

Monterey County, CA

Risk-assessment baseline packet

Unit **County area 06053** 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 2027-09-13	Plan	Monterey County (FEMA plan 108423)
Approved	2022-09-14	Expires	2027-09-13
As of	2026-09-28	Days	350 days to expiry
Update underway	none in FEMA's plan tracker		

What changed since your last plan (approved 2022-09-14)

New federal declarations	EM-3591-CA, DR-4683-CA, EM-3592-CA, DR-4699-CA, DR-4769-CA (5 declaration rows; 3 counted incidents)	Storm Events records since approval	95 (data through 2026-06-30)
Repetitive loss now	FMA RL 7, SRL 10 (44 CFR 77.2); any definition: 127	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: 19 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
Monterey County	County	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Carmel-by-the-Sea city	City	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		member approved 2025-02-20
Del Rey Oaks city	City	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Gonzales city	City	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Greenfield city	City	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
King City city	City	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Marina city	City	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Monterey city	City	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Pacific Grove city	City	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Salinas city	City	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Sand City city	City	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		member approved 2024-11-07
Seaside city	City	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Soledad city	City	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Carmel Area Wastewater District	Water/Sewer Authority	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Monterey One Water	Water/Sewer Authority	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Monterey Regional Waste Management District	Water/Sewer Authority	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		
Monterey Regional Water Pollution Control Agency	Water/Sewer Authority	Expired on 2012-01-24	Monterey Regional Water Pollution Control Agency (FEMA plan 81314)	2007-01-24	2012-01-24	-5,361		
Moss Landing Harbor District	Highway/Port/Rail	Approved, expires 2027-09-13	Monterey County (FEMA plan 108423)	2022-09-14	2027-09-13	350		

							Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Jurisdiction	Type	Status	Plan	Approved	Expires				
Pajaro/Sunny Mesa CSD	Community Services District	Approved, expires 2028-04-17	Pajaro/Sunny Mesa Community Services District (FEMA plan 108840)	2023-04-18	2028-04-17	567			

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 population equivalence			Storm Events records since 1996	Evidence for an omission	Storm Events coverage note
				EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL total (see note) <i>modeled dollars per year</i>			
1	Earthquake	Relatively High	Relatively High	\$130,411,228		\$51,443,544	\$181,854,772		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	\$107,290,412	\$1,270,699	\$727,903	\$109,289,014	152	
3	Drought	Very High	Very High		\$81,061,294		\$81,061,294	0	Declared 1 time; no Storm Events record of this type.
4	Wildfire	Relatively High	Relatively High	\$16,498,050	\$26,726	\$581,076	\$17,105,853	22	
5	Heat Wave	Relatively Moderate	Relatively Moderate	\$5,416	\$1,533,390	\$4,758,035	\$6,296,841	14	
6	Landslide	Relatively High	Relatively High	\$3,148,127		\$1,550,977	\$4,699,104	38	
7	Tsunami	Very Low	Relatively Low	\$711,653		\$0	\$711,653	2	
8	Coastal Flooding	Relatively Low	Relatively Low	\$421,407		\$599	\$422,006	8	
9	Tornado	Relatively Low	Relatively Low	\$293,780	\$6,747	\$103,236	\$403,763	1	

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
10	Lightning	Relatively Moderate	Relatively Moderate	\$12,112		\$328,590	\$340,702	3		
11	Hail	Very Low	Very Low	\$21,821	\$91,441	\$6,742	\$120,004	21		
12	Strong Wind	Very Low	Very Low	\$27,579	\$2,495	\$44,731	\$74,806	104		Includes 36 High Wind records and 61 Strong Wind records, event types the NRI definition of this hazard leaves out.
13	Winter Weather	Very Low	Very Low	\$2,328	under \$1	\$1,381	\$3,709	2		
14	Avalanche	Very Low	Very Low	\$2		\$99	\$101	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Cold Wave	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	12		Includes 12 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.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	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.

