

Alameda County, CA

Risk-assessment baseline packet

Unit **County area 06001** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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

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Plan clock

Status	Approved, expires 2027-03-10	Plan	Alameda County (FEMA plan 107908)
Approved	2022-03-11	Expires	2027-03-10
As of	2026-09-28	Days	163 days to expiry
Update underway	none in FEMA's plan tracker		

What changed since your last plan (approved 2022-03-11)

New federal declarations	EM-3591-CA, DR-4683-CA, DR-4699-CA (3 declaration rows; 2 counted incidents)	Storm Events records since approval	97 (data through 2026-06-30)
Repetitive loss now	FMA RL 0, SRL 2 (44 CFR 77.2); any definition: 13	Repeat-flood change	First release: no prior release to compare.

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: 27 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 <i>negative = days since expiry</i>	Update underway	Notes
Alameda County	County	Approved, expires 2027-03-10	Alameda County (FEMA plan 107908)	2022-03-11	2027-03-10	163		member approved 2022-03-10
Alameda 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.
Albany 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.
Berkeley city	City	Approved, expires 2030-04-14	Berkeley, City of (FEMA plan 110333)	2025-04-15	2030-04-14	1,294		
Dublin city	City	Approved, expires 2029-03-21	Tri-Valley (Dublin, Livermore, Pleasanton) (FEMA plan 109406)	2024-03-22	2029-03-21	905		
Emeryville city	City	Approved, expires 2030-10-14	Emeryville, City of (FEMA plan 110680)	2025-10-15	2030-10-14	1,477		
Fremont city	City	Approved, expires 2029-08-22	Tri-City (Fremont, Newark, Union City) (FEMA plan 109818)	2024-08-23	2029-08-22	1,059		member approved 2024-11-21
Hayward city	City	Approved, expires 2028-04-10	Hayward, City of (FEMA plan 108825)	2023-04-11	2028-04-10	560		
Livermore city	City	Approved, expires 2029-03-21	Tri-Valley (Dublin, Livermore, Pleasanton) (FEMA plan 109406)	2024-03-22	2029-03-21	905		member approved 2024-03-26
Newark city	City	Approved, expires 2029-08-22	Tri-City (Fremont, Newark, Union City) (FEMA plan 109818)	2024-08-23	2029-08-22	1,059		member approved 2024-09-19
Oakland city	City	Approved, expires 2031-06-10	Oakland, City of (FEMA plan 111869)	2026-06-11	2031-06-10	1,716		
Piedmont city	City	Approved, expires 2031-03-04	Piedmont, City of (FEMA plan 111460)	2026-03-05	2031-03-04	1,618		
Pleasanton city	City	Approved, expires 2029-03-21	Tri-Valley (Dublin, Livermore, Pleasanton) (FEMA plan 109406)	2024-03-22	2029-03-21	905		
San Leandro city	City	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Union City city	City	Approved, expires 2029-08-22	Tri-City (Fremont, Newark, Union City) (FEMA plan 109818)	2024-08-23	2029-08-22	1,059		
Livermore Valley Joint Unified School District	School/School District	Expired on 2018-06-17	Livermore Valley Joint Unified School District (FEMA plan 102619)	2013-06-17	2018-06-17	-3,025		
Alameda County Fire Department	Fire/EMS District	Approved, expires 2027-03-10	Alameda County (FEMA plan 107908)	2022-03-11	2027-03-10	163		member approved 2022-11-17

