

Sonoma County, CA

Risk-assessment baseline packet

County FIPS: 06097 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 approved plan on record. Approvable pending adoption, not yet eligible.

Update: FEMA tracker shows a plan approvable pending adoption.

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Earthquake (\$283,623,246 a year), Inland Flooding (\$279,786,337) and Wildfire (\$16,831,009).

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; 06097 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:	No approved plan on record. Approvable pending adoption, not yet eligible	Plan:	none
Approved:	none	Expires:	none
Update underway:	FEMA tracker shows a plan approvable pending adoption		

Not yet eligible: adopt the approved plan.

Not yet eligible: adopt the approved plan.

What changed since your last plan

Not available. No approved plan on record, 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: 66 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 <i>negative = days since expiry</i>	Update underway	Notes
Sonoma County	County	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Cloverdale city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Cotati city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Healdsburg city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Petaluma city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Rohnert Park city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Santa Rosa city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sebastopol city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sonoma city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Windsor town	Town	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Alexander Valley Union School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-12
Bellevue Union School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-06-22
Bennett Valley Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-06

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Cinnabar Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-12
Cloverdale Unified School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-05-25
Cotati-Rohnert Park Unified School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-06-22
Dunham Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-08-31
Forestville Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-05-25
Fort Ross Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-06-22
Geyserville Unified School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-05-25
Gravenstein Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-12
Guerneville Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-06-22
Harmony Union School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-08-31
Healdsburg Unified School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-05-25
Horicon Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-05-25
Kashia Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-10-10
Kenwood Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-05-25
Liberty Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-06-22

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Mark West Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-12
Monte Rio Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-12
Montgomery Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-12
Oak Grove Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-05-25
Old Adobe Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-08-31
Petaluma City Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-12
Piner-Olivet Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-12
Rincon Valley Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-06
Roseland School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-08-31
Santa Rosa High School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-12
Sebastopol Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-12
Sonoma Valley Unified School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-05-25
Twin Hills Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-05-25
Two Rock Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-10-10
Waugh Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-12

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
West Side Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-05-25
West Sonoma County Union High School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-06
Wilmar Union Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-08-31
Windsor Unified School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-07-12
Wright Elementary School District	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		this jurisdiction approved 2023-06-22
Bodega Bay Public Utility District	Special District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Cloverdale Fire Protection District	Fire/EMS District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Gold Ridge Fire Protection District	Fire/EMS District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Northern Sonoma Coast Fire Protection District	Fire/EMS District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Northern Sonoma County Fire Protection District	Fire/EMS District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Rancho Adobe Fire Protection District	Fire/EMS District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Russian River Sanitation District	Water/Sewer Authority	Expired on 2023-04-16	Russian River County Sanitation District (FEMA plan 104964)	2018-04-17	2023-04-16	-1,263		
Santa Rosa Junior College	School/School District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sonoma County Ag and Open Space	Special District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sonoma County Fire Protection District	Fire/EMS District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sonoma County Office of Education	School/School District	Approved, expires 2028-04-17	Sonoma County Office of Education (FEMA plan 108826)	2023-04-18	2028-04-17	565		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Sonoma County Water Agency	Special District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sonoma Valley County Sanitation District	Water/Sewer Authority	Approved, expires 2028-02-24	Sonoma Valley County Sanitation District (FEMA plan 108664)	2023-02-25	2028-02-24	512		this jurisdiction approved 2023-02-24
Sonoma Valley Fire District	Fire/EMS District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sweetwater Springs Water District	Water/Sewer Authority	Approved, expires 2027-08-28	Sweetwater Springs Water District (FEMA plan 107516)	2022-08-29	2027-08-28	332		
Timber Cove Fire Protection District	Fire/EMS District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Timber Cove Water District	Water/Sewer Authority	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Valley of the Moon Water District	Water/Sewer Authority	Approved, expires 2031-07-21	Valley of the Moon Water District (FEMA plan 111981)	2026-07-22	2031-07-21	1,755		