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.	7 of 103
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.	28 of 103
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 103
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	49 of 103
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.	103 of 103
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	103 of 103
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	103 of 103
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 103
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 103
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.	103 of 103
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.	90 of 103
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	103 of 103
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	103 of 103
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.	103 of 103
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.	18 of 103
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.	0 of 103
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.	87 of 103
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	103 of 103

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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	8, 1999 to 2026 (6 zone- level)		Storm Surge/Tide, 2001-03-04, \$100,000 property; crops not reported (2001 dollars)		Event records naming member places: Pacific Grove city (1 record). Zone-level records (6) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	0					Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	12, 2007 to 2021 (12 zone- level)		Frost/Freeze, 2007-01-06, \$14,000,000 crop damage, reported for the zone (2007 dollars); Storm Events area MONTEREY BAY/N SALINAS VALLEY/ HOLLISTER VALLEY/ CARMEL VALLEY (legacy zone code CAZ514), 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, 2001 to 2023	0.25 in to 1 in (median 0.25 in); 21 with a recorded value	1 in hail, 2010-01-20	Hail, 2017-01-22, \$10 property; \$10 crops (2017 dollars)	Event records naming member places: Del Rey Oaks city (3 records), Salinas city (2 records), Marina city (1 record), Pacific Grove city (1 record), Soledad city (1 record).	
Excessive Heat, Heat	heat index (narratives)	14, 2006 to 2026 (14 zone- level)	1 day to 7 days (median 1 day); 7 with a recorded value	7 consecutive days, 2006-07-21 to 2006-07-27, zone-level		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 <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
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)	152, 1996 to 2026		Flash Flood, 1998-02-06, \$10,000,000 property; crops not reported (1998 dollars)		Event records naming member places: Salinas city (7 records), Gonzales city (2 records), Greenfield city (1 record), Seaside city (1 record), Soledad 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 and damage)	38, 2008 to 2025 (6 zone- level)		Debris Flow, 2017-05-19, \$10,000,000 property; \$0 crops (2017 dollars)		Event records naming member places: Salinas city (2 records). Zone-level records (6) apply countywide.	Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	3, 2020 to 2023		Lightning, 2023-01-10, \$1,000 property; \$0 crops (2023 dollars)		No event record names a member place.	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)	97, 2006 to 2026 (97 zone- level)	22 kt (25 mph) to 79 kt (91 mph) (median 43 kt (49 mph)); 94 with a recorded value	79 kt (91 mph) measured gust, High Wind, 2025-12-23; NWS zone CAZ517 (SANTA LUCIA MOUNTAINS AND LOS PADRES NATIONAL FOREST), zone-level: may include parts of neighboring counties	High Wind, 2009-10-13, \$1,000,000 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, 2020 to 2025	26 kt (30 mph) to 68 kt (78 mph) (median 54 kt (62 mph)); 7 with a recorded value	68 kt (78 mph) measured gust, Thunderstorm Wind, 2024-12-14	Thunderstorm Wind, 2025-02-13, \$10 property; \$0 crops (2025 dollars)	No event record names a member place.	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Tornado	Enhanced Fujita (F before Feb 2007)	5, 1987 to 2016	F/EF0 to F/EF1 (median F/EF0); 5 with a recorded value	F1 tornado, 1992-12-06, 7 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 73 yd wide, \$250,000 property; crops not recorded (1992 dollars), 2 direct injuries		No event record names a member place.	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)	2, 2006 to 2011 (2 zone-level)		Tsunami, 2011-03-11, \$1,800,000 property; \$0 crops, reported for the zone (2011 dollars); NWS zone CAZ530 (SOUTHERN MONTEREY BAY AND BIG SUR COAST), 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.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	22, 1996 to 2021 (18 zone-level)		Wildfire, 1999-09-08, \$66,900,000 property; crops not reported (1999 dollars)		No event record names a member place. Zone-level records (18) apply countywide.	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, 2019 to 2019 (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