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						negative = days since expiry		
Alameda County Flood Control & Water Conservation District	Water/Sewer Authority	Approved, expires 2027-03-10	Alameda County (FEMA plan 107908)	2022-03-11	2027-03-10	163		member approved 2022-05-19
Alameda County Water District	Water/Sewer Authority	Approved, expires 2029-08-22	Tri-City (Fremont, Newark, Union City) (FEMA plan 109818)	2024-08-23	2029-08-22	1,059		member approved 2024-10-30
Alameda-Contra Costa Transit District	Special District	Approved, expires 2027-11-09	Metropolitan Transportation Commission (FEMA plan 110161)	2022-11-10	2027-11-09	407		member approved 2023-06-28
BART (Bay Area Rapid Transit)	Transit/Airport	Approved, expires 2027-12-19	Bay Area Rapid Transit (BART) (FEMA plan 108550)	2022-12-20	2027-12-19	447		
Dublin-San Ramon Services District	Community Services District	Approved, expires 2029-03-21	Tri-Valley (Dublin, Livermore, Pleasanton) (FEMA plan 109406)	2024-03-22	2029-03-21	905		member approved 2024-05-16
East Bay Municipal Utilities District	Water/Sewer Authority	Approved, expires 2028-04-10	East Bay Municipal Utility District (FEMA plan 108849)	2023-04-11	2028-04-10	560		
East Bay Regional Parks District	Special District	Approved, expires 2028-04-06	East Bay Regional Park District (FEMA plan 108783)	2023-04-07	2028-04-06	556		
Oro Loma Sanitary District	Water/Sewer Authority	Approved, expires 2027-08-15	Oro Loma Sanitary District (FEMA plan 108218)	2022-08-16	2027-08-15	321		
Union Sanitary District	Water/Sewer Authority	Approved, expires 2029-08-22	Tri-City (Fremont, Newark, Union City) (FEMA plan 109818)	2024-08-23	2029-08-22	1,059		member approved 2024-10-15
Zone 7 Water Agency	Water/Sewer Authority	Approved, expires 2029-10-16	Zone 7 Water Agency (FEMA plan 109972)	2024-10-17	2029-10-16	1,114		

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 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 <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Earthquake	Very High	Very High	\$843,220,359		\$508,406,155	\$1,351,626,513			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
2	Inland Flooding	Very High	Very High	\$489,055,059	\$352,602	\$1,141,465	\$490,549,126	179		
3	Heat Wave	Relatively High	Relatively High	\$2,399	\$17,587	\$13,348,602	\$13,368,588	25		
4	Wildfire	Relatively High	Relatively High	\$10,950,041	\$494	\$602,081	\$11,552,616	14		
5	Landslide	Relatively High	Relatively High	\$1,772,374		\$3,895,389	\$5,667,764	22		
6	Coastal Flooding	Relatively High	Relatively High	\$4,604,058		\$1,113	\$4,605,171	4		
7	Tsunami	Relatively Low	Relatively Low	\$3,071,360		\$0	\$3,071,360	1		
8	Tornado	Relatively Moderate	Relatively Moderate	\$1,889,933	\$391	\$539,850	\$2,430,174	0		Declared 1 time; no Storm Events record of this type.
9	Drought	Relatively Moderate	Relatively Moderate		\$1,439,944		\$1,439,944	0		Declared 1 time; no Storm Events record of this type.
10	Lightning	Relatively Low	Relatively Low	\$20,143		\$214,525	\$234,668	2		
11	Hail	Relatively Low	Relatively Low	\$165,126	\$147	\$1,530	\$166,803	20		
12	Strong Wind	Very Low	Very Low	\$44,723	\$10	\$49,222	\$93,955	190		Includes 69 High Wind records and 118 Strong Wind records, event types the NRI definition of this hazard leaves out.
13	Winter Weather	Very Low	Very Low	\$1,324	under \$1	\$1,961	\$3,285	5		
14	Volcanic Activity	Very Low	Very Low	\$1		\$346	\$348	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	\$0		\$4	\$4	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
16	Cold Wave	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	4		Includes 3 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 (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

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

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	2 of 378
Coastal Flooding	The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (https://msc.fema.gov) for this county.	60 of 378
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 378
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	59 of 378
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.	378 of 378
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	378 of 378
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	378 of 378
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 378
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 378
Inland Flooding	The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (https://msc.fema.gov) for this county.	378 of 378
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.	349 of 378
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	378 of 378
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	378 of 378

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
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.	378 of 378
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.	55 of 378
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.	303 of 378
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.	184 of 378
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	27 of 378

SOURCE

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

Supports B1-c: extent

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

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	4, 2020 to 2026 (4 zone-level)		No damage reported in 4 records.		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	1, 2022 to 2022 (1 zone-level)	1 day; 1 with a recorded value	1 consecutive day, 2022-12-02, 1 direct death, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	3, 2007 to 2021 (3 zone-level)		Frost/Freeze, 2007-01-06, \$400,000 crop damage, reported for the zone (2007 dollars); NWS zone CAZ508 (SAN FRANCISCO BAY SHORELINE), 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).