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	Earthquake	Relatively High	Relatively High	\$207,634,430	n/a	\$75,988,816	\$283,623,246			Storm Events does not record earthquakes.
2	Inland Flooding	Relatively High	Relatively High	\$276,480,373	\$1,459,628	\$1,846,336	\$279,786,337	300		
3	Wildfire	Relatively High	Relatively High	\$16,125,391	\$5,266	\$700,352	\$16,831,009	24		
4	Drought	Relatively High	Relatively High	n/a	\$14,405,968	n/a	\$14,405,968	0		Declared 1 time; no Storm Events record of this type.
5	Landslide	Relatively High	Relatively High	\$1,991,122	n/a	\$3,052,836	\$5,043,958	67		
6	Heat Wave	Relatively Moderate	Relatively Moderate	\$54	\$11,062	\$2,973,692	\$2,984,808	25		
7	Coastal Flooding	Relatively Moderate	Relatively Moderate	\$1,073,831	n/a	\$1,048	\$1,074,879	27		
8	Lightning	Relatively Moderate	Relatively Moderate	\$64,372	n/a	\$277,104	\$341,477	3		
9	Tsunami	Very Low	Very Low	\$243,872	n/a	\$0	\$243,872	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
10	Tornado	Very Low	Very Low	\$121,918	\$382	\$40,347	\$162,646	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
11	Strong Wind	Very Low	Relatively Low	\$52,995	\$776	\$65,102	\$118,873	187		Includes 64 High Wind and 122 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
12	Hail	Very Low	Very Low	\$44,886	\$4,565	\$10,472	\$59,923	21		
13	Winter Weather	Very Low	Very Low	\$118	under \$1	\$6,296	\$6,414	2		
14	Volcanic Activity	Relatively Low	Relatively Low	\$2,728	n/a	\$126	\$2,854	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Avalanche	Very Low	Very Low	under \$1	n/a	\$9	\$10	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
16	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).

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>
Avalanche	tract 1516.01 (Very Low, 5.2); tract 1541 (Very Low, 4.9); tract 1505.02 (Very Low, 4.8)
Earthquake	tract 1520 (Very High, 99.9); tract 1521 (Very High, 99.9); tract 1527.02 (Very High, 99.8)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 1543.04 (Very High, 100.0); tract 1541 (Very High, 100.0); tract 1540 (Relatively High, 99.9)
Tornado	tract 1501 (Very Low, 12.0); tract 1506.12 (Very Low, 10.4); tract 1527.02 (Very Low, 8.6)
Tsunami	tract 1543.04 (Relatively Low, 73.0); tract 1543.05 (Relatively Low, 67.6); tract 1506.12 (Relatively Low, 66.8)
Volcanic Activity	tract 1541 (Relatively Low, 97.7); tract 1530.06 (Very Low, 76.4); tract 1506.03 (Very Low, 74.3)
Wildfire	tract 1511 (Very High, 99.6); tract 1541 (Very High, 99.4); tract 1506.12 (Relatively High, 98.8)

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 1516.01 is Census Tract 1516.01). 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
Avalanche	none (count and damage only)	0					Physical measure: in event narratives only (local data needed).
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).	Wind chill: in event narratives only (local data needed).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
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).	Temperature: in event narratives only (local data needed).
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)	21 records, 2003 to 2021	0.25 in to 0.75 in (median 0.25 in); 21 with a recorded value	0.75 in hail, 2003-12-09		Event records naming jurisdictions in the plan: Petaluma city (6 records), Santa Rosa city (5 records), Cotati city (2 records), Cloverdale city (1 record), Healdsburg city (1 record), Windsor town (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	25 records, 2006 to 2026 (25 zone-level)	1 day to 6 days (median 1 day); 15 with a recorded value	6 consecutive days, 2024-10-02 to 2024-10-07, zone-level	Heat, 2023-07-16, \$0 property; \$10 crops, reported for the zone (2023 dollars)	Countywide (zone-level records).	Heat index: in event narratives only (local data needed). 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					Ice thickness: in event narratives only (local data needed).
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	300 records, 1996 to 2026		Flood, 2006-01-01, \$104,000,000 property; \$3,000,000 crops (2006 dollars)		Event records naming jurisdictions in the plan: Petaluma city (9 records), Cotati city (8 records), Sebastopol city (6 records), Sonoma city (6 records), Windsor town (5 records), Healdsburg city (4 records), Santa Rosa city (3 records), Cloverdale city (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.