33

Counted incidents

25

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
2024-04-13	2024-01-31	DR-4769-CA	Major disaster	SEVERE WINTER STORMS, TORNADOES, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding; Landslide; Tornado; Winter Weather	\$939,437.79	new since last plan; within last 5 years	
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	\$12,814,263.71	new since last plan; 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	new since last plan; 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	\$12,261,027.81	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
2020-08-22	2020-08-14	DR-4558-CA	Major disaster	WILDFIRES	Wildfire	\$2,089,380.34		
2020-08-19	2020-08-18	FM-5333-CA	Fire management	CARMEL FIRE	Wildfire	none found		same incident as DR-4558
2020-08-17	2020-08-16	FM-5329-CA	Fire management	RIVER FIRE	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	\$28,909,075.62		
2020-03-13	2020-01-20	EM-3428-CA	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4482
2019-05-17	2019-02-24	DR-4434-CA	Major disaster	SEVERE WINTER STORMS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding; Landslide; Winter Weather	\$77,250.78		
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	\$8,183,372.66		
2017-02-14	2017-01-03	DR-4301-CA	Major disaster	SEVERE WINTER STORMS, FLOODING, AND MUDSLIDES	Inland Flooding; Landslide; Winter Weather	\$9,601,336.75		
2016-07-28	2016-07-22	FM-5137-CA	Fire management	SOBERANES FIRE	Wildfire	none found		
2011-04-18	2011-03-11	DR-1968-CA	Major disaster	TSUNAMI WAVES	Tsunami	\$3,107,906.35		
2008-07-04	2008-07-04	FM-2781-CA	Fire management	BASIN FIRE COMPLEX	Wildfire	none found		same incident as EM-3287

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2008-06-28	2008-06-20	EM-3287-CA	Emergency	WILDFIRES	Wildfire	\$414,879.09		
2007-03-13	2007-01-11	DR-1689-CA	Major disaster	SEVERE FREEZE	Cold Wave	PA not declared for this county		
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		
1999-02-09	1998-12-20	DR-1267-CA	Major disaster	CA-CITRUS CROP DAMAGE 2/2/99	Cold Wave	PA not declared for this county		
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		
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		
1989-10-18	1989-10-17	DR-845-CA	Major disaster	LOMA PRIETA EARTHQUAKE	Earthquake	none found		
1985-07-18	1985-06-26	DR-739-CA	Major disaster	GRASS, WILDLANDS, & FOREST FIRES	Wildfire	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		
1978-02-15	1978-02-15	DR-547-CA	Major disaster	COASTAL STORMS, MUDSLIDES & FLOODING	Coastal 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		
1967-01-02	1967-01-02	DR-223-CA	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		

School districts and special districts in this county: \$5,635,292.94 (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		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
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, \$5,011.43

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-1628-CA	2006-02-03	SEVERE STORMS, FLOODING, MUDSLIDES, AND LANDSLIDES	RECLAMATION DISTRICT #0784, PLUMAS LAKE	\$5,011.43

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 records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	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	8	3	0	3	2	0	1996 to 2026-06-30	
Cold Wave	12	0	0	0	3	0	1996 to 2026-06-30	Includes 12 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	21	1	0	1	0	0	1955 to 2026-06-30	

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Heat Wave	14	4	6	10	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	152	54	1	55	14	3	1996 to 2026-06-30	
Landslide	38	2	0	2	12	3	1996 to 2026-06-30	
Lightning	3	1	1	2	0	0	1996 to 2026-06-30	
Strong Wind	104	30	1	31	1	1	1955 to 2026-06-30	Includes 36 High Wind records and 61 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	5	0	0	0	2	1	1950 to 2026-06-30	
Tsunami	2	0	0	0	1	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	22	0	0	0	4	0	1996 to 2026-06-30	
Winter Weather	2	0	0	0	10	3	1996 to 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 <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2025-02-13	Flood		\$0 property; \$0 crops (2025 dollars)	1, 0	CARMEL VLY	new since last plan; within last 5 years	deaths or injuries recorded
2023-08-30	High Wind	25 kt (29 mph) estimated gust	\$0 property; \$0 crops, reported for the zone (2023 dollars)	1, 0	NWS zone CAZ530 (SOUTHERN MONTEREY BAY AND BIG SUR COAST), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	deaths or injuries recorded

