

# Sonoma County, CA

## Risk-assessment baseline packet

Unit **County area 06097**    Release **2026-10**    As of **2026-09-28**    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.**

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

### 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).

## Plan clock

|          |                                                                                          |                 |                                                                  |
|----------|------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------|
| Status   | <b>No approved plan on record.<br/>Approvable pending adoption,<br/>not yet eligible</b> | Plan            | <b>none</b>                                                      |
| Approved | <b>none</b>                                                                              | Expires         | <b>none</b>                                                      |
| As of    | <b>2026-09-28</b>                                                                        | Update underway | <b>FEMA tracker shows a plan<br/>approvable pending adoption</b> |

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

**Plan status for every jurisdiction listed in this county: 66 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.**

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

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## Plan clock

### Plan status for every jurisdiction listed in this county

| Jurisdiction                           | Type                   | Status                                                                    | Plan                                                 | Approved   | Expires    | Days to expiry<br><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 | 567                                                   |                                                       | member approved 2023-07-12                 |

| Jurisdiction                                    | Type                   | Status                       | Plan                                                 | Approved   | Expires    | Days to<br>expiry                           | Update underway | Notes                      |
|-------------------------------------------------|------------------------|------------------------------|------------------------------------------------------|------------|------------|---------------------------------------------|-----------------|----------------------------|
|                                                 |                        |                              |                                                      |            |            | <i>negative =<br/>days since<br/>expiry</i> |                 |                            |
| 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 | 567                                         |                 | member 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 | 567                                         |                 | member approved 2023-07-06 |
| 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member 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 | 567                                         |                 | member approved 2023-06-22 |
| 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 | 567                                         |                 | member 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 | 567                                         |                 | member approved 2023-07-12 |

| Jurisdiction                                   | Type                   | Status                       | Plan                                                 | Approved   | Expires    | Days to expiry<br><i>negative = days since expiry</i> | Update underway | Notes                      |
|------------------------------------------------|------------------------|------------------------------|------------------------------------------------------|------------|------------|-------------------------------------------------------|-----------------|----------------------------|
| 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member approved 2023-07-12 |
| 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member 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 | 567                                                   |                 | member approved 2023-07-12 |

| Jurisdiction                                    | Type                   | Status                                                                    | Plan                                                        | Approved   | Expires    | Days to<br>expiry                           | Update underway                                       | Notes                                      |
|-------------------------------------------------|------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------|------------|------------|---------------------------------------------|-------------------------------------------------------|--------------------------------------------|
|                                                 |                        |                                                                           |                                                             |            |            | <i>negative =<br/>days since<br/>expiry</i> |                                                       |                                            |
| 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 | 567                                         |                                                       | member 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 | -1,261                                      |                                                       |                                            |
| 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 | 567                                         |                                                       |                                            |
| 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 | 514                                         |                                                       | member 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 | 334                                         |                                                       |                                            |
| 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. |

| Jurisdiction                      | Type                  | Status                                                                    | Plan                                                 | Approved   | Expires    | Days to expiry<br><i>negative = days since expiry</i> | Update underway                                       | Notes                                      |
|-----------------------------------|-----------------------|---------------------------------------------------------------------------|------------------------------------------------------|------------|------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| 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 | 1,757                                                 |                                                       |                                            |

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

## Supports B1-a: hazards

Hazards NRI does not cover: check locally

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

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

| Rank by EAL | Hazard           | NRI risk rating     | EAL rating          | EAL buildings<br><i>modeled dollars per year</i> | EAL agriculture<br><i>modeled dollars per year</i> | EAL population equivalence<br><i>statistical value of life and injury, \$13.7M per life, not property damage</i> | EAL total (see note)<br><i>modeled dollars per year</i> | Storm Events records since 1996<br><i>count</i> | Evidence for an omission<br><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                                    |                                                    | \$75,988,816                                                                                                     | \$283,623,246                                           |                                                 |                                                                                                             | Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk. |
| 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     |                                                  | \$14,405,968                                       |                                                                                                                  | \$14,405,968                                            | 0                                               |                                                                                                             | Declared 1 time; no Storm Events record of this type.                                                      |
| 5           | Landslide        | Relatively High     | Relatively High     | \$1,991,122                                      |                                                    | \$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                                      |                                                    | \$1,048                                                                                                          | \$1,074,879                                             | 27                                              |                                                                                                             |                                                                                                            |
| 8           | Lightning        | Relatively Moderate | Relatively Moderate | \$64,372                                         |                                                    | \$277,104                                                                                                        | \$341,477                                               | 3                                               |                                                                                                             |                                                                                                            |