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)	67 records, 2006 to 2025 (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: Cotati city (1 record), Healdsburg city (1 record). Zone-level records (7) apply countywide.	Physical measure: in event narratives only (local data needed).
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	3 records, 2001 to 2020		Lightning, 2001-01-25, \$1,000,000 property; crops not reported (2001 dollars), 1 direct injury		Event records naming jurisdictions in the plan: Petaluma city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	186 records, 2005 to 2026 (186 zone-level)	22 kt (25 mph) to 89 kt (102 mph) (median 45 kt (52 mph)); 181 with a recorded value	89 kt (102 mph) measured gust, High Wind, 2019-10-27; NWS zone CAZ507	Strong Wind, 2006-12-27, \$500,000 property; \$0 crops, reported for the zone (2006 dollars)	Countywide (zone-level records).	Speeds under 20 kt (likely entry errors) are left out of the observed range.
Thunderstorm Wind	wind speed (kt and mph)	1 record, 2020	60 kt (69 mph); 1 with a recorded value	60 kt (69 mph) measured gust, Thunderstorm Wind, 2020-08-16		No event record names a jurisdiction in the plan.	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	13 records, 1958 to 2011	F/EF0 to F/EF2 (median F/EF1); 11 with a recorded value	F2 tornado, 1958-06-01, 15 mi path length (whole path, pre-1996), 50 yd wide, \$25,000 property; crops not recorded (1958 dollars)	Tornado, 1998-12-05, \$1,000,000 property; crops not reported (1998 dollars)	Event records naming jurisdictions in the plan: Santa Rosa city (3 records), Sonoma 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					Physical measure: in event narratives only (local data needed).
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only (local data needed).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Wildfire	acres burned (local data)	24 records, 2013 to 2025 (24 zone-level)		Wildfire, 2013-05-01, \$500,000 property; \$0 crops (2013 dollars); NWS zone CAZ507		Countywide (zone-level records).	Acres burned: in event narratives only (local data needed).
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).	Snow depth: in event narratives only (local data needed).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records whose zone 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: 36 declarations covering 25 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

No approved plan on record, 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
2023-04-03	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	\$1,391,913.64	within last 5 years	
2023-03-10	2023-03-09	EM-3592-CA	Emergency	Severe Winter Storms, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide, Winter Weather	no Public Assistance recorded	within last 5 years	same incident as DR-4699
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	\$5,842,575.33	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
2020-10-16	2020-09-04	DR-4569-CA	Major disaster	Wildfires	Wildfire	\$4,655,038.59		
2020-09-27	2020-09-27	FM-5376-CA	Fire management	Glass Fire	Wildfire	no Public Assistance recorded		same incident as DR-4569
2020-08-22	2020-08-14	DR-4558-CA	Major disaster	Wildfires	Wildfire	\$6,132,715.58		
2020-08-18	2020-08-17	FM-5331-CA	Fire management	Lnu Lightning Fire Complex	Wildfire	no Public Assistance recorded		same incident as DR-4558
2020-03-22	2020-01-20	DR-4482-CA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$45,199,762.65		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
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
2019-10-24	2019-10-24	FM-5295-CA	Fire management	Kincade Fire	Wildfire	no Public Assistance recorded		
2019-05-17	2019-02-24	DR-4434-CA	Major disaster	Severe Winter Storms, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Winter Weather	\$16,789,117.39		
2017-10-10	2017-10-08	DR-4344-CA	Major disaster	Wildfires	Wildfire	\$57,330,710.16		
2017-10-09	2017-10-09	FM-5222-CA	Fire management	Partrick Fire	Wildfire	no Public Assistance recorded		same incident as DR-4344
2017-10-09	2017-10-08	FM-5220-CA	Fire management	Nuns Fire	Wildfire	no Public Assistance recorded		same incident as DR-4344
2017-10-09	2017-10-08	FM-5215-CA	Fire management	Tubbs Fire	Wildfire	no Public Assistance recorded		same incident as DR-4344
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	\$2,987,303.17		
2017-02-14	2017-01-03	DR-4301-CA	Major disaster	Severe Winter Storms, Flooding, and Mudslides	Inland Flooding; Landslide; Winter Weather	\$8,460,512.43		
2015-09-13	2015-09-12	FM-5112-CA	Fire management	Valley Fire	Wildfire	no Public Assistance recorded		
2006-06-05	2006-03-29	DR-1646-CA	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide	\$2,320,347.08		
2006-02-03	2005-12-17	DR-1628-CA	Major disaster	Severe Storms, Flooding, Mudslides, and Landslides	Inland Flooding; Landslide	\$17,745,235.81		
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		
2004-09-04	2004-09-03	FM-2554-CA	Fire management	Ca-Geysers Fire-09-04-2004	Wildfire	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		
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		
1994-09-13	1994-05-01	DR-1038-CA	Major disaster	The El Nino (the Salmon Industry)	Fishing Losses: economic loss, not a physical hazard event; non-natural, not counted	PA not declared for this county		
1993-02-03	1993-01-05	DR-979-CA	Major disaster	Severe Winter Storm, Mud & Land Slides, & Flooding	Inland Flooding (primary); also designated: 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		
1986-02-21	1986-02-12	DR-758-CA	Major disaster	Severe Storms & Flooding	Inland Flooding	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>		
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		
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: \$3,720,976.22 (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: 1 row, \$58,449