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2023-01-10	Lightning		\$1,000 property; \$0 crops (2023 dollars)	0, 0	MONTEREY PNSLA ARPT	new since last plan; within last 5 years	B1-c worst recorded: Lightning
2017-05-19	Debris Flow		\$10,000,000 property; \$0 crops (2017 dollars)	0, 0	GORDA		B1-c worst recorded: Debris Flow
2012-10-02	Heat		\$0 property; \$0 crops, reported for the zone (2012 dollars)	1, 0	NWS zone CAZ528 (NORTHERN SALINAS VALLEY / HOLLISTER VALLEY / CARMEL VALLEY), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2011-03-11	Tsunami		\$1,800,000 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone CAZ530 (SOUTHERN MONTEREY BAY AND BIG SUR COAST), zone-level: may include parts of neighboring counties		B1-c worst recorded: Tsunami
2010-01-20	Hail	1 in	\$0 property; \$0 crops (2010 dollars)	0, 0	DEL REY OAKS		B1-c worst recorded: Hail
2006-07-21	Heat		damage not reported	0, 0	NWS zone CAZ516 (SOUTHERN SALINAS VALLEY / ARROYO SECO / LAKE SAN ANTONIO), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2001-03-04	Storm Surge/Tide		\$100,000 property; crops not reported (2001 dollars)	0, 0	(MRY)MONTEREY ARPT		B1-c worst recorded: Coastal Flood, Storm Surge/Tide
1999-09-08	Wildfire		\$66,900,000 property; crops not reported (1999 dollars)	0, 0	CARMEL		B1-c worst recorded: Wildfire
1998-02-06	Flash Flood		\$10,000,000 property; crops not reported (1998 dollars)	0, 0	WEST PORTION		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1992-12-06	Tornado	F1, 7 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 73 yd wide	\$250,000 property; crops not recorded (1992 dollars)	0, 2	location not recorded		B1-c worst recorded: Tornado

The full list is in the XLSX file, sheet "B1-d Storm Events history" (383 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 annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1994 to 2023 (30 years)	see B1-f	0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events.
Coastal Flooding	3.1	events per year at a location (modeled)	about 3.1 per year at a given location in the county	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	Descriptor from NRI: the rate at a location is 1 or more a year, so the county rate is at least that.
Cold Wave	0	event-days per year	none modeled		event-days in 0 of 30 years, 1996 to 2025 (0%)	0	2005-11-12 to 2024-11-12 (19 years)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned. Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	94.4	event-days per year	about 94.4 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	3,276	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Earthquake	0.155	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 15.5%			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	0.0481	events per year	about 1 in 21 years	Possible	FEMA annualized frequency (modeled)	1.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	7.46	event-days per year	about 7.46 days per year	Likely	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	81.6	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 7.46 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 4 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.

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
Inland Flooding	1.82	event-days per year	about 1.82 days per year	Likely	event-days in 21 of 30 years, 1996 to 2025 (70%)	51	1996 to 2023 (28 years)	see B1-f	
Landslide	130	events per year (modeled)	about 130 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	2.67	days per year with a strike	about 2.67 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.017	events per year	about 1 in 59 years	Possible	FEMA annualized frequency (modeled)	1	1986 to 2023 (38 years)	countywide	
Tornado	0.133	events per year	about 1 in 8 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami	0.388	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: 38.8%	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.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.00879	annual probability at a location	chance a given location in the county burns in a year: 0.879%	Likely	Storm Events records in 9 of 30 years, 1996 to 2025 (30%)	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	1.5	event-days per year	about 1.5 days per year	Possible	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	24.9	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 1.5 winter weather 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 1 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.

