

San Bernardino County, CA

Risk-assessment baseline packet

Unit **County area 06071** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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

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Plan clock

Status	Approved, expires 2027-11-30	Plan	San Bernardino County (FEMA plan 108635)
Approved	2022-12-01	Expires	2027-11-30
As of	2026-09-28	Days	428 days to expiry

What changed since your last plan (approved 2022-12-01)

New federal declarations	EM-3591-CA, EM-3592-CA, DR-4699-CA, FM-5535-CA, FM-5537-CA (5 declaration rows; 4 counted incidents)	Storm Events records since approval	398 (data through 2026-06-30)
Repetitive loss now	FMA RL 4, SRL 5 (44 CFR 77.2); any definition: 47	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: 50 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
San Bernardino County	County	Approved, expires 2027-11-30	San Bernardino County (FEMA plan 108635)	2022-12-01	2027-11-30	428		
Apple Valley town	Town	Expired on 2023-04-09	Apple Valley, Town of (FEMA plan 104940)	2018-04-10	2023-04-09	-1,268		
Barstow city	City	Expired on 2024-08-25	Barstow, City of (FEMA plan 105703)	2019-08-26	2024-08-25	-764		
Big Bear Lake city	City	Expired on 2026-06-22	Big Bear Lake, City of (FEMA plan 106804)	2021-06-23	2026-06-22	-98		member approved 2021-08-12
Chino city	City	Approved, expires 2030-09-17	Chino, City of (FEMA plan 110979)	2025-09-18	2030-09-17	1,450		
Chino Hills city	City	Approved, expires 2030-09-16	Chino Hills, City of (FEMA plan 111028)	2025-09-17	2030-09-16	1,449		
Colton city	City	Approved, expires 2031-04-05	Colton, City of (FEMA plan 111417)	2026-04-06	2031-04-05	1,650		
Fontana city	City	Expired on 2023-08-29	Fontana, City of (FEMA plan 104603)	2018-08-30	2023-08-29	-1,126		
Grand Terrace city	City	Approved, expires 2031-02-24	Grand Terrace, City of (FEMA plan 111465)	2026-02-25	2031-02-24	1,610		
Hesperia city	City	Approved, expires 2030-05-06	Hesperia, City of (FEMA plan 110681)	2025-05-07	2030-05-06	1,316		
Highland city	City	Expired on 2020-01-29	Highland, City of (FEMA plan 100512)	2015-01-29	2020-01-29	-2,434		
Loma Linda city	City	Approved, expires 2027-03-06	Loma Linda, City of (FEMA plan 107859)	2022-03-07	2027-03-06	159		
Montclair city	City	Expired on 2016-07-13	Montclair, City of (FEMA plan 102642)	2011-07-13	2016-07-13	-3,729		
Needles city	City	Approved, expires 2030-11-11	Needles, City of (FEMA plan 111151)	2025-11-12	2030-11-11	1,505		
Ontario city	City	Approved, expires 2029-01-07	Ontario, City of (FEMA plan 109245)	2024-01-08	2029-01-07	832		
Rancho Cucamonga city	City	Approved, expires 2026-10-12	Rancho Cucamonga, City of (FEMA plan 107558)	2021-10-13	2026-10-12	14		
Redlands city	City	Approved, expires 2027-03-09	Redlands, City of (FEMA plan 107636)	2022-03-10	2027-03-09	162		
Rialto city	City	Approved, expires 2029-10-03	Rialto, City of (FEMA plan 109904)	2024-10-04	2029-10-03	1,101		
San Bernardino city	City	Approved, expires 2030-08-19	San Bernardino, City of (FEMA plan 110070)	2025-08-20	2030-08-19	1,421		
Twentynine Palms city	City	Approved, expires 2026-10-25	Twentynine Palms, City of (FEMA plan 107620)	2021-10-26	2026-10-25	27		
Upland city	City	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Victorville city	City	Approved, expires 2027-03-01	Victorville, City of (FEMA plan 107522)	2022-03-02	2027-03-01	154		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						negative = days since expiry		
Yucaipa city	City	Approved, expires 2028-03-23	Yucaipa, City of (FEMA plan 108570)	2023-03-24	2028-03-23	542		
Yucca Valley town	Town	Approved, expires 2030-06-18	Yucca Valley, Town of (FEMA plan 110725)	2025-06-19	2030-06-18	1,359		
Name not given in FEMA data (ID R09_205278)	School/School District	Expired on 2026-04-29	San Bernardino City Unified School District (FEMA plan 106791)	2021-04-30	2026-04-29	-152		
Name not given in FEMA data (ID R09_205300)	School/School District	Expired on 2025-11-23	Morongo Unified School District (FEMA plan 106852)	2020-11-24	2025-11-23	-309		
