

Marin County, CA

Risk-assessment baseline packet

County FIPS: 06041 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: Approved, expires 2029-01-30. Plan: Marin County (FEMA plan 109560), approved 2024-01-31.

Since the plan was approved on 2024-01-31: no new hazard declaration and 45 NOAA Storm Events records; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$116,012,090 a year), Earthquake (\$109,667,898) and Coastal Flooding (\$19,783,282).

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; 06041 is this area.

D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).

F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.

kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.

CFR: Code of Federal Regulations.

A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).

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

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Plan clock

Status:	Approved, expires 2029-01-30	Plan:	Marin County (FEMA plan 109560)
Approved:	2024-01-31	Days to expiry:	853

What changed since your last plan (approved 2024-01-31)

New federal declarations:	none	Storm Events records since approval:	45 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 4, SRL 30 (44 CFR 77.2); any definition: 235	Repeat-flood change:	this release sets the baseline count.

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

Plan status for every jurisdiction listed in this county: 18 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Notes
Marin County	County	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-03-22
Belvedere city	City	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-09-19
Corte Madera town	Town	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	
Fairfax town	Town	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-07-16
Larkspur city	City	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-09-23
Mill Valley city	City	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-09-19
Novato city	City	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-09-19
Ross town	Town	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-08-12
San Anselmo town	Town	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-09-19
San Rafael city	City	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-10-23
Sausalito city	City	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-04-22
Tiburon town	Town	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-07-24
Bolinas Community Public Utility District	Electric/Power Authority	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-07-22
Las Gallinas Valley Sanitary District	Water/Sewer Authority	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-09-30
Marin County Transit District	Special District	Approved, expires 2027-11-09	Metropolitan Transportation Commission (FEMA plan 110161)	2022-11-10	2027-11-09	405	this jurisdiction approved 2024-09-03
Marin Municipal Water District	Water/Sewer Authority	Approved, expires 2027-03-20	Marin Municipal Water District (FEMA plan 107927)	2022-03-21	2027-03-20	171	
North Marin Water District	Water/Sewer Authority	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-07-18
Southern Marin Fire Protection District	Fire/EMS District	Approved, expires 2029-01-30	Marin County (FEMA plan 109560)	2024-01-31	2029-01-30	853	this jurisdiction approved 2024-10-23

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>	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Relatively High	Relatively High	\$115,135,489	\$315,166	\$561,435	\$116,012,090	114		
2	Earthquake	Relatively High	Relatively High	\$83,866,586	n/a	\$25,801,313	\$109,667,898			Storm Events does not record earthquakes.
3	Coastal Flooding	Very High	Very High	\$19,709,910	n/a	\$73,378	\$19,783,282	27		
4	Tsunami	Relatively Moderate	Relatively Moderate	\$6,374,117	n/a	\$0	\$6,374,117	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
5	Wildfire	Relatively Moderate	Relatively Moderate	\$3,460,593	\$1,063	\$154,697	\$3,616,353	23		
6	Landslide	Relatively High	Relatively High	\$783,700	n/a	\$1,130,250	\$1,913,950	31		
7	Heat Wave	Relatively Low	Relatively Low	\$69	\$327	\$1,300,244	\$1,300,639	22		
8	Tornado	Very Low	Very Low	\$180,823	\$86	\$61,554	\$242,464	1		
9	Drought	Relatively Low	Relatively Low	n/a	\$183,012	n/a	\$183,012	0		Declared 1 time; no Storm Events record of this type.
10	Lightning	Relatively Low	Relatively Low	\$7,957	n/a	\$138,348	\$146,305	2		

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
11	Strong Wind	Very Low	Very Low	\$45,791	\$8	\$50,207	\$96,006	186		Includes 61 High Wind and 121 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
12	Hail	Very Low	Very Low	\$6,571	\$531	\$1,556	\$8,658	12		
13	Winter Weather	Very Low	Very Low	\$56	under \$1	\$3,060	\$3,116	2		
14	Volcanic Activity	Very Low	Very Low	under \$1	n/a	\$56	\$56	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Cold Wave	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	12		Includes 10 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
	Hurricane	Not Applicable	Not Applicable					0	NRI rates hurricane Not Applicable for this county, and no counted federal declaration for this county names it (EM-3248-CA names it but is not counted as a local occurrence; see B1-d).	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Ice Storm	Not Applicable	Not Applicable					0		Declared 1 time; no Storm Events record of this type.

