

San Diego County, CA

Risk-assessment baseline packet

County FIPS: 06073 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

Hazard Plain is an independent product built from public federal data. It is not a FEMA document and is not reviewed or endorsed by FEMA or any state agency.

Summary

Plan status as of 2026-09-30: Approved, expires 2028-03-30. Plan: San Diego County (FEMA plan 108933), approved 2023-03-31.

Since the plan was approved on 2023-03-31: 1 new hazard declaration (1 incident) and 165 NOAA Storm Events records; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$647,607,110 a year), Wildfire (\$430,155,987) and Earthquake (\$426,140,115).

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

TERMS USED

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

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

NFIP: National Flood Insurance Program.

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

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

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

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

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

FIPS: the federal code for a place; 06073 is this area.

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

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

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

CFR: Code of Federal Regulations.

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

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

CONTENTS

- 1. Summary and terms used, page 1
- 2. Plan clock, page 2
- 3. What changed since your last plan (approved 2023-03-31), page 2
- 4. B1-a: hazard identification, page 4
- 5. B1-b: hazard location, page 6
- 6. B1-c: hazard extent, page 7
- 7. B1-d: previous occurrences, page 10
- 8. B1-e: probability of future events, page 16
- 9. B1-f: hazards that vary across jurisdictions, page 19
- 10. B2-a and B2-b: vulnerability and potential impacts, page 21
- 11. B2-a: vulnerability (county context), page 24
- 12. B2-c: repetitive loss properties, page 24
- 13. Sources, what the plan adds, disclaimer and citation, page 26

Plan clock

Status:	Approved, expires 2028-03-30	Plan:	San Diego County (FEMA plan 108933)
Approved:	2023-03-31	Days to expiry:	547

What changed since your last plan (approved 2023-03-31)

New federal declarations:	1 new hazard declaration (1 incident): DR-4758-CA (Severe Storm and Flooding)	Storm Events records since approval:	165 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 8, SRL 24 (44 CFR 77.2); any definition: 175	Repeat-flood change:	this release sets the baseline count.

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

Plan status for every jurisdiction listed in this county: 33 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Notes
San Diego County	County	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	
Carlsbad city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-08-23
Chula Vista city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-11-22
Coronado city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-06-22
Del Mar city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-05-25
El Cajon city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-07-25
Encinitas city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-07-06
Escondido city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-06-22
Imperial Beach city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-06-22
La Mesa city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-05-15
Lemon Grove city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-05-25
National City city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-04-11
Oceanside city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-08-23
Poway city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-05-15
San Diego city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-09-26
San Marcos city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-06-22
Santee city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-05-15
Solana Beach city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-07-06
Vista city	City	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-07-06

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Notes
San Diego City Unified School District	School/School District	Expired on 2015-03-03	San Diego Unified School District (FEMA plan 102714)	2010-03-03	2015-03-03	-4,229	
Name not given in FEMA data (ID R09_202850)	School/School District	Expired on 2022-07-31	Chula Vista Elementary School District (FEMA plan 102750)	2017-08-01	2022-07-31	-1,522	
Alpine Fire Protection District	Fire/EMS District	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-05-25
North County Transit District	Transit/Airport District	Expired on 2013-03-17	North County Transit District (FEMA plan 81354)	2008-03-17	2013-03-17	-4,945	
Olivenhain Municipal Water District	Water/Sewer Authority	Expired on 2010-09-09	Olivenhain Municipal Water District (FEMA plan 81358)	2005-09-09	2010-09-09	-5,865	
Otay Water District	Water/Sewer Authority	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-07-06
Padre Dam MWD	Water/Sewer Authority	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-05-25
Rainbow Municipal Water District	Water/Sewer Authority	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-07-06
San Diego County Water Authority	Water/Sewer Authority	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-04-06
San Diego Unified Port District	Highway/Port/Rail District	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-05-03
Santa Fe Irrigation District	Water/Sewer Authority	Approved, expires 2029-09-19	Santa Fe Irrigation District (FEMA plan 109974)	2024-09-20	2029-09-19	1,085	
Southwestern Community College District	College/University District	Expired on 2022-09-06	Southwestern Community College District (FEMA plan 102653)	2017-09-07	2022-09-06	-1,485	
Sweetwater Authority	Water/Sewer Authority	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-06-22
Vista Irrigation District	Flood Control District	Approved, expires 2028-03-30	San Diego County (FEMA plan 108933)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-06-22

FEMA plan data lists 1 school district row with no name (FEMA IDs only) and 1 named school district. FEMA files some districts under two ID schemes on different plans, so a named district's 'No approved plan on record' can sit beside an unnamed row that has a plan.

