

Kern County, CA

Risk-assessment baseline packet

County FIPS: 06029 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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Summary

Plan status as of 2026-09-30: Expired on 2026-04-08. Plan: Kern County (FEMA plan 107005), approved 2021-04-09.

Since the plan was approved on 2021-04-09: 5 new hazard declarations (4 incidents) and 566 NOAA Storm Events records; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Earthquake (\$184,018,733 a year), Inland Flooding (\$147,215,281) and Heat Wave (\$42,545,674).

The tables that follow are organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B (B1-a to B2-c); each heading says which item its tables support.

TERMS USED

EAL: expected annual loss: FEMA's modeled average yearly loss from a hazard.

NRI: FEMA's National Risk Index (version 1.20, December 2025).

NFIP: National Flood Insurance Program.

RL, SRL: repetitive loss and severe repetitive loss: flood-insured properties with repeated claims (definitions in B2-c).

FMA, HMGP: Flood Mitigation Assistance and Hazard Mitigation Grant Program, FEMA mitigation grants.

PA: FEMA Public Assistance: disaster aid to governments and some nonprofits.

Zone-level: NOAA logged the event for a National Weather Service forecast zone, which may include parts of neighboring counties.

County-coded: NOAA logged the event to this county.

FIPS: the federal code for a place; 06029 is this area.

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

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

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

CFR: Code of Federal Regulations.

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

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

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Plan clock

Status:	Expired on 2026-04-08	Plan:	Kern County (FEMA plan 107005)
Approved:	2021-04-09	Days since expiry:	175
Update underway:	none recorded in FEMA's plan tracker		

Until a new plan is approved, FEMA mitigation project grants (HMGP, FMA) need a FEMA exception (44 CFR 201.6(a)(3)).

What changed since your last plan (approved 2021-04-09)

New federal declarations:	5 new hazard declarations (4 incidents): FM-5416-CA (French Fire), EM-3592-CA (Severe Winter Storms, Flooding, Landslides, and Mudslides), DR-4699-CA (Severe Winter Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides), DR-4750-CA (Tropical Storm Hilary), FM-5522-CA (Borel Fire)	Storm Events records since approval:	566 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 3	Repeat-flood change:	this release sets the baseline count.

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

Plan status for every jurisdiction listed in this county: 51 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>
Kern County	County	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Arvin city	City	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Bakersfield city	City	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
California City city	City	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Delano city	City	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Maricopa city	City	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
McFarland city	City	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Ridgecrest city	City	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Shafter city	City	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Taft city	City	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Tehachapi city	City	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Wasco city	City	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Bakersfield City School District	School/School District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Buttonwillow Union Elementary School District	School/School District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Kern High School District	School/School District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Lost Hills Union Elementary School District	School/School District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Mojave Unified School District	School/School District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Richland Union School District	School/School District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Sierra Sands Unified School District	School/School District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Taft City School District	School/School District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Tehachapi Unified School District	School/School District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Antelope Valley - East Kern Water Agency	Water/Sewer Authority	Approved, expires 2027-07-14	Antelope Valley East Kern Water Agency (FEMA plan 108212)	2022-07-15	2027-07-14	287
Arvin Community Services District	Community Services District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry
						<i>negative = days since expiry</i>
Arvin-Edison Water Storage District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Bear Valley Community Services District	Community Services District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Berrenda Mesa Water District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Buttonwillow County Water District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Cawelo Water District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
East Niles Community Services District	Community Services District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Ford City-Taft Heights Sanitation District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Golden Hills Community Services District	Community Services District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Greenfield County Water District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Henry Miller Water District	Water/Sewer Authority	Expired on 2023-05-30	Central California Irrigation District (FEMA plan 104939)	2018-05-31	2023-05-30	-1,219
Kern Community College District	College/University	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Kern County Water Agency	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Kern Delta Water District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Kern Sanitation Authority	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Kern-Tulare Water District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Lost Hills Water District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Mojave Air and Space Port	Transit/Airport	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
North of the River Municipal Water District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
North of the River Recreation and Parks District	Special District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
North of the River Sanitary District No. 1	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Rosamond Community Services District	Community Services District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Semitropic Water Storage District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>
Shafter Recreation and Parks District	Special District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Stallion Springs Community Services District	Community Services District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Tehachapi Valley Recreation and Parks District	Special District	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Tehachapi-Cummings County Water District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
West Kern Water District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175
Wheeler Ridge-Maricopa Water Storage District	Water/Sewer Authority	Expired on 2026-04-08	Kern County (FEMA plan 107005)	2021-04-09	2026-04-08	-175