| Rank by EAL | Hazard            | NRI risk rating | EAL rating                | EAL buildings modeled dollars per year | EAL agriculture modeled dollars per year | EAL population equivalence statistical value of life and injury, \$13.7M per life, not property damage | EAL total (see note) modeled dollars per year | Storm Events records since 1996 count | Evidence for an omission NRI Not Applicable, no declaration and no Storm Events record since 1996                                                                                         | Storm Events coverage note                                                                                                                                     |
|-------------|-------------------|-----------------|---------------------------|----------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9           | Tsunami           | Very Low        | Very Low                  | \$243,872                              |                                          | \$0                                                                                                    | \$243,872                                     | 0                                     |                                                                                                                                                                                           | No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk. |
| 10          | Tornado           | Very Low        | Very Low                  | \$121,918                              | \$382                                    | \$40,347                                                                                               | \$162,646                                     | 6                                     |                                                                                                                                                                                           |                                                                                                                                                                |
| 11          | Strong Wind       | Very Low        | Relatively Low            | \$52,995                               | \$776                                    | \$65,102                                                                                               | \$118,873                                     | 187                                   |                                                                                                                                                                                           | Includes 64 High Wind records and 122 Strong Wind records, event types the NRI definition of this hazard leaves out.                                           |
| 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                                |                                          | \$126                                                                                                  | \$2,854                                       | 0                                     |                                                                                                                                                                                           | No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk. |
| 15          | Avalanche         | Very Low        | Very Low                  | under \$1                              |                                          | \$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, event types the NRI definition of this hazard leaves out.                                                                    |
|             | 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).

#### SOURCES

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

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

# Supports B1-b: location

## Where each hazard occurs

| Hazard            | Location                                                                                                                                                                                                  | Census tracts rated<br><i>rated of all tracts</i> |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Avalanche         | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 8 of 121                                          |
| Coastal Flooding  | The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center ( <a href="https://msc.fema.gov">https://msc.fema.gov</a> ) for this county. | 8 of 121                                          |
| Cold Wave         | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 0 of 121                                          |
| Drought           | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 58 of 121                                         |
| Earthquake        | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 121 of 121                                        |
| Hail              | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 121 of 121                                        |
| Heat Wave         | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 121 of 121                                        |
| Hurricane         | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 0 of 121                                          |
| Ice Storm         | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 0 of 121                                          |
| Inland Flooding   | The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center ( <a href="https://msc.fema.gov">https://msc.fema.gov</a> ) for this county. | 121 of 121                                        |
| Landslide         | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 121 of 121                                        |
| Lightning         | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 121 of 121                                        |
| Strong Wind       | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 121 of 121                                        |
| Tornado           | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 121 of 121                                        |
| Tsunami           | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 4 of 121                                          |
| Volcanic Activity | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 121 of 121                                        |
| Wildfire          | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 111 of 121                                        |
| Winter Weather    | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 121 of 121                                        |

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

# Supports B1-c: extent

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

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

| Hazard                                          | Scale                          | Records<br><i>count, years</i>   | Observed range                                                | Worst recorded event                                                                                                                                                                                                                        | Most damaging<br>(when different)                                                | How it applies to members                                                                                                                                                                             | Note                                                                                                                                                                                |
|-------------------------------------------------|--------------------------------|----------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coastal Flood, Storm Surge/ Tide                | none in data (FIRM for depth)  | 27, 2005 to 2026 (27 zone-level) |                                                               | Coastal Flood, 2005-12-31, \$340,000 property; crops not reported, reported for the zone (2005 dollars); NWS zone CAZ505 (COASTAL NORTH BAY INCLUDING POINT REYES NATIONAL SEASHORE), zone-level: may include parts of neighboring counties |                                                                                  | Zone-level records: applies countywide; national data do not locate these events within the county.                                                                                                   | Flood depth: see the FEMA Flood Insurance Rate Map.                                                                                                                                 |
| Cold/Wind Chill, Extreme Cold/Wind Chill        | wind chill                     | 2, 2013 to 2017 (2 zone-level)   | 1 day; 2 with a recorded value                                | 1 consecutive day, 2017-04-08, zone-level                                                                                                                                                                                                   |                                                                                  | Zone-level records: applies countywide; national data do not locate these events within the county.                                                                                                   | Wind chill: in event narratives only; local data required.                                                                                                                          |
| Frost/Freeze (outside NRI Cold Wave definition) | crop damage                    | 10, 2007 to 2023 (10 zone-level) |                                                               | Frost/Freeze, 2007-01-06, \$3,000,000 crop damage, reported for the zone (2007 dollars); NWS zone CAZ506 (NORTH BAY INTERIOR VALLEYS), zone-level: may include parts of neighboring counties                                                |                                                                                  | Zone-level records: applies countywide; national data do not locate these events within the county.                                                                                                   | Temperature: in event narratives only; local data required.                                                                                                                         |
| Drought                                         | US Drought Monitor D-scale     | 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                                |                                                               |                                                                                                                                                                                                                                             |                                                                                  |                                                                                                                                                                                                       | No Storm Events record; local data required (e.g., USGS).                                                                                                                           |
| Hail                                            | hail size (inches)             | 21, 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 member places: 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 (narratives)        | 25, 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) | Zone-level records: applies countywide; national data do not locate these events within the county.                                                                                                   | Heat index: in event narratives only; local data required. Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run. |