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

- land subsidence and sinkholes
- expansive soils

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Inland Flooding	Very High	Very High	\$641,850,673	\$794,136	\$4,962,301	\$647,607,110	503	
2	Wildfire	Very High	Very High	\$415,265,285	\$73,994	\$14,816,709	\$430,155,987	198	
3	Earthquake	Relatively High	Very High	\$327,511,685	n/a	\$98,628,430	\$426,140,115		Storm Events does not record earthquakes.
4	Heat Wave	Relatively High	Relatively High	\$31,808	\$344,998	\$23,774,010	\$24,150,816	117	
5	Landslide	Relatively High	Relatively High	\$1,285,551	n/a	\$1,805,694	\$3,091,245	39	
6	Tornado	Relatively Low	Relatively Moderate	\$1,975,342	\$7,795	\$289,715	\$2,272,851	13	
7	Tsunami	Relatively Low	Relatively Low	\$1,632,995	n/a	\$0	\$1,632,995	3	
8	Coastal Flooding	Relatively Moderate	Relatively Moderate	\$1,466,190	n/a	\$470	\$1,466,661	24	
9	Lightning	Relatively Moderate	Relatively Moderate	\$9,300	n/a	\$819,426	\$828,726	43	
10	Hail	Relatively Moderate	Relatively Moderate	\$781,962	\$12,428	\$30,789	\$825,180	47	
11	Strong Wind	Relatively Moderate	Relatively Moderate	\$295,340	\$87,884	\$258,816	\$642,040	547	Includes 369 High Wind and 67 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
12	Drought	Relatively Low	Relatively Low	n/a	\$298,802	n/a	\$298,802	27	
13	Winter Weather	Relatively Low	Relatively Low	\$963	under \$1	\$65,704	\$66,667	80	
14	Hurricane	Very Low	Very Low	\$767	\$649	\$0	\$1,416	1	
15	Cold Wave	Very Low	Very Low	\$1	\$516	\$4	\$521	20	Includes 9 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
16	Avalanche	Very Low	Very Low	\$20	n/a	\$117	\$137	1	
17	Volcanic Activity	Very Low	Very Low	under \$1	n/a	\$3	\$3	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