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)
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 <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	1	30	0.0333
Hail	2.00 in+	1996 to 2025	0	30	0
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	3	30	0.1
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	2	30	0.0667
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	2	30	0.0667
Tornado	EF0-1	1996 to 2025	1	30	0.0333
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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 rated of all	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	7 of 103	15.5	17.1	18.1	Very Low 7, Not Applicable 96	
Coastal Flooding	28 of 103	68.2	80.2	98.0	Relatively High 1, Relatively Moderate 3, Relatively Low 15, Very Low 9, No Rating 75	
Cold Wave	0 of 103				No Rating 103	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	49 of 103	78.4	94.9	100.0	Very High 9, Relatively High 10, Relatively Moderate 12, Relatively Low 17, Very Low 1, No Rating 54	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	103 of 103	74.9	93.8	100.0	Very High 27, Relatively High 51, Relatively Moderate 24, Relatively Low 1	
Hail	103 of 103	1.3	8.0	76.1	Relatively Moderate 1, Relatively Low 8, Very Low 94	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 76% 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.
Heat Wave	103 of 103	2.6	54.6	96.3	Relatively High 13, Relatively Moderate 38, Relatively Low 47, Very Low 5	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 103				Not Applicable 103	
Ice Storm	0 of 103				Not Applicable 103	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	103 of 103	1.6	67.3	99.5	Very High 14, Relatively High 21, Relatively Moderate 41, Relatively Low 20, Very Low 7	
Landslide	90 of 103	10.6	58.7	100.0	Very High 2, Relatively High 8, Relatively Moderate 12, Relatively Low 9, Very Low 59, No Rating 13	
Lightning	103 of 103	0.3	19.3	45.8	Relatively Low 48, Very Low 55	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	103 of 103	1.1	8.1	19.2	Very Low 103	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	103 of 103	2.7	7.8	38.7	Relatively Low 1, Very Low 102	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Tsunami	18 of 103	13.6	24.9	89.7	Relatively Moderate 1, Relatively Low 3, Very Low 14, No Rating 6, Not Applicable 79	
Volcanic Activity	0 of 103				Not Applicable 103	
Wildfire	87 of 103	18.6	71.4	99.9	Very High 4, Relatively High 12, Relatively Moderate 13, Relatively Low 18, Very Low 40, No Rating 16	
Winter Weather	103 of 103	10.7	13.3	23.6	Relatively Low 4, Very Low 99	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
Monterey County	County	Approved, expires 2027-09-13	FMA RL 7, SRL 10; any 123	\$46,944,030.62	0; 0	Includes \$13,213,886.22 for declarations not counted as hazard incidents (DR-4482-CA).
Carmel-by-the-Sea city	City	Approved, expires 2027-09-13	FMA RL 0, SRL 0; any 0	\$125,915.54	0; 0	Includes \$10,321.47 for declarations not counted as hazard incidents (DR-4482-CA).
Del Rey Oaks city	City	Approved, expires 2027-09-13	FMA RL 0, SRL 0; any 0	\$75,985.72	3; 0	
Gonzales city	City	Approved, expires 2027-09-13	FMA RL 0, SRL 0; any 2	\$15,703	2; 0	
Greenfield city	City	Approved, expires 2027-09-13	FMA RL 0, SRL 0; any 0	\$241,402.56	1; 0	
King City city	City	Approved, expires 2027-09-13	FMA RL 0, SRL 0; any 0	\$136,223.96	0; 0	Includes \$41,384.76 for declarations not counted as hazard incidents (DR-4482-CA).
Marina city	City	Approved, expires 2027-09-13	FMA RL 0, SRL 0; any 0	\$52,735.69	1; 0	
Monterey city	City	Approved, expires 2027-09-13	FMA RL 0, SRL 0; any 2	\$1,612,094.10	0; 0	Includes \$284,041.62 for declarations not counted as hazard incidents (DR-4482-CA).
Pacific Grove city	City	Approved, expires 2027-09-13	FMA RL 0, SRL 0; any 0	\$217,049.94	2; 0	Includes \$15,039.83 for declarations not counted as hazard incidents (DR-4482-CA).

Member	Type	Plan status	Repetitive loss	Public Assistance matched	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>federal share obligated, nominal dollars</i>	<i>all years; since the member's plan</i>	
Salinas city	City	Approved, expires 2027-09-13	FMA RL 0, SRL 0; any 0	\$3,535,560.23	11; 2	Includes \$28,000 for declarations not counted as hazard incidents (DR-4482-CA).
Sand City city	City	Approved, expires 2027-09-13	FMA RL 0, SRL 0; any 0	\$89,086.97	0; 0	
Seaside city	City	Approved, expires 2027-09-13	FMA RL 0, SRL 0; any 0	\$1,877,849.71	1; 1	Includes \$1,594,369.98 for declarations not counted as hazard incidents (DR-4482-CA).
Soledad city	City	Approved, expires 2027-09-13	FMA RL 0, SRL 0; any 0	\$179,728.21	2; 0	Includes \$113,661.55 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 2022-09-14 <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	\$1,906,394		under 1	\$2		\$99	0.000105%				
Coastal Flooding	\$32,339,787,357		220,628	\$421,407		\$599	0.0013%		\$0		
Cold Wave	\$0	\$0	0	\$0	\$0	\$0					building exposure is 0 in NRI