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 tsunami and volcanic activity 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. 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 1122.02 (Very High, 99.6); tract 1121 (Very High, 98.8); tract 1110.02 (Very High, 98.6)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 1330 (Very High, 99.9); tract 1322 (Relatively High, 99.9); tract 1311 (Relatively High, 99.8)
Tornado	tract 1122.02 (Very Low, 18.4); tract 1101 (Very Low, 17.4); tract 1102 (Very Low, 16.8)
Tsunami	tract 1302.04 (Relatively Moderate, 93.0); tract 1122.02 (Relatively Moderate, 92.3); tract 1321 (Relatively Moderate, 91.0)
Volcanic Activity	tract 1031 (Very Low, 73.4); tract 1101 (Very Low, 72.5); tract 1041.02 (Very Low, 72.0)
Wildfire	tract 1330 (Very High, 99.3); tract 1031 (Relatively High, 97.5); tract 1130 (Relatively High, 97.2)

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 1122.02 is Census Tract 1122.02). 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)	27 records, 2005 to 2026 (27 zone-level)		Coastal Flood, 2005-12-31, \$340,000 property; crops not reported (2005 dollars); NWS zone CAZ505		Countywide (zone-level records).	Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	2 records, 2013 to 2017 (2 zone-level)	1 day; 2 with a recorded value	1 consecutive day, 2017-04-08, zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	10 records, 2007 to 2023 (10 zone-level)		Frost/Freeze, 2007-01-06, \$3,000,000 crop damage (2007 dollars); NWS zone CAZ506		Countywide (zone-level records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Drought	U.S. Drought Monitor scale (D0 to D4)	0					Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	12 records, 1996 to 2021	0.25 in; 11 with a recorded value	0.25 in hail, 2021-03-10; same size also recorded on 2017-11-04, 2018-01-25, 2018-03-02, 2018-03-03, 2018-03-17, 2018-04-16, 2019-12-25, 2020-03-25, 2020-08-17	Hail, 2019-12-25, \$500 property; \$0 crops (2019 dollars)	Event records naming jurisdictions in the plan: Corte Madera town (2 records), San Rafael city (2 records), Sausalito city (2 records), Ross town (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	22 records, 2006 to 2026 (22 zone-level)	1 day to 6 days (median 1 day); 14 with a recorded value	6 consecutive days, 2024-10-02 to 2024-10-07, zone-level	Heat, 2023-07-16, \$0 property; \$10 crops (zone total, 2023 dollars)	Countywide (zone-level records).	Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					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)	114 records, 1997 to 2025		Flood, 2006-01-01, \$108,000,000 property; crops not reported (2006 dollars)		Event records naming jurisdictions in the plan: Larkspur city (7 records), Corte Madera town (3 records), Novato city (3 records), San Anselmo town (2 records), San Rafael city (2 records), Fairfax town (1 record), Ross town (1 record).	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	31 records, 2006 to 2021 (7 zone-level)		Debris Flow, 2006-04-01, \$14,400,000 property; \$20,000,000 crops (2006 dollars), 1 direct death (reported for the zone); NWS zone CAZ506		Event records naming jurisdictions in the plan: Sausalito city (7 records), Larkspur city (1 record). Zone-level records (7) apply countywide.	
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	2 records, 2009 to 2019		Lightning, 2009-09-12, \$30,000 property; \$0 crops (2009 dollars)		No event record names a jurisdiction in the plan.	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	182 records, 2005 to 2026 (182 zone-level)	22 kt (25 mph) to 94 kt (108 mph) (median 45 kt (52 mph)); 177 with a recorded value	94 kt (108 mph) measured gust, High Wind, 2025-12-24; NWS zone CAZ502	Strong Wind, 2006-12-27, \$500,000 property; \$0 crops (zone total, 2006 dollars)	Countywide (zone-level records).	Speeds under 20 kt (likely entry errors) are left out of the observed range.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Thunderstorm Wind	wind speed (kt and mph)	4 records, 2004 to 2025	50 kt (58 mph) to 78 kt (90 mph) (median 60.5 kt (70 mph)); 4 with a recorded value	78 kt (90 mph) measured gust, Thunderstorm Wind, 2025-12-25		Event records naming jurisdictions in the plan: Sausalito city (1 record).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	1 record, 1996	F/EF1; 1 with a recorded value	F1 tornado, 1996-12-23, 6 mi within this county, 20 yd wide, \$200,000 property; \$5,000 crops (1996 dollars)		No event record names a jurisdiction in the plan.	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Tsunami	none (count and damage only)	0					
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					
Wildfire	acres burned (local data)	23 records, 2013 to 2024 (23 zone-level)		Wildfire, 2013-05-01, \$500,000 property; \$0 crops (2013 dollars); NWS zone CAZ507		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	2 records, 2006 to 2011 (2 zone-level)		No damage reported in 2 records.		Countywide (zone-level records).	