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Earthquake	Relatively High	Relatively High	\$139,491,856	n/a	\$44,526,877	\$184,018,733		Storm Events does not record earthquakes.
2	Inland Flooding	Relatively High	Relatively High	\$142,035,075	\$4,945,716	\$234,491	\$147,215,281	459	
3	Heat Wave	Relatively High	Relatively High	\$26,877	\$7,626,194	\$34,892,603	\$42,545,674	70	
4	Wildfire	Relatively High	Relatively High	\$36,748,316	\$22,662	\$1,712,060	\$38,483,037	34	

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
5	Drought	Relatively High	Relatively High	n/a	\$1,992,269	n/a	\$1,992,269	29	
6	Lightning	Relatively High	Relatively Moderate	\$26,605	n/a	\$733,929	\$760,534	41	
7	Landslide	Relatively High	Relatively Moderate	\$8,714	n/a	\$748,921	\$757,635	51	
8	Hail	Relatively Low	Relatively Low	\$5,145	\$285,456	\$123,636	\$414,237	37	
9	Strong Wind	Relatively Low	Relatively Low	\$141,825	\$12,528	\$244,723	\$399,076	376	Includes 297 High Wind and 26 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
10	Winter Weather	Relatively Moderate	Relatively Moderate	\$1,750	under \$1	\$188,448	\$190,199	73	
11	Tornado	Very Low	Very Low	\$132,791	\$2,218	\$50,543	\$185,553	10	
12	Cold Wave	Very Low	Very Low	\$20	\$0	\$4,835	\$4,855	40	Includes 40 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
13	Avalanche	Very Low	Very Low	\$15	n/a	\$321	\$336	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Volcanic Activity	Very Low	Very Low	under \$1	n/a	\$25	\$25	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Coastal Flooding	Not Applicable	Not Applicable					0	Declared 2 times; no Storm Events record of this type.
	Hurricane	Not Applicable	Not Applicable					0	Declared 1 time; no Storm Events record of this type.
	Ice Storm	Not Applicable	Not Applicable					1	

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

NRI risk rating combines expected annual loss with social vulnerability and community resilience; EAL rating rates expected annual loss alone. Both compare this county with all U.S. counties.

Local data needed: state and local volcanic activity records (Storm Events records this hazard only in part).

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: tsunamis. That is the evidence for leaving them out of the plan.

The state hazard mitigation plan also lists hazards for this county; FEMA asks the plan to explain any hazard it leaves out.

Supports FEMA checklist item B1-b: hazard location

Affects the whole county (national data give no location within it): Cold Wave, Drought, Hail, Heat Wave, Ice Storm, Lightning, Strong Wind and Winter Weather.

Inland Flooding: The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (<https://msc.fema.gov>) for this county.

Hazards that vary within the county: highest-rated census tracts

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Avalanche	tract 52.05 (Very Low, 35.9); tract 60.10 (Very Low, 35.2); tract 60.06 (Very Low, 35.1)
Coastal Flooding	no tract has a National Risk Index rating for this hazard
Earthquake	tract 16 (Very High, 99.9); tract 45 (Very High, 99.6); tract 66 (Very High, 99.3)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 52.08 (Relatively High, 99.8); tract 52.06 (Relatively High, 99.7); tract 33.07 (Relatively High, 99.6)
Tornado	tract 59 (Very Low, 20.1); tract 58.04 (Very Low, 18.7); tract 55.14 (Very Low, 18.5)
Volcanic Activity	tract 52.03 (Very Low, 77.6); tract 52.05 (Very Low, 77.4); tract 55.09 (Very Low, 76.4)
Wildfire	tract 52.08 (Very High, 99.9); tract 60.12 (Very High, 99.9); tract 60.10 (Very High, 99.8)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 52.05 is Census Tract 52.05). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Avalanche	none (count and damage only)	0					
Coastal Flood, Storm Surge/ Tide	none in data (flood depth: FIRM)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	0					