| Hazard                                                  | Scale                                                                                                   | Records<br><i>count, years</i>         | Observed range | Worst recorded event                                                                                                                                                                                                                                                                | Most damaging<br>(when different) | How it applies to members                                                                                                                                                                                                                                     | Note                                                                                                                                                                                                                                                      |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hurricane,<br>Tropical Storm,<br>Tropical<br>Depression | Saffir-Simpson                                                                                          | 0                                      |                |                                                                                                                                                                                                                                                                                     |                                   |                                                                                                                                                                                                                                                               | Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns. |
| Ice Storm                                               | Sperry-Piltz<br>(local data)                                                                            | 0                                      |                |                                                                                                                                                                                                                                                                                     |                                   |                                                                                                                                                                                                                                                               | Ice thickness: in event narratives only; local data required.                                                                                                                                                                                             |
| Flash Flood,<br>Flood,<br>Lakeshore<br>Flood            | damage and<br>flood days<br>(FIRM for<br>depth)                                                         | 300, 1996 to<br>2026                   |                | Flood, 2006-01-01,<br>\$104,000,000 property;<br>\$3,000,000 crops (2006<br>dollars)                                                                                                                                                                                                |                                   | Event records naming member places: 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 can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.                           |
| Debris Flow                                             | none (count<br>and damage)                                                                              | 67, 2006 to<br>2025 (7 zone-<br>level) |                | Debris Flow, 2006-04-01,<br>\$14,400,000 property;<br>\$20,000,000 crops,<br>reported for the zone<br>(2006 dollars), 1 direct<br>death (reported for the<br>zone); NWS zone CAZ506<br>(NORTH BAY INTERIOR<br>VALLEYS), zone-level:<br>may include parts of<br>neighboring counties |                                   | Event records naming member places: Cotati city (1 record), Healdsburg city (1 record). Zone-level records (7) apply countywide.                                                                                                                              | Physical measure: in event narratives only; local data required.                                                                                                                                                                                          |
| Lightning                                               | annualized<br>frequency (the<br>measure<br>FEMA's Local<br>Mitigation<br>Planning<br>Handbook<br>names) | 3, 2001 to<br>2020                     |                | Lightning, 2001-01-25,<br>\$1,000,000 property;<br>crops not reported (2001<br>dollars), 1 direct injury                                                                                                                                                                            |                                   | Event records naming member places: Petaluma city (1 record).                                                                                                                                                                                                 | Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.                                                                                                                                   |

| Hazard                                                                      | Scale                                   | Records<br><i>count, years</i>     | Observed range                                                                       | Worst recorded event                                                                                                                                                                                                          | Most damaging<br>(when different)                                                            | How it applies to members                                                                           | Note                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------|-----------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| High Wind and Strong Wind (outside NRI Strong Wind definition)              | wind speed (kt and mph)                 | 186, 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 (NORTH BAY MOUNTAINS), zone-level: may include parts of neighboring counties                                                                            | Strong Wind, 2006-12-27, \$500,000 property; \$0 crops, reported for the zone (2006 dollars) | Zone-level records: applies countywide; national data do not locate these events within the county. | Speeds under 20 kt (likely entry errors) are left out of the observed range.                                                                                                                                                                                                                                                                                                                                                  |
| Thunderstorm Wind                                                           | wind speed (kt and mph)                 | 1, 2020 to 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 member place.                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tornado                                                                     | Enhanced Fujita (F before Feb 2007)     | 13, 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 (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 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 member places: Santa Rosa city (3 records), Sonoma city (1 record).            | From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes. |
| Tsunami                                                                     | none (count and damage)                 | 0                                  |                                                                                      |                                                                                                                                                                                                                               |                                                                                              |                                                                                                     | Physical measure: in event narratives only; local data required.                                                                                                                                                                                                                                                                                                                                                              |
| Volcanic Ash, Volcanic Ashfall                                              | Volcanic Explosivity Index (local data) | 0                                  |                                                                                      |                                                                                                                                                                                                                               |                                                                                              |                                                                                                     | Physical measure: in event narratives only; local data required.                                                                                                                                                                                                                                                                                                                                                              |
| Wildfire                                                                    | acres burned (local data)               | 24, 2013 to 2025 (24 zone-level)   |                                                                                      | Wildfire, 2013-05-01, \$500,000 property; \$0 crops, reported for the zone (2013 dollars); NWS zone CAZ507 (NORTH BAY MOUNTAINS), zone-level: may include parts of neighboring counties                                       |                                                                                              | Zone-level records: applies countywide; national data do not locate these events within the county. | Acres burned: in event narratives only; local data required.                                                                                                                                                                                                                                                                                                                                                                  |
| Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet | none in data (snowfall local)           | 2, 2006 to 2011 (2 zone-level)     |                                                                                      | No damage reported in 2 records.                                                                                                                                                                                              |                                                                                              | Zone-level records: applies countywide; national data do not locate these events within the county. | Snow depth: in event narratives only; local data required.                                                                                                                                                                                                                                                                                                                                                                    |

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

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

#### SOURCES

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

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

## Supports B1-d: previous occurrences

Declaration rows **36**

Counted incidents **25**

No approved plan on record, so there is no approval date to count from.