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Hail	hail size (inches)	20, 1999 to 2024	0.25 in to 0.75 in (median 0.25 in); 19 with a recorded value	0.75 in hail, 1999-02-09	Hail, 2017-01-19, \$5,000,000 property; crops not reported (2017 dollars)	Event records naming member places: Oakland city (7 records), Berkeley city (4 records), Dublin city (4 records), Pleasanton city (3 records), Piedmont city (2 records).	
Excessive Heat, Heat	heat index (narratives)	25, 2006 to 2026 (25 zone- level)	1 day to 7 days (median 1 day); 17 with a recorded value	7 consecutive days, 2022-09-04 to 2022-09-10, zone-level	Heat, 2009-05-17, \$20,000 property; \$0 crops, reported for the zone (2009 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.
Hurricane, Tropical Storm, Tropical 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 (local data)	0					Ice thickness: in event narratives only; local data required.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	179, 1996 to 2026		Flood, 2006-01-01, \$8,800,000 property; crops not reported (2006 dollars)		Event records naming member places: Emeryville city (37 records), Piedmont city (20 records), Alameda city (16 records), Oakland city (7 records), Albany city (5 records), Pleasanton city (4 records), Livermore city (3 records), Berkeley city (1 record), Dublin city (1 record), Fremont city (1 record); and 2 more member places (see the XLSX file).	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	22, 2006 to 2023 (7 zone- level)		Debris Flow, 2006-04-06, \$11,000,000 property; crops not reported, reported for the zone (2006 dollars); NWS zone CAZ510 (EAST BAY INTERIOR VALLEYS), zone-level: may include parts of neighboring counties		Event records naming member places: Livermore city (1 record), Piedmont city (1 record). Zone-level records (7) apply countywide.	Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	2, 2011 to 2020		Lightning, 2011-10-06, \$3,000 property; \$0 crops (2011 dollars)		Event records naming member places: Albany city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	187, 2005 to 2026 (187 zone-level)	22 kt (25 mph) to 96 kt (110 mph) (median 43 kt (49 mph)); 183 with a recorded value	96 kt (110 mph) measured gust, High Wind, 2008-01-04; NWS zone CAZ511 (EAST BAY HILLS AND THE DIABLO RANGE), zone-level: may include parts of neighboring counties	High Wind, 2009-10-13, \$2,500,000 property; \$0 crops, reported for the zone (2009 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)	7, 1964 to 2024	38 kt (44 mph) to 62 kt (71 mph) (median 47 kt (54 mph)); 4 with a recorded value	62 kt (71 mph), measurement type not recorded, Thunderstorm Wind, 1964-12-28	Thunderstorm Wind, 2017-04-07, \$10,000 property; \$0 crops (2017 dollars)	Event records naming member places: Fremont city (1 record).	
Tornado	Enhanced Fujita (F before Feb 2007)	3, 1982 to 1994	F/EF0; 3 with a recorded value	F0 tornado, 1994-04-25, 0.75 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 30 yd wide, \$50,000 property; crops not recorded (1994 dollars)		Event records naming member places: Livermore 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)	1, 2011 to 2011 (1 zone-level)		Tsunami, 2011-03-11, \$50,000 property; \$0 crops, reported for the zone (2011 dollars); NWS zone CAZ508 (SAN FRANCISCO BAY SHORELINE), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	14, 2019 to 2025 (14 zone- level)		Wildfire, 2019-08-07, \$5,000 property; \$0 crops, reported for the zone (2019 dollars); NWS zone CAZ510 (EAST 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.	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)	5, 2009 to 2020 (5 zone- level)		No damage reported in 5 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.

Where a hazard names more than 10 member places, the table lists the 10 with the most records; every place is in the XLSX file, sheet "B1-c Extent".

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 rows24Counted incidents20

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2023-04-03	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	\$3,149,041.26	new since last plan; within last 5 years	
2023-01-14	2022-12-27	DR-4683-CA	Major disaster	SEVERE WINTER STORMS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding (primary); also designated: Landslide, Winter Weather	\$25,452,417.03	new since last plan; 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	new since last plan; within last 5 years	same incident as DR-4683