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	40 records, 2019 to 2026 (40 zone-level)		No crop damage reported in 40 records.		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	29 records, 2015 to 2025 (29 zone-level)	68 days to 702 days (median 92 days); 3 with a recorded value	702 days (23 months), 2021-03-01 to 2023-01-31, a run of 23 consecutive Storm Events drought records, zone- level		Countywide (zone-level records).	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	41 records, 1982 to 2023	0.5 in to 1.75 in (median 0.88 in); 38 with a recorded value	1.75 in hail, 2023-06-05; same size also recorded on 2000-08-01, 2005-08-15	Hail, 1999-07-11, \$20,000 property; crops not reported (1999 dollars)	Event records naming jurisdictions in the plan: Bakersfield city (4 records), Ridgecrest city (2 records), Tehachapi city (2 records), Arvin city (1 record), Maricopa city (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	70 records, 2019 to 2026 (70 zone-level)	1 day to 12 days (median 3 days); 42 with a recorded value	12 consecutive days, 2024-07-02 to 2024-07-13, zone-level		Countywide (zone-level records).	Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	1 record, 2020 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	459 records, 1997 to 2026		Flood, 2011-01-02, \$12,700,000 property; \$0 crops (2011 dollars)		Event records naming jurisdictions in the plan: Bakersfield city (17 records), Tehachapi city (12 records), Ridgecrest city (6 records), Delano city (5 records), Maricopa city (5 records), Taft city (5 records), Arvin city (3 records), Wasco city (1 record).	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	51 records, 2016 to 2024		Debris Flow, 2019-12-26, \$100,000 property; \$0 crops (2019 dollars)		Event records naming jurisdictions in the plan: Delano city (1 record), Maricopa city (1 record), Taft city (1 record).	
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	41 records, 1997 to 2022		Lightning, 2015-07-18, \$0 property; \$0 crops (2015 dollars), 1 direct death	Lightning, 1999-07-12, \$110,000 property; crops not reported (1999 dollars)	Event records naming jurisdictions in the plan: Ridgecrest city (5 records), Bakersfield city (4 records), Tehachapi city (3 records), Wasco city (2 records), Delano city (1 record), Taft city (1 record).	Storm Events lists lightning with damage or casualties.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	323 records, 2000 to 2026 (317 zone-level)	29 kt (33 mph) to 96 kt (110 mph) (median 59 kt (68 mph)); 322 with a recorded value	96 kt (110 mph) measured gust, High Wind, 2022-04-11; NWS zone CAZ338 (MOJAVE DESERT SLOPE(S))	High Wind, 2021-01-27, \$250,000 property; \$0 crops (zone total, 2021 dollars)	Event records naming jurisdictions in the plan: Bakersfield city (1 record), Ridgecrest city (1 record), Tehachapi city (1 record). Zone-level records (317) apply countywide.	
Thunderstorm Wind	wind speed (kt and mph)	57 records, 1960 to 2024	35 kt (40 mph) to 72 kt (83 mph) (median 50 kt (58 mph)); 48 with a recorded value	72 kt (83 mph) measured gust, Thunderstorm Wind, 2007-09-03	Thunderstorm Wind, 2011-09-23, \$100,000 property; \$0 crops (2011 dollars)	Event records naming jurisdictions in the plan: Arvin city (2 records), Bakersfield city (2 records), Ridgecrest city (1 record), Tehachapi city (1 record).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	16 records, 1988 to 2019	F/EF0 to F/EF1 (median F/EF0); 16 with a recorded value	F1 tornado, 1991-03-17, 0.1 mi path length (whole path, pre-1996), 40 yd wide, \$250,000 property; crops not recorded (1991 dollars)		Event records naming jurisdictions in the plan: Bakersfield city (3 records), McFarland city (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					
Wildfire	acres burned (local data)	34 records, 1997 to 2020 (7 zone-level)		Wildfire, 2002-07-21, \$3,780,000 property; crops not reported (2002 dollars)		Event records naming jurisdictions in the plan: Bakersfield city (4 records), Tehachapi city (3 records), Taft city (1 record). Zone-level records (7) apply countywide.	
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	73 records, 2019 to 2025 (73 zone-level)		No damage reported in 73 records.		Countywide (zone-level records).	

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

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records from zones that no NWS zone-county file places in this county (mostly before 2020) are not counted here (the Methods page explains the zone matching).