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

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: 26 declarations covering 22 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2023-04-03	2023-02-21	DR-4699-CA	Major disaster	Severe Winter Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides	Ice Storm; Inland Flooding; Landslide; Strong Wind; Winter Weather	\$1,043,154.35	in the 12 months before plan approval; within last 5 years	
2023-01-14	2022-12-27	DR-4683-CA	Major disaster	Severe Winter Storms, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide, Winter Weather	\$1,915,579.25	within last 5 years	
2023-01-09	2023-01-08	EM-3591-CA	Emergency	Severe Winter Storms, Flooding, and Mudslides	Inland Flooding (primary); also designated: Landslide, Winter Weather	no Public Assistance recorded	within last 5 years	same incident as DR-4683
2020-03-22	2020-01-20	DR-4482-CA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$38,113,244.59		
2020-03-13	2020-01-20	EM-3428-CA	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4482
2019-05-17	2019-02-24	DR-4434-CA	Major disaster	Severe Winter Storms, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Winter Weather	\$319,460.10		
2019-05-01	2019-02-13	DR-4431-CA	Major disaster	Severe Winter Storms, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Winter Weather	\$1,935,611.28		
2017-04-01	2017-02-01	DR-4308-CA	Major disaster	Severe Winter Storms, Flooding, and Mudslides	Inland Flooding (primary); also designated: Landslide, Winter Weather	\$2,943,087.60		
2017-02-14	2017-01-03	DR-4301-CA	Major disaster	Severe Winter Storms, Flooding, and Mudslides	Inland Flooding; Landslide; Winter Weather	\$3,809,032.93		
2006-06-05	2006-03-29	DR-1646-CA	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide	\$3,066,789.36		
2006-02-03	2005-12-17	DR-1628-CA	Major disaster	Severe Storms, Flooding, Mudslides, and Landslides	Inland Flooding; Landslide	\$10,238,711.78		
2005-09-13	2005-08-29	EM-3248-CA	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
1998-02-09	1998-02-02	DR-1203-CA	Major disaster	Severe Winter Storms and Flooding	Inland Flooding; Winter Weather	no Public Assistance recorded		
1997-01-04	1996-12-28	DR-1155-CA	Major disaster	Severe Storms, Flooding, Mud and Landslides	Inland Flooding; Landslide	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>		
1995-03-12	1995-02-13	DR-1046-CA	Major disaster	Severe Winter Storms, Flooding Landslides, Mud Flow	Inland Flooding; Landslide; Winter Weather	no Public Assistance recorded		
1995-01-10	1995-01-03	DR-1044-CA	Major disaster	Severe Winter Storms, Flooding, Landslides, Mud Flows	Inland Flooding; Landslide; Winter Weather	no Public Assistance recorded		
1991-02-11	1990-12-19	DR-894-CA	Major disaster	Severe Freeze	Cold Wave	PA not declared for this county		
1989-10-18	1989-10-17	DR-845-CA	Major disaster	Loma Prieta Earthquake	Earthquake	no Public Assistance recorded		
1986-02-21	1986-02-12	DR-758-CA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1983-02-09	1983-01-21	DR-677-CA	Major disaster	Coastal Storms, Floods, Slides & Tornadoes	Coastal Flooding; Inland Flooding; Landslide; Tornado	no Public Assistance recorded		
1982-01-07	1981-12-19	DR-651-CA	Major disaster	Severe Storms, Flood, Mudslides & High Tide	Inland Flooding (primary); also designated: Landslide	no Public Assistance recorded		
1977-01-20	1977-01-20	EM-3023-CA	Emergency	Drought	Drought	no Public Assistance recorded		
1973-02-08	1973-02-08	DR-364-CA	Major disaster	Severe Storms, High Tides & Flooding	Inland Flooding (primary); also designated: Coastal Flooding	no Public Assistance recorded		
1970-02-16	1970-02-16	DR-283-CA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1969-01-26	1969-01-26	DR-253-CA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1964-12-24	1964-12-24	DR-183-CA	Major disaster	Heavy Rains & Flooding	Inland Flooding	no Public Assistance recorded		