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Flags	Notes
						<i>federal share obligated, nominal dollars</i>			
2020-03-22	2020-01-20	DR-4482-CA	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$89,320,389.27			
2020-03-13	2020-01-20	EM-3428-CA	Emergency	COVID-19	Non-natural, not counted	none found			same incident as DR-4482
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	\$8,561,698.29			
2017-03-16	2017-01-18	DR-4305-CA	Major disaster	SEVERE WINTER STORMS, FLOODING, AND MUDSLIDES	Inland Flooding (primary); also designated: Landslide, Winter Weather	\$264,899.90			
2017-02-14	2017-01-03	DR-4301-CA	Major disaster	SEVERE WINTER STORMS, FLOODING, AND MUDSLIDES	Inland Flooding; Landslide; Winter Weather	\$9,073,082.43			
2006-06-05	2006-03-29	DR-1646-CA	Major disaster	SEVERE STORMS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding; Landslide	\$5,383,252.22			
2006-02-03	2005-12-17	DR-1628-CA	Major disaster	SEVERE STORMS, FLOODING, MUDSLIDES, AND LANDSLIDES	Inland Flooding; Landslide	\$6,567,473.61			
2005-09-13	2005-08-29	EM-3248-CA	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	\$112,837.06			
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			
1991-10-22	1991-10-20	DR-919-CA	Major disaster	OAKLAND HILLS FIRE	Wildfire	none found			
1991-02-11	1990-12-19	DR-894-CA	Major disaster	SEVERE FREEZE	Cold Wave	PA not declared for this county			
1989-10-18	1989-10-17	DR-845-CA	Major disaster	LOMA PRIETA EARTHQUAKE	Earthquake	none found			
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			
1970-09-29	1970-09-29	DR-295-CA	Major disaster	FOREST & BRUSH FIRES	Wildfire	none found			

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
1970-02-16	1970-02-16	DR-283-CA	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		

School districts and special districts in this county: \$8,447,351.17 (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: 2 rows, \$2,604,006.71

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-4158-CA	2013-12-13	RIM FIRE	Berkeley, City of	\$559,848.71
DR-1529-CA	2004-06-30	FLOODING AS A RESULT OF A LEVEE BREAK	East Bay Municipal Utility District	\$2,044,158

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)

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval records	During plan review records	Last 5 years records	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	4	1	0	1	1	0	1996 to 2026-06-30	
Cold Wave	4	1	0	1	1	0	1996 to 2026-06-30	Includes 3 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
Drought	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Earthquake	0	0	0	0	1	0		No Storm Events record; local data required (e.g., USGS).
Hail	20	1	1	1	0	0	1955 to 2026-06-30	
Heat Wave	25	9	3	9	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	0	0	0	0	1	1	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Inland Flooding	179	55	2	57	15	2	1996 to 2026-06-30	
Landslide	22	1	0	1	12	2	1996 to 2026-06-30	
Lightning	2	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	194	27	7	28	1	1	1955 to 2026-06-30	Includes 69 High Wind records and 118 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	3	0	0	0	1	0	1950 to 2026-06-30	
Tsunami	1	0	0	0	0	0	1996 to 2026-06-30	
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	14	2	1	2	2	0	1996 to 2026-06-30	
Winter Weather	5	0	0	0	8	2	1996 to 2026-06-30	

SOURCESNOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2023-03-21	Strong Wind	35 kt (40 mph) estimated gust	\$10 property; \$0 crops, reported for the zone (2023 dollars)	1, 1	NWS zone CAZ510 (EAST BAY INTERIOR VALLEYS), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	deaths or injuries recorded
2023-03-10	Flood		\$0 property; \$0 crops (2023 dollars)	1, 1	ELMHURST	new since last plan; within last 5 years	deaths or injuries recorded
2022-09-04	Heat		\$0 property; \$0 crops, reported for the zone (2022 dollars)	0, 0	NWS zone CAZ508 (SAN FRANCISCO BAY SHORELINE), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2019-08-07	Wildfire		\$5,000 property; \$0 crops, reported for the zone (2019 dollars)	0, 0	NWS zone CAZ510 (EAST BAY INTERIOR VALLEYS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Wildfire
2012-03-15	Strong Wind	35 kt (40 mph) estimated gust	\$12,500 property; \$0 crops, reported for the zone (2012 dollars)	1, 4	NWS zone CAZ508 (SAN FRANCISCO BAY SHORELINE), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2011-10-06	Lightning		\$3,000 property; \$0 crops (2011 dollars)	0, 0	ALBANY		B1-c worst recorded: Lightning
2011-03-11	Tsunami		\$50,000 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone CAZ508 (SAN FRANCISCO BAY SHORELINE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Tsunami
2008-01-04	High Wind	96 kt (110 mph) measured gust	\$0 property; \$0 crops, reported for the zone (2008 dollars)	0, 0	NWS zone CAZ511 (EAST BAY HILLS AND THE DIABLO RANGE), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2006-04-06	Debris Flow		\$11,000,000 property; crops not reported, reported for the zone (2006 dollars)	0, 0	NWS zone CAZ510 (EAST BAY INTERIOR VALLEYS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Debris Flow
2006-01-01	Flood		\$8,800,000 property; crops not reported (2006 dollars)	0, 0	COUNTYWIDE		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1999-02-09	Hail	0.75 in	damage not reported	0, 0	OAKLAND		B1-c worst recorded: Hail
1994-04-25	Tornado	F0, 0.75 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 30 yd wide	\$50,000 property; crops not recorded (1994 dollars)	0, 0	Livermore		B1-c worst recorded: Tornado