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 40 declarations covering 36 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2024-07-27	2024-07-25	FM-5522-CA	Fire management	Borel Fire	Wildfire	no Public Assistance recorded	new since last plan; within last 5 years	
2023-11-21	2023-08-19	DR-4750-CA	Major disaster	Tropical Storm Hilary	Hurricane (primary); also designated: Inland Flooding, Landslide	\$800,961.23	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	\$7,878,608.77	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	no Public Assistance recorded	new since last plan; within last 5 years	same incident as DR-4699
2021-08-25	2021-08-24	FM-5416-CA	Fire management	French Fire	Wildfire	no Public Assistance recorded	new since last plan	
2020-03-22	2020-01-20	DR-4482-CA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$136,526,631.20		
2020-03-13	2020-01-20	EM-3428-CA	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4482
2019-07-08	2019-07-04	EM-3415-CA	Emergency	Earthquakes	Earthquake	no Public Assistance recorded		
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	\$4,007,510.62		
2016-08-22	2016-08-16	FM-5150-CA	Fire management	Cedar Fire	Wildfire	no Public Assistance recorded		
2016-06-24	2016-06-23	FM-5131-CA	Fire management	Erskine Fire	Wildfire	no Public Assistance recorded		
2014-08-19	2014-08-18	FM-5075-CA	Fire management	Way Fire	Wildfire	no Public Assistance recorded		
2011-09-11	2011-09-10	FM-2971-CA	Fire management	Comanche Fire Complex	Wildfire	no Public Assistance recorded		
2011-09-11	2011-09-10	FM-2970-CA	Fire management	Keene Fire Complex	Wildfire	no Public Assistance recorded		
2011-09-05	2011-09-04	FM-2961-CA	Fire management	Canyon Fire	Wildfire	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2011-01-26	2010-12-17	DR-1952-CA	Major disaster	Severe Winter Storms, Flooding, and Debris and Mud Flows	Inland Flooding (primary); also designated: Winter Weather	\$4,094,309.60		
2010-09-15	2010-09-14	FM-2858-CA	Fire management	Canyon Fire	Wildfire	no Public Assistance recorded		
2010-08-24	2010-08-24	FM-2852-CA	Fire management	Post Fire	Wildfire	no Public Assistance recorded		
2010-07-28	2010-07-27	FM-2850-CA	Fire management	West Fire	Wildfire	no Public Assistance recorded		
2010-07-27	2010-07-26	FM-2849-CA	Fire management	Bull Fire	Wildfire	no Public Assistance recorded		
2008-06-28	2008-06-20	EM-3287-CA	Emergency	Wildfires	Wildfire	\$49,957.12		
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	\$12,468.27		
2005-04-14	2005-02-16	DR-1585-CA	Major disaster	Severe Storms, Flooding, Landslides, and Mud and Debris Flows	Inland Flooding; Landslide	\$943,723.72		
2005-02-04	2004-12-27	DR-1577-CA	Major disaster	Severe Storms, Flooding, Debris Flows, and Mudslides	Inland Flooding; Landslide	PA not declared for this county		
2003-06-29	2003-06-29	FM-2474-CA	Fire management	Ca - Tejon Fire - 06-30-2003	Wildfire	no Public Assistance recorded		
2003-06-28	2003-06-26	FM-2473-CA	Fire management	Ca - Sawmill Fire - 06-27-2003	Wildfire	no Public Assistance recorded		
2002-07-22	2002-07-21	FM-2450-CA	Fire management	Deer Fire	Wildfire	no Public Assistance recorded		
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	no Public Assistance recorded		
1995-03-12	1995-02-13	DR-1046-CA	Major disaster	Severe Winter Storms, Flooding Landslides, Mud Flow	Inland Flooding; Landslide; Winter Weather	no Public Assistance recorded		
1995-01-10	1995-01-03	DR-1044-CA	Major disaster	Severe Winter Storms, Flooding, Landslides, Mud Flows	Inland Flooding; Landslide; Winter Weather	no Public Assistance recorded		
1992-02-25	1992-02-10	DR-935-CA	Major disaster	Rain/Snow/Wind Storms, Flooding, Mudslides	Inland Flooding (primary); also designated: Landslide, Strong Wind, Winter Weather	no Public Assistance recorded		
1991-02-11	1990-12-19	DR-894-CA	Major disaster	Severe Freeze	Cold Wave	PA not declared for this county		
1983-02-09	1983-01-21	DR-677-CA	Major disaster	Coastal Storms, Floods, Slides & Tornadoes	Coastal Flooding; Inland Flooding; Landslide; Tornado	no Public Assistance recorded		
1978-02-15	1978-02-15	DR-547-CA	Major disaster	Coastal Storms, Mudslides & Flooding	Coastal Flooding (primary); also designated: Landslide	no Public Assistance recorded		
1977-01-20	1977-01-20	EM-3023-CA	Emergency	Drought	Drought	no Public Assistance recorded		
1970-09-29	1970-09-29	DR-295-CA	Major disaster	Forest & Brush Fires	Wildfire	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1969-01-26	1969-01-26	DR-253-CA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1967-01-02	1967-01-02	DR-223-CA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		