School districts and special districts in this county: \$1,890,005.91 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan participants in this county. They have no row of their own in the jurisdiction table, so their total is listed here. These dollars are already included in the county PA column of the declarations table (the FEMA record places each applicant in this county), so this line is not added to it.

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
1964-04-01	1964-04-01	DR-169-CA	Major disaster	Seismic Sea Wave	Tsunami
1963-12-21	1963-12-21	DR-161-CA	Major disaster	Flood Due to Broken Dam	Other, not an NRI hazard; not counted
1963-02-25	1963-02-25	DR-145-CA	Major disaster	Severe Storms, Heavy Rains & Flooding	Inland Flooding
1962-10-24	1962-10-24	DR-138-CA	Major disaster	Severe Storms & Flooding	Inland Flooding
1962-03-06	1962-03-06	DR-122-CA	Major disaster	Floods	Inland Flooding
1961-11-16	1961-11-16	DR-119-CA	Major disaster	Fire (Los Angeles County)	Wildfire
1958-04-04	1958-04-04	DR-82-CA	Major disaster	Heavy Rainstorms & Flood	Inland Flooding
1956-12-29	1956-12-29	DR-65-CA	Major disaster	Forest Fire	Wildfire
1955-12-23	1955-12-23	DR-47-CA	Major disaster	Flood	Inland Flooding
1954-02-05	1954-02-05	DR-15-CA	Major disaster	Flood & Erosion	Inland Flooding

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

5 Fire Management declarations (1977-08-07 to 1988-09-13) 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: 2 rows, \$44,496.59

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-4344-CA	2017-10-10	Wildfires	Sonoma-Marín Area Rail Transit District	\$36,185.19
DR-4193-CA	2014-09-11	Earthquake	North Coast Railroad Authority	\$8,311.40

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	27	5	1	9	2	0	1996 to 2026-06-30	
Cold Wave	12	0	0	1	1	0	1996 to 2026-06-30	Includes 10 Frost/Freeze records.
Drought	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Earthquake	0	0	0	0	1	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.