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

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

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

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

Supports FEMA checklist item B1-b: hazard location

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

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

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

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Avalanche	tract 209.03 (Very Low, 24.4); tract 211.02 (Very Low, 24.0); tract 211.01 (Very Low, 22.7)
Earthquake	tract 211.02 (Very High, 99.9); tract 210.02 (Very High, 99.8); tract 85.11 (Very High, 99.8)
Hurricane	tract 210.02 (Very Low, 22.2); tract 191.09 (Very Low, 19.8); tract 190.01 (Very Low, 17.8)
Landslide	tract 209.03 (Very High, 100.0); tract 213.02 (Relatively High, 99.9); tract 210.01 (Relatively High, 99.9)
Tornado	tract 187 (Relatively Low, 46.1); tract 203.13 (Relatively Low, 33.2); tract 210.02 (Relatively Low, 32.7)
Tsunami	tract 218 (Relatively Moderate, 87.0); tract 76.01 (Relatively Low, 77.9); tract 76.02 (Relatively Low, 77.8)
Volcanic Activity	tract 211.02 (Very Low, 63.9); tract 209.04 (Very Low, 59.3); tract 210.02 (Very Low, 50.1)
Wildfire	tract 209.03 (Very High, 100.0); tract 211.02 (Very High, 100.0); tract 213.02 (Very High, 100.0)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 209.03 is Census Tract 209.03). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Avalanche	none (count and damage only)	1 record, 2004 (1 zone-level)		Avalanche, 2004-03-02, \$75,000 property; crops not reported (2004 dollars); NWS zone CAZ050		Countywide (zone-level records).	
Coastal Flood, Storm Surge/Tide	none in data (flood depth: FIRM)	24 records, 1998 to 2023 (17 zone-level)		Storm Surge/Tide, 2002-12-19, \$500,000 property; crops not reported (2002 dollars)		Event records naming jurisdictions in the plan: Imperial Beach city (1 record), Oceanside city (1 record), Solana Beach city (1 record). Zone-level records (17) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	11 records, 1998 to 2022 (11 zone-level)	1 day to 5 days (median 2 days); 8 with a recorded value	5 consecutive days, 2002-01-30 to 2002-02-03, zone-level		Countywide (zone-level records).	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's Cold Wave definition)	crop damage	9 records, 2004 to 2022 (9 zone-level)		Frost/Freeze, 2007-01-13, \$73,100,000 crop damage (2007 dollars); NWS zone CAZ050		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	27 records, 2004 to 2009 (27 zone-level)	1 day to 365 days (median 206 days); 4 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		Countywide (zone-level records).	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	53 records, 1958 to 2024 (1 zone-level)	0.25 in to 1.75 in (median 0.88 in); 52 with a recorded value	1.75 in hail, 2008-09-11; same size also recorded on 1975-09-16	Hail, 1998-03-28, property not reported; \$300,000 crops (zone total, 1998 dollars)	Event records naming jurisdictions in the plan: Escondido city (3 records), San Diego city (2 records), Del Mar city (1 record), National City city (1 record), Solana Beach city (1 record). Zone-level records (1) apply countywide.	
Excessive Heat, Heat	heat index (in event narratives)	117 records, 1997 to 2025 (117 zone-level)	1 day to 13 days (median 3 days); 79 with a recorded value	13 consecutive days, 2024-07-01 to 2024-07-13, zone-level	Excessive Heat, 2019-08-02, \$500,000 property; \$0 crops (zone total, 2019 dollars)	Countywide (zone-level records).	Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	1 record, 2023 (1 zone-level)		Strongest recorded: Tropical Storm record, 2023-08-20 to 2023-08-21, \$0 property; \$0 crops (2023 dollars); NWS zone CAZ057		Countywide (zone-level records).	Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	503 records, 1997 to 2026 (8 zone-level)		Flash Flood, 2024-01-22, \$30,000,000 property; \$0 crops (2024 dollars)		Event records naming jurisdictions in the plan: Carlsbad city (17 records), Escondido city (9 records), Oceanside city (8 records), San Diego city (8 records), Encinitas city (7 records), La Mesa city (7 records), Lemon Grove city (6 records), San Marcos city (6 records), Solana Beach city (6 records), Vista city (5 records); and 7 more jurisdictions (see the Excel file). Zone-level records (8) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	39 records, 2003 to 2024 (9 zone-level)		Debris Flow, 2007-10-03, \$48,000,000 property; \$0 crops (2007 dollars); NWS zone CAZ043		Event records naming jurisdictions in the plan: El Cajon city (1 record), Poway city (1 record). Zone-level records (9) apply countywide.	
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	43 records, 1997 to 2023		Lightning, 2001-09-02, damage not reported, 1 direct death, 1 direct injury	Lightning, 2021-10-04, \$30,000 property; \$0 crops (2021 dollars)	Event records naming jurisdictions in the plan: San Diego city (4 records), Del Mar city (2 records), La Mesa city (2 records), Lemon Grove city (2 records), Poway city (2 records), Chula Vista city (1 record), Coronado city (1 record), Escondido city (1 record), Oceanside city (1 record), Solana Beach city (1 record).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	436 records, 1996 to 2026 (434 zone- level)	22 kt (25 mph) to 104 kt (120 mph) (median 58 kt (67 mph)); 432 with a recorded value	104 kt (120 mph), measurement type not recorded, High Wind, 1999-12-03; NWS zone CAZ057	High Wind, 2003-01-07, \$203,000 property; \$28,000,000 crops (zone total, 2003 dollars)	Event records naming jurisdictions in the plan: Carlsbad city (1 record), San Marcos city (1 record). Zone-level records (434) apply countywide.	
Thunderstorm Wind	wind speed (kt and mph)	118 records, 1955 to 2026	30 kt (35 mph) to 64 kt (74 mph) (median 50 kt (58 mph)); 104 with a recorded value	64 kt (74 mph) measured, Thunderstorm Wind, 2000-08-17	Thunderstorm Wind, 2004-12-29, \$5,000,000 property; crops not reported (2004 dollars)	Event records naming jurisdictions in the plan: Oceanside city (4 records), San Diego city (4 records), Chula Vista city (2 records), Encinitas city (2 records), Imperial Beach city (2 records), Vista city (2 records), Carlsbad city (1 record), El Cajon city (1 record), Poway city (1 record), San Marcos city (1 record).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	27 records, 1956 to 2019	F/EF0 to F/EF1 (median F/EF0); 25 with a recorded value	F1 tornado, 1961-10-08, 33 yd wide, \$25,000 property; crops not recorded (1961 dollars), 3 direct injuries	Tornado, 1991-03-19, \$250,000 property; crops not recorded (1991 dollars)	Event records naming jurisdictions in the plan: Encinitas city (2 records), Chula Vista city (1 record), Oceanside city (1 record), Poway city (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Tsunami	none (count and damage only)	3 records, 2010 to 2022 (3 zone-level)		Tsunami, 2011-03-11, \$250,000 property; \$0 crops (2011 dollars); NWS zone CAZ043		Countywide (zone-level records).	
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					
Wildfire	acres burned (local data)	198 records, 1996 to 2025 (93 zone-level)		Wildfire, 2003-10-25, \$1,040,000,000 property; \$6,500,000 crops (2003 dollars), 14 direct deaths, 90 direct injuries		Event records naming jurisdictions in the plan: Poway city (4 records), Escondido city (3 records), El Cajon city (2 records), Santee city (2 records), Carlsbad city (1 record), Chula Vista city (1 record), Imperial Beach city (1 record), Oceanside city (1 record), San Diego city (1 record). Zone-level records (93) apply countywide.	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	80 records, 1997 to 2025 (80 zone-level)		Winter Storm, 2008-02-14, \$250,000 property; \$0 crops (2008 dollars), 4 direct injuries (reported for the zone); NWS zone CAZ058		Countywide (zone-level records).	

Where a hazard names more than 10 jurisdictions, the table lists the 10 with the most records; every one is in the Excel file, sheet "B1-c Extent".