Big Bear City Community Services District	Community Services District	Expired on 2026-06-22	Big Bear Lake, City of (FEMA plan 106804)	2021-06-23	2026-06-22	-98		member approved 2021-06-24
Big Bear Fire Authority	Fire/EMS District	Expired on 2026-06-22	Big Bear Lake, City of (FEMA plan 106804)	2021-06-23	2026-06-22	-98		
Big Bear Municipal Water District	Water/Sewer Authority	Expired on 2026-06-22	Big Bear Lake, City of (FEMA plan 106804)	2021-06-23	2026-06-22	-98		member approved 2021-10-13
Bighorn-Desert View Water Agency	Water/Sewer Authority	Expired on 2021-08-01	Bighorn-Desert View Water Agency (FEMA plan 102394)	2016-08-01	2021-08-01	-1,884		
Crestline Village Water District	Water/Sewer Authority	Expired on 2023-08-22	Crestline Village Water District (FEMA plan 104688)	2018-08-23	2023-08-22	-1,133		
Cucamonga Valley Water District	Water/Sewer Authority	Expired on 2024-09-12	Cucamonga Valley Water District (FEMA plan 105843)	2019-09-13	2024-09-12	-746		
East Valley Water District	Water/Sewer Authority	Approved, expires 2031-05-21	East Valley Water District (FEMA plan 111791)	2026-05-22	2031-05-21	1,696		
Hi-Desert Water District	Water/Sewer Authority	Approved, expires 2028-04-17	Hi-Desert Water District (FEMA plan 108867)	2023-04-18	2028-04-17	567		
Inland Empire Utilities Agency	Water/Sewer Authority	Approved, expires 2029-01-21	Inland Empire Utilities Agency (FEMA plan 109415)	2024-01-22	2029-01-21	846		
Monte Vista Water District	Water/Sewer Authority	Approved, expires 2029-02-20	Monte Vista Water District (FEMA plan 109428)	2024-02-21	2029-02-20	876		
Morongo Valley Community Services District	Community Services District	Expired on 2019-03-06	Morongo Valley Community Services District (FEMA plan 81318)	2014-03-06	2019-03-06	-2,763		
Omnitrans	Transit/Airport	Expired on 2024-11-25	OmniTrans (FEMA plan 104936)	2019-11-26	2024-11-25	-672		
Running Springs Water District	Water/Sewer Authority	Expired on 2017-10-11	Running Springs Water District (FEMA plan 102645)	2012-10-11	2017-10-11	-3,274		
San Bernardino Community College	College/University	Expired on 2017-11-26	San Bernardino Community College District (FEMA plan 81416)	2012-11-26	2017-11-26	-3,228		
San Bernardino County Fire Protection District	Fire/EMS District	Approved, expires 2027-11-30	San Bernardino County (FEMA plan 108635)	2022-12-01	2027-11-30	428		
San Bernardino County Flood Control District	Flood Control District	Approved, expires 2027-11-30	San Bernardino County (FEMA plan 108635)	2022-12-01	2027-11-30	428		
San Bernardino County Special Districts Department	Special District	Approved, expires 2027-11-30	San Bernardino County (FEMA plan 108635)	2022-12-01	2027-11-30	428		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
San Bernardino Municipal Water Department	Water/Sewer Authority	Approved, expires 2030-06-04	San Bernardino Municipal Water Department (FEMA plan 110568)	2025-06-05	2030-06-04	1,345		member approved 2025-06-04
San Bernardino Valley Municipal Water District	Water/Sewer Authority	Approved, expires 2031-02-23	San Bernardino Valley Municipal Water District (FEMA plan 111304)	2026-02-24	2031-02-23	1,609		
Twentynine Palms Water District	Water/Sewer Authority	Approved, expires 2029-10-02	Twentynine Palms Water District (FEMA plan 110145)	2024-10-03	2029-10-02	1,100		
Victor Valley Wastewater Reclamation Authority	Special District	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Victor Valley Water District	Water/Sewer Authority	Expired on 2010-04-08	Victor Valley Water District (FEMA plan 102715)	2005-04-08	2010-04-08	-6,017		
West Valley Water District	Water/Sewer Authority	Expired on 2026-09-26	West Valley Water District (FEMA plan 107602)	2021-09-27	2026-09-26	-2		FEMA status not yet updated
Yucaipa Valley Water District	Water/Sewer Authority	Expired on 2026-04-08	Yucaipa Valley Water District (FEMA plan 106941)	2021-04-09	2026-04-08	-173		