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
Hail	12	0	0	0	0	0	1955 to 2026-06-30	
Heat Wave	22	6	2	13	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Inland Flooding	114	13	5	21	19	0	1996 to 2026-06-30	
Landslide	31	0	0	0	13	0	1996 to 2026-06-30	
Lightning	2	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	186	20	5	35	1	0	1955 to 2026-06-30	Includes 61 High Wind and 121 Strong Wind records.
Tornado	1	0	0	0	1	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	23	1	0	1	0	0	1996 to 2026-06-30	
Winter Weather	2	0	0	0	9	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2026-03-21	Strong Wind	26 kt (30 mph) estimated gust	\$0 property; \$0 crops (zone total, 2026 dollars)	1, 1	NWS zone CAZ505 (COASTAL NORTH BAY INCLUDING POINT REYES NATIONAL SEASHORE), zone-level	new since last plan; within last 5 years	deaths or injuries recorded
2025-12-25	Thunderstorm Wind	78 kt (90 mph) measured gust	\$0 property; \$0 crops (2025 dollars)	0, 0	WOODACRE	new since last plan; within last 5 years	B1-c worst recorded: Thunderstorm Wind
2025-12-24	High Wind	94 kt (108 mph) measured gust	\$0 property; \$0 crops (zone total, 2025 dollars)	0, 0	NWS zone CAZ502 (MARIN COASTAL RANGE), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2024-10-02	Heat		\$0 property; \$0 crops (zone total, 2024 dollars)	0, 19	NWS zone CAZ506 (NORTH BAY INTERIOR VALLEYS), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2020-08-17	Wildfire		damage not reported	3, 5	NWS zone CAZ507 (NORTH BAY MOUNTAINS), zone-level		deaths or injuries recorded
2013-05-01	Wildfire		\$500,000 property; \$0 crops (zone total, 2013 dollars)	0, 0	NWS zone CAZ507 (NORTH BAY MOUNTAINS), zone-level		B1-c worst recorded: Wildfire
2009-09-12	Lightning		\$30,000 property; \$0 crops (2009 dollars)	0, 0	MILL VLY		B1-c worst recorded: Lightning
2006-04-01	Debris Flow		\$14,400,000 property; \$20,000,000 crops (zone total, 2006 dollars)	1, 0	NWS zone CAZ506 (NORTH BAY INTERIOR VALLEYS), zone-level		B1-c worst recorded: Debris Flow
2006-03-11	Winter Weather		damage not reported	2, 15	NWS zone CAZ505 (COASTAL NORTH BAY INCLUDING POINT REYES NATIONAL SEASHORE), zone-level		deaths or injuries recorded
2006-01-01	Flood		\$108,000,000 property; crops not reported (2006 dollars)	0, 0	COUNTYWIDE		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2005-12-31	Coastal Flood		\$340,000 property; crops not reported (zone total, 2005 dollars)	0, 0	NWS zone CAZ505 (COASTAL NORTH BAY INCLUDING POINT REYES NATIONAL SEASHORE), zone-level		B1-c worst recorded: Coastal Flood, Storm Surge/Tide
1996-12-23	Tornado	F1, 6 mi within this county, 20 yd wide	\$200,000 property; \$5,000 crops (1996 dollars)	0, 0	TOMALES		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (432 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	1.62	events per year at a location (modeled)	about 1.6 per year at a given location in the county	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	Descriptor from NRI: the rate at a location is 1 or more a year, so the county rate is at least that.
Cold Wave	0	event-days per year	none modeled	Possible	Storm Events event-days in 2 of 30 years, 1996 to 2025 (6.67%)	0	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI models no cold wave event-days here (2005-11-12 to 2024-11-12, 19 years); Storm Events has a record in 2 of 30 years. The descriptor comes from Storm Events, which records events NRI's definition leaves out.
