

Riverside County, CA

Risk-assessment baseline packet

Unit **County area 06065** 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 2028-04-17	Plan	Riverside County (FEMA plan 109847)
Approved	2023-04-18	Expires	2028-04-17
As of	2026-09-28	Days	567 days to expiry

What changed since your last plan (approved 2023-04-18)

New federal declarations	DR-4750-CA, FM-5515-CA, FM-5538-CA, FM-5636-CA (4 declaration rows; 4 counted incidents)	Storm Events records since approval	183 (data through 2026-06-30)
Repetitive loss now	FMA RL 2, SRL 4 (44 CFR 77.2); any definition: 69	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: 40 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
Riverside County	County	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		
Banning city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-08-08
Beaumont city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-01-19
Blythe city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2025-01-07
Calimesa city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-04-10
Cathedral City city	City	Approved, expires 2030-10-06	Cathedral City (FEMA plan 111095)	2025-10-07	2030-10-06	1,469		
Coachella city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-03-15
Corona city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-10-07
Desert Hot Springs city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-10-07
Eastvale city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2023-11-22
Indian Wells city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-03-04
Indio city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-10-08
Jurupa Valley city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2023-11-22
La Quinta city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-08-01
Lake Elsinore city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-06-14
Menifee city	City	Approved, expires 2028-03-23	Menifee, City of (FEMA plan 108213)	2023-03-24	2028-03-23	542		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Moreno Valley city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2023-08-02
Murrieta city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-10-10
Norco city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-04-08
Palm Desert city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-07-08
Palm Springs city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-04-30
Perris city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-05-07
Rancho Mirage city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-09-23
Riverside city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2025-04-07
Temecula city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2023-08-02
Wildomar city	City	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2023-01-19
Beaumont Unified School District	School/School District	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2023-09-07
Hemet Unified School District	School/School District	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-04-18
San Jacinto Unified School District	School/School District	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-10-31
Coachella Valley Water District	Water/Sewer Authority	Approved, expires 2029-04-09	Coachella Valley Water District (FEMA plan 109610)	2024-04-10	2029-04-09	924		
Eastern Municipal Water District	Water/Sewer Authority	Approved, expires 2029-11-12	Eastern Municipal Water District (FEMA plan 109662)	2024-11-13	2029-11-12	1,141		
Elsinore Valley Municipal Water District	Water/Sewer Authority	Approved, expires 2027-10-20	Elsinore Valley Municipal Water District (FEMA plan 108429)	2022-10-21	2027-10-20	387		
Idyllwild Fire Protection District	Fire/EMS District	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-11-13
Imperial Irrigation District	Water/Sewer Authority	Approved, expires 2030-10-07	Imperial Irrigation District (FEMA plan 111027)	2025-10-08	2030-10-07	1,470		
Joshua Basin Water District	Water/Sewer Authority	Approved, expires 2029-09-09	Joshua Basin Water District (FEMA plan 110064)	2024-09-10	2029-09-09	1,077		
Jurupa Community Services District	Community Services District	Expired on 2026-04-28	Jurupa Community Services District (FEMA plan 107043)	2021-04-29	2026-04-28	-153		
Mission Springs Water District	Water/Sewer Authority	Approved, expires 2027-05-19	Mission Springs Water District (FEMA plan 108103)	2022-05-20	2027-05-19	233		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Rancho California Water District	Water/Sewer Authority	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2023-11-22
Rubidoux Community Services District	Special District	Approved, expires 2031-06-02	Rubidoux Community Service District (FEMA plan 111803)	2026-06-03	2031-06-02	1,708		
Western Municipal Water District	Water/Sewer Authority	Approved, expires 2028-04-17	Riverside County (FEMA plan 109847)	2023-04-18	2028-04-17	567		member approved 2024-04-12

Plan 109847 also covers 2 other participants not listed on this page: Morongo Band of Mission Indians, California; Twenty-Nine Palms Band of Mission Indians of California.

SOURCE

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

Supports B1-a: hazards

Hazards NRI does not cover: check locally

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

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

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <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
1	Inland Flooding	Very High	Very High	\$1,118,828,946	\$419,791	\$7,754,924	\$1,127,003,661	430		
2	Earthquake	Very High	Very High	\$582,072,226		\$181,712,324	\$763,784,550			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
3	Wildfire	Very High	Very High	\$327,560,330	\$28,066	\$19,054,409	\$346,642,805	220		
4	Heat Wave	Relatively High	Relatively High	\$23,141	\$527,804	\$17,841,678	\$18,392,623	159		
5	Tornado	Relatively Moderate	Relatively Moderate	\$4,435,036	\$2,300	\$1,416,856	\$5,854,192	20		
6	Landslide	Relatively High	Relatively Moderate	\$1,062,136		\$15,188	\$1,077,324	35		
7	Hail	Relatively Moderate	Relatively Moderate	\$949,696	\$6,151	\$33,863	\$989,710	22		
8	Lightning	Relatively Moderate	Relatively Moderate	\$14,180		\$782,857	\$797,037	35		