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	EAL population equivalence	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission	Storm Events coverage note
					<i>modeled dollars per year</i>	<i>statistical value of life and injury, \$13.7M per life, not property damage</i>			<i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	
1	Inland Flooding	Very High	Very High	\$941,164,211	\$532,517	\$17,883,066	\$959,579,794	999		
2	Earthquake	Very High	Very High	\$692,860,775		\$228,974,095	\$921,834,870			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	\$139,068,566	\$8,239	\$6,660,844	\$145,737,649	228		
4	Landslide	Very High	Very High	\$7,512,368		\$10,519,643	\$18,032,011	59		

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
5	Heat Wave	Relatively High	Relatively High	\$2,681	\$42,077	\$17,530,762	\$17,575,520	177		
6	Strong Wind	Relatively High	Relatively High	\$1,345,483	\$22,582	\$2,600,732	\$3,968,796	713		Includes 469 High Wind records and 86 Strong Wind records, event types the NRI definition of this hazard leaves out.
7	Tornado	Relatively Moderate	Relatively Moderate	\$2,022,432	\$1,243	\$1,786,029	\$3,809,703	16		
8	Lightning	Relatively High	Relatively High	\$86,105		\$1,908,214	\$1,994,319	63		
9	Hail	Relatively Moderate	Relatively Moderate	\$1,666,077	\$499	\$265,831	\$1,932,407	60		
10	Cold Wave	Relatively Low	Relatively Low	\$56,626	\$1,990	\$333,053	\$391,670	19		Includes 13 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
11	Avalanche	Relatively Low	Relatively Low	\$697		\$142,948	\$143,645	5		
12	Winter Weather	Relatively Low	Relatively Low	\$4,908	under \$1	\$57,578	\$62,486	187		
13	Drought	Relatively Low	Relatively Low		\$36,916		\$36,916	26		
14	Volcanic Activity	Very Low	Very Low	under \$1		\$2	\$3	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
15	Hurricane	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	1		
	Coastal Flooding	Not Applicable	Not Applicable					0		Declared 2 times; no Storm Events record of this type.
	Ice Storm	Not Applicable	Not Applicable					0		Declared 1 time; no Storm Events record of this type.
	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.	37 of 466
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 466
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	44 of 466
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	43 of 466
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.	466 of 466
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	466 of 466
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	466 of 466
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 466
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 466
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.	466 of 466
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.	428 of 466
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	466 of 466
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	466 of 466
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.	466 of 466
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 466
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.	7 of 466
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.	351 of 466
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	464 of 466

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)	5, 2004 to 2023 (5 zone-level)		Avalanche, 2023-03-02, \$20,000 property; \$0 crops, reported for the zone (2023 dollars); NWS zone CAZ055 (SAN BERNARDINO 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.	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.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	6, 2002 to 2022 (6 zone-level)	2 days to 6 days (median 4 days); 3 with a recorded value	6 consecutive days, 2002-01-28 to 2002-02-02, zone-level	Extreme Cold/Wind Chill, 2002-01-29, \$150,000 property; crops not reported, reported for the zone (2002 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	13, 2004 to 2022 (13 zone-level)		Frost/Freeze, 2007-01-14, \$28,320,000 crop damage, reported for the zone (2007 dollars); NWS zone CAZ048 (SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS - THE INLAND EMPIRE), 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 243 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 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)	67, 1966 to 2025	0.25 in to 2 in (median 0.88 in); 65 with a recorded value	2 in hail, 1999-09-12	Hail, 2020-08-22, \$250,000 property; \$0 crops (2020 dollars)	Event records naming member places: Barstow city (3 records), Needles city (3 records), Big Bear Lake city (1 record), Highland city (1 record), Victorville city (1 record).	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Excessive Heat, Heat	heat index (narratives)	177, 1997 to 2025 (177 zone-level)	1 day to 13 days (median 3 days); 86 with a recorded value	13 consecutive days, 2023-07-11 to 2023-07-23, 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.
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 CAZ048 (SAN BERNARDINO AND RIVERSIDE COUNTY VALLEYS - THE INLAND EMPIRE), 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)	999, 1996 to 2026 (3 zone-level)		Flood, 2010-12-19, \$97,000,000 property; \$0 crops (2010 dollars)		Event records naming member places: Needles city (30 records), Barstow city (26 records), San Bernardino city (13 records), Victorville city (11 records), Chino city (10 records), Hesperia city (10 records), Yucaipa city (9 records), Big Bear Lake city (6 records), Fontana city (6 records), Colton city (5 records); and 9 more member places (see the XLSX file). Zone-level records (3) 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)	59, 2003 to 2025 (9 zone-level)		Debris Flow, 2010-12-20, \$15,000,000 property; \$0 crops, reported for the zone (2010 dollars); NWS zone CAZ055 (SAN BERNARDINO COUNTY MOUNTAINS), zone-level: may include parts of neighboring counties		Event records naming member places: Yucaipa city (3 records), Big Bear Lake city (2 records), Colton city (1 record), Fontana city (1 record), Hesperia city (1 record). Zone-level records (9) apply countywide.	Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	63, 1996 to 2024		Lightning, 2009-06-03, \$1,000 property; \$0 crops (2009 dollars), 1 direct death	Lightning, 2001-07-06, \$840,000 property; crops not reported (2001 dollars)	Event records naming member places: Fontana city (3 records), Hesperia city (3 records), Barstow city (2 records), Big Bear Lake city (2 records), Colton city (1 record), Highland city (1 record), Montclair city (1 record), Needles city (1 record), Ontario city (1 record), Rialto 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.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	555, 1996 to 2026 (553 zone-level)	22 kt (25 mph) to 110 kt (127 mph) (median 56 kt (64 mph)); 552 with a recorded value	110 kt (127 mph) measured gust, High Wind, 2011-03-20; NWS zone CAZ055 (SAN BERNARDINO COUNTY MOUNTAINS), 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: Rialto city (2 records). Zone-level records (553) apply countywide.	
Thunderstorm Wind	wind speed (kt and mph)	197, 1957 to 2026	39 kt (45 mph) to 90 kt (104 mph) (median 52 kt (60 mph)); 172 with a recorded value	90 kt (104 mph), measurement type not recorded, Thunderstorm Wind, 1997-09-01	Thunderstorm Wind, 2015-09-14, \$1,200,000 property; \$0 crops (2015 dollars)	Event records naming member places: Needles city (17 records), Barstow city (11 records), Big Bear Lake city (4 records), Hesperia city (3 records), San Bernardino city (2 records), Victorville city (2 records), Yucaipa city (2 records), Rancho Cucamonga city (1 record).	
Tornado	Enhanced Fujita (F before Feb 2007)	33, 1954 to 2019	F/EF0 to F/EF2 (median F/EF0); 26 with a recorded value	F2 tornado, 1982-09-07, 0.5 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 20 yd wide, \$25,000 property; crops not recorded (1982 dollars), 2 direct injuries	Tornado, 1983-08-01, \$250,000 property; crops not recorded (1983 dollars)	Event records naming member places: Fontana city (1 record), Hesperia city (1 record), Needles 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)	228, 1997 to 2025 (138 zone-level)		Wildfire, 2003-10-25, \$696,400,000 property; crops not reported (2003 dollars), 4 direct deaths, 5 direct injuries		Event records naming member places: San Bernardino city (9 records), Hesperia city (6 records), Fontana city (5 records), Chino city (4 records), Colton city (4 records), Rialto city (4 records), Yucaipa city (4 records), Big Bear Lake city (2 records), Upland city (2 records), Victorville city (2 records); and 4 more member places (see the XLSX file). Zone-level records (138) 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)	187, 1996 to 2026 (187 zone-level)		Heavy Snow, 2019-11-27, \$0 property; \$2,000,000 crops, reported for the zone (2019 dollars); NWS zone CAZ055 (SAN BERNARDINO 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 rows61Counted incidents51