Drought	29	event-days per year	about 29 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	959	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.0975	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 9.75%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.0199	events per year	about 1 in 50 years	Possible	FEMA annualized frequency (modeled)	0.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	4.53	event-days per year	about 4.53 days per year	Likely	Storm Events event-days in 8 of 30 years, 1996 to 2025 (26.7%)	43.4	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane		events per year					1851 to 2024 (Atlantic); 1949 to 2024 (Pacific)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Ice Storm		event-days per year					1946-12-31 to 2014-02-12 (67 years)	countywide	Not Applicable in NRI for this county; no descriptor.
Inland Flooding	2.11	event-days per year	about 2.11 days per year	Likely	Storm Events event-days in 19 of 30 years, 1996 to 2025 (63.3%)	59	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	12	events per year (modeled)	about 12 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	3.29	days per year with a strike	about 3.29 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.0315	events per year	about 1 in 32 years	Possible	FEMA annualized frequency (modeled)	1	1986 to 2023 (38 years)	countywide	
Tornado	0.0498	events per year	about 1 in 20 years	Possible	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami	0.342	annual probability at the most exposed location (used in place of a county value)	chance at the county's most exposed location in a year: 34.2%		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
Volcanic Activity	0.0001	annual probability	about 1 in 10,000 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.00256	annual probability at a location	chance a given location in the county burns in a year: 0.256%	Likely	Storm Events records in 7 of 30 years, 1996 to 2025 (23.3%)	not shown	modeled	see B1-f	
Winter Weather	0.392	event-days per year	about 0.392 days per year	Possible	Storm Events event-days in 2 of 30 years, 1996 to 2025 (6.67%)	4.82	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	0	30	0
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	3	30	0.1
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	0	30	0
Tornado	EF0-1	1996 to 2025	1	30	0.0333
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Coastal Flooding	39 of 62	70.9	95.3	100.0	Very High 9, Relatively High 10, Relatively Moderate 10, Relatively Low 7, Very Low 3, No Rating 23
Cold Wave	0 of 62				No Rating 62
Drought	16 of 62	69.5	79.0	94.7	Relatively Moderate 3, Relatively Low 5, Very Low 8, No Rating 46
Earthquake	62 of 62	80.0	92.9	99.6	Very High 10, Relatively High 40, Relatively Moderate 12
Hail	62 of 62	1.1	2.4	14.0	Very Low 62
Heat Wave	62 of 62	2.9	24.5	51.3	Relatively Low 43, Very Low 19
Hurricane	0 of 62				Not Applicable 62
Ice Storm	0 of 62				Not Applicable 62
Inland Flooding	62 of 62	4.0	84.2	99.7	Very High 16, Relatively High 19, Relatively Moderate 17, Relatively Low 8, Very Low 2
Landslide	61 of 62	20.9	96.2	99.9	Very High 1, Relatively High 4, Relatively Moderate 29, Relatively Low 20, Very Low 7, No Rating 1
Lightning	62 of 62	1.5	12.4	24.2	Relatively Low 7, Very Low 55
Strong Wind	62 of 62	3.5	10.5	16.2	Very Low 62
Tornado	62 of 62	2.2	7.1	18.4	Very Low 62
Tsunami	38 of 62	12.9	64.9	93.0	Relatively Moderate 8, Relatively Low 19, Very Low 11, Not Applicable 24
Volcanic Activity	58 of 62	40.7	55.9	73.4	Very Low 58, No Rating 4
Wildfire	56 of 62	19.5	81.9	99.3	Very High 1, Relatively High 3, Relatively Moderate 14, Relatively Low 25, Very Low 13, No Rating 6
Winter Weather	57 of 62	10.8	14.7	19.1	Relatively Low 1, Very Low 56, No Rating 5