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	EAL population equivalence statistical value of life and injury, \$13.7M per life, not property damage	EAL total (see note) modeled dollars per year	Storm Events records since 1996 count	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
9	Strong Wind	Relatively Moderate	Relatively Moderate	\$316,978	\$10,420	\$286,557	\$613,956	612		Includes 405 High Wind records and 63 Strong Wind records, event types the NRI definition of this hazard leaves out.
10	Drought	Relatively Low	Relatively Low		\$220,571		\$220,571	26		
11	Cold Wave	Very Low	Relatively Low	\$638	\$67,121	\$71,095	\$138,854	16		Includes 7 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
12	Winter Weather	Relatively Moderate	Relatively Moderate	\$1,311	under \$1	\$117,652	\$118,964	99		
13	Hurricane	Very Low	Very Low	\$966	\$1,706	\$0	\$2,672	1		
14	Avalanche	Very Low	Very Low	\$19		\$633	\$652	1		
15	Volcanic Activity	Very Low	Very Low	under \$1		\$72	\$72	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Coastal Flooding	Not Applicable	Not Applicable					0		Declared 2 times; no Storm Events record of this type.
	Ice Storm	Not Applicable	Not Applicable					0	NRI rates ice storm 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).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami 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.	23 of 518
Coastal Flooding	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 518
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	17 of 518
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	170 of 518
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.	518 of 518
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	518 of 518
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	518 of 518
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.	518 of 518
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 518
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.	518 of 518
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.	412 of 518
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	518 of 518
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	518 of 518
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.	518 of 518
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.	0 of 518
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.	87 of 518
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.	434 of 518
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	510 of 518

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)	1, 2023 to 2023 (1 zone-level)		No damage reported in 1 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	9, 2002 to 2022 (9 zone-level)	1 day to 6 days (median 2 days); 5 with a recorded value	6 consecutive days, 2002-01-28 to 2002-02-02, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required. Cold/Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	7, 2004 to 2022 (7 zone-level)		Frost/Freeze, 2007-01-14, \$68,850,000 crop damage, reported for the zone (2007 dollars); NWS zone CAZ061 (COACHELLA VALLEY), 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	26, 2007 to 2009 (26 zone-level)	167 days to 365 days (median 245 days); 3 with a recorded value	365 days (12 months), 2009-01-01 to 2009-12-31, a run of 12 consecutive Storm Events drought records, zone-level	Drought, 2007-07-01, property not reported; \$2,000,000 crops, reported for the zone (2007 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	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)	31, 1960 to 2025	0.5 in to 2.75 in (median 0.88 in); 30 with a recorded value	2.75 in hail, 1960-09-02	Hail, 2024-09-08, \$20,000 property; \$0 crops (2024 dollars)	Event records naming member places: Murrieta city (3 records), Indio city (2 records), Beaumont city (1 record), Calimesa city (1 record), Corona city (1 record), La Quinta city (1 record), Menifee city (1 record), Palm Desert city (1 record), Wildomar city (1 record).	
Excessive Heat, Heat	heat index (narratives)	159, 1997 to 2025 (159 zone-level)	1 day to 13 days (median 3 days); 89 with a recorded value	13 consecutive days, 2024-06-30 to 2024-07-12, zone-level	Excessive Heat, 2019-08-04, \$500,000 property; \$0 crops, reported for the zone (2019 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required. Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.