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2024-09-11	2024-09-10	FM-5537-CA	Fire management	BRIDGE FIRE	Wildfire	none found	new since last plan; within last 5 years	
2024-09-07	2024-09-07	FM-5535-CA	Fire management	LINE FIRE	Wildfire	none found	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	\$3,740,932.18	new since last plan; within last 5 years	
2023-03-10	2023-03-09	EM-3592-CA	Emergency	SEVERE WINTER STORMS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding (primary); also designated: Landslide, Winter Weather	none found	new since last plan; within last 5 years	same incident as DR-4699

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Flags	Notes
						<i>federal share obligated, nominal dollars</i>			
2023-01-09	2023-01-08	EM-3591-CA	Emergency	SEVERE WINTER STORMS, FLOODING, AND MUDSLIDES	Inland Flooding (primary); also designated: Landslide, Winter Weather	none found		new since last plan; within last 5 years	
2020-10-26	2020-10-26	FM-5381-CA	Fire management	BLUE RIDGE FIRE	Wildfire	none found			same incident as DR-4569
2020-10-16	2020-09-04	DR-4569-CA	Major disaster	WILDFIRES	Wildfire	\$2,943,807.24			
2020-09-06	2020-09-05	FM-5350-CA	Fire management	EL DORADO FIRE	Wildfire	none found			same incident as DR-4569
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	\$195,752,924.82			
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-5301-CA	Fire management	HILLSIDE FIRE	Wildfire	none found			
2019-07-08	2019-07-04	EM-3415-CA	Emergency	EARTHQUAKES	Earthquake	none found			
2016-08-16	2016-08-16	FM-5147-CA	Fire management	BLUE CUT FIRE	Wildfire	none found			
2016-08-08	2016-08-07	FM-5144-CA	Fire management	PILOT FIRE	Wildfire	none found			
2015-07-17	2015-07-17	FM-5089-CA	Fire management	NORTH FIRE	Wildfire	none found			
2011-09-02	2011-09-02	FM-2955-CA	Fire management	HILL 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	\$43,093,689.56			
2010-03-08	2010-01-17	DR-1884-CA	Major disaster	SEVERE WINTER STORMS, FLOODING, AND DEBRIS AND MUD FLOWS	Inland Flooding; Winter Weather	\$2,075,986.82			
2009-10-04	2009-10-03	FM-2841-CA	Fire management	SHEEP FIRE	Wildfire	none found			
2009-09-01	2009-08-31	FM-2836-CA	Fire management	PENDLETON FIRE	Wildfire	none found			
2009-08-31	2009-08-30	FM-2833-CA	Fire management	OAK GLEN FIRE	Wildfire	none found			
2008-11-15	2008-11-15	FM-2792-CA	Fire management	FREEWAY FIRE COMPLEX	Wildfire	none found			
2007-10-24	2007-10-21	DR-1731-CA	Major disaster	WILDFIRES, FLOODING, MUD FLOWS, AND DEBRIS FLOWS	Wildfire	\$10,410,628.07			
2007-10-23	2007-10-21	EM-3279-CA	Emergency	WILDFIRES	Wildfire	none found			same incident as DR-1731
2007-10-22	2007-10-22	FM-2738-CA	Fire management	GRASS VALLEY FIRE	Wildfire	none found			same incident as DR-1731