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

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

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 51 declarations covering 39 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2024-02-19	2024-01-21	DR-4758-CA	Major disaster	Severe Storm and Flooding	Inland Flooding	PA not declared for this county	new since last plan; within last 5 years	
2023-01-14	2022-12-27	DR-4683-CA	Major disaster	Severe Winter Storms, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide, Winter Weather	\$7,906,644.57	in the 12 months before plan approval; 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	no Public Assistance recorded	in the 12 months before plan approval; within last 5 years	same incident as DR-4683
2020-10-16	2020-09-04	DR-4569-CA	Major disaster	Wildfires	Wildfire	\$483,896.15		
2020-03-22	2020-01-20	DR-4482-CA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$538,668,102.28		
2020-03-13	2020-01-20	EM-3428-CA	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4482
2018-07-06	2018-07-06	FM-5251-CA	Fire management	West Fire	Wildfire	no Public Assistance recorded		
2018-01-02	2017-12-04	DR-4353-CA	Major disaster	Wildfires, Flooding, Mudflows, and Debris Flows	Wildfire	PA not declared for this county		
2017-12-08	2017-12-04	EM-3396-CA	Emergency	Wildfires	Wildfire	no Public Assistance recorded		same incident as DR-4353
2017-12-07	2017-12-07	FM-5228-CA	Fire management	Lilac Fire	Wildfire	no Public Assistance recorded		same incident as DR-4353
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	\$5,254,491.24		
2016-06-19	2016-06-19	FM-5128-CA	Fire management	Border 3 Fire	Wildfire	no Public Assistance recorded		
2014-05-14	2014-05-14	FM-5055-CA	Fire management	Cocos Fire	Wildfire	no Public Assistance recorded		
2014-05-14	2014-05-14	FM-5054-CA	Fire management	Poinsettia Fire	Wildfire	no Public Assistance recorded		
2012-09-24	2012-09-23	FM-5021-CA	Fire management	Shockey Fire	Wildfire	no Public Assistance recorded		
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	\$7,841,781.36		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2007-10-24	2007-10-21	DR-1731-CA	Major disaster	Wildfires, Flooding, Mud Flows, and Debris Flows	Wildfire	\$40,717,176.06		
2007-10-23	2007-10-21	EM-3279-CA	Emergency	Wildfires	Wildfire	no Public Assistance recorded		same incident as DR-1731
2007-10-22	2007-10-22	FM-2739-CA	Fire management	Rice Fire	Wildfire	no Public Assistance recorded		same incident as DR-1731
2007-10-21	2007-10-21	FM-2735-CA	Fire management	Harris Fire	Wildfire	no Public Assistance recorded		same incident as DR-1731
2007-10-21	2007-10-22	FM-2734-CA	Fire management	Witch Fire	Wildfire	no Public Assistance recorded		same incident as DR-1731
2007-09-15	2007-09-15	FM-2729-CA	Fire management	Angel Fire	Wildfire	no Public Assistance recorded		
2007-03-13	2007-01-11	DR-1689-CA	Major disaster	Severe Freeze	Cold Wave	PA not declared for this county		
2006-07-24	2006-07-24	FM-2656-CA	Fire management	Horse Fire	Wildfire	no Public Assistance recorded		
2005-10-06	2005-10-05	FM-2585-CA	Fire management	Border # 50 Fire	Wildfire	no Public Assistance recorded		
2005-09-13	2005-08-29	EM-3248-CA	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	\$54,240.05		
2005-09-05	2005-09-05	FM-2582-CA	Fire management	Sundevil Fire	Wildfire	no Public Assistance recorded		
2005-04-14	2005-02-16	DR-1585-CA	Major disaster	Severe Storms, Flooding, Landslides, and Mud and Debris Flows	Inland Flooding; Landslide	\$7,763,163.85		
2005-02-04	2004-12-27	DR-1577-CA	Major disaster	Severe Storms, Flooding, Debris Flows, and Mudslides	Inland Flooding; Landslide	\$9,232,042.83		
2004-07-14	2004-07-13	FM-2529-CA	Fire management	Ca - Mataguay Fire - 7-13-2004	Wildfire	no Public Assistance recorded		
2003-10-27	2003-10-21	DR-1498-CA	Major disaster	Wildfires, Flooding, Mudflow and Debris Flow Directly Related T	Wildfire	\$21,054,829.98		
2003-10-26	2003-10-26	FM-2506-CA	Fire management	Paradise Fire	Wildfire	no Public Assistance recorded		same incident as DR-1498
2003-10-26	2003-10-25	FM-2505-CA	Fire management	Ca-Cedar Fire-10-26-2003	Wildfire	no Public Assistance recorded		same incident as DR-1498
2002-07-30	2002-07-29	FM-2456-CA	Fire management	Ca - Pines Fire - 07/30/02	Wildfire	no Public Assistance recorded		
2002-02-11	2002-02-10	FM-2396-CA	Fire management	Gavilan Fire	Wildfire	no Public Assistance recorded		
1998-02-09	1998-02-02	DR-1203-CA	Major disaster	Severe Winter Storms and Flooding	Inland Flooding; Winter Weather	no Public Assistance recorded		
1996-10-23	1996-10-21	EM-3120-CA	Emergency	Severe Firestorms	Wildfire	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1995-03-12	1995-02-13	DR-1046-CA	Major disaster	Severe Winter Storms, Flooding Landslides, Mud Flow	Inland Flooding; Landslide; Winter Weather	no Public Assistance recorded		
1995-01-10	1995-01-03	DR-1044-CA	Major disaster	Severe Winter Storms, Flooding, Landslides, Mud Flows	Inland Flooding; Landslide; Winter Weather	no Public Assistance recorded		
1993-10-28	1993-10-26	DR-1005-CA	Major disaster	Fires, Mud/Landslides, Flooding, Soil Erosion	Wildfire (primary); also designated: Inland Flooding, Landslide	no Public Assistance recorded		
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	no Public Assistance recorded		
1991-02-11	1990-12-19	DR-894-CA	Major disaster	Severe Freeze	Cold Wave	PA not declared for this county		
1988-02-05	1988-01-17	DR-812-CA	Major disaster	Severe Storms, High Tides & Flooding	Inland Flooding (primary); also designated: Coastal Flooding	no Public Assistance recorded		
1985-07-18	1985-06-26	DR-739-CA	Major disaster	Grass, Wildlands, & Forest Fires	Wildfire	no Public Assistance recorded		
1983-02-09	1983-01-21	DR-677-CA	Major disaster	Coastal Storms, Floods, Slides & Tornadoes	Coastal Flooding; Inland Flooding; Landslide; Tornado	no Public Assistance recorded		
1980-02-21	1980-01-08	DR-615-CA	Major disaster	Severe Storms, Mudslides & Flooding	Inland Flooding (primary); also designated: Landslide	no Public Assistance recorded		
1978-02-15	1978-02-15	DR-547-CA	Major disaster	Coastal Storms, Mudslides & Flooding	Coastal Flooding (primary); also designated: Landslide	no Public Assistance recorded		
1973-02-08	1973-02-08	DR-364-CA	Major disaster	Severe Storms, High Tides & Flooding	Inland Flooding (primary); also designated: Coastal Flooding	no Public Assistance recorded		
1970-09-29	1970-09-29	DR-295-CA	Major disaster	Forest & Brush Fires	Wildfire	no Public Assistance recorded		
1967-01-02	1967-01-02	DR-223-CA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1965-12-07	1965-12-07	DR-211-CA	Major disaster	Heavy Rains & Flooding	Inland Flooding	no Public Assistance recorded		