Hazard	Scale	Records <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	1, 2023 to 2023 (1 zone- level)		Strongest recorded (records with damage, a wind speed or direct casualties first, then storm type, category and wind): Tropical Storm record, 2023-08-20 to 2023-08-21, \$0 property; \$0 crops, reported for the zone (2023 dollars); NWS zone CAZ057 (SANTA ANA MOUNTAINS AND FOOTHILLS), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	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)	430, 1997 to 2025 (2 zone- level)		Flash Flood, 2019-02-14, \$70,000,000 property; \$0 crops (2019 dollars)		Event records naming member places: Palm Springs city (19 records), Cathedral City city (13 records), Temecula city (11 records), Perris city (10 records), Indio city (9 records), Moreno Valley city (9 records), Banning city (8 records), Coachella city (8 records), Palm Desert city (8 records), Calimesa city (7 records); and 13 more member places (see the XLSX file). Zone-level records (2) apply countywide.	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)	35, 2003 to 2025 (8 zone- level)		Debris Flow, 2005-02-20, \$300,000 property; crops not reported, reported for the zone (2005 dollars), 1 direct death (reported for the zone); NWS zone CAZ057 (NE ORANGE), zone-level: may include parts of neighboring counties		Event records naming member places: Corona city (2 records), Murrieta city (2 records), Palm Desert city (2 records), Desert Hot Springs city (1 record), Indio city (1 record), La Quinta city (1 record). Zone-level records (8) apply countywide.	Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	35, 1996 to 2024		Lightning, 2003-07-30, damage not reported, 1 direct death	Lightning, 2009-06-03, \$105,000 property; \$0 crops (2009 dollars)	Event records naming member places: Cathedral City city (3 records), Desert Hot Springs city (3 records), Banning city (2 records), Moreno Valley city (2 records), Palm Desert city (2 records), Palm Springs city (2 records), Corona city (1 record), Indio city (1 record), Murrieta city (1 record), Norco city (1 record); and 4 more member places (see the XLSX file).	Storm Events lists lightning with damage or casualties; 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
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	468, 1996 to 2026 (466 zone-level)	24 kt (28 mph) to 104 kt (120 mph) (median 58 kt (67 mph)); 466 with a recorded value	104 kt (120 mph), measurement type not recorded, High Wind, 1999-12-03; NWS zone CAZ057 (SANTA ANA MOUNTAINS AND FOOTHILLS), zone-level: may include parts of neighboring counties	High Wind, 2007-10-21, \$35,000,000 property; \$0 crops, reported for the zone (2007 dollars)	Event records naming member places: Moreno Valley city (1 record). Zone-level records (466) apply countywide.	
Thunderstorm Wind	wind speed (kt and mph)	169, 1973 to 2026	26 kt (30 mph) to 88 kt (101 mph) (median 52 kt (60 mph)); 156 with a recorded value	88 kt (101 mph), measurement type not recorded, Thunderstorm Wind, 1973-08-03	Thunderstorm Wind, 2019-07-23, \$8,000,000 property; \$0 crops (2019 dollars)	Event records naming member places: Blythe city (13 records), Perris city (11 records), La Quinta city (5 records), Lake Elsinore city (4 records), Murrieta city (4 records), Banning city (3 records), Desert Hot Springs city (3 records), Menifee city (3 records), Palm Desert city (3 records), Palm Springs city (3 records); and 9 more member places (see the XLSX file).	
Tornado	Enhanced Fujita (F before Feb 2007)	27, 1955 to 2022	F/EF0 to F/EF3 (median F/EF0); 25 with a recorded value	F3 tornado, 1973-08-16, 33 yd wide, \$25,000 property; crops not recorded (1973 dollars)	Tornado, 2015-08-06, \$18,000,000 property; \$0 crops (2015 dollars)	Event records naming member places: Lake Elsinore city (2 records), Perris city (2 records), Menifee city (1 record), Temecula city (1 record).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Wildfire	acres burned (local data)	220, 1996 to 2025 (124 zone-level)		Wildfire, 2024-09-09, \$50,000,000 property; \$0 crops, reported for the zone (2024 dollars), 22 direct injuries (reported for the zone); NWS zone CAZ057 (SANTA ANA MOUNTAINS AND FOOTHILLS), zone-level: may include parts of neighboring counties		Event records naming member places: Corona city (9 records), Moreno Valley city (8 records), Norco city (7 records), Banning city (6 records), Temecula city (6 records), Lake Elsinore city (5 records), Riverside city (4 records), Beaumont city (3 records), Calimesa city (3 records), Perris city (3 records); and 5 more member places (see the XLSX file). Zone-level records (124) 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)	99, 1996 to 2024 (99 zone- level)		Winter Storm, 2023-03-01, \$400,000 property; \$0 crops, reported for the zone (2023 dollars); NWS zone CAZ056 (RIVERSIDE COUNTY MOUNTAINS), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

