,876		\$1,908,214	0.000308%				
Strong Wind	\$133,088,168,367	\$670,845	796,326	\$224,347	under \$1	\$255,897	0.000169%				
Tornado	\$133,088,168,367	\$670,845	796,326	\$2,217,516	\$5	\$378,485	0.00167%				
Tsunami											NRI publishes no building exposure for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$1,202,648,115	\$108,944	8,543	\$2,076	under \$1	\$290	0.000173%				
Winter Weather	\$133,081,860,865	\$670,845	796,260	\$26,709	under \$1	\$16,678	under 0.0001%				

Totals since the plan: not available. No county-level plan row in FEMA data, so there is no approval date to count from.

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

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

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

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Supports B2-a: context

County context

Measure	Value
Population	796,326
Building value (total, not at risk)	\$133,088,168,367
Agriculture value (total, not at risk)	\$670,845
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$88,968,776
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)	\$25,908,058
Social vulnerability rating	Relatively High
Community resilience rating	Very High
NRI version	December 2025

FEMA's all-hazard expected annual loss total adds buildings, agriculture and population equivalence; the two parts are shown separately so the property figure is not read as including the statistical value of life.

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

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	52
Repetitive loss, NFIP insurance definition	466	Severe repetitive loss, NFIP insurance definition	45

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

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

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

Repeat-flood properties: county total and NFIP communities

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	0	52	466	45	472	4	143
BOSTON, CITY OF	0	1	26	1	26	0	9
CHELSEA, CITY OF	0	0	2	0	2	0	1
REVERE, CITY OF	0	38	284	32	289	4	79
WINTHROP, TOWN OF	0	12	153	11	154	0	54
Unknown (community ID Unknown in FEMA data)	0	1	1	1	1	0	0

SOURCES

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

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

Repeat-flood properties by plan member (NFIP community)

Member	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>	Note
Boston city	250286	0	1	26	1	26	0	9	
Chelsea city	250287	0	0	2	0	2	0	1	
Revere city	250288	0	38	284	32	289	4	79	
Winthrop Town city	250289	0	12	153	11	154	0	54	

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

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

SOURCES

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

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

County repeat-flood properties by occupancy group

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	0	24	275	19	279	3	96
2 to 4 unit residential	0	22	146	20	148	1	34
other residential	0	3	25	3	25	0	8
non-residential	0	3	20	3	20	0	5
not reported	0	0	0	0	0	0	0

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

SOURCES

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

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

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

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

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

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

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 466 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

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

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

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_MA_25025. Preview: automated baseline.