School districts and special districts in this county: \$1,875,341.64 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan participants in this county. They have no row of their own in the jurisdiction table, so their total is listed here. These dollars are already included in the county PA column of the declarations table (the FEMA record places each applicant in this county), so this line is not added to it.

County Public Assistance: applicants the FEMA record places in this county, including any state agencies FEMA files there; statewide rows are listed on the state page; federal share obligated, nominal dollars.

Statewide declarations

Source: 2

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

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

5 Fire Management declarations (1977-08-07 to 1988-09-13) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0	0	0	0	2	0	1996 to 2026-06-30	No Storm Events records of this type; 2 federal declared incidents (see declarations table)
Cold Wave	40	28	7	28	3	0	1996 to 2026-06-30	Includes 40 Frost/Freeze records.
Drought	29	24	2	19	1	0	1996 to 2026-06-30	

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Earthquake	0	0	0	0	1	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	41	2	0	2	0	0	1955 to 2026-06-30	
Heat Wave	70	54	10	34	0	0	1996 to 2026-06-30	
Hurricane	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)
Ice Storm	1	0	1	0	1	1	1996 to 2026-06-30	
Inland Flooding	459	183	2	183	13	2	1996 to 2026-06-30	
Landslide	51	12	1	12	10	2	1996 to 2026-06-30	
Lightning	41	1	0	1	0	0	1996 to 2026-06-30	
Strong Wind	380	207	58	191	2	1	1955 to 2026-06-30	Includes 297 High Wind and 26 Strong Wind records.
Tornado	16	0	0	0	1	0	1950 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	34	0	7	0	17	2	1996 to 2026-06-30	
Winter Weather	73	55	5	55	7	1	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2024-07-02	Excessive Heat		\$0 property; \$0 crops (zone total, 2024 dollars)	0, 0	NWS zone CAZ308 (WEST SIDE MOUNTAINS SOUTH OF HIGHWAY 198), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2023-06-05	Hail	1.75 in	\$0 property; \$0 crops (2023 dollars)	0, 0	CABLE	new since last plan; within last 5 years	B1-c worst recorded: Hail
2022-04-11	High Wind	96 kt (110 mph) measured gust	\$0 property; \$0 crops (zone total, 2022 dollars)	0, 0	NWS zone CAZ338 (MOJAVE DESERT SLOPE(S)), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2021-03-01	Drought		\$0 property; \$0 crops (zone total, 2021 dollars)	0, 0	NWS zone CAZ194 (SEQUOIA KINGS), zone-level	in the 12 months before plan approval	B1-c worst recorded: Drought
2020-09-01	Wildfire		damage not reported	0, 15	NWS zone CAZ194 (SEQUOIA KINGS), zone-level	in the 12 months before plan approval	deaths or injuries recorded
2020-08-15	Wildfire		property not reported; \$0 crops (zone total, 2020 dollars)	1, 0	NWS zone CAZ179 (WEST SIDE HILLS), zone-level	in the 12 months before plan approval	deaths or injuries recorded
2019-12-26	Debris Flow		\$100,000 property; \$0 crops (2019 dollars)	0, 0	REEFER CITY		B1-c worst recorded: Debris Flow
2015-07-18	Lightning		\$0 property; \$0 crops (2015 dollars)	1, 0	GREENFIELD		deaths or injuries recorded
2011-01-02	Flood		\$12,700,000 property; \$0 crops (2011 dollars)	0, 0	BAKERSFIELD to WIBLE ORCHARD		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2007-09-03	Thunderstorm Wind	72 kt (83 mph) measured gust	\$0 property; \$0 crops (2007 dollars)	0, 0	MOJAVE		B1-c worst recorded: Thunderstorm Wind
2002-07-21	Wildfire		\$3,780,000 property; crops not reported (2002 dollars)	0, 0	BODFISH		B1-c worst recorded: Wildfire
1991-03-17	Tornado	F1, 0.1 mi path length (whole path, pre-1996), 40 yd wide	\$250,000 property; crops not recorded (1991 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,235 rows).