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

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

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

SOURCES

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

Supports B1-d: previous occurrences

Declaration rows66Counted incidents59

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
2026-05-20	2026-05-19	FM-5636-CA	Fire management	BAIN FIRE	Wildfire	none found	new since last plan; within last 5 years	
2024-09-11	2024-09-11	FM-5538-CA	Fire management	AIRPORT FIRE	Wildfire	none found	new since last plan; within last 5 years	
2024-07-21	2024-07-21	FM-5515-CA	Fire management	HAWARDEN FIRE	Wildfire	none found	new since last plan; within last 5 years	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2023-11-21	2023-08-19	DR-4750-CA	Major disaster	TROPICAL STORM HILARY	Hurricane (primary); also designated: Inland Flooding, Landslide	\$18,380,081.77	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	during plan review, check whether your last plan included it; within last 5 years	
2022-09-06	2022-09-05	FM-5451-CA	Fire management	FAIRVIEW FIRE	Wildfire	none found	during plan review, check whether your last plan included it; within last 5 years	
2020-10-26	2020-10-26	FM-5381-CA	Fire management	BLUE RIDGE FIRE	Wildfire	none found		
2020-08-02	2020-08-02	FM-5325-CA	Fire management	APPLE FIRE	Wildfire	none found		
2020-03-22	2020-01-20	DR-4482-CA	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$90,748,254.22		
2020-03-13	2020-01-20	EM-3428-CA	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4482
2019-10-31	2019-10-31	FM-5300-CA	Fire management	46 FIRE	Wildfire	none found		
2019-10-30	2019-10-30	FM-5299-CA	Fire management	HILL FIRE	Wildfire	none found		
2019-05-01	2019-02-13	DR-4431-CA	Major disaster	SEVERE WINTER STORMS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding; Landslide; Winter Weather	\$26,773,966.58		
2018-08-09	2018-08-09	FM-5268-CA	Fire management	HOLY FIRE	Wildfire	none found		
2018-07-25	2018-07-25	FM-5260-CA	Fire management	CRANSTON FIRE	Wildfire	none found		
2017-12-08	2017-12-04	EM-3396-CA	Emergency	WILDFIRES	Wildfire	none found		
2017-10-09	2017-10-09	FM-5223-CA	Fire management	CANYON 2 FIRE	Wildfire	none found		
2017-09-26	2017-09-25	FM-5213-CA	Fire management	CANYON FIRE	Wildfire	none found		
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	\$3,232,766.70		
2013-08-08	2013-08-07	FM-5041-CA	Fire management	SILVER FIRE	Wildfire	none found		
2013-08-06	2013-08-05	FM-5040-CA	Fire management	FALLS FIRE	Wildfire	none found		
2013-05-01	2013-05-01	FM-5023-CA	Fire management	SUMMIT FIRE	Wildfire	none found		
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	\$4,155,412.20		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2010-03-08	2010-01-17	DR-1884-CA	Major disaster	SEVERE WINTER STORMS, FLOODING, AND DEBRIS AND MUD FLOWS	Inland Flooding; Winter Weather	\$1,611,790.43		
2008-11-18	2008-11-13	DR-1810-CA	Major disaster	WILDFIRES	Wildfire	\$75,746.67		
2008-11-15	2008-11-15	FM-2792-CA	Fire management	FREEWAY FIRE COMPLEX	Wildfire	none found		same incident as DR-1810
2007-10-24	2007-10-21	DR-1731-CA	Major disaster	WILDFIRES, FLOODING, MUD FLOWS, AND DEBRIS FLOWS	Wildfire	\$377,332.54		
2007-10-23	2007-10-21	EM-3279-CA	Emergency	WILDFIRES	Wildfire	none found		same incident as DR-1731
2007-03-13	2007-01-11	DR-1689-CA	Major disaster	SEVERE FREEZE	Cold Wave	PA not declared for this county		
2006-10-26	2006-10-26	FM-2678-CA	Fire management	ESPERANZA FIRE	Wildfire	none found		
2006-09-17	2006-09-16	FM-2676-CA	Fire management	ORCHARD FIRE	Wildfire	none found		
2006-02-06	2006-02-06	FM-2630-CA	Fire management	SIERRA FIRE	Wildfire	none found		
2005-10-06	2005-10-05	FM-2584-CA	Fire management	WOODHOUSE FIRE	Wildfire	none found		
2005-09-13	2005-08-29	EM-3248-CA	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	\$233,086.19		
2005-04-14	2005-02-16	DR-1585-CA	Major disaster	SEVERE STORMS, FLOODING, LANDSLIDES, AND MUD AND DEBRIS FLOWS	Inland Flooding; Landslide	\$2,317,800.43		
2005-02-04	2004-12-27	DR-1577-CA	Major disaster	SEVERE STORMS, FLOODING, DEBRIS FLOWS, AND MUDSLIDES	Inland Flooding; Landslide	\$17,631,745.23		
2004-07-18	2004-07-17	FM-2533-CA	Fire management	CA-MELTON WILDFIRE-07-18-2004	Wildfire	none found		
2004-07-14	2004-07-13	FM-2530-CA	Fire management	CA-LAKEVIEW-07-14-2004	Wildfire	none found		
2004-05-04	2004-05-03	FM-2517-CA	Fire management	CA-CERRITOS FIRE-5-04-2004	Wildfire	none found		
2004-05-04	2004-05-02	FM-2516-CA	Fire management	CA-EAGLE FIRE-05-04-2004	Wildfire	none found		
2004-04-26	2004-04-25	FM-2515-CA	Fire management	CA - PLEASURE FIRE - 04-25-2004	Wildfire	none found		
2003-10-27	2003-10-21	DR-1498-CA	Major disaster	WILDFIRES, FLOODING, MUDFLOW AND DEBRIS FLOW DIRECTLY RELATED T	Wildfire	\$197,163.63		
2003-10-26	2003-10-26	FM-2507-CA	Fire management	CA-MOUNTAIN FIRE-10-26-2003	Wildfire	none found		same incident as DR-1498

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Flags	Notes
						federal share obligated, nominal dollars			
2003-10-21	2003-10-21	FM-2500-CA	Fire management	PASS FIRE	Wildfire		none found		same incident as DR-1498
2003-08-19	2003-08-18	FM-2491-CA	Fire management	CA-LOCUST WILDFIRE-08-19-2003	Wildfire		none found		
2003-07-25	2003-07-25	FM-2487-CA	Fire management	CANYON FIRE	Wildfire		none found		
2003-07-03	2003-07-03	FM-2475-CA	Fire management	CA-RAILROAD FIRE-07-03-2003	Wildfire		none found		
1998-02-09	1998-02-02	DR-1203-CA	Major disaster	SEVERE WINTER STORMS AND FLOODING	Inland Flooding; Winter Weather		none found		
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		
1993-10-28	1993-10-26	DR-1005-CA	Major disaster	FIRES, MUD/LANDSLIDES, FLOODING, SOIL EROSION	Wildfire (primary); also designated: Inland Flooding, Landslide		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		
1992-07-02	1992-06-28	DR-947-CA	Major disaster	EARTHQUAKE & AFTERSHOCKS	Earthquake		none found		
1991-02-11	1990-12-19	DR-894-CA	Major disaster	SEVERE FREEZE	Cold Wave	PA not declared for this county			
1990-06-30	1990-06-26	DR-872-CA	Major disaster	FIRES	Wildfire	PA not declared for this county			
1983-09-22	1983-08-15	DR-690-CA	Major disaster	FLASH FLOODING	Inland Flooding		none found		
1983-07-01	1983-06-16	DR-687-CA	Major disaster	FLOODING	Inland Flooding		none found		
1983-02-09	1983-01-21	DR-677-CA	Major disaster	COASTAL STORMS, FLOODS, SLIDES & TORNADOES	Coastal Flooding; Inland Flooding; Landslide; Tornado		none found		
1980-11-27	1980-11-27	DR-635-CA	Major disaster	BRUSH & TIMBER FIRES	Wildfire		none found		
1980-02-21	1980-01-08	DR-615-CA	Major disaster	SEVERE STORMS, MUDSLIDES & FLOODING	Inland Flooding (primary); also designated: Landslide		none found		
1979-07-27	1979-07-27	DR-594-CA	Major disaster	HEAVY RAINS, FLASH FLOODS & MUD FLOWS	Inland Flooding (primary); also designated: Landslide		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		
1976-09-21	1976-09-21	DR-521-CA	Major disaster	FLOODING, TROPICAL STORM KATHLEEN	Inland Flooding (primary); also designated: Hurricane		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		
1965-12-07	1965-12-07	DR-211-CA	Major disaster	HEAVY RAINS & FLOODING	Inland Flooding		none found		