School districts and special districts in this county: \$6,438,476.47 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan participants in this county. They have no row of their own in the jurisdiction table, so their total is listed here. These dollars are already included in the county PA column of the declarations table (the FEMA record places each applicant in this county), so this line is not added to it.

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

Statewide declarations

Source: 2

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

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

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

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Avalanche	1	0	0	0	0	0	1996 to 2026-06-30	
Coastal Flooding	24	0	1	1	4	0	1996 to 2026-06-30	
Cold Wave	20	0	0	6	2	0	1996 to 2026-06-30	Includes 9 Frost/Freeze records.
Drought	27	0	0	0	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	53	2	2	4	0	0	1955 to 2026-06-30	
Heat Wave	117	15	8	28	0	0	1996 to 2026-06-30	
Hurricane	1	1	0	1	0	0	1996 to 2026-06-30	
Inland Flooding	503	84	56	149	17	1	1996 to 2026-06-30	

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Landslide	39	2	7	9	11	0	1996 to 2026-06-30	
Lightning	43	2	2	6	0	0	1996 to 2026-06-30	
Strong Wind	554	40	46	112	0	0	1955 to 2026-06-30	Includes 369 High Wind and 67 Strong Wind records.
Tornado	27	0	0	0	1	0	1950 to 2026-06-30	
Tsunami	3	0	0	1	0	0	1996 to 2026-06-30	
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	198	12	9	23	20	0	1996 to 2026-06-30	
Winter Weather	80	7	9	19	7	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2024-01-22	Flash Flood		\$30,000,000 property; \$0 crops (2024 dollars)	0, 0	ENCANTO	new since last plan; within last 5 years	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2011-03-11	Tsunami		\$250,000 property; \$0 crops (zone total, 2011 dollars)	0, 0	NWS zone CAZ043 (SAN DIEGO COUNTY COASTAL AREAS), zone-level		B1-c worst recorded: Tsunami
2008-09-11	Hail	1.75 in	\$0 property; \$0 crops (2008 dollars)	0, 0	RANCHITA		B1-c worst recorded: Hail
2007-10-21	Wildfire		\$75,000,000 property; \$0 crops (zone total, 2007 dollars)	8, 61	NWS zone CAZ050 (SAN DIEGO COUNTY VALLEYS), zone-level		deaths or injuries recorded
2007-10-03	Debris Flow		\$48,000,000 property; \$0 crops (zone total, 2007 dollars)	0, 0	NWS zone CAZ043 (SAN DIEGO COUNTY COASTAL AREAS), zone-level		B1-c worst recorded: Debris Flow
2003-10-25	Wildfire		\$1,040,000,000 property; \$6,500,000 crops (2003 dollars)	14, 90	PINE HILLS		deaths or injuries recorded
2002-12-19	Storm Surge/ Tide		\$500,000 property; crops not reported (2002 dollars)	0, 0	OCEANSIDE		B1-c worst recorded: Coastal Flood, Storm Surge/Tide
2001-09-02	Lightning		damage not reported	1, 1	JULIAN		B1-c worst recorded: Lightning
2000-08-17	Thunderstorm Wind	64 kt (74 mph) measured	damage not reported	0, 0	OCOTILLO WELLS		B1-c worst recorded: Thunderstorm Wind
1999-12-03	High Wind	104 kt (120 mph), measurement type not recorded	\$20,000 property; crops not reported (zone total, 1999 dollars)	0, 0	NWS zone CAZ057 (SANTA ANA MOUNTAINS AND FOOTHILLS), zone-level		B1-c worst recorded: High Wind and Strong Wind
1997-01-07	Winter Weather		damage not reported	14, 0	NWS zone CAZ058 (SAN DIEGO COUNTY MOUNTAINS), zone-level		deaths or injuries recorded
1961-10-08	Tornado	F1, 33 yd wide	\$25,000 property; crops not recorded (1961 dollars)	0, 3	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,690 rows).

