

Suffolk County, MA

Risk-assessment baseline packet

County FIPS: 25025 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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

Summary

Plan status as of 2026-09-30: No county-level plan row in FEMA data.

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$59,518,167 a year), Hurricane (\$12,923,252) and Earthquake (\$11,650,421).

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; 25025 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

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: 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>
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	66
Chelsea city	City	Approved, expires 2027-07-11	Chelsea, MA 2022 Hazard Mitigation Plan (FEMA plan 108264)	2022-07-12	2027-07-11	284
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	139
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	1,778
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	-1,967

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 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	n/a	\$3,411,770	\$11,650,421		Storm Events does not record earthquakes.
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	n/a	\$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	n/a	\$1,908,214	\$2,318,090	19	
9	Hail	Relatively Moderate	Relatively Low	\$598,469	\$2	\$16,652	\$615,123	20	
10	Strong Wind	Relatively Moderate	Relatively Low	\$224,347	under \$1	\$255,897	\$480,245	277	Includes 76 High Wind and 100 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
11	Ice Storm	Relatively Moderate	Relatively Moderate	\$129,801	n/a	\$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	

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
13	Wildfire	Very Low	Very Low	\$2,076	under \$1	\$290	\$2,366	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$367	n/a	\$39	\$406	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Drought	No Rating	No Expected Annual Losses	n/a	\$0	n/a	\$0	11	
	Tsunami	Insufficient Data	Insufficient Data	n/a	n/a	n/a	n/a	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

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

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

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: avalanche and volcanic activity. That is the evidence for leaving them out of the plan.

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

Supports FEMA checklist item B1-b: hazard location

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

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

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

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 104.05 (Relatively Moderate, 86.3); tract 103 (Relatively Moderate, 85.1); tract 810.01 (Relatively Moderate, 83.5)
Hurricane	tract 104.05 (Relatively High, 90.2); tract 701.04 (Relatively Moderate, 88.5); tract 103 (Relatively Moderate, 85.2)
Landslide	tract 1201.05 (Very Low, 74.5); tract 1606.01 (Very Low, 73.2); tract 1701.01 (Very Low, 72.3)
Tornado	tract 104.05 (Relatively Moderate, 57.4); tract 701.04 (Relatively Low, 52.5); tract 103 (Relatively Low, 44.9)
Tsunami	no tract has a National Risk Index rating for this hazard
Wildfire	tract 1703.02 (Very Low, 61.7); tract 1106.01 (Very Low, 54.9); tract 106 (Very Low, 52.9)

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 104.05 is Census Tract 104.05). 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)	50 records, 2002 to 2024 (49 zone-level)		Coastal Flood, 2012-10-29, \$3,000,000 property; \$0 crops (2012 dollars); NWS zone MAZ015		Event records naming jurisdictions in the plan: 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 records, 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		Countywide (zone-level records).	Cold/Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					
Drought	U.S. Drought Monitor scale (D0 to D4)	11 records, 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		Countywide (zone-level records).	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	24 records, 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 jurisdictions in the plan: Revere city (3 records), Boston city (2 records).	
Excessive Heat, Heat	heat index (in event narratives)	21 records, 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		Countywide (zone-level records).	Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	4 records, 2011 to 2021 (4 zone-level)		Strongest recorded: Tropical Storm record, 2011-08-28, \$3,450,000 property; \$0 crops (2011 dollars); NWS zone MAZ015		Countywide (zone-level records).	Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	0					
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	72 records, 1996 to 2024 (1 zone-level)		Flood, 2001-03-05, \$15,000,000 property; crops not reported (2001 dollars); NWS zone MAZ015		Event records naming jurisdictions in the plan: 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 is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Debris Flow	none (count and damage only)	0					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	19 records, 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 jurisdictions in the plan: Boston city (5 records), Revere 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)	176 records, 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	High Wind, 2012-10-29, \$3,000,000 property; \$0 crops (zone total, 2012 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	130 records, 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 jurisdictions in the plan: Boston city (31 records), Revere city (10 records), Chelsea city (3 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	1 record, 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 jurisdictions in the plan: Chelsea city (1 record), Revere city (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Tsunami	none (count and damage only)	0					
Wildfire	acres burned (local data)	0					
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	99 records, 1996 to 2026 (99 zone-level)		Heavy Snow, 1996-01-07, \$7,000,000 property; crops not reported (1996 dollars); NWS zone MAZ015		Countywide (zone-level records).	