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		
						<i>federal share obligated, nominal dollars</i>	Flags	Notes
2007-09-15	2007-09-14	FM-2728-CA	Fire management	BUTLER 2 FIRE	Wildfire	none found		
2007-03-13	2007-01-11	DR-1689-CA	Major disaster	SEVERE FREEZE	Cold Wave	PA not declared for this county		
2006-07-12	2006-07-11	FM-2653-CA	Fire management	SAWTOOTH FIRE COMPLEX	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	none found		
2005-04-14	2005-02-16	DR-1585-CA	Major disaster	SEVERE STORMS, FLOODING, LANDSLIDES, AND MUD AND DEBRIS FLOWS	Inland Flooding; Landslide	\$3,325,696.02		
2005-02-04	2004-12-27	DR-1577-CA	Major disaster	SEVERE STORMS, FLOODING, DEBRIS FLOWS, AND MUDSLIDES	Inland Flooding; Landslide	\$19,524,947.54		
2003-10-27	2003-10-21	DR-1498-CA	Major disaster	WILDFIRES, FLOODING, MUDFLOW AND DEBRIS FLOW DIRECTLY RELATED T	Wildfire	\$13,505,727.13		
2003-10-25	2003-10-25	FM-2503-CA	Fire management	OLD FIRE	Wildfire	none found		same incident as DR-1498
2003-10-23	2003-10-21	FM-2501-CA	Fire management	CA-GRAND PRIX FIRE-10-23-2003	Wildfire	none found		same incident as DR-1498
2003-09-06	2003-09-05	FM-2497-CA	Fire management	CA-BRIDGE FIRE-09-05-2003	Wildfire	none found		
2003-08-19	2003-08-18	FM-2491-CA	Fire management	CA-LOCUST WILDFIRE-08-19-2003	Wildfire	none found		
2002-09-24	2002-09-22	FM-2464-CA	Fire management	WILLIAMS FIRE	Wildfire	none found		
2002-06-27	2002-06-26	FM-2433-CA	Fire management	LOUISIANA FIRE	Wildfire	none found		
2002-06-17	2002-06-16	FM-2425-CA	Fire management	BLUECUT FIRE	Wildfire	none found		
1999-09-01	1999-08-24	EM-3140-CA	Emergency	CA-WILDFIRES-08/25/1999	Wildfire	\$266,680.97		
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		
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	none found		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
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	PA not declared for this county		
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		
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		
1970-09-29	1970-09-29	DR-295-CA	Major disaster	FOREST & BRUSH FIRES	Wildfire	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: \$11,744,861.53 (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		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
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)

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	5	2	0	2	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	19	0	5	5	2	0	1996 to 2026-06-30	Includes 13 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	2	0		No Storm Events record; local data required (e.g., USGS).
Hail	67	6	1	7	0	0	1955 to 2026-06-30	
Heat Wave	177	44	15	61	0	0	1996 to 2026-06-30	
Hurricane	1	1	0	1	1	0	1996 to 2026-06-30	
Ice Storm	0	0	0	0	1	1	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Inland Flooding	999	183	92	276	20	2	1996 to 2026-06-30	
Landslide	59	8	10	25	12	2	1996 to 2026-06-30	
Lightning	63	3	1	4	0	0	1996 to 2026-06-30	
Strong Wind	752	96	52	157	2	1	1955 to 2026-06-30	Includes 469 High Wind records and 86 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	33	0	0	0	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	228	20	5	25	27	2	1996 to 2026-06-30	

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Winter Weather	187	35	11	48	9	2	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
2023-07-11	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2023 dollars)	0, 0	NWS zone CAZ527 (SAN BERNARDINO COUNTY-UPPER COLORADO RIVER VALLEY), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2011-03-20	High Wind	110 kt (127 mph) measured gust	\$0 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone CAZ055 (SAN BERNARDINO COUNTY MOUNTAINS), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2010-12-20	Debris Flow		\$15,000,000 property; \$0 crops, reported for the zone (2010 dollars)	0, 0	NWS zone CAZ055 (SAN BERNARDINO COUNTY MOUNTAINS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Debris Flow
2010-12-19	Flood		\$97,000,000 property; \$0 crops (2010 dollars)	0, 0	MT BALDY to LOS SERRANOS		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2009-06-03	Lightning		\$1,000 property; \$0 crops (2009 dollars)	1, 0	FONTANA		B1-c worst recorded: Lightning
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
2003-12-25	Debris Flow		\$5,000,000 property; crops not reported, reported for the zone (2003 dollars)	14, 10	NWS zone CAZ055 (SAN BERNARDINO COUNTY MOUNTAINS), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2003-10-25	Wildfire		\$696,400,000 property; crops not reported (2003 dollars)	4, 5	SAN BERNARDINO		deaths or injuries recorded
2002-01-28	Extreme Cold/ Wind Chill		damage not reported	0, 0	NWS zone CAZ060 (APPLE AND YUCCA VALLEYS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/ Wind Chill, Extreme Cold/ Wind Chill
1999-09-12	Hail	2 in	\$40,000 property; crops not reported (1999 dollars)	0, 0	BAKER		B1-c worst recorded: Hail

				Direct deaths, injuries <i>indirect not counted</i>			
Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>		Location	Flags	Why listed
1997-09-01	Thunderstorm Wind	90 kt (104 mph), measurement type not recorded	damage not reported	0, 0	TWENTY NINE PALMS		B1-c worst recorded: Thunderstorm Wind
1982-09-07	Tornado	F2, 0.5 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 20 yd wide	\$25,000 property; crops not recorded (1982 dollars)	0, 2	location not recorded		B1-c worst recorded: Tornado

The full list is in the XLSX file, sheet "B1-d Storm Events history" (2,616 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	0.0667	events per year	about 1 in 15 years	Possible	FEMA annualized frequency (modeled)	2	1994 to 2023 (30 years)	see B1-f	
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	0.0127	event-days per year	about 0.0127 days per year	Possible	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	0.242	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.