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

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

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

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

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1994 to 2023 (30 years)	see B1-f	0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events.
Coastal Flooding	1.65	events per year at a location (modeled)	about 1.6 per year at a given location in the county	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	Descriptor from NRI: the rate at a location is 1 or more a year, so the county rate is at least that.
Cold Wave	0.0000604	event-days per year	about 0.0000604 days per year	Likely	Storm Events event-days in 5 of 30 years, 1996 to 2025 (16.7%)	0.00107	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	54.1	event-days per year	about 54.1 days per year	Likely	Storm Events event-days in 4 of 30 years, 1996 to 2025 (13.3%)	1,659	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.106	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 10.6%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.0962	events per year	about 1 in 10 years	Possible	FEMA annualized frequency (modeled)	3.7 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	10.3	event-days per year	about 10.3 days per year	Likely	Storm Events event-days in 23 of 30 years, 1996 to 2025 (76.7%)	107	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0107	events per year	about 1 in 94 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 in B1-d.
Inland Flooding	7.89	event-days per year	about 7.89 days per year	Highly likely	Storm Events event-days in 29 of 30 years, 1996 to 2025 (96.7%)	221	1996 to 2023 (28 years)	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area- weighted, so can be fractional)	NRI period	Location	Note
Landslide	177	events per year (modeled)	about 177 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	11.1	days per year with a strike	about 11.1 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.186	events per year	about 1 in 5 years	Likely	FEMA annualized frequency (modeled)	7	1986 to 2023 (38 years)	countywide	
Tornado	0.306	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami	0.388	annual probability at the most exposed location (used in place of a county value)	chance at the county's most exposed location in a year: 38.8%	Likely	Storm Events records in 3 of 30 years, 1996 to 2025 (10%)	not shown	modeled	see B1-f	
Volcanic Activity	0.0001	annual probability	about 1 in 10,000 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.0261	annual probability at a location	chance a given location in the county burns in a year: 2.61%	Highly likely	Storm Events records in 30 of 30 years, 1996 to 2025 (100%)	not shown	modeled	see B1-f	
Winter Weather	3.67	event-days per year	about 3.67 days per year	Highly likely	Storm Events event-days in 28 of 30 years, 1996 to 2025 (93.3%)	65.3	2005-11-12 to 2024-11-12 (19 years)	countywide	

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

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

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	19	30	0.633
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	68	30	2.27
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	42	30	1.4
Tornado	EF0-1	1996 to 2025	12	30	0.4
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	1	30	0.0333

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Avalanche	10 of 736	14.9	19.4	24.4	Very Low 10, Not Applicable 726
Coastal Flooding	94 of 736	69.6	80.3	98.4	Relatively High 3, Relatively Moderate 11, Relatively Low 55, Very Low 25, No Rating 642
Cold Wave	2 of 736	15.7	16.1	16.5	Very Low 2, No Rating 734
Drought	53 of 736	67.5	81.0	93.9	Relatively Moderate 3, Relatively Low 29, Very Low 21, No Rating 683
Earthquake	736 of 736	48.6	84.5	99.9	Very High 16, Relatively High 133, Relatively Moderate 519, Relatively Low 68
Hail	736 of 736	0.7	20.1	57.3	Relatively Low 18, Very Low 718
Heat Wave	736 of 736	1.5	36.2	91.6	Relatively High 6, Relatively Moderate 155, Relatively Low 487, Very Low 88
Hurricane	736 of 736	9.3	9.9	22.2	Very Low 736
Inland Flooding	736 of 736	0.2	56.7	99.9	Very High 35, Relatively High 170, Relatively Moderate 236, Relatively Low 227, Very Low 68
Landslide	729 of 736	10.1	69.0	100.0	Very High 1, Relatively High 10, Relatively Moderate 37, Relatively Low 173, Very Low 508, No Rating 7
Lightning	736 of 736	0.1	6.5	31.7	Relatively Low 3, Very Low 733
Strong Wind	736 of 736	0.2	7.6	64.4	Relatively Moderate 1, Relatively Low 9, Very Low 726
Tornado	736 of 736	1.1	4.1	46.1	Relatively Low 8, Very Low 728
Tsunami	67 of 736	12.2	32.5	87.0	Relatively Moderate 1, Relatively Low 22, Very Low 44, No Rating 17, Not Applicable 652
Volcanic Activity	8 of 736	41.5	48.4	63.9	Very Low 8, No Rating 728
Wildfire	461 of 736	18.5	79.8	100.0	Very High 56, Relatively High 54, Relatively Moderate 78, Relatively Low 107, Very Low 166, No Rating 275
Winter Weather	326 of 736	10.5	17.6	64.6	Relatively Moderate 4, Relatively Low 107, Very Low 215, No Rating 410