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
EM-3287-CA	2008-06-28	Wildfires	Forestville Union School District	\$58,449

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
Avalanche	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	27			9	1		1996 to 2026-06-30	
Cold Wave	12			1	1		1996 to 2026-06-30	Includes 10 Frost/Freeze records.
Drought	0			0	1		1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Earthquake	0			0	0			Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	21			0	0		1955 to 2026-06-30	
Heat Wave	25			16	0		1996 to 2026-06-30	
Hurricane	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	0			0	1		1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Inland Flooding	300			62	17		1996 to 2026-06-30	
Landslide	67			1	13		1996 to 2026-06-30	
Lightning	3			0	0		1996 to 2026-06-30	
Strong Wind	187			37	1		1955 to 2026-06-30	Includes 64 High Wind and 122 Strong Wind records.
Tornado	13			0	1		1950 to 2026-06-30	
Tsunami	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	24			2	6		1996 to 2026-06-30	
Winter Weather	2			0	9		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, reported for the zone (2026 dollars)	1, 1	NWS zone CAZ505 (COASTAL NORTH BAY INCLUDING POINT REYES NATIONAL SEASHORE), zone-level	within last 5 years	deaths or injuries recorded
2024-10-02	Heat		\$0 property; \$0 crops, reported for the zone (2024 dollars)	0, 19	NWS zone CAZ506 (NORTH BAY INTERIOR VALLEYS), zone-level	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
2020-08-16	Thunderstorm Wind	60 kt (69 mph) measured gust	\$0 property; \$0 crops (2020 dollars)	0, 0	JIMTOWN		B1-c worst recorded: Thunderstorm Wind
2019-10-27	High Wind	89 kt (102 mph) measured gust	\$0 property; \$0 crops, reported for the zone (2019 dollars)	0, 0	NWS zone CAZ507 (NORTH BAY MOUNTAINS), zone-level		B1-c worst recorded: High Wind and Strong Wind
2013-05-01	Wildfire		\$500,000 property; \$0 crops, reported for the zone (2013 dollars)	0, 0	NWS zone CAZ507 (NORTH BAY MOUNTAINS), zone-level		B1-c worst recorded: Wildfire
2006-04-01	Debris Flow		\$14,400,000 property; \$20,000,000 crops, reported for the zone (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		\$104,000,000 property; \$3,000,000 crops (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, reported for the zone (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
2001-01-25	Lightning		\$1,000,000 property; crops not reported (2001 dollars)	0, 1	CENTRAL PORTION		B1-c worst recorded: Lightning
1958-06-01	Tornado	F2, 15 mi path length (whole path, pre-1996), 50 yd wide	\$25,000 property; crops not recorded (1958 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (681 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
Avalanche	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1994 to 2023 (30 years)	see B1-f	0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events.
Coastal Flooding	3.42	events per year at a location (modeled)	about 3.4 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	0	event-days per year	none modeled	Possible (from Storm Events: 2 of 30 years)	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	33.5	event-days per year	about 33.5 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	1,610	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.117	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 11.7%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.0175	events per year	about 1 in 57 years	Possible	FEMA annualized frequency (modeled)	0.7 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	7	event-days per year	about 7 days per year	Likely (from Storm Events: 8 of 30 years)	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	85.9	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	2.54	event-days per year	about 2.54 days per year	Likely (from Storm Events: 22 of 30 years)	event-days in 22 of 30 years, 1996 to 2025 (73.3%)	71	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	67.4	events per year (modeled)	about 67.4 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	3.73	days per year with a strike	about 3.73 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.0175	events per year	about 1 in 57 years	Possible	FEMA annualized frequency (modeled)	1	1986 to 2023 (38 years)	countywide	
Tornado	0.0815	events per year	about 1 in 12 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	0.00387	annual probability at a location	chance a given location in the county burns in a year: 0.387%	Likely (from Storm Events: 8 of 30 years)	Storm Events records in 8 of 30 years, 1996 to 2025 (26.7%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	0.738	event-days per year	about 0.738 days per year	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	12.6	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	1	30	0.0333
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	6	30	0.2
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	
Avalanche	8 of 121	3.9	4.6	5.2	Very Low 8, Not Applicable 113
Coastal Flooding	8 of 121	77.6	89.8	99.1	Relatively High 2, Relatively Moderate 2, Relatively Low 4, No Rating 113
Cold Wave	0 of 121				No Rating 121
Drought	58 of 121	72.7	92.9	99.9	Very High 2, Relatively High 9, Relatively Moderate 20, Relatively Low 22, Very Low 5, No Rating 63
Earthquake	121 of 121	85.2	95.2	99.9	Very High 32, Relatively High 79, Relatively Moderate 10
Hail	121 of 121	1.6	12.4	31.2	Very Low 121
Heat Wave	121 of 121	2.6	35.3	64.6	Relatively Moderate 2, Relatively Low 106, Very Low 13
Hurricane	0 of 121				Not Applicable 121
Ice Storm	0 of 121				Not Applicable 121
Inland Flooding	121 of 121	37.2	94.6	99.8	Very High 54, Relatively High 53, Relatively Moderate 11, Relatively Low 3
Landslide	121 of 121	10.2	68.9	100.0	Very High 2, Relatively High 14, Relatively Moderate 25, Relatively Low 10, Very Low 70
Lightning	121 of 121	5.4	17.7	33.6	Relatively Low 32, Very Low 89
Strong Wind	121 of 121	0.7	9.5	14.7	Very Low 121
Tornado	121 of 121	2.0	3.3	12.0	Very Low 121
Tsunami	4 of 121	39.5	67.2	73.0	Relatively Low 3, Very Low 1, No Rating 2, Not Applicable 115
Volcanic Activity	121 of 121	42.2	59.8	97.7	Relatively Low 1, Very Low 120
Wildfire	111 of 121	18.5	91.9	99.6	Very High 2, Relatively High 25, Relatively Moderate 34, Relatively Low 22, Very Low 28, No Rating 10
Winter Weather	121 of 121	10.7	15.1	16.8	Very Low 121