### Federal disaster declarations for this county

| Declared   | Incident began | FEMA number | Type            | Title                                                                          | Mapped hazard                                                         | County Public Assistance<br><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 | none found                                                                  | 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 | none found                                                                  | 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                                                              | none found                                                                  |                     | 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                                                              | none found                                                                  |                     | 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                                                             |                     |                          |
| 2020-03-13 | 2020-01-20     | EM-3428-CA  | Emergency       | COVID-19                                                                       | Non-natural, not counted                                              | none found                                                                  |                     | same incident as DR-4482 |
| 2019-10-24 | 2019-10-24     | FM-5295-CA  | Fire management | KINCADE FIRE                                                                   | Wildfire                                                              | none found                                                                  |                     |                          |
| 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                                                              | none found                                                                  |                     | same incident as DR-4344 |

| Declared   | Incident began | FEMA number | Type            | Title                                                 | Mapped hazard                                                                        | County Public Assistance                 |                 | Flags | Notes                    |
|------------|----------------|-------------|-----------------|-------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------|-----------------|-------|--------------------------|
|            |                |             |                 |                                                       |                                                                                      | federal share obligated, nominal dollars |                 |       |                          |
| 2017-10-09 | 2017-10-08     | FM-5220-CA  | Fire management | NUNS FIRE                                             | Wildfire                                                                             |                                          | none found      |       | same incident as DR-4344 |
| 2017-10-09 | 2017-10-08     | FM-5215-CA  | Fire management | TUBBS FIRE                                            | Wildfire                                                                             |                                          | none found      |       | 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                                                                             |                                          | none found      |       |                          |
| 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                 |                                          | none found      |       |                          |
| 2004-09-04 | 2004-09-03     | FM-2554-CA  | Fire management | CA-GEYSERS FIRE-09-04-2004                            | Wildfire                                                                             |                                          | none found      |       |                          |
| 1998-02-09 | 1998-02-02     | DR-1203-CA  | Major disaster  | SEVERE WINTER STORMS AND FLOODING                     | Inland Flooding; Winter Weather                                                      |                                          | none found      |       |                          |
| 1997-01-04 | 1996-12-28     | DR-1155-CA  | Major disaster  | SEVERE STORMS, FLOODING, MUD AND LANDSLIDES           | Inland Flooding; Landslide                                                           |                                          | none found      |       |                          |
| 1995-03-12 | 1995-02-13     | DR-1046-CA  | Major disaster  | SEVERE WINTER STORMS, FLOODING LANDSLIDES, MUD FLOW   | Inland Flooding; Landslide; Winter Weather                                           |                                          | none found      |       |                          |
| 1995-01-10 | 1995-01-03     | DR-1044-CA  | Major disaster  | SEVERE WINTER STORMS, FLOODING, LANDSLIDES, MUD FLOWS | Inland Flooding; Landslide; Winter Weather                                           |                                          | none found      |       |                          |
| 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                |                                          | none found      |       |                          |
| 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                                                                      |                                          | none found      |       |                          |
| 1983-02-09 | 1983-01-21     | DR-677-CA   | Major disaster  | COASTAL STORMS, FLOODS, SLIDES & TORNADOES            | Coastal Flooding; Inland Flooding; Landslide; Tornado                                |                                          | none found      |       |                          |
| 1982-01-07 | 1981-12-19     | DR-651-CA   | Major disaster  | SEVERE STORMS, FLOOD, MUDSLIDES & HIGH TIDE           | Inland Flooding (primary); also designated: Landslide                                |                                          | none found      |       |                          |
| 1977-01-20 | 1977-01-20     | EM-3023-CA  | Emergency       | DROUGHT                                               | Drought                                                                              |                                          | none found      |       |                          |
| 1969-01-26 | 1969-01-26     | DR-253-CA   | Major disaster  | SEVERE STORMS & FLOODING                              | Inland Flooding                                                                      |                                          | none found      |       |                          |
| 1964-12-24 | 1964-12-24     | DR-183-CA   | Major disaster  | HEAVY RAINS & FLOODING                                | Inland Flooding                                                                      |                                          | none found      |       |                          |

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 members in this county. They are not shown as member blocks, 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); do not add this line to the county total.

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

SOURCES

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)  
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)  
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Statewide declarations

| Declared   | Incident began | FEMA number | Type           | Title                                 | Mapped hazard                         | Flags | Notes |
|------------|----------------|-------------|----------------|---------------------------------------|---------------------------------------|-------|-------|
| 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. Listed on every county page in the state; not counted with county rows.

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.

SOURCE

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

Public Assistance filed under this county for declarations that do not list it: 1 row, \$58,449

| FEMA number | Declared   | Title     | Applicant                         | PA obligated<br><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.

SOURCES

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)  
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