Drought: Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

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

The score ranks a tract against all U.S. tracts (100 = highest). The rating is FEMA's category for the tract's risk value, computed differently, so the two can disagree.

Frequency data for drought, hail, heat wave, lightning, strong wind and winter weather are county-wide or coarse (49 km grid or NWS zone), the same for every jurisdiction; the tract range mostly reflects where buildings and people are (crop and livestock value where a line above names agriculture).

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Marin County	County	Approved, expires 2029-01-30	FMA RL 3, SRL 11; any 83	\$31,488,275.47	0 total; 0 since its plan	Includes \$27,573,213.69 for declarations not counted as hazard incidents (DR-4482-CA).
Belvedere city	City	Approved, expires 2029-01-30	FMA RL 0, SRL 0; any 2	no Public Assistance recorded	0 total; 0 since its plan	
Corte Madera town	Town	Approved, expires 2029-01-30	FMA RL 0, SRL 1; any 11	\$236,377.27	5 total; 0 since its plan	
Fairfax town	Town	Approved, expires 2029-01-30	FMA RL 1, SRL 1; any 6	\$2,016,200.40	1 total; 0 since its plan	Includes \$158,015.60 for declarations not counted as hazard incidents (DR-4482-CA).
Larkspur city	City	Approved, expires 2029-01-30	FMA RL 0, SRL 1; any 7	\$1,796,426.84	8 total; 2 since its plan	
Mill Valley city	City	Approved, expires 2029-01-30	FMA RL 0, SRL 1; any 9	\$1,522,358.58	0 total; 0 since its plan	
Novato city	City	Approved, expires 2029-01-30	FMA RL 0, SRL 2; any 41	\$284,449.64	3 total; 0 since its plan	
Ross town	Town	Approved, expires 2029-01-30	FMA RL 0, SRL 4; any 15	\$211,944.83	2 total; 0 since its plan	
San Anselmo town	Town	Approved, expires 2029-01-30	FMA RL 0, SRL 0; any 4	\$2,946,674.56	2 total; 0 since its plan	Includes \$18,574.12 for declarations not counted as hazard incidents (DR-4482-CA).
San Rafael city	City	Approved, expires 2029-01-30	FMA RL 0, SRL 7; any 46	\$2,889,381.91	4 total; 0 since its plan	Includes \$119,580.96 for declarations not counted as hazard incidents (DR-4482-CA).
Sausalito city	City	Approved, expires 2029-01-30	FMA RL 0, SRL 2; any 6	\$728,566.34	10 total; 0 since its plan	
Tiburon town	Town	Approved, expires 2029-01-30	FMA RL 0, SRL 0; any 4	\$549,751.67	0 total; 0 since its plan	

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.

- Critical facilities and lifelines per hazard

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2024-01-31 <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	\$19,199,217,113	n/a	70,387	\$19,709,910	n/a	\$73,378	0.103%		\$0		
Cold Wave	\$0	\$0	0	\$0	\$0	\$0					building exposure is 0 in NRI
Drought	n/a	\$11,007,168	n/a	n/a	\$183,012	n/a	1.66% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$115,752,540,914	n/a	262,321	\$83,866,586	n/a	\$25,801,313	0.0725%				
Hail	\$70,463,360,157	\$122,756,581	262,172	\$6,571	\$531	\$1,556	under 0.0001%				
Heat Wave	\$70,463,360,157	\$122,756,581	262,168	\$69	\$327	\$1,300,244	under 0.0001%		\$0		
Hurricane											Not Applicable in NRI for this county
Ice Storm											Not Applicable in NRI for this county
Inland Flooding	\$70,166,969,817	\$83,284,892	40,992	\$115,135,489	\$315,166	\$561,435	n/a (see note)	\$20			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	\$18,483,525,867	n/a	67,047	\$783,700	n/a	\$1,130,250	0.00424%				
Lightning	\$70,463,360,157	n/a	262,172	\$7,957	n/a	\$138,348	under 0.0001%				
Strong Wind	\$70,463,360,157	\$122,756,581	262,172	\$45,791	\$8	\$50,207	under 0.0001%	\$0	\$50		Storm Events damage since the plan includes 5 zone-level Strong Wind records (\$50): a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition.
Tornado	\$70,463,360,157	\$122,756,581	262,172	\$180,823	\$86	\$61,554	0.000257%				
Tsunami	\$36,914,806,250	n/a	39,734	\$6,374,117	n/a	\$0	0.0173%				
Volcanic Activity	\$70,463,360,157	n/a	262,172	under \$1	n/a	\$56	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2024-01-31 <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
Wildfire	\$7,976,111,226	\$88,046,523	35,856	\$3,460,593	\$1,063	\$154,697	0.0434%		\$10		
Winter Weather	\$61,479,644,470	\$91,765,291	232,066	\$56	under \$1	\$3,060	under 0.0001%				

Totals since 2024-01-31 (Storm Events through 2026-06-30): 15 county-coded records, 15 with a damage value recorded (including \$0), \$20; 30 zone-level records, 30 with a damage value recorded (including \$0), \$60 reported for the zone; Public Assistance: no counted declaration since the plan.