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
Drought	78.4	event-days per year	about 78.4 days per year	Likely	event-days in 3 of 30 years, 1996 to 2025 (10%)	4,242	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 78.4 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	0.112	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 11.2%			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	0.0732	events per year	about 1 in 14 years	Possible	FEMA annualized frequency (modeled)	2.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	11.6	event-days per year	about 11.6 days per year	Likely	event-days in 18 of 30 years, 1996 to 2025 (60%)	78.4	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.00131	events per year	about 1 in 765 years	Unlikely	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.
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	13	event-days per year	about 13 days per year	Highly likely	event-days in 30 of 30 years, 1996 to 2025 (100%)	363	1996 to 2023 (28 years)	see B1-f	
Landslide	27.5	events per year (modeled)	about 27.5 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	16.8	days per year with a strike	about 16.8 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.181	events per year	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	7	1986 to 2023 (38 years)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Tornado	0.758	events per year	about 0.76 per year	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	0.0003	annual probability	about 1 in 3,333 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.00948	annual probability at a location	chance a given location in the county burns in a year: 0.948%	Highly likely	Storm Events records in 29 of 30 years, 1996 to 2025 (96.7%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Winter Weather	2.11	event-days per year	about 2.11 days per year	Highly likely	event-days in 30 of 30 years, 1996 to 2025 (100%)	40.1	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

Unit	Descriptor	Definition
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	25	30	0.833
Hail	2.00 in+	1996 to 2025	1	30	0.0333
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	15	30	0.5
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	42	30	1.4
Tornado	EF0-1	1996 to 2025	16	30	0.533
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts rated of all	Risk score min NRI score, 0 to 100	Median	Max	Tracts by rating	Note
Avalanche	37 of 466	71.7	72.7	73.6	Relatively Low 37, Not Applicable 429	
Coastal Flooding	0 of 466				Not Applicable 466	
Cold Wave	44 of 466	15.6	22.6	33.9	Relatively Low 32, Very Low 12, No Rating 422	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	43 of 466	68.1	71.6	91.1	Relatively Low 3, Very Low 40, No Rating 423	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	466 of 466	53.7	93.0	100.0	Very High 90, Relatively High 294, Relatively Moderate 79, Relatively Low 3	
Hail	466 of 466	13.5	37.6	86.1	Relatively Moderate 5, Relatively Low 236, Very Low 225	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	466 of 466	1.7	49.3	84.3	Relatively Moderate 139, Relatively Low 303, Very Low 24	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	0 of 466				No Rating 466	
Ice Storm	0 of 466				Not Applicable 466	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	466 of 466	1.3	89.6	100.0	Very High 139, Relatively High 182, Relatively Moderate 113, Relatively Low 29, Very Low 3	
Landslide	428 of 466	8.6	54.8	100.0	Very High 10, Relatively High 10, Relatively Moderate 38, Relatively Low 49, Very Low 321, No Rating 38	
Lightning	466 of 466	1.4	24.5	57.3	Relatively Moderate 1, Relatively Low 329, Very Low 136	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	466 of 466	9.7	31.3	81.6	Relatively Moderate 13, Relatively Low 424, Very Low 29	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	466 of 466	1.4	18.2	55.5	Relatively Moderate 1, Relatively Low 16, Very Low 449	
Tsunami	0 of 466				Not Applicable 466	
Volcanic Activity	7 of 466	40.0	44.4	70.2	Very Low 7, No Rating 459	
Wildfire	351 of 466	18.6	88.5	100.0	Very High 34, Relatively High 70, Relatively Moderate 73, Relatively Low 93, Very Low 81, No Rating 115	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Winter Weather	464 of 466	10.7	15.9	38.9	Relatively Low 67, Very Low 397, No Rating 2	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
San Bernardino County	County	Approved, expires 2027-11-30	FMA RL 2, SRL 0; any 17	\$76,365,374.97	0; 0	Includes \$37,498,848.49 for declarations not counted as hazard incidents (DR-4482-CA).
Apple Valley town	Town	Expired on 2023-04-09	FMA RL 0, SRL 1; any 3	\$889,314.47	0; 0	
Barstow city	City	Expired on 2024-08-25	FMA RL 0, SRL 0; any 1	\$964,526.60	42; 13	
Big Bear Lake city	City	Expired on 2026-06-22	FMA RL 0, SRL 0; any 1	\$400,733.31	17; 2	
Chino city	City	Approved, expires 2030-09-17	FMA RL 0, SRL 0; any 0	\$111,320.15	14; 0	Includes \$86,326 for declarations not counted as hazard incidents (DR-4482-CA).
Chino Hills city	City	Approved, expires 2030-09-16	FMA RL 0, SRL 0; any 0	\$485,949.51	0; 0	Includes \$12,950.32 for declarations not counted as hazard incidents (DR-4482-CA).
Colton city	City	Approved, expires 2031-04-05	FMA RL 0, SRL 1; any 1	\$55,379.59	11; 0	
Fontana city	City	Expired on 2023-08-29	FMA RL 0, SRL 0; any 1	\$398,330.38	16; 1	Includes \$371,187.70 for declarations not counted as hazard incidents (DR-4482-CA).
Grand Terrace city	City	Approved, expires 2031-02-24	FMA RL 0, SRL 0; any 0	\$22,379.77	2; 0	
Hesperia city	City	Approved, expires 2030-05-06	FMA RL 1, SRL 1; any 2	\$1,028,630.24	24; 0	
Highland city	City	Expired on 2020-01-29	FMA RL 1, SRL 1; any 1	\$1,135,768.18	6; 2	
Loma Linda city	City	Approved, expires 2027-03-06	FMA RL 0, SRL 0; any 0	\$761,336.47	3; 1	Includes \$43,292.81 for declarations not counted as hazard incidents (DR-4482-CA).
Montclair city	City	Expired on 2016-07-13	FMA RL 0, SRL 0; any 0	\$197,603.45	2; 1	Includes \$152,333.17 for declarations not counted as hazard incidents (DR-4482-CA).