## Previous occurrences by hazard, with explicit no-event rows

| Hazard               | Storm Events<br>records<br><i>full period</i> | Since plan<br>approval<br>records | During plan<br>review<br>records | Last 5<br>years<br>records | Declared<br>incidents<br><i>distinct incidents</i> | Declared since<br>approval<br><i>distinct incidents</i> | Period                | Statement                                                                                                            |
|----------------------|-----------------------------------------------|-----------------------------------|----------------------------------|----------------------------|----------------------------------------------------|---------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------|
| Avalanche            | 0                                             |                                   |                                  | 0                          | 0                                                  |                                                         | 1996 to<br>2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                                                       |
| Coastal<br>Flooding  | 27                                            |                                   |                                  | 9                          | 1                                                  |                                                         | 1996 to<br>2026-06-30 |                                                                                                                      |
| Cold Wave            | 12                                            |                                   |                                  | 1                          | 1                                                  |                                                         | 1996 to<br>2026-06-30 | Includes 10 Frost/Freeze records, event types the NRI definition of this hazard leaves out.                          |
| Drought              | 0                                             |                                   |                                  | 0                          | 1                                                  |                                                         | 1996 to<br>2026-06-30 | No Storm Events records of this type; 1 federal declared incident (see declarations table)                           |
| Earthquake           | 0                                             |                                   |                                  | 0                          | 0                                                  |                                                         |                       | No Storm Events record; local data required (e.g., USGS).                                                            |
| Hail                 | 21                                            |                                   |                                  | 0                          | 0                                                  |                                                         | 1955 to<br>2026-06-30 |                                                                                                                      |
| Heat Wave            | 25                                            |                                   |                                  | 16                         | 0                                                  |                                                         | 1996 to<br>2026-06-30 |                                                                                                                      |
| Hurricane            | 0                                             |                                   |                                  | 0                          | 0                                                  |                                                         | 1996 to<br>2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                                                       |
| Ice Storm            | 0                                             |                                   |                                  | 0                          | 1                                                  |                                                         | 1996 to<br>2026-06-30 | No Storm Events records of this type; 1 federal declared incident (see declarations table)                           |
| Inland<br>Flooding   | 300                                           |                                   |                                  | 62                         | 17                                                 |                                                         | 1996 to<br>2026-06-30 |                                                                                                                      |
| Landslide            | 67                                            |                                   |                                  | 1                          | 13                                                 |                                                         | 1996 to<br>2026-06-30 |                                                                                                                      |
| Lightning            | 3                                             |                                   |                                  | 0                          | 0                                                  |                                                         | 1996 to<br>2026-06-30 |                                                                                                                      |
| Strong Wind          | 187                                           |                                   |                                  | 37                         | 1                                                  |                                                         | 1955 to<br>2026-06-30 | Includes 64 High Wind records and 122 Strong Wind records, event types the NRI definition of this hazard leaves out. |
| Tornado              | 13                                            |                                   |                                  | 0                          | 1                                                  |                                                         | 1950 to<br>2026-06-30 |                                                                                                                      |
| Tsunami              | 0                                             |                                   |                                  | 0                          | 0                                                  |                                                         | 1996 to<br>2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                                                       |
| Volcanic<br>Activity | 0                                             |                                   |                                  | 0                          | 0                                                  |                                                         | 1996 to<br>2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                                                       |
| Wildfire             | 24                                            |                                   |                                  | 2                          | 6                                                  |                                                         | 1996 to<br>2026-06-30 |                                                                                                                      |
| Winter<br>Weather    | 2                                             |                                   |                                  | 0                          | 9                                                  |                                                         | 1996 to<br>2026-06-30 |                                                                                                                      |

## SOURCES

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

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

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

## Notable Storm Events records

| Date       | Event type        | Magnitude or extent                                                                                                                                 | Damage<br><i>nominal dollars</i>                                                | Direct<br>deaths,<br>injuries<br><i>indirect not<br/>counted</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: may include parts of neighboring counties | 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: may include parts of neighboring counties                                | 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: may include parts of neighboring counties                                       |                     | 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: may include parts of neighboring counties                                       |                     | B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition) |
| 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: may include parts of neighboring counties                                       |                     | 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: may include parts of neighboring counties                                |                     | 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: may include parts of neighboring counties |                     | 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: may include parts of neighboring counties |                     | 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 (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 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 XLSX file, sheet "B1-d Storm Events history" (681 rows).

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

#### SOURCES

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

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

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

## Supports B1-e: probability

### Probability: FEMA annualized frequency and descriptor per hazard

| Hazard              | FEMA<br>annualized<br>frequency<br>(modeled)<br><i>unit per row</i> | Unit                                          | In plain terms                                                                                           | Descriptor       | Descriptor<br>basis                                        | NRI events or days in<br>its record period (hail,<br>wind and tornado are<br>area-weighted, so can<br>be fractional) | NRI period                                          | Location   | Note                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|---------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche           | 0.01                                                                | events per year                               | about 1 in 100<br>years                                                                                  | Possible         | FEMA<br>annualized<br>frequency<br>(modeled)               | 0                                                                                                                    | 1994 to 2023<br>(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<br>Flooding | 3.42                                                                | events per year at<br>a location<br>(modeled) | about 3.4 per<br>year at a given<br>location in the<br>county                                            | Highly<br>likely | FEMA<br>annualized<br>frequency<br>(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<br>year                        | none modeled                                                                                             | Possible         | event-days in 2<br>of 30 years,<br>1996 to 2025<br>(6.67%) | 0                                                                                                                    | 2005-11-12 to<br>2024-11-12 (19<br>years)           | countywide | NRI models no cold wave event-days here (2005-11-12 to 2024-11-12, 19 years), but Storm Events has a record in 2 of 30 years. The descriptor comes from Storm Events, which records events NRI's definition leaves out, so the two use different thresholds; read them together. Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves. |
| Drought             | 33.5                                                                | event-days per<br>year                        | about 33.5 days<br>per year                                                                              |                  | event-days in 0<br>of 30 years,<br>1996 to 2025<br>(0%)    | 1,610                                                                                                                | 2000 to 2025<br>(25.25 years;<br>D3 and D4<br>only) | countywide | No recorded event-days, 1996 to 2025; descriptor not assigned                                                                                                                                                                                                                                                                                                                       |
| Earthquake          | 0.117                                                               | annual probability<br>at a location           | chance a given<br>location in the<br>county has at<br>least minor-<br>damage shaking<br>in a year: 11.7% |                  |                                                            | not shown                                                                                                            | modeled                                             | see B1-f   | Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.                                                                                                                                                                                                        |
| Hail                | 0.0175                                                              | events per year                               | about 1 in 57<br>years                                                                                   | Possible         | FEMA<br>annualized<br>frequency<br>(modeled)               | 0.7 (modeled)                                                                                                        | 1986 to 2023<br>(38 years)                          | countywide |                                                                                                                                                                                                                                                                                                                                                                                     |