Location is the place NOAA recorded, as written in its data; it need not be a jurisdiction in this plan.

Local data needed: state-declared emergencies, from your state emergency management agency (federal data do not include them).

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

Supports FEMA checklist item B1-e: probability of future events

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1994 to 2023 (30 years)	see B1-f	0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events.
Coastal Flooding		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Cold Wave	0.000137	event-days per year	about 0.000137 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	0.00259	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events cold wave record, 1996 to 2025.
Drought	96.7	event-days per year	about 96.7 days per year	Likely	Storm Events event-days in 5 of 30 years, 1996 to 2025 (16.7%)	3,857	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.0816	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 8.16%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.0953	events per year	about 1 in 10 years	Possible	FEMA annualized frequency (modeled)	3.6 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	7.49	event-days per year	about 7.49 days per year	Likely	Storm Events event-days in 7 of 30 years, 1996 to 2025 (23.3%)	72.6	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane		events per year					1851 to 2024 (Atlantic); 1949 to 2024 (Pacific)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Ice Storm		event-days per year		Possible			1946-12-31 to 2014-02-12 (67 years)	countywide	Not Applicable in NRI for this county; the descriptor comes from Storm Events, not NRI: event-days in 1 of 30 years, 1996 to 2025.

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	5.64	event-days per year	about 5.64 days per year	Highly likely	Storm Events event-days in 29 of 30 years, 1996 to 2025 (96.7%)	158	1996 to 2023 (28 years)	see B1-f	
Landslide	129	events per year (modeled)	about 129 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	8.04	days per year with a strike	about 8.04 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.0593	events per year	about 1 in 17 years	Possible	FEMA annualized frequency (modeled)	3	1986 to 2023 (38 years)	countywide	
Tornado	0.37	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Volcanic Activity	0.0002	annual probability	about 1 in 5,000 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.00554	annual probability at a location	chance a given location in the county burns in a year: 0.554%	Likely	Storm Events records in 8 of 30 years, 1996 to 2025 (26.7%)	not shown	modeled	see B1-f	
Winter Weather	5.43	event-days per year	about 5.43 days per year	Likely	Storm Events event-days in 7 of 30 years, 1996 to 2025 (23.3%)	103	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) is the National Risk Index v1.20 (December 2025) estimate of how often a hazard affects this county in a year; it is not recorded events divided by years, and its unit differs by hazard (events, event-days, or days with a lightning strike per year). For earthquake, wildfire, coastal flooding and tsunami the value is the chance (or number of events) at a location in the county, not across the county, so no "1 in N years" is given and the descriptor comes from Storm Events where it has a record (none for earthquake). The Methods page gives each hazard's method, from FEMA's National Risk Index Technical Documentation v1.20.

Where NRI gives event-days, the descriptor comes from the share of years with a Storm Events record; NRI's source records more events, so the two differ.

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	16	30	0.533
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	29	30	0.967
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	5	30	0.167
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	19	30	0.633
Tornado	EF0-1	1996 to 2025	10	30	0.333
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Avalanche	19 of 236	28.9	32.6	35.9	Very Low 19, Not Applicable 217
Coastal Flooding	0 of 236				Not Applicable 236
Cold Wave	3 of 236	15.5	16.3	20.3	Relatively Low 1, Very Low 2, No Rating 233
Drought	128 of 236	66.8	74.9	99.1	Relatively High 4, Relatively Moderate 7, Relatively Low 37, Very Low 80, No Rating 108
Earthquake	236 of 236	6.8	87.3	99.9	Very High 12, Relatively High 84, Relatively Moderate 134, Relatively Low 5, Very Low 1
Hail	236 of 236	2.4	17.4	92.3	Relatively High 1, Relatively Moderate 3, Relatively Low 10, Very Low 222
Heat Wave	236 of 236	40.5	89.4	100.0	Very High 5, Relatively High 172, Relatively Moderate 57, Relatively Low 2
Hurricane	0 of 236				Not Applicable 236
Ice Storm	0 of 236				Not Applicable 236
Inland Flooding	236 of 236	0.3	41.2	99.9	Very High 12, Relatively High 27, Relatively Moderate 60, Relatively Low 92, Very Low 45
Landslide	73 of 236	8.9	40.8	99.8	Relatively High 6, Relatively Moderate 8, Relatively Low 7, Very Low 52, No Rating 163
Lightning	236 of 236	3.2	20.7	47.0	Relatively Low 128, Very Low 108
Strong Wind	236 of 236	2.7	12.6	40.7	Relatively Low 21, Very Low 215
Tornado	236 of 236	0.3	2.1	20.1	Very Low 236
Volcanic Activity	20 of 236	40.8	70.5	77.6	Very Low 20, No Rating 216
Wildfire	148 of 236	18.6	75.2	99.9	Very High 13, Relatively High 10, Relatively Moderate 17, Relatively Low 51, Very Low 57, No Rating 88
Winter Weather	51 of 236	10.7	32.8	92.2	Relatively High 14, Relatively Moderate 5, Relatively Low 29, Very Low 3, No Rating 185