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

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

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 38 declarations covering 28 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

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

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
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	no Public Assistance recorded		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	no Public Assistance recorded		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	no Public Assistance recorded		
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	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>		
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
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	no Public Assistance recorded		
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	no Public Assistance recorded		
1996-10-23	1996-10-20	EM-3119-MA	Emergency	Extreme Weather Conditions and Flooding	Inland Flooding	no Public Assistance recorded		same incident as DR-1142
1996-01-24	1996-01-07	DR-1090-MA	Major disaster	Blizzard of 96	Winter Weather	no Public Assistance recorded		
1993-03-16	1993-03-13	EM-3103-MA	Emergency	Blizzards, High Winds & Record Snowfall	Winter Weather	no Public Assistance recorded		
1992-12-21	1992-12-11	DR-975-MA	Major disaster	Winter Coastal Storm	Coastal Flooding	no Public Assistance recorded		
1991-11-04	1991-10-30	DR-920-MA	Major disaster	Coastal Storm	Coastal Flooding	no Public Assistance recorded		
1991-08-26	1991-08-19	DR-914-MA	Major disaster	Hurricane Bob	Hurricane	no Public Assistance recorded		
1985-10-28	1985-09-27	DR-751-MA	Major disaster	Hurricane Gloria	Hurricane	no Public Assistance recorded		
1978-02-10	1978-02-06	DR-546-MA	Major disaster	Coastal Storms, Flood, Ice & Snow	Coastal Flooding	no Public Assistance recorded		
1978-02-07	1978-02-07	EM-3059-MA	Emergency	Blizzard & Snowstorms	Winter Weather	no Public Assistance recorded		
1973-10-16	1973-10-16	DR-405-MA	Major disaster	Fire (City of Chelsea)	Non-natural, not counted	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>		
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		
1972-03-06	1972-03-06	DR-325-MA	Major disaster	Severe Storms & Flooding	Inland Flooding	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
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, so they are listed on every county page in the state and not counted with county rows. Local data needed: whether each one affected this county.

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

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

Sources: 2, 3

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.

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	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			Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
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	
Strong Wind	306			27	0		1955 to 2026-06-30	Includes 76 High Wind and 100 Strong Wind records.

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
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
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	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Why listed
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 (zone total, 2012 dollars)	0, 0	NWS zone MAZ015 (SUFFOLK), zone-level	B1-c worst recorded: Coastal Flood, Storm Surge/Tide
2011-08-28	Tropical Storm		\$3,450,000 property; \$0 crops (zone total, 2011 dollars)	0, 0	NWS zone MAZ015 (SUFFOLK), zone-level	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 (zone total, 2007 dollars)	1, 0	NWS zone MAZ015 (SUFFOLK), zone-level	deaths or injuries recorded
2006-01-18	High Wind	68 kt (78 mph) measured gust	\$100,000 property; crops not reported (zone total, 2006 dollars)	0, 0	NWS zone MAZ015 (SUFFOLK / ALSO PART OF NORFOLK), zone-level	B1-c worst recorded: High Wind and Strong Wind
2001-05-03	Excessive Heat		damage not reported	0, 0	NWS zone MAZ015 (SUFFOLK / ALSO PART OF NORFOLK), zone-level	B1-c worst recorded: Excessive Heat, Heat
2001-03-05	Flood		\$15,000,000 property; crops not reported (zone total, 2001 dollars)	0, 0	NWS zone MAZ015 (SUFFOLK), zone-level	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	deaths or injuries recorded
1996-01-07	Heavy Snow		\$7,000,000 property; crops not reported (zone total, 1996 dollars)	0, 0	NWS zone MAZ015 (SUFFOLK), zone-level	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 Excel file, sheet "B1-d Storm Events history" (615 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	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.
Cold Wave	1.19	event-days per year	about 1.19 days per year	Likely	Storm Events event-days in 6 of 30 years, 1996 to 2025 (20%)	11.6	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	6.68	event-days per year	about 6.68 days per year	Likely	Storm Events event-days in 4 of 30 years, 1996 to 2025 (13.3%)	196	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
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	No descriptor (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	Storm Events event-days in 9 of 30 years, 1996 to 2025 (30%)	44.9	2005-11-12 to 2024-11-12 (19 years)	countywide	
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 in B1-d.
Ice Storm	1.01	event-days per year	about 1.01 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	39	1946-12-31 to 2014-02-12 (67 years)	countywide	No Storm Events ice storm record, 1996 to 2025
Inland Flooding	1.68	event-days per year	about 1.68 days per year	Likely	Storm Events 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 descriptor: no Storm Events record 1996 to 2025
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 descriptor: no Storm Events record 1996 to 2025
Winter Weather	12.2	event-days per year	about 12.2 days per year	Highly likely	Storm Events 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) 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	6	30	0.2
Hail	2.00 in+	1996 to 2025	1	30	0.0333
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	99	30	3.3
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	1	30	0.0333
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	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