| Hazard               | FEMA<br>annualized<br>frequency<br>(modeled)<br><i>unit per row</i> | Unit                                                                                          | In plain terms                                                         | Descriptor       | Descriptor<br>basis                                               | NRI events or days in<br>its record period (hail,<br>wind and tornado are<br>area-weighted, so can<br>be fractional) | NRI period                                               | Location   | Note                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Heat Wave            | 7                                                                   | event-days per<br>year                                                                        | about 7 days per<br>year                                               | Likely           | event-days in 8<br>of 30 years,<br>1996 to 2025<br>(26.7%)        | 85.9                                                                                                                 | 2005-11-12 to<br>2024-11-12 (19<br>years)                | countywide | NRI gives about 7 heat wave event-days a year here<br>(its annualized frequency over 19 years; not its event<br>count divided by the years), but Storm Events has a<br>record in only 8 of 30 years. NRI counts from a<br>different source that records far more events than<br>Storm Events, so this descriptor reads much lower<br>than NRI's frequency; read the two together. |
| Hurricane            |                                                                     | events per year                                                                               |                                                                        |                  |                                                                   |                                                                                                                      | 1851 to 2024<br>(Atlantic); 1949<br>to 2024<br>(Pacific) | see B1-f   | Not Applicable in NRI for this county; no descriptor.                                                                                                                                                                                                                                                                                                                             |
| Ice Storm            |                                                                     | event-days per<br>year                                                                        |                                                                        |                  |                                                                   |                                                                                                                      | 1946-12-31 to<br>2014-02-12 (67<br>years)                | countywide | Not Applicable in NRI for this county; no descriptor.                                                                                                                                                                                                                                                                                                                             |
| Inland<br>Flooding   | 2.54                                                                | event-days per<br>year                                                                        | about 2.54 days<br>per year                                            | Likely           | event-days in 22<br>of 30 years,<br>1996 to 2025<br>(73.3%)       | 71                                                                                                                   | 1996 to 2023<br>(28 years)                               | see B1-f   |                                                                                                                                                                                                                                                                                                                                                                                   |
| Landslide            | 67.4                                                                | events per year<br>(modeled)                                                                  | about 67.4 per<br>year                                                 | Highly<br>likely | FEMA<br>annualized<br>frequency<br>(modeled)                      | not shown                                                                                                            | modeled                                                  | see B1-f   |                                                                                                                                                                                                                                                                                                                                                                                   |
| Lightning            | 3.73                                                                | days per year with<br>a strike                                                                | about 3.73 days<br>per year                                            | Highly<br>likely | FEMA<br>annualized<br>frequency<br>(modeled)                      | not shown                                                                                                            | 1995 to 2023<br>(29 years;<br>CONUS)                     | countywide |                                                                                                                                                                                                                                                                                                                                                                                   |
| Strong<br>Wind       | 0.0175                                                              | events per year                                                                               | about 1 in 57<br>years                                                 | Possible         | FEMA<br>annualized<br>frequency<br>(modeled)                      | 1                                                                                                                    | 1986 to 2023<br>(38 years)                               | countywide |                                                                                                                                                                                                                                                                                                                                                                                   |
| Tornado              | 0.0815                                                              | events per year                                                                               | about 1 in 12<br>years                                                 | Possible         | FEMA<br>annualized<br>frequency<br>(modeled)                      | not shown                                                                                                            | 1950 to 2023<br>(EF2+); 1986 to<br>2023 (EF0-1)          | see B1-f   |                                                                                                                                                                                                                                                                                                                                                                                   |
| Tsunami              | 0.342                                                               | annual probability<br>at the most<br>exposed location<br>(used in place of a<br>county value) | chance at the<br>county's most<br>exposed location<br>in a year: 34.2% |                  | Storm Events<br>records in 0 of<br>30 years, 1996<br>to 2025 (0%) | not shown                                                                                                            | modeled                                                  | see B1-f   | No Storm Events record of this hazard, 1996 to 2025;<br>descriptor not assigned (the NRI value is the chance<br>at a location in the county, not how often the hazard<br>affects the county)                                                                                                                                                                                      |
| Volcanic<br>Activity | 0.0001                                                              | annual probability                                                                            | about 1 in 10,000<br>years                                             | Unlikely         | FEMA<br>annualized<br>frequency<br>(modeled)                      | not shown                                                                                                            | modeled                                                  | see B1-f   |                                                                                                                                                                                                                                                                                                                                                                                   |