School districts and special districts in this county: \$17,582,519.81 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan members in this county. They are not shown as member blocks, so their total is listed here. These dollars are already included in the county PA column of the declarations table (the FEMA record places each applicant in this county); do not add this line to the county total.

County Public Assistance: applicants the FEMA record places in this county, including any state agencies FEMA files there; statewide rows are listed on the state page; federal share obligated, nominal dollars. Dollars are nominal (as reported), labeled with the year; not adjusted for inflation.

SOURCES

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

Statewide declarations

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
1964-04-01	1964-04-01	DR-169-CA	Major disaster	SEISMIC SEA WAVE	Tsunami		
1963-12-21	1963-12-21	DR-161-CA	Major disaster	FLOOD DUE TO BROKEN DAM	Other, not an NRI hazard; not counted		
1963-02-25	1963-02-25	DR-145-CA	Major disaster	SEVERE STORMS, HEAVY RAINS & FLOODING	Inland Flooding		
1962-10-24	1962-10-24	DR-138-CA	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding		
1962-03-06	1962-03-06	DR-122-CA	Major disaster	FLOODS	Inland Flooding		
1961-11-16	1961-11-16	DR-119-CA	Major disaster	FIRE (LOS ANGELES COUNTY)	Wildfire		
1958-04-04	1958-04-04	DR-82-CA	Major disaster	HEAVY RAINSTORMS & FLOOD	Inland Flooding		
1956-12-29	1956-12-29	DR-65-CA	Major disaster	FOREST FIRE	Wildfire		
1955-12-23	1955-12-23	DR-47-CA	Major disaster	FLOOD	Inland Flooding		
1954-02-05	1954-02-05	DR-15-CA	Major disaster	FLOOD & EROSION	Inland Flooding		

FEMA recorded these with designated area Statewide and no county. Listed on every county page in the state; not counted with county rows.

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

SOURCE

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

Public Assistance filed under this county for declarations that do not list it: 1 row, \$51,656.25

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-4699-CA	2023-04-03	SEVERE WINTER STORMS, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDES	Coachella Valley Unified School District	\$51,656.25

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	1	0	1	1	0	0	1996 to 2026-06-30	
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	16	0	0	4	2	0	1996 to 2026-06-30	Includes 7 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
Drought	26	0	0	0	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	1	0		No Storm Events record; local data required (e.g., USGS).
Hail	31	5	0	5	0	0	1955 to 2026-06-30	
Heat Wave	159	30	15	51	0	0	1996 to 2026-06-30	
Hurricane	1	1	0	1	2	1	1996 to 2026-06-30	
Ice Storm	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Inland Flooding	430	54	52	113	22	1	1996 to 2026-06-30	
Landslide	35	1	8	9	14	1	1996 to 2026-06-30	
Lightning	35	1	1	2	0	0	1996 to 2026-06-30	
Strong Wind	637	61	46	137	0	0	1955 to 2026-06-30	Includes 405 High Wind records and 63 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	27	0	2	2	1	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	220	21	2	25	34	3	1996 to 2026-06-30	
Winter Weather	99	9	11	22	9	0	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
2024-09-09	Wildfire		\$50,000,000 property; \$0 crops, reported for the zone (2024 dollars)	0, 22	NWS zone CAZ057 (SANTA ANA MOUNTAINS AND FOOTHILLS), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: Wildfire
2024-06-30	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2024 dollars)	0, 0	NWS zone CAZ569 (PALO VERDE VALLEY), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2019-02-14	Flash Flood		\$70,000,000 property; \$0 crops (2019 dollars)	0, 0	EL CERRITO to DURANT		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2007-09-01	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2007 dollars)	4, 2	NWS zone CAZ048 (SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS - THE INLAND EMPIRE), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2006-10-26	Wildfire		\$10,300,000 property; \$0 crops, reported for the zone (2006 dollars)	5, 0	NWS zone CAZ056 (RIVERSIDE COUNTY MOUNTAINS), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2005-02-20	Debris Flow		\$300,000 property; crops not reported, reported for the zone (2005 dollars)	1, 0	NWS zone CAZ057 (NE ORANGE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Debris Flow
2003-07-30	Lightning		damage not reported	1, 0	ROMOLAND		B1-c worst recorded: Lightning
2000-03-08	Flood		\$60,000 property; crops not reported (2000 dollars)	2, 4	ELSINORE		deaths or injuries recorded
1999-12-03	High Wind	104 kt (120 mph), measurement type not recorded	\$20,000 property; crops not reported, reported for the zone (1999 dollars)	0, 0	NWS zone CAZ057 (SANTA ANA MOUNTAINS AND FOOTHILLS), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
1973-08-16	Tornado	F3, 33 yd wide	\$25,000 property; crops not recorded (1973 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado
1973-08-03	Thunderstorm Wind	88 kt (101 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind
1960-09-02	Hail	2.75 in	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Hail