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	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
Drought	0 of 234				No Rating 234
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
Heat Wave	234 of 234	1.3	52.5	85.8	Relatively High 1, Relatively Moderate 102, Relatively Low 110, Very Low 21
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
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
Strong Wind	234 of 234	0.3	13.6	41.0	Relatively Low 19, Very Low 215
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
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

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, 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.

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Boston city	City	Approved, expires 2026-12-05	FMA RL 0, SRL 1; any 26	\$45,961,014.74	52 total; 3 since its plan	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 total; 1 since its plan	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 total; 5 since its plan	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	no Public Assistance recorded	0 total; not yet covered	

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

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

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.

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 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 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
Coastal Flooding	\$12,374,361,444	n/a	59,451	\$5,228,356	n/a	\$1,059,907	0.0423%				
Cold Wave	\$133,076,607,263	\$670,845	796,207	\$677	\$64	\$8,677,694	under 0.0001%				
Drought	n/a	\$0	n/a	n/a	\$0	n/a					agriculture exposure is 0 in NRI
Earthquake	\$243,464,287,315	n/a	797,936	\$8,238,651	n/a	\$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	n/a	786,428	\$129,801	n/a	\$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.
Landslide	\$2,456,588,289	n/a	16,844	\$367	n/a	\$39	under 0.0001%				
Lightning	\$133,088,168,367	n/a	796,326	\$409,876	n/a	\$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%				

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 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
Tsunami	n/a	n/a	n/a	n/a	n/a	n/a					NRI publishes no building exposure 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.

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

The state NFIP coordinator's list, the source FEMA's Handbook names, often uses the NFIP insurance definition (second row).

Repeat-flood properties: county total and NFIP communities

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	0	52	466	45	472	4	143
of which: Boston city	0	1	26	1	26	0	9
of which: Chelsea city	0	0	2	0	2	0	1
of which: Revere city	0	38	284	32	289	4	79
of which: Winthrop town	0	12	153	11	154	0	54
of which: Unknown (community ID Unknown in FEMA data)	0	1	1	1	1	0	0

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>
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

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	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

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 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

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_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 (used to match place names and codes; no table prints its values)

What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment (the summary on page 1 says how it is organized); the plan and FEMA's review decide whether each item is met.

The plan adds what only the community has: local data on assets, critical facilities, development and each jurisdiction's impacts; local hazard history, including state-declared emergencies; the mitigation strategy; and adoption.

How the federal data are built: National Risk Index values are FEMA's model, not counts of events. Storm Events is more complete from 1996; zone-level records are placed by forecast zone, not by location in the county. Public Assistance for a jurisdiction is matched by applicant name. The Methods page gives every rule and the known edge cases.

OpenFEMA disclaimer

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

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