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

Hail: Agriculture is 69% of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

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

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

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

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Kern County	County	Expired on 2026-04-08	FMA RL 0, SRL 0; any 2	\$8,019,720.62	0 total; 0 since its plan	Includes \$12,468.27 for declarations not counted as hazard incidents (EM-3248-CA).
Arvin city	City	Expired on 2026-04-08	FMA RL 0, SRL 0; any 0	\$66,659.73	6 total; 2 since its plan	
Bakersfield city	City	Expired on 2026-04-08	FMA RL 0, SRL 0; any 1	\$1,773,327.69	35 total; 1 since its plan	
California City city	City	Expired on 2026-04-08	FMA RL 0, SRL 0; any 0	\$375,355.15	0 total; 0 since its plan	Includes \$30,041.91 for declarations not counted as hazard incidents (DR-4482-CA).
Delano city	City	Expired on 2026-04-08	FMA RL 0, SRL 0; any 0	\$43,964.36	7 total; 3 since its plan	
Maricopa city	City	Expired on 2026-04-08	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	7 total; 0 since its plan	
McFarland city	City	Expired on 2026-04-08	FMA RL 0, SRL 0; any 0	\$129,084.39	1 total; 0 since its plan	
Ridgecrest city	City	Expired on 2026-04-08	FMA RL 0, SRL 0; any 0	\$345,415.55	15 total; 2 since its plan	
Shafter city	City	Expired on 2026-04-08	FMA RL 0, SRL 0; any 0	\$61,469.20	0 total; 0 since its plan	
Taft city	City	Expired on 2026-04-08	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	8 total; 0 since its plan	
Tehachapi city	City	Expired on 2026-04-08	FMA RL 0, SRL 0; any 0	\$77,018.71	22 total; 2 since its plan	
Wasco city	City	Expired on 2026-04-08	FMA RL 0, SRL 0; any 0	\$97,774.41	3 total; 0 since its plan	

Repetitive-loss counts are for whole NFIP communities, which can extend beyond this county (see the note in B2-c).

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

County Public Assistance in B1-d also includes applicants filed under the county that are not jurisdictions in this plan (for example state agencies, special districts and nonprofits), so the jurisdiction rows add up to less.

Supports FEMA checklist items B2-a and B2-b: vulnerability and potential impacts

Local data needed

The table below gives county-level starting figures; the plan describes impacts for each jurisdiction and its own assets.

- Critical facilities and lifelines per hazard

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2021-04-09 <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	\$14,034,672	n/a	under 1	\$15	n/a	\$321	0.000105%				
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$43,054,909	\$0	191	\$20	\$0	\$4,835	under 0.0001%		\$0		
Drought	n/a	\$4,168,612,065	n/a	n/a	\$1,992,269	n/a	0.0478% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$291,461,956,143	n/a	909,235	\$139,491,856	n/a	\$44,526,877	0.0479%				
Hail	\$164,722,667,864	\$5,249,207,546	908,530	\$5,145	\$285,456	\$123,636	under 0.0001%	\$0			
Heat Wave	\$164,722,667,864	\$5,249,207,546	908,530	\$26,877	\$7,626,194	\$34,892,603	under 0.0001%		\$0		
Hurricane										\$800,961.23	Not Applicable in NRI for this county
Ice Storm										\$7,878,608.77	Not Applicable in NRI for this county

