

Solano County, CA

Risk-assessment baseline packet

County FIPS: 06095 **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 2027-03-14. Plan: Solano County (FEMA plan 107900), approved 2022-03-15.

Since the plan was approved on 2022-03-15: 3 new hazard declarations (2 incidents): EM-3591-CA (Severe Winter Storms, Flooding, and Mudslides), DR-4683-CA (Severe Winter Storms, Flooding, Landslides, and Mudslides), DR-4699-CA (Severe Winter Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides).

NOAA Storm Events records since that date: 54 records (data through 2026-06-30).

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$141,076,650 a year), Earthquake (\$128,471,023) and Drought (\$11,781,829).

Repetitive-loss flood properties now: FMA RL 3, SRL 7 (44 CFR 77.2); any definition: 57.

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; 06095 is this area.

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

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

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

CFR: Code of Federal Regulations.

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

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

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Plan clock

Status:	Approved, expires 2027-03-14	Plan:	Solano County (FEMA plan 107900)
Approved:	2022-03-15	Days to expiry:	165
Update underway:	none recorded in FEMA