The full list is in the **XLSX** file, sheet "B1-d Storm Events history" (1,717 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		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Cold Wave	0.0125	event-days per year	about 0.0125 days per year	Likely	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	0.235	2005-11-12 to 2024-11-12 (19 years)	countywide	Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	57.4	event-days per year	about 57.4 days per year	Likely	event-days in 3 of 30 years, 1996 to 2025 (10%)	3,696	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 57.4 drought event-days a year here (its annualized frequency over 25.25 years; not its event count divided by the years), but Storm Events has a record in only 3 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.
Earthquake	0.118	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 11.8%			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	0.084	events per year	about 1 in 12 years	Possible	FEMA annualized frequency (modeled)	3.2 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	13.8	event-days per year	about 13.8 days per year	Likely	event-days in 20 of 30 years, 1996 to 2025 (66.7%)	115	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0142	events per year	about 1 in 70 years	Possible	FEMA annualized frequency (modeled)	3	1851 to 2024 (Atlantic); 1949 to 2024 (Pacific)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.

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
Ice Storm		event-days per year					1946-12-31 to 2014-02-12 (67 years)	countywide	Not Applicable in NRI for this county; no descriptor.
Inland Flooding	7.36	event-days per year	about 7.36 days per year	Highly likely	event-days in 29 of 30 years, 1996 to 2025 (96.7%)	206	1996 to 2023 (28 years)	see B1-f	
Landslide	21.8	events per year (modeled)	about 21.8 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	13.8	days per year with a strike	about 13.8 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.229	events per year	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	9	1986 to 2023 (38 years)	countywide	
Tornado	0.448	events per year	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity	0.0001	annual probability	about 1 in 10,000 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.0194	annual probability at a location	chance a given location in the county burns in a year: 1.94%	Highly likely	Storm Events records in 28 of 30 years, 1996 to 2025 (93.3%)	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	2.4	event-days per year	about 2.4 days per year	Highly likely	event-days in 29 of 30 years, 1996 to 2025 (96.7%)	45.2	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county,

which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

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

Descriptor scale used in this packet (defined per unit)

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

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
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	8	30	0.267
Hail	2.00 in+	1996 to 2025	0	30	0
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	98	30	3.27
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	12	30	0.4
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	33	30	1.1
Tornado	EF0-1	1996 to 2025	18	30	0.6
Tornado	EF2-3	1996 to 2025	1	30	0.0333
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	1	30	0.0333