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Needles city	City	Approved, expires 2030-11-11	FMA RL 0, SRL 0; any 0	\$27,230.55	52; 0	Includes \$27,230.55 for declarations not counted as hazard incidents (DR-4482-CA).
Ontario city	City	Approved, expires 2029-01-07	FMA RL 0, SRL 0; any 1	\$1,570,254.23	6; 1	Includes \$930,086.23 for declarations not counted as hazard incidents (DR-4482-CA).
Rancho Cucamonga city	City	Approved, expires 2026-10-12	FMA RL 0, SRL 1; any 2	\$607,009.24	7; 1	Includes \$191,508.12 for declarations not counted as hazard incidents (DR-4482-CA).
Redlands city	City	Approved, expires 2027-03-09	FMA RL 0, SRL 0; any 0	\$400,924.56	1; 0	Includes \$48,496.43 for declarations not counted as hazard incidents (DR-4482-CA).
Rialto city	City	Approved, expires 2029-10-03	FMA RL 0, SRL 0; any 0	\$342,164.55	9; 0	
San Bernardino city	City	Approved, expires 2030-08-19	FMA RL 0, SRL 0; any 2	\$2,443,926.31	25; 0	Includes \$94,095.22 for declarations not counted as hazard incidents (DR-4482-CA).
Twentynine Palms city	City	Approved, expires 2026-10-25	FMA RL 0, SRL 0; any 7	\$25,222.34	0; 0	
Upland city	City	No approved plan on record. Approvable pending adoption, not yet eligible	FMA RL 0, SRL 0; any 1	\$41,443.76	8; no approved plan	
Victorville city	City	Approved, expires 2027-03-01	FMA RL 0, SRL 0; any 0	\$750,980.04	17; 2	Includes \$351,070.82 for declarations not counted as hazard incidents (DR-4482-CA).
Yucaipa city	City	Approved, expires 2028-03-23	FMA RL 0, SRL 0; any 0	\$155,378.50	19; 1	
Yucca Valley town	Town	Approved, expires 2030-06-18	FMA RL 0, SRL 0; any 5	\$355,209.96	0; 0	

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 modeled dollars	Agriculture exposure modeled dollars	Population exposed people	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 as % of exposure buildings; agriculture where noted	Storm Events damage since 2022-12-01 county-coded records, property plus crops, nominal dollars	Zone-level damage since plan property plus crops, reported for the zone	Public Assistance since plan nominal dollars; see note	Note
Avalanche	\$13,049,144		10	\$697		\$142,948	0.00534%		\$20,000		
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$25,209,130,961	\$981,053	77,135	\$56,626	\$1,990	\$333,053	0.000225%				
Drought		\$74,394,742			\$36,916		0.0496% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$740,002,729,308		2,181,654	\$692,860,775		\$228,974,095	0.0936%				
Hail	\$423,886,169,656	\$481,450,205	2,179,979	\$1,666,077	\$499	\$265,831	0.000393%	\$10,000			
Heat Wave	\$423,886,169,656	\$481,450,205	2,179,979	\$2,681	\$42,077	\$17,530,762	under 0.0001%		\$10,000		
Hurricane	\$423,886,094,115	\$481,450,205	2,179,979	\$0	\$0	\$0	0%		\$0		
Ice Storm										\$3,740,932.18	Not Applicable in NRI for this county
Inland Flooding	\$423,805,473,944	\$30,458,390	24,869	\$941,164,211	\$532,517	\$17,883,066	n/a (see note)	\$13,200,100		\$3,740,932.18	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	\$9,608,189,569		34,317	\$7,512,368		\$10,519,643	0.0782%	\$20,000		\$3,740,932.18	
Lightning	\$423,886,169,656		2,179,979	\$86,105		\$1,908,214	under 0.0001%	\$45,000			