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	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 2022-09-14 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Drought		\$3,839,701,583			\$81,061,294		2.11% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$148,756,901,122		439,035	\$130,411,228		\$51,443,544	0.0877%				
Hail	\$85,771,236,202	\$5,299,744,964	438,599	\$21,821	\$91,441	\$6,742	under 0.0001%	\$10			
Heat Wave	\$85,771,236,202	\$5,299,744,964	438,599	\$5,416	\$1,533,390	\$4,758,035	under 0.0001%		\$0		
Hurricane											Not Applicable in NRI for this county
Ice Storm										\$12,814,263.71	Not Applicable in NRI for this county
Inland Flooding	\$85,743,615,693	\$1,331,974,245	13,725	\$107,290,412	\$1,270,699	\$727,903	n/a (see note)	\$80		\$26,014,729.31	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	\$6,104,628,160		21,558	\$3,148,127		\$1,550,977	0.0516%	\$10		\$26,014,729.31	
Lightning	\$85,771,236,202		438,599	\$12,112		\$328,590	under 0.0001%	\$1,000			
Strong Wind	\$85,771,236,202	\$5,299,744,964	438,599	\$27,579	\$2,495	\$44,731	under 0.0001%	\$10	\$110	\$12,814,263.71	Storm Events damage since the plan includes 1 zone-level High Wind record (\$10) and 10 zone-level Strong Wind records (\$100), event types the NRI definition of this hazard leaves out.
Tornado	\$85,771,236,202	\$5,299,744,964	438,599	\$293,780	\$6,747	\$103,236	0.000343%			\$939,437.79	
Tsunami	\$4,777,323,781		1,137	\$711,653		\$0	0.0149%				
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$7,364,778,904	\$1,159,528,623	40,235	\$16,498,050	\$26,726	\$581,076	0.224%				
Winter Weather	\$85,771,236,202	\$5,299,744,964	438,599	\$2,328	under \$1	\$1,381	under 0.0001%			\$26,014,729.31	

Totals since 2022-09-14 (Storm Events through 2026-06-30): 64 county-coded records, 64 with a damage value recorded (including \$0), \$1,110; 31 zone-level records, 31 with a damage value recorded (including \$0), \$110 reported for the zone; Public Assistance on counted declarations \$26,014,729.31 (5 declarations, 3 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	438,599
Building value (total, not at risk)	\$85,771,236,202
Agriculture value (total, not at risk)	\$5,299,744,964
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$342,836,709
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)	\$59,546,915
Social vulnerability rating	Relatively Moderate
Community resilience rating	Relatively Low
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)	7	Severe repetitive loss, FMA definition (44 CFR 77.2)	10
Repetitive loss, NFIP insurance definition	124	Severe repetitive loss, NFIP insurance definition	8

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	7	10	124	8	127	1	36
MONTEREY COUNTY *	7	10	120	8	123	1	35
GONZALES, CITY OF	0	0	2	0	2	0	0
MONTEREY, CITY OF	0	0	2	0	2	0	1
State level, not in this county: county not reported	0	1	3	0	4	1	0

SOURCESFEMA, 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
Monterey County	060195	7	10	120	8	123	1	35	
Carmel-by-the-Sea city	060196	0	0	0	0	0	0	0	
Del Rey Oaks city	060197	0	0	0	0	0	0	0	
Gonzales city	060198	0	0	2	0	2	0	0	
Greenfield city	060446	0	0	0	0	0	0	0	
King City city	060199	0	0	0	0	0	0	0	
Marina city	060727	0	0	0	0	0	0	0	
Monterey city	060200	0	0	2	0	2	0	1	
Pacific Grove city	060201	0	0	0	0	0	0	0	
Salinas city	060202	0	0	0	0	0	0	0	
Sand City city	060435	0	0	0	0	0	0	0	
Seaside city	060203	0	0	0	0	0	0	0	
Soledad city	060204	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.

SOURCESFEMA, 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	6	9	118	7	120	1	34

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>
2 to 4 unit residential	0	1	2	1	2	0	0
other residential	0	0	3	0	3	0	1
non-residential	1	0	1	0	2	0	1
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 1 property is FMA repetitive loss but not NFIP repetitive loss, and 118 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_cousubs_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). Monterey County, CA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 06053). 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_06053. Preview: automated baseline.