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

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

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

County context

Source: 5

Measure	Value
Population	262,172
Building value (total, not at risk)	\$70,463,360,157
Agriculture value (total, not at risk)	\$122,756,581
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$230,071,854
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)	\$29,276,098
Social vulnerability rating	Relatively Low
Community resilience rating	Very High
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	4	Severe repetitive loss, FMA definition (44 CFR 77.2)	30
Repetitive loss, NFIP insurance definition	233	Severe repetitive loss, NFIP insurance definition	28

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties
County total	4	30	233	28	235	1	81
of which: Marin County (unincorporated area)	3	11	83	11	83	0	22
of which: Fairfax town	1	1	6	1	6	0	4
of which: Mill Valley city	0	1	9	1	9	0	2
of which: Novato city	0	2	41	2	41	0	22
of which: Ross town	0	4	15	3	15	0	9
of which: San Anselmo town	0	0	4	0	4	0	4
of which: Sausalito city	0	2	6	2	6	0	1
of which: Belvedere city	0	0	2	0	2	0	0
of which: Tiburon town	0	0	4	0	4	0	1
of which: Corte Madera town	0	1	11	1	11	0	2
of which: Larkspur city	0	1	7	1	7	0	2
of which: San Rafael city	0	7	44	6	46	1	12
of which: Unknown (community ID Unknown in FEMA data)	0	0	1	0	1	0	0
Statewide, no county in FEMA's file	0	1	3	0	4	1	0

The statewide row counts properties FEMA's file gives with no county in this state; they are listed for reference and are not in this county's counts.

Repeat-flood properties by jurisdiction in the plan (NFIP community)

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Marin County	060173	3	11	83	11	83	0	22
Belvedere city	060429	0	0	2	0	2	0	0
Corte Madera town	065023	0	1	11	1	11	0	2
Fairfax town	060175	1	1	6	1	6	0	4
Larkspur city	065040	0	1	7	1	7	0	2
Mill Valley city	060177	0	1	9	1	9	0	2
Novato city	060178	0	2	41	2	41	0	22
Ross town	060179	0	4	15	3	15	0	9
San Anselmo town	060180	0	0	4	0	4	0	4
San Rafael city	065058	0	7	44	6	46	1	12
Sausalito city	060182	0	2	6	2	6	0	1
Tiburon town	060430	0	0	4	0	4	0	1

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	3	21	171	19	173	1	70
2 to 4 unit residential	0	1	11	1	11	0	2
other residential	0	1	6	1	6	0	1
non-residential	1	7	45	7	45	0	8
not reported	0	0	0	0	0	0	0

FEMA's occupancy groups have no institutional class; institutional properties are counted in non-residential or other residential in the table by occupancy group.

FMA RL and FMA SRL are the Flood Mitigation Assistance definitions (44 CFR 77.2), the ones the FEMA Local Mitigation Planning Policy Guide cites. NFIP repetitive loss (the FEMA insurance definition) is 2 or more claims over \$1,000 in 10 years, and a property can leave that group once it is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured. The Methods page gives the OpenFEMA field details.

Counts are aggregates of FEMA's public NFIP Multiple Loss Properties file (FEMA's data date 2026-08-02; file version 2026-08-04). No property is identified. County assignment is FEMA's geocode.

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 229 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):

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 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)
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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).

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Marin County, CA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 06041). Automated baseline. <https://hazardplain.org/ca/06041/> Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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