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2021-04-09 <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
Inland Flooding	\$164,716,228,241	\$1,428,327,511	47,084	\$142,035,075	\$4,945,716	\$234,491	n/a (see note)	\$6,000		\$8,679,570	NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$2,083,446,177	n/a	7,455	\$8,714	n/a	\$748,921	0.000418%	\$0		\$8,679,570	
Lightning	\$164,722,667,864	n/a	908,530	\$26,605	n/a	\$733,929	under 0.0001%	\$0			
Strong Wind	\$164,722,667,864	\$5,249,207,546	908,530	\$141,825	\$12,528	\$244,723	under 0.0001%	\$7,000	\$209,000	\$7,878,608.77	Storm Events damage since the plan includes 3 zone-level High Wind records (\$36,000) and 12 zone-level Strong Wind records (\$173,000): NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition.
Tornado	\$164,722,667,864	\$5,249,207,546	908,530	\$132,791	\$2,218	\$50,543	under 0.0001%				
Volcanic Activity	\$164,722,667,864	n/a	908,530	under \$1	n/a	\$25	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2021-04-09 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Wildfire	\$10,591,461,006	\$1,647,510,592	73,891	\$36,748,316	\$22,662	\$1,712,060	0.347%			no Public Assistance recorded (2 declarations)	
Winter Weather	\$37,374,519,672	\$2,293,624,688	167,970	\$1,750	under \$1	\$188,448	under 0.0001%		\$0	\$7,878,608.77	

Totals since 2021-04-09 (Storm Events through 2026-06-30): 203 county-coded records, 203 with a damage value recorded (including \$0), \$13,000; 363 zone-level records, 357 with a damage value recorded (including \$0), \$209,000 reported for the zone; Public Assistance: \$8,679,570 on 5 counted declarations, 2 of them with Public Assistance.

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

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

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

County context

Source: 5

Measure	Value
Population	908,530
Building value (total, not at risk)	\$164,722,667,864
Agriculture value (total, not at risk)	\$5,249,207,546
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$333,506,032
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)	\$83,461,412
Social vulnerability rating	Relatively High
Community resilience rating	Very Low
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	3	Severe repetitive loss, NFIP insurance definition	0

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	0	0	3	0	3	0	0
of which: Kern County (unincorporated area)	0	0	2	0	2	0	0
of which: Bakersfield city	0	0	1	0	1	0	0
Statewide, no county in FEMA's file	0	1	3	0	4	1	0

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

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

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Kern County	060075	0	0	2	0	2	0	0
Arvin city	060076	0	0	0	0	0	0	0
Bakersfield city	060077	0	0	1	0	1	0	0
California City city	060440	0	0	0	0	0	0	0
Delano city	060078	0	0	0	0	0	0	0
Maricopa city	060079	0	0	0	0	0	0	0
McFarland city	060080	0	0	0	0	0	0	0
Ridgecrest city	060081	0	0	0	0	0	0	0
Shafter city	060082	0	0	0	0	0	0	0
Taft city	065063	0	0	0	0	0	0	0
Tehachapi city	060084	0	0	0	0	0	0	0
Wasco city	060085	0	0	0	0	0	0	0

Counts by occupancy group for each jurisdiction are in the Excel file, sheet "B2-c Jurisdictions".

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

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	0	0	3	0	3	0	0
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	0	0	0	0	0	0
not reported	0	0	0	0	0	0	0

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

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

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

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 3 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

Tables cite these sources by number. The full list, for the plan's bibliography (FEMA review item A4-a):

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
 2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
 3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
 4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
 5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
 6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
 7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
 8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)
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What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment (the summary on page 1 says how it is organized); the plan and FEMA's review decide whether each item is met.

The plan adds what only the community has: local data on assets, critical facilities, development and each jurisdiction's impacts; local hazard history, including state-declared emergencies; the mitigation strategy; and adoption.

How the federal data are built: National Risk Index values are FEMA's model, not counts of events. Storm Events is more complete from 1996; zone-level records are placed by forecast zone, not by location in the county. Public Assistance for a jurisdiction is matched by applicant name. The Methods page gives every rule and the known edge cases.

OpenFEMA disclaimer

This product uses the Federal Emergency Management Agency's OpenFEMA API, but is not endorsed by FEMA. The Federal Government or FEMA cannot vouch for the data or analyses derived from these data after the data have been retrieved from the Agency's website(s).

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Cite this: Hazard Plain (2026). Kern County, CA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 06029). Automated baseline. <https://hazardplain.org/ca/06029/> Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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