The full list is in the **XLSX** file, sheet "**B1-d Storm Events history**" (473 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>

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

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1994 to 2023 (30 years)	see B1-f	0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events.
Coastal Flooding	0.977	events per year at a location (modeled)	about 0.98 per year at a given location in the county	Possible	Storm Events records in 2 of 30 years, 1996 to 2025 (6.67%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Cold Wave	0	event-days per year	none modeled	Possible	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	0	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI models no cold wave event-days here (2005-11-12 to 2024-11-12, 19 years), but Storm Events has a record in 1 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	58.4	event-days per year	about 58.4 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	2,338	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Earthquake	0.139	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 13.9%			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	0.0404	events per year	about 1 in 25 years	Possible	FEMA annualized frequency (modeled)	1.6 (modeled)	1986 to 2023 (38 years)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Heat Wave	7.1	event-days per year	about 7.1 days per year	Likely	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	84.8	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 7.1 heat wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 8 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Hurricane		events per year					1851 to 2024 (Atlantic); 1949 to 2024 (Pacific)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Ice Storm		event-days per year					1946-12-31 to 2014-02-12 (67 years)	countywide	Not Applicable in NRI for this county; no descriptor.
Inland Flooding	2.25	event-days per year	about 2.25 days per year	Likely	event-days in 22 of 30 years, 1996 to 2025 (73.3%)	63	1996 to 2023 (28 years)	see B1-f	
Landslide	24.6	events per year (modeled)	about 24.6 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	4.5	days per year with a strike	about 4.5 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.0408	events per year	about 1 in 24 years	Possible	FEMA annualized frequency (modeled)	2	1986 to 2023 (38 years)	countywide	
Tornado	0.0891	events per year	about 1 in 11 years	Possible	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami	0.342	annual probability at the most exposed location (used in place of a county value)	chance at the county's most exposed location in a year: 34.2%	Possible	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Volcanic Activity	0.0003	annual probability	about 1 in 3,333 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Wildfire	0.00579	annual probability at a location	chance a given location in the county burns in a year: 0.579%	Likely	Storm Events records in 5 of 30 years, 1996 to 2025 (16.7%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Winter Weather	0.691	event-days per year	about 0.691 days per year	Likely	event-days in 3 of 30 years, 1996 to 2025 (10%)	11.9	2005-11-12 to 2024-11-12 (19 years)	countywide	

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

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

Descriptor scale used in this packet (defined per unit)

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

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

Intensity bands: historical frequency (Storm Events)

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	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	2	30	0.0667
Tornado	EF0-1	1996 to 2025	0	30	0
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 <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	2 of 378	1.6	1.8	2.0	Very Low 2, Not Applicable 376	
Coastal Flooding	60 of 378	69.6	86.9	99.0	Relatively High 10, Relatively Moderate 15, Relatively Low 24, Very Low 11, No Rating 318	
Cold Wave	0 of 378				No Rating 378	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	59 of 378	69.7	80.1	98.6	Relatively High 1, Relatively Moderate 5, Relatively Low 28, Very Low 25, No Rating 319	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	378 of 378	80.8	97.5	100.0	Very High 196, Relatively High 174, Relatively Moderate 8	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Hail	378 of 378	0.9	8.0	37.5	Relatively Low 1, Very Low 377	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	378 of 378	1.7	39.4	82.5	Relatively Moderate 69, Relatively Low 292, Very Low 17	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 378				Not Applicable 378	
Ice Storm	0 of 378				Not Applicable 378	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	378 of 378	0.4	68.5	99.8	Very High 39, Relatively High 102, Relatively Moderate 136, Relatively Low 86, Very Low 15	
Landslide	349 of 378	8.8	57.5	100.0	Very High 2, Relatively High 13, Relatively Moderate 28, Relatively Low 44, Very Low 262, No Rating 29	
Lightning	378 of 378	0.1	2.4	13.9	Very Low 378	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	378 of 378	0.2	2.7	9.6	Very Low 378	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	378 of 378	0.7	11.1	41.6	Relatively Low 9, Very Low 369	
Tsunami	55 of 378	12.6	42.5	90.0	Relatively Moderate 4, Relatively Low 20, Very Low 31, Not Applicable 323	
Volcanic Activity	303 of 378	40.6	59.4	80.0	Very Low 303, No Rating 75	
Wildfire	184 of 378	18.6	44.9	99.2	Very High 3, Relatively High 9, Relatively Moderate 19, Relatively Low 20, Very Low 133, No Rating 194	
Winter Weather	27 of 378	10.5	15.2	23.2	Relatively Low 5, Very Low 22, No Rating 351	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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