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

SOURCE

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	23 of 518	35.5	41.8	46.9	Very Low 23, Not Applicable 495	
Coastal Flooding	0 of 518				Not Applicable 518	
Cold Wave	17 of 518	15.6	20.6	66.4	Relatively Moderate 1, Relatively Low 8, Very Low 8, No Rating 501	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	170 of 518	66.8	72.2	94.8	Relatively Moderate 2, Relatively Low 34, Very Low 134, No Rating 348	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	518 of 518	59.1	91.7	100.0	Very High 83, Relatively High 287, Relatively Moderate 143, Relatively Low 5	
Hail	518 of 518	3.7	27.8	63.4	Relatively Low 45, Very Low 473	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	518 of 518	1.7	46.4	88.5	Relatively High 1, Relatively Moderate 122, Relatively Low 389, Very Low 6	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	518 of 518	9.3	10.6	31.7	Very Low 518	
Ice Storm	0 of 518				Not Applicable 518	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	518 of 518	1.3	91.2	100.0	Very High 167, Relatively High 213, Relatively Moderate 98, Relatively Low 37, Very Low 3	
Landslide	412 of 518	8.6	42.8	100.0	Very High 1, Relatively High 1, Relatively Moderate 21, Relatively Low 61, Very Low 328, No Rating 106	
Lightning	518 of 518	0.2	9.7	28.9	Relatively Low 20, Very Low 498	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	518 of 518	0.7	10.2	25.2	Relatively Low 2, Very Low 516	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Tornado	518 of 518	2.4	22.5	55.1	Relatively Moderate 2, Relatively Low 81, Very Low 435	
Tsunami	0 of 518				Not Applicable 518	
Volcanic Activity	87 of 518	40.3	60.1	75.1	Very Low 87, No Rating 431	
Wildfire	434 of 518	18.6	92.2	100.0	Very High 69, Relatively High 91, Relatively Moderate 90, Relatively Low 106, Very Low 78, No Rating 84	
Winter Weather	510 of 518	10.7	18.7	70.4	Relatively Moderate 4, Relatively Low 276, Very Low 230, No Rating 8	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
Riverside County	County	Approved, expires 2028-04-17	FMA RL 2, SRL 1; any 19	\$76,615,623.13	0; 0	Includes \$67,938,877.97 for declarations not counted as hazard incidents (DR-4482-CA, EM-3248-CA).
Banning city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 0	\$770,469.45	19; 2	Includes \$74,178.89 for declarations not counted as hazard incidents (DR-4482-CA).
Beaumont city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 0	\$517,124.26	7; 0	Includes \$46,015.36 for declarations not counted as hazard incidents (DR-4482-CA).
Blythe city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 0	\$15,015.92	16; 0	Includes \$15,015.92 for declarations not counted as hazard incidents (DR-4482-CA).
Calimesa city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 0	\$277,791.46	12; 0	Includes \$35,011.87 for declarations not counted as hazard incidents (DR-4482-CA).
Cathedral City city	City	Approved, expires 2030-10-06	FMA RL 0, SRL 0; any 0	\$2,745,036.09	16; 0	Includes \$252,127.40 for declarations not counted as hazard incidents (DR-4482-CA).
Coachella city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 0	\$734,884.85	10; 4	
Corona city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 9	\$1,082,697.43	19; 0	
Desert Hot Springs city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 1	\$1,359,833.09	15; 0	Includes \$18,725.97 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>	
Eastvale city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 0	none found	0; 0	
Indian Wells city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 1	\$4,479,121.99	4; 0	
Indio city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 0	\$1,375,373.27	15; 1	Includes \$122,160 for declarations not counted as hazard incidents (DR-4482-CA).
Jurupa Valley city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 0	none found	0; 0	
La Quinta city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 2	\$410,454.21	12; 1	Includes \$60,650.78 for declarations not counted as hazard incidents (DR-4482-CA).
Lake Elsinore city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 2; any 8	\$563,119.63	18; 0	
Menifee city	City	Approved, expires 2028-03-23	FMA RL 0, SRL 0; any 0	\$335,120.02	7; 1	
Moreno Valley city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 0	\$2,260,838.56	21; 1	Includes \$2,121,891.35 for declarations not counted as hazard incidents (DR-4482-CA).
Murrieta city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 1	\$223,700.27	18; 2	Includes \$100,744.05 for declarations not counted as hazard incidents (DR-4482-CA).
Norco city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 2	\$303,084.88	10; 0	Includes \$33,486.09 for declarations not counted as hazard incidents (DR-4482-CA).
Palm Desert city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 13	\$321,624.85	16; 3	Includes \$308,182.17 for declarations not counted as hazard incidents (DR-4482-CA).
Palm Springs city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 1; any 3	\$717,011.70	25; 0	Includes \$160,391.47 for declarations not counted as hazard incidents (DR-4482-CA).
Perris city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 0	\$563,085.60	27; 7	Includes \$404,995.17 for declarations not counted as hazard incidents (DR-4482-CA).
Rancho Mirage city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 7	\$9,143,083.63	4; 1	Includes \$8,725,364.87 for declarations not counted as hazard incidents (DR-4482-CA).
Riverside city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 2	\$4,590,698	12; 1	Includes \$2,021,247.83 for declarations not counted as hazard incidents (DR-4482-CA).
Temecula city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 0	\$1,105,309.34	20; 1	Includes \$125,321.17 for declarations not counted as hazard incidents (DR-4482-CA).
Wildomar city	City	Approved, expires 2028-04-17	FMA RL 0, SRL 0; any 0	\$189,252.10	5; 1	Includes \$24,140 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 2023-04-18 <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	\$27,008,292		1	\$19		\$633	under 0.0001%				
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$4,828,141,565	\$62,237,679	18,787	\$638	\$67,121	\$71,095	under 0.0001%				
Drought		\$828,737,273			\$220,571		0.0266% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$792,597,444,699		2,418,185	\$582,072,226		\$181,712,324	0.0734%				
Hail	\$470,055,458,576	\$1,200,000,752	2,416,838	\$949,696	\$6,151	\$33,863	0.000202%	\$60,000			
Heat Wave	\$470,055,458,576	\$1,200,000,752	2,416,838	\$23,141	\$527,804	\$17,841,678	under 0.0001%		\$10,000		
Hurricane	\$470,055,458,576	\$1,200,000,752	2,416,838	\$966	\$1,706	\$0	under 0.0001%		\$0	\$18,380,081.77	
Ice Storm											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>	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 2023-04-18 <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	\$469,961,831,147	\$194,897,479	43,599	\$1,118,828,946	\$419,791	\$7,754,924	n/a (see note)	\$90,000		\$18,380,081.77	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	\$17,269,733,273		84,234	\$1,062,136		\$15,188	0.00615%	\$0		\$18,380,081.77	
Lightning	\$470,055,458,576		2,416,838	\$14,180		\$782,857	under 0.0001%	\$1,000			
Strong Wind	\$470,055,458,576	\$1,200,000,752	2,416,838	\$316,978	\$10,420	\$286,557	under 0.0001%	\$142,000	\$448,000		Storm Events damage since the plan includes 6 zone-level High Wind records (\$361,000) and 7 zone-level Strong Wind records (\$87,000), event types the NRI definition of this hazard leaves out.
Tornado	\$470,055,458,576	\$1,200,000,752	2,416,838	\$4,435,036	\$2,300	\$1,416,856	0.000944%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity	\$470,055,458,576		2,416,838	under \$1		\$72	under 0.0001%				
Wildfire	\$50,336,067,625	\$582,262,424	370,831	\$327,560,330	\$28,066	\$19,054,409	0.651%		\$83,350,000	none found (3 declarations)	
Winter Weather	\$464,158,365,843	\$782,083,167	2,392,311	\$1,311	under \$1	\$117,652	under 0.0001%		\$0		