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-12-01 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Strong Wind	\$423,886,169,656	\$481,450,205	2,179,979	\$1,345,483	\$22,582	\$2,600,732	0.000317%	\$76,000	\$374,000	\$3,740,932.18	Storm Events damage since the plan includes 6 zone-level High Wind records (\$296,000) and 7 zone-level Strong Wind records (\$78,000), event types the NRI definition of this hazard leaves out.
Tornado	\$423,886,169,656	\$481,450,205	2,179,979	\$2,022,432	\$1,243	\$1,786,029	0.000477%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity	\$423,886,169,656		2,179,979	under \$1		\$2	under 0.0001%				
Wildfire	\$37,627,424,673	\$263,180,689	264,780	\$139,068,566	\$8,239	\$6,660,844	0.37%		\$44,250,000	none found (2 declarations)	
Winter Weather	\$420,971,184,835	\$431,664,125	2,173,071	\$4,908	under \$1	\$57,578	under 0.0001%		\$500,000	\$3,740,932.18	

Totals since 2022-12-01 (Storm Events through 2026-06-30): 225 county-coded records, 222 with a damage value recorded (including \$0), \$13,351,100; 173 zone-level records, 165 with a damage value recorded (including \$0), \$45,154,000 reported for the zone; Public Assistance on counted declarations \$3,740,932.18 (5 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	2,179,979
Building value (total, not at risk)	\$423,886,169,656
Agriculture value (total, not at risk)	\$481,450,205
NRI risk rating (all hazards)	Very High
Expected annual loss, buildings and agriculture, all hazards	\$1,786,436,992
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)	\$288,662,797
Social vulnerability rating	Relatively Low
Community resilience rating	Relatively Low
NRI version	December 2025

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

SOURCE

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

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	4	Severe repetitive loss, FMA definition (44 CFR 77.2)	5
Repetitive loss, NFIP insurance definition	44	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.

SOURCES

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

Repeat-flood properties: county and state-level rows

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	4	5	44	3	47	0	14
SAN BERNARDINO COUNTY *	2	0	16	0	17	0	5
BARSTOW, CITY OF	0	0	1	0	1	0	0
COLTON, CITY OF	0	1	1	1	1	0	0
FONTANA, CITY OF	0	0	1	0	1	0	0

Scope	RL, FMA properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties
ONTARIO, CITY OF	0	0	1	0	1	0	0
SAN BERNARDINO, CITY OF	0	0	2	0	2	0	0
RANCHO CUCAMONGA, CITY OF	0	1	1	0	2	0	0
BIG BEAR LAKE, CITY OF	0	0	1	0	1	0	0
HIGHLAND, CITY OF	1	1	0	0	1	0	1
HESPERIA, CITY OF	1	1	2	1	2	0	1
TWENTYNINE PALMS, CITY OF	0	0	7	0	7	0	5
YUCCA VALLEY, TOWN OF	0	0	5	0	5	0	1
APPLE VALLEY, TOWN OF	0	1	3	1	3	0	1
UPLAND, CITY OF	0	0	1	0	1	0	0
Unknown (community ID Unknown in FEMA data)	0	0	2	0	2	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 properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties	Note
San Bernardino County	060270	2	0	16	0	17	0	5	
Apple Valley town	060752	0	1	3	1	3	0	1	
Barstow city	060271	0	0	1	0	1	0	0	
Big Bear Lake city	060731	0	0	1	0	1	0	0	
Chino city	060272	0	0	0	0	0	0	0	
Chino Hills city	060754	0	0	0	0	0	0	0	
Colton city	060273	0	1	1	1	1	0	0	
Fontana city	060274	0	0	1	0	1	0	0	
Grand Terrace city	060737	0	0	0	0	0	0	0	
Hesperia city	060733	1	1	2	1	2	0	1	
Highland city	060732	1	1	0	0	1	0	1	
Loma Linda city	065042	0	0	0	0	0	0	0	
Montclair city	060276	0	0	0	0	0	0	0	
Needles city	060277	0	0	0	0	0	0	0	
Ontario city	060278	0	0	1	0	1	0	0	
Rancho Cucamonga city	060671	0	1	1	0	2	0	0	
Redlands city	060279	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
Rialto city	060280	0	0	0	0	0	0	0	
San Bernardino city	060281	0	0	2	0	2	0	0	
Twentynine Palms city	060734	0	0	7	0	7	0	5	
Upland city	065067	0	0	1	0	1	0	0	
Victorville city	065068	0	0	0	0	0	0	0	
Yucaipa city	060739	0	0	0	0	0	0	0	
Yucca Valley town	060750	0	0	5	0	5	0	1	

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	4	5	34	3	37	0	12
2 to 4 unit residential	0	0	5	0	5	0	1
other residential	0	0	0	0	0	0	0
non-residential	0	0	5	0	5	0	1
not reported	0	0	0	0	0	0	0

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

SOURCES

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

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

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

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

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

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

In this county 2 properties are FMA repetitive loss but not NFIP repetitive loss, and 42 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_scscd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scscd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/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_06071. Preview: automated baseline.