SOURCE

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

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Alameda County	County	Approved, expires 2027-03-10	FMA RL 0, SRL 0; any 1	\$42,666,796.89	0; 0	Includes \$32,904,474.48 for declarations not counted as hazard incidents (DR-4482-CA, EM-3248-CA).

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Alameda city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 1	\$580,481.46	16; no approved plan	Includes \$182,383.46 for declarations not counted as hazard incidents (DR-4482-CA).
Albany city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 0	none found	6; no approved plan	
Berkeley city	City	Approved, expires 2030-04-14	FMA RL 0, SRL 0; any 0	\$1,521,575.19	5; 0	Includes \$409,287.28 for declarations not counted as hazard incidents (DR-4482-CA, EM-3248-CA).
Dublin city	City	Approved, expires 2029-03-21	FMA RL 0, SRL 0; any 0	\$226,253.02	5; 0	
Emeryville city	City	Approved, expires 2030-10-14	FMA RL 0, SRL 0; any 0	\$191,545.29	37; 3	
Fremont city	City	Approved, expires 2029-08-22	FMA RL 0, SRL 0; any 0	\$4,602,143	2; 0	Includes \$967,077.22 for declarations not counted as hazard incidents (DR-4482-CA).
Hayward city	City	Approved, expires 2028-04-10	FMA RL 0, SRL 0; any 0	\$246,002.78	1; 0	
Livermore city	City	Approved, expires 2029-03-21	FMA RL 0, SRL 0; any 0	\$4,971,434.28	5; 0	
Newark city	City	Approved, expires 2029-08-22	FMA RL 0, SRL 0; any 0	\$127,052.72	0; 0	
Oakland city	City	Approved, expires 2031-06-10	FMA RL 0, SRL 0; any 8	\$31,698,466.64	14; 0	Includes \$21,519,785.18 for declarations not counted as hazard incidents (DR-4482-CA).
Piedmont city	City	Approved, expires 2031-03-04	FMA RL 0, SRL 0; any 1	none found	23; 0	
Pleasanton city	City	Approved, expires 2029-03-21	FMA RL 0, SRL 1; any 1	\$2,759,424.88	7; 0	Includes \$439,261.97 for declarations not counted as hazard incidents (DR-4482-CA).
San Leandro city	City	No approved plan on record	FMA RL 0, SRL 0; any 0	\$1,523,655.27	1; no approved plan	Includes \$325,740.79 for declarations not counted as hazard incidents (DR-4482-CA).
Union City city	City	Approved, expires 2029-08-22	FMA RL 0, SRL 1; any 1	\$242,585.30	0; 0	Includes \$126,838.17 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.