Totals since 2023-04-18 (Storm Events through 2026-06-30): 77 county-coded records, 74 with a damage value recorded (including \$0), \$293,000; 106 zone-level records, 97 with a damage value recorded (including \$0), \$83,808,000 reported for the zone; Public Assistance on counted declarations \$18,380,081.77 (4 declarations, 1 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	2,416,838
Building value (total, not at risk)	\$470,055,458,576
Agriculture value (total, not at risk)	\$1,200,000,752
NRI risk rating (all hazards)	Very High
Expected annual loss, buildings and agriculture, all hazards	\$2,036,549,533
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)	\$229,088,110
Social vulnerability rating	Relatively Low
Community resilience rating	Very 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)	2	Severe repetitive loss, FMA definition (44 CFR 77.2)	4
Repetitive loss, NFIP insurance definition	67	Severe repetitive loss, NFIP insurance definition	3

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

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: 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	2	4	67	3	69	1	20
RIVERSIDE COUNTY *	2	1	19	1	19	0	11
CORONA, CITY OF	0	0	9	0	9	0	4
DESERT HOT SPRINGS, CITY OF	0	0	1	0	1	0	1
INDIAN WELLS, CITY OF	0	0	1	0	1	0	0
NORCO, CITY OF	0	0	2	0	2	0	0
PALM SPRINGS, CITY OF	0	1	2	1	3	0	1
RANCHO MIRAGE, CITY OF	0	0	7	0	7	0	0
RIVERSIDE, CITY OF	0	0	2	0	2	0	0
PALM DESERT, CITY OF	0	0	13	0	13	0	0
LAKE ELSINORE, CITY OF	0	2	7	1	8	1	1
LA QUINTA, CITY OF	0	0	2	0	2	0	2
MURRIETA, CITY OF	0	0	1	0	1	0	0
AGUA CALIENTE BAND OF CAHUILLA INDIANS TRIBE (community ID not in plan data)	0	0	1	0	1	0	0
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
Riverside County	060245	2	1	19	1	19	0	11	
Banning city	060246	0	0	0	0	0	0	0	
Beaumont city	060247	0	0	0	0	0	0	0	
Blythe city	060248	0	0	0	0	0	0	0	
Calimesa city	060740	0	0	0	0	0	0	0	
Cathedral City city	060704	0	0	0	0	0	0	0	
Coachella city	060249	0	0	0	0	0	0	0	
Corona city	060250	0	0	9	0	9	0	4	
Desert Hot Springs city	060251	0	0	1	0	1	0	1	
Eastvale city	060155	0	0	0	0	0	0	0	

Member	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>	Note
Indian Wells city	060254	0	0	1	0	1	0	0	
Indio city	060255	0	0	0	0	0	0	0	
Jurupa Valley city	060286	0	0	0	0	0	0	0	
La Quinta city	060709	0	0	2	0	2	0	2	
Lake Elsinore city	060636	0	2	7	1	8	1	1	
Menifee city	060176	0	0	0	0	0	0	0	
Moreno Valley city	065074	0	0	0	0	0	0	0	
Murrieta city	060751	0	0	1	0	1	0	0	
Norco city	060256	0	0	2	0	2	0	0	
Palm Desert city	060629	0	0	13	0	13	0	0	
Palm Springs city	060257	0	1	2	1	3	0	1	
Perris city	060258	0	0	0	0	0	0	0	
Rancho Mirage city	060259	0	0	7	0	7	0	0	
Riverside city	060260	0	0	2	0	2	0	0	
Temecula city	060742	0	0	0	0	0	0	0	
Wildomar city	060221	0	0	0	0	0	0	0	

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

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

SOURCES

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

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

County repeat-flood properties by occupancy group

Occupancy group	RL, FMA <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	2	3	45	2	47	1	11
2 to 4 unit residential	0	0	2	0	2	0	1
other residential	0	0	4	0	4	0	4
non-residential	0	1	16	1	16	0	4
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 fmaRL field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRL) is 2 or more claims over \$1,000 in 10 years and can drop to false when a property is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured.

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

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

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

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 65 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_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

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Corrections: to report an error, name the packet, the table and what your records show. Contact: to be added

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_CA_06065. Preview: automated baseline.