Cold Wave: Agriculture is 99% of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

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

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

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

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

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
San Diego County	County	Approved, expires 2028-03-30	FMA RL 1, SRL 6; any 31	\$372,031,850.14	0 total; 0 since its plan	Includes \$331,011,817.27 for declarations not counted as hazard incidents (DR-4482-CA).
Carlsbad city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 0	\$1,179,303.89	20 total; 10 since its plan	Includes \$981,353.11 for declarations not counted as hazard incidents (DR-4482-CA).
Chula Vista city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 1	\$2,791,085.26	6 total; 0 since its plan	Includes \$1,286,004.68 for declarations not counted as hazard incidents (DR-4482-CA).
Coronado city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 5	\$591,351.59	5 total; 2 since its plan	Includes \$552,616.85 for declarations not counted as hazard incidents (DR-4482-CA).
Del Mar city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 17	\$40,786.12	4 total; 0 since its plan	
El Cajon city	City	Approved, expires 2028-03-30	FMA RL 1, SRL 1; any 2	\$467,741.46	8 total; 0 since its plan	Includes \$99,085.57 for declarations not counted as hazard incidents (DR-4482-CA).
Encinitas city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 2	\$3,338,674.64	11 total; 2 since its plan	Includes \$10,942.99 for declarations not counted as hazard incidents (DR-4482-CA).
Escondido city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 2	\$1,249,471.40	16 total; 0 since its plan	
Imperial Beach city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 4	\$4,806	5 total; 1 since its plan	
La Mesa city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 1; any 3	\$313,958.96	9 total; 3 since its plan	
Lemon Grove city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 0	\$6,289.35	8 total; 0 since its plan	
National City city	City	Approved, expires 2028-03-30	FMA RL 1, SRL 0; any 8	\$470,128.25	2 total; 0 since its plan	Includes \$296,716.33 for declarations not counted as hazard incidents (DR-4482-CA).
Oceanside city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 12	\$1,246,282.04	16 total; 1 since its plan	Includes \$185,366.50 for declarations not counted as hazard incidents (DR-4482-CA).
Poway city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 2; any 7	\$2,755,013.39	13 total; 0 since its plan	Includes \$358,376.92 for declarations not counted as hazard incidents (DR-4482-CA, EM-3248-CA).
San Diego city	City	Approved, expires 2028-03-30	FMA RL 5, SRL 10; any 71	\$27,612,017.74	19 total; 1 since its plan	Includes \$4,035,535.77 for declarations not counted as hazard incidents (DR-4482-CA).
San Marcos city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 1	\$197,005.68	8 total; 0 since its plan	Includes \$85,126.30 for declarations not counted as hazard incidents (DR-4482-CA).
Santee city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 0	\$602,325.04	2 total; 0 since its plan	

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Solana Beach city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 3; any 7	\$12,944.64	9 total; 2 since its plan	
Vista city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 1; any 1	\$25,152.31	7 total; 0 since its plan	

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

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

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2023-03-31 <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	\$19,055,980	n/a	under 1	\$20	n/a	\$117	0.000105%				
Coastal Flooding	\$34,168,064,849	n/a	182,533	\$1,466,190	n/a	\$470	0.00429%				
Cold Wave	\$731,518,130	\$55,410,170	157	\$1	\$516	\$4	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2023-03-31 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Drought	n/a	\$921,414,160	n/a	n/a	\$298,802	n/a	0.0324% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$1,093,329,262,157	n/a	3,298,634	\$327,511,685	n/a	\$98,628,430	0.03%				
Hail	\$638,825,464,234	\$1,070,494,224	3,295,981	\$781,962	\$12,428	\$30,789	0.000122%	\$20,000			
Heat Wave	\$638,824,205,866	\$1,070,494,224	3,295,977	\$31,808	\$344,998	\$23,774,010	under 0.0001%		\$0		
Hurricane	\$638,824,927,283	\$1,070,494,224	3,295,981	\$767	\$649	\$0	under 0.0001%		\$0		
Inland Flooding	\$638,635,713,824	\$229,693,527	59,488	\$641,850,673	\$794,136	\$4,962,301	n/a (see note)	\$30,570,000		no Public Assistance recorded (1 declaration)	NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$42,278,317,398	n/a	178,236	\$1,285,551	n/a	\$1,805,694	0.00304%	\$30,000			
Lightning	\$638,825,464,234	n/a	3,295,981	\$9,300	n/a	\$819,426	under 0.0001%	\$2,000			