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
Sonoma County	County	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 80, SRL 286; any 870	\$113,955,854.55	0 total; no approved plan	Includes \$37,983,135.81 for declarations not counted as hazard incidents (DR-4482-CA).
Cloverdale city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 0	\$650,708.45	2 total; no approved plan	Includes \$26,219.84 for declarations not counted as hazard incidents (DR-4482-CA).
Cotati city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 0	\$155,558.57	11 total; no approved plan	Includes \$138,591.17 for declarations not counted as hazard incidents (DR-4482-CA).
Healdsburg city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 2; any 8	\$264,050.40	6 total; no approved plan	Includes \$102,779.52 for declarations not counted as hazard incidents (DR-4482-CA).
Petaluma city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 4; any 35	\$4,651,678.51	16 total; no approved plan	Includes \$1,376,733.56 for declarations not counted as hazard incidents (DR-4482-CA).
Rohnert Park city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 0	\$396,789.95	0 total; no approved plan	Includes \$173,093.82 for declarations not counted as hazard incidents (DR-4482-CA).
Santa Rosa city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 3	\$33,536,795.30	11 total; no approved plan	Includes \$4,773,836.09 for declarations not counted as hazard incidents (DR-4482-CA).
Sebastopol city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 2; any 7	\$295,361.14	6 total; no approved plan	

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
Sonoma city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 2	\$81,857.90	7 total; no approved plan	
Windsor town	Town	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 0	\$107,009.37	6 total; no approved plan	Includes \$61,939.87 for declarations not counted as hazard incidents (DR-4482-CA).