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-03-11 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche	\$0		under 1	\$0		\$4					building exposure is 0 in NRI
Coastal Flooding	\$43,849,516,405		167,250	\$4,604,058		\$1,113	0.0105%		\$0		
Cold Wave	\$0	\$0	0	\$0	\$0	\$0			\$0		building exposure is 0 in NRI
Drought		\$34,586,181			\$1,439,944		4.16% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$649,369,644,621		1,682,353	\$843,220,359		\$508,406,155	0.13%				
Hail	\$373,356,820,346	\$59,439,333	1,678,284	\$165,126	\$147	\$1,530	under 0.0001%	\$10			
Heat Wave	\$373,356,820,346	\$59,439,333	1,678,284	\$2,399	\$17,587	\$13,348,602	under 0.0001%		\$0		
Hurricane											Not Applicable in NRI for this county
Ice Storm										\$3,149,041.26	Not Applicable in NRI for this county
Inland Flooding	\$373,162,087,634	\$10,816,668	33,958	\$489,055,059	\$352,602	\$1,141,465	n/a (see note)	\$150		\$28,601,458.29	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	\$18,762,686,353		67,798	\$1,772,374		\$3,895,389	0.00945%	\$10		\$28,601,458.29	
Lightning	\$373,356,820,346		1,678,284	\$20,143		\$214,525	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-03-11 <i>county-coded records; property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Strong Wind	\$373,356,820,346	\$59,439,333	1,678,284	\$44,723	\$10	\$49,222	under 0.0001%	\$0	\$90	\$3,149,041.26	Storm Events damage since the plan includes 9 zone-level Strong Wind records (\$90), an event type the NRI definition of this hazard leaves out.
Tornado	\$373,356,820,346	\$59,439,333	1,678,284	\$1,889,933	\$391	\$539,850	0.000506%				
Tsunami	\$56,565,508,719		51,776	\$3,071,360		\$0	0.00543%				
Volcanic Activity	\$373,356,820,346		1,678,284	\$1		\$346	under 0.0001%				
Wildfire	\$11,045,411,169	\$24,502,601	58,507	\$10,950,041	\$494	\$602,081	0.0991%		\$10		
Winter Weather	\$18,131,432,510	\$8,939,031	43,690	\$1,324	under \$1	\$1,961	under 0.0001%			\$28,601,458.29	

Totals since 2022-03-11 (Storm Events through 2026-06-30): 58 county-coded records, 58 with a damage value recorded (including \$0), \$170; 39 zone-level records, 38 with a damage value recorded (including \$0), \$100 reported for the zone; Public Assistance on counted declarations \$28,601,458.29 (3 declarations, 2 with PA).

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

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

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

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

Supports B2-a: context

County context

Measure	Value
Population	1,678,284
Building value (total, not at risk)	\$373,356,820,346
Agriculture value (total, not at risk)	\$59,439,333
NRI risk rating (all hazards)	Very High
Expected annual loss, buildings and agriculture, all hazards	\$1,356,608,076
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)	\$528,202,243

Measure	Value
Social vulnerability rating	Relatively Low
Community resilience rating	Very High
NRI version	December 2025

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

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

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	2
Repetitive loss, NFIP insurance definition	13	Severe repetitive loss, NFIP insurance definition	2

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 <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	0	2	13	2	13	0	4
ALAMEDA COUNTY*	0	0	1	0	1	0	0
ALAMEDA, CITY OF	0	0	1	0	1	0	1
PIEDMONT, CITY OF	0	0	1	0	1	0	0
PLEASANTON, CITY OF	0	1	1	1	1	0	0
UNION CITY, CITY OF	0	1	1	1	1	0	0
OAKLAND, CITY OF	0	0	8	0	8	0	3
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 <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>	Note
Alameda County	060001	0	0	1	0	1	0	0	

Member	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>	Note
Alameda city	060002	0	0	1	0	1	0	1	
Albany city	060003	0	0	0	0	0	0	0	
Berkeley city	060004	0	0	0	0	0	0	0	
Dublin city	060705	0	0	0	0	0	0	0	
Emeryville city	060005	0	0	0	0	0	0	0	
Fremont city	065028	0	0	0	0	0	0	0	
Hayward city	065033	0	0	0	0	0	0	0	
Livermore city	060008	0	0	0	0	0	0	0	
Newark city	060009	0	0	0	0	0	0	0	
Oakland city	065048	0	0	8	0	8	0	3	
Piedmont city	060011	0	0	1	0	1	0	0	
Pleasanton city	060012	0	1	1	1	1	0	0	
San Leandro city	060013	0	0	0	0	0	0	0	
Union City city	060014	0	1	1	1	1	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 <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	0	1	11	1	11	0	4
2 to 4 unit residential	0	0	1	0	1	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	1	1	1	1	0	0
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 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 13 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-28, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_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_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

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Cite this: Hazard Plain (2026). Alameda County, CA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 06001). Preview: automated baseline. Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

Corrections: to report an error, name the packet, the table and what your records show. Contact: 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_06001. Preview: automated baseline.