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>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2023-03-31 <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	\$638,825,464,234	\$1,070,494,224	3,295,981	\$295,340	\$87,884	\$258,816	under 0.0001%	\$77,000	\$42,000		Storm Events damage since the plan includes 2 zone-level High Wind records (\$40,000) and 2 zone-level Strong Wind records (\$2,000): NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition.
Tornado	\$638,825,464,234	\$1,070,494,224	3,295,981	\$1,975,342	\$7,795	\$289,715	0.000309%				
Tsunami	\$24,816,682,427	n/a	28,056	\$1,632,995	n/a	\$0	0.00658%				
Volcanic Activity	\$638,825,464,234	n/a	3,295,981	under \$1	n/a	\$3	under 0.0001%				
Wildfire	\$62,957,592,084	\$921,545,934	323,074	\$415,265,285	\$73,994	\$14,816,709	0.66%		\$50,295,000		
Winter Weather	\$276,333,896,501	\$1,028,369,472	1,437,015	\$963	under \$1	\$65,704	under 0.0001%		\$0		

Totals since 2023-03-31 (Storm Events through 2026-06-30): 106 county-coded records, 102 with a damage value recorded (including \$0), \$30,699,000; 59 zone-level records, 57 with a damage value recorded (including \$0), \$50,337,000 reported for the zone; Public Assistance: none recorded on the 1 counted declaration.

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

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

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

County context

Source: 5

Measure	Value
Population	3,295,981
Building value (total, not at risk)	\$638,825,464,234
Agriculture value (total, not at risk)	\$1,070,494,224
NRI risk rating (all hazards)	Very High
Expected annual loss, buildings and agriculture, all hazards	\$1,393,729,084
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)	\$145,452,188
Social vulnerability rating	Relatively Low
Community resilience rating	Very Low
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	8	Severe repetitive loss, FMA definition (44 CFR 77.2)	24
Repetitive loss, NFIP insurance definition	170	Severe repetitive loss, NFIP insurance definition	19

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	8	24	170	19	175	0	74
of which: San Diego County (unincorporated area)	1	6	30	5	31	0	9
of which: Coronado city	0	0	5	0	5	0	3
of which: Del Mar city	0	0	17	0	17	0	10
of which: El Cajon city	1	1	2	1	2	0	1

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>
of which: Escondido city	0	0	2	0	2	0	0
of which: Imperial Beach city	0	0	4	0	4	0	0
of which: La Mesa city	0	1	3	1	3	0	1
of which: National City city	1	0	8	0	8	0	5
of which: Oceanside city	0	0	12	0	12	0	3
of which: San Diego city	5	10	68	7	71	0	34
of which: San Marcos city	0	0	1	0	1	0	1
of which: Vista city	0	1	1	1	1	0	0
of which: Poway city	0	2	6	1	7	0	3
of which: Solana Beach city	0	3	7	3	7	0	2
of which: Encinitas city	0	0	2	0	2	0	2
of which: Chula Vista city	0	0	1	0	1	0	0
of which: Unknown (community ID Unknown in FEMA data)	0	0	1	0	1	0	0
Statewide, no county in FEMA's file	0	1	3	0	4	1	0

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

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

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
San Diego County	060284	1	6	30	5	31	0	9
Carlsbad city	060285	0	0	0	0	0	0	0
Chula Vista city	065021	0	0	1	0	1	0	0
Coronado city	060287	0	0	5	0	5	0	3
Del Mar city	060288	0	0	17	0	17	0	10
El Cajon city	060289	1	1	2	1	2	0	1
Encinitas city	060726	0	0	2	0	2	0	2
Escondido city	060290	0	0	2	0	2	0	0
Imperial Beach city	060291	0	0	4	0	4	0	0
La Mesa city	060292	0	1	3	1	3	0	1
Lemon Grove city	060723	0	0	0	0	0	0	0
National City city	060293	1	0	8	0	8	0	5
Oceanside city	060294	0	0	12	0	12	0	3
Poway city	060702	0	2	6	1	7	0	3
San Diego city	060295	5	10	68	7	71	0	34
San Marcos city	060296	0	0	1	0	1	0	1

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Santee city	060703	0	0	0	0	0	0	0
Solana Beach city	060725	0	3	7	3	7	0	2
Vista city	060297	0	1	1	1	1	0	0

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

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

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	8	15	94	10	99	0	45
2 to 4 unit residential	0	3	19	3	19	0	4
other residential	0	0	17	0	17	0	12
non-residential	0	6	40	6	40	0	13
not reported	0	0	0	0	0	0	0

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

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

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

In this county 1 property is FMA repetitive loss but not NFIP repetitive loss, and 163 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_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_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/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)

What this packet is and what the plan adds

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

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

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

OpenFEMA disclaimer

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

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Cite this: Hazard Plain (2026). San Diego County, CA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 06073). Automated baseline. <https://hazardplain.org/ca/06073/> Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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