| Hazard            | FEMA<br>annualized<br>frequency<br>(modeled)<br><i>unit per row</i> | Unit                                | In plain terms                                                         | Descriptor | Descriptor<br>basis                                                  | NRI events or days in<br>its record period (hail,<br>wind and tornado are<br>area-weighted, so can<br>be fractional) | NRI period                                | Location   | Note                                                                                                                                               |
|-------------------|---------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------|------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Wildfire          | 0.00387                                                             | annual probability<br>at a location | chance a given<br>location in the<br>county burns in a<br>year: 0.387% | Likely     | Storm Events<br>records in 8 of<br>30 years, 1996<br>to 2025 (26.7%) | not shown                                                                                                            | modeled                                   | see B1-f   | Descriptor from Storm Events, not NRI: the NRI value<br>is the chance at a location in the county, not how<br>often the hazard affects the county. |
| Winter<br>Weather | 0.738                                                               | event-days per<br>year              | about 0.738 days<br>per year                                           | Possible   | event-days in 2<br>of 30 years,<br>1996 to 2025<br>(6.67%)           | 12.6                                                                                                                 | 2005-11-12 to<br>2024-11-12 (19<br>years) | countywide |                                                                                                                                                    |

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

#### SOURCES

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

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

#### Descriptor scale used in this packet (defined per unit)

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

#### SOURCES

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

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

Intensity bands: historical frequency (Storm Events)

| Hazard                                  | Band                      | Years        | Events<br><i>county-coded records</i> | Years in period | Events per year<br><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                                        |
| Strong Wind (Thunderstorm Wind records) | 50-64 kt                  | 1996 to 2025 | 1                                     | 30              | 0.0333                                   |
| Strong Wind (Thunderstorm Wind records) | 65 kt+                    | 1996 to 2025 | 0                                     | 30              | 0                                        |
| Strong Wind (Thunderstorm Wind records) | 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                                        |

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

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

| Hazard              | Tracts<br><i>rated of all</i> | Risk<br>score<br>min<br><i>NRI score,<br/>0 to 100</i> | Median | Max  | Tracts by rating                                                                                    | Note                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-------------------------------|--------------------------------------------------------|--------|------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche           | 8 of 121                      | 3.9                                                    | 4.6    | 5.2  | Very Low 8, Not Applicable 113                                                                      |                                                                                                                                                                                                                                                                                                                                                                |
| Coastal<br>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                                                                                       | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.                                                                                                                           |
| Drought             | 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 | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally. |
| 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                                                                                        | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.                                                                                                                           |

| Hazard            | Tracts<br><i>rated of all</i> | Risk<br>score<br>min<br><i>NRI score,<br/>0 to 100</i> | Median | Max   | Tracts by rating                                                                                      | Note                                                                                                                                                                                                                                 |
|-------------------|-------------------------------|--------------------------------------------------------|--------|-------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Heat Wave         | 121 of 121                    | 2.6                                                    | 35.3   | 64.6  | Relatively Moderate 2, Relatively Low 106, Very Low 13                                                | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Hurricane         | 0 of 121                      |                                                        |        |       | Not Applicable 121                                                                                    |                                                                                                                                                                                                                                      |
| Ice Storm         | 0 of 121                      |                                                        |        |       | Not Applicable 121                                                                                    | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Inland Flooding   | 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                                                                        | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Strong Wind       | 121 of 121                    | 0.7                                                    | 9.5    | 14.7  | Very Low 121                                                                                          | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Tornado           | 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                                                                                          | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |

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

#### SOURCE

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

#### Per-member block (Starter, confirm locally)

| Member        | Type   | Plan status                                                               | Repetitive loss<br><i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i> | Public Assistance matched<br><i>federal share obligated, nominal dollars</i> | Event records naming this place<br><i>all years; since the member's 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; no approved plan                                                          | Includes \$37,983,135.81 for declarations not counted as hazard incidents (DR-4482-CA). |

| Member            | Type | Plan status                                                               | Repetitive loss<br><i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i> | Public Assistance matched<br><i>federal share obligated, nominal dollars</i> | Event records naming this place<br><i>all years; since the member's plan</i> | Notes                                                                                  |
|-------------------|------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 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; 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; 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; 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; 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; 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; 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; no approved plan                                                          |                                                                                        |
| 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; 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; no approved plan                                                          | Includes \$61,939.87 for declarations not counted as hazard incidents (DR-4482-CA).    |

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

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

#### SOURCES

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

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

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

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

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

Local data required

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

No approved plan on record, so there is no approval date to count from.