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 approved plan on record, 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
Avalanche	\$447,025	n/a	under 1	under \$1	n/a	\$9	0.000105%				
Coastal Flooding	\$7,781,238,095	n/a	24,796	\$1,073,831	n/a	\$1,048	0.0138%				
Cold Wave	\$0	\$0	0	\$0	\$0	\$0					building exposure is 0 in NRI

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
Drought	n/a	\$654,212,571	n/a	n/a	\$14,405,968	n/a	2.2% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$202,261,823,767	n/a	488,863	\$207,634,430	n/a	\$75,988,816	0.103%				
Hail	\$117,431,381,000	\$1,183,334,849	488,330	\$44,886	\$4,565	\$10,472	under 0.0001%				
Heat Wave	\$117,431,381,000	\$1,183,334,849	488,330	\$54	\$11,062	\$2,973,692	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm											Not Applicable in NRI for this county
Inland Flooding	\$117,386,099,617	\$403,474,195	11,863	\$276,480,373	\$1,459,628	\$1,846,336	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	\$5,531,293,133	n/a	19,401	\$1,991,122	n/a	\$3,052,836	0.036%				
Lightning	\$117,431,381,000	n/a	488,330	\$64,372	n/a	\$277,104	under 0.0001%				
Strong Wind	\$117,431,381,000	\$1,183,334,849	488,330	\$52,995	\$776	\$65,102	under 0.0001%				
Tornado	\$117,431,381,000	\$1,183,334,849	488,330	\$121,918	\$382	\$40,347	0.000104%				
Tsunami	\$1,681,936,998	n/a	233	\$243,872	n/a	\$0	0.0145%				
Volcanic Activity	\$117,431,381,000	n/a	488,330	\$2,728	n/a	\$126	under 0.0001%				
Wildfire	\$14,537,390,714	\$490,548,344	75,363	\$16,125,391	\$5,266	\$700,352	0.111%				
Winter Weather	\$115,846,069,058	\$1,182,985,103	485,731	\$118	under \$1	\$6,296	under 0.0001%				

Totals since the plan: not available. No approved plan on record, 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	488,330
Building value (total, not at risk)	\$117,431,381,000
Agriculture value (total, not at risk)	\$1,183,334,849
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$519,723,735
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)	\$84,962,537
Social vulnerability rating	Relatively Low
Community resilience rating	Relatively High
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	80	Severe repetitive loss, FMA definition (44 CFR 77.2)	294
Repetitive loss, NFIP insurance definition	875	Severe repetitive loss, NFIP insurance definition	242

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	80	294	875	242	925	26	274
of which: Sonoma County (unincorporated area)	80	286	821	237	870	25	263
of which: Healdsburg city	0	2	8	2	8	0	0
of which: Petaluma city	0	4	34	2	35	0	9
of which: Santa Rosa city	0	0	3	0	3	0	0
of which: Sebastopol city	0	2	7	1	7	0	2
of which: Sonoma city	0	0	2	0	2	1	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>
Sonoma County	060375	80	286	821	237	870	25	263
Cloverdale city	060376	0	0	0	0	0	0	0
Cotati city	060377	0	0	0	0	0	0	0
Healdsburg city	060378	0	2	8	2	8	0	0
Petaluma city	060379	0	4	34	2	35	0	9
Rohnert Park city	060380	0	0	0	0	0	0	0
Santa Rosa city	060381	0	0	3	0	3	0	0
Sebastopol city	060382	0	2	7	1	7	0	2
Sonoma city	060383	0	0	2	0	2	1	0
Windsor town	060761	0	0	0	0	0	0	0

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	44	207	641	172	668	19	219
2 to 4 unit residential	12	38	74	30	81	5	16
other residential	1	4	12	4	12	0	3
non-residential	23	45	148	36	164	2	36
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 20 properties are FMA repetitive loss but not NFIP repetitive loss, and 815 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, organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B. Each section heading names the item its tables support; the plan and FEMA's review decide whether the 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). Sonoma County, CA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 06097). Automated baseline. <https://hazardplain.org/ca/06097/> 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

Hazard Plain release 2026-10. As of 2026-09-30; Storm Events data through 2026-06-30. Automated baseline.