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

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

| Hazard           | Building exposure<br><i>modeled dollars</i> | Agriculture exposure<br><i>modeled dollars</i> | Population exposed<br><i>people</i> | EAL buildings<br><i>modeled dollars per year</i> | EAL agriculture<br><i>modeled dollars per year</i> | EAL population equivalence<br><i>statistical value of life and injury, \$13.7M per life, not property damage</i> | EAL as % of exposure<br><i>buildings; agriculture where noted</i> | Storm Events damage since plan<br><i>county-coded records, property plus crops, nominal dollars</i> | Zone-level damage since plan<br><i>property plus crops, reported for the zone</i> | Public Assistance since plan<br><i>nominal dollars; see note</i> | Note                                                                                                                                                                                                 |
|------------------|---------------------------------------------|------------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche        | \$447,025                                   |                                                | under 1                             | under \$1                                        |                                                    | \$9                                                                                                              | 0.000105%                                                         |                                                                                                     |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Coastal Flooding | \$7,781,238,095                             |                                                | 24,796                              | \$1,073,831                                      |                                                    | \$1,048                                                                                                          | 0.0138%                                                           |                                                                                                     |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Cold Wave        | \$0                                         | \$0                                            | 0                                   | \$0                                              | \$0                                                | \$0                                                                                                              |                                                                   |                                                                                                     |                                                                                   |                                                                  | building exposure is 0 in NRI                                                                                                                                                                        |
| Drought          |                                             | \$654,212,571                                  |                                     |                                                  | \$14,405,968                                       |                                                                                                                  | 2.2% (agriculture)                                                |                                                                                                     |                                                                                   |                                                                  | NRI has no building exposure for this hazard; agriculture shown                                                                                                                                      |
| Earthquake       | \$202,261,823,767                           |                                                | 488,863                             | \$207,634,430                                    |                                                    | \$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. EAL as % of exposure: n/a. |
| Landslide        | \$5,531,293,133                             |                                                | 19,401                              | \$1,991,122                                      |                                                    | \$3,052,836                                                                                                      | 0.036%                                                            |                                                                                                     |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Lightning        | \$117,431,381,000                           |                                                | 488,330                             | \$64,372                                         |                                                    | \$277,104                                                                                                        | under 0.0001%                                                     |                                                                                                     |                                                                                   |                                                                  |                                                                                                                                                                                                      |

| Hazard            | Building exposure<br><i>modeled dollars</i> | Agriculture exposure<br><i>modeled dollars</i> | Population exposed<br><i>people</i> | EAL buildings<br><i>modeled dollars per year</i> | EAL agriculture<br><i>modeled dollars per year</i> | EAL population equivalence<br><i>statistical value of life and injury, \$13.7M per life, not property damage</i> | EAL as % of exposure<br><i>buildings; agriculture where noted</i> | Storm Events damage since plan<br><i>county-coded records, property plus crops, nominal dollars</i> | Zone-level damage since plan<br><i>property plus crops, reported for the zone</i> | Public Assistance since plan<br><i>nominal dollars; see note</i> | Note |
|-------------------|---------------------------------------------|------------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|------|
| 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                             |                                                | 233                                 | \$243,872                                        |                                                    | \$0                                                                                                              | 0.0145%                                                           |                                                                                                     |                                                                                   |                                                                  |      |
| Volcanic Activity | \$117,431,381,000                           |                                                | 488,330                             | \$2,728                                          |                                                    | \$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.

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

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

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

**SOURCES**

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

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

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

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

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

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

## Supports B2-a: context

### County context

| Measure                                                                                                                                                                       | Value             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Population                                                                                                                                                                    | 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   |

| Measure     | Value         |
|-------------|---------------|
| NRI version | December 2025 |

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

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

## Supports B2-c: repetitive loss

### Repetitive loss in this county, both definitions

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

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

**SOURCES**  
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)  
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

### Repeat-flood properties: county and state-level rows

| Scope                                                | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> |
|------------------------------------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|
| County total                                         | 80                           | 294                           | 875                           | 242                            | 925                               | 26                             | 274                                    |
| SONOMA COUNTY *                                      | 80                           | 286                           | 821                           | 237                            | 870                               | 25                             | 263                                    |
| HEALDSBURG, CITY OF                                  | 0                            | 2                             | 8                             | 2                              | 8                                 | 0                              | 0                                      |
| PETALUMA, CITY OF                                    | 0                            | 4                             | 34                            | 2                              | 35                                | 0                              | 9                                      |
| SANTA ROSA, CITY OF                                  | 0                            | 0                             | 3                             | 0                              | 3                                 | 0                              | 0                                      |
| SEBASTOPOL, CITY OF                                  | 0                            | 2                             | 7                             | 1                              | 7                                 | 0                              | 2                                      |
| SONOMA, CITY OF                                      | 0                            | 0                             | 2                             | 0                              | 2                                 | 1                              | 0                                      |
| State level, not in this county: county not reported | 0                            | 1                             | 3                             | 0                              | 4                                 | 1                              | 0                                      |

**SOURCES**  
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)  
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

### Repeat-flood properties by plan member (NFIP community)

| Member          | NFIP community ID | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> | Note |
|-----------------|-------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|------|
| 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                                      |      |

| Member            | NFIP community ID | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> | Note |
|-------------------|-------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|------|
| 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                                      |      |

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

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

**SOURCES**

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

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

**County repeat-flood properties by occupancy group**

| Occupancy group           | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><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                                      |

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

**SOURCES**

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

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

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

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

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

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

In this county 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.

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## Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
  2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
  3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
  4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
  5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_Counties.zip](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](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip) (download, 635 MB)
  6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
  7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
  8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-28, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_counties\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_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\\_scscd\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scscd_national.zip), [https://www2.census.gov/geo/docs/reference/codes2020/national\\_place\\_by\\_county2020.txt](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](https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx)
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Corrections: to report an error, name the packet, the table and what your records show. Contact: to be added

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain\_2026-10\_CA\_06097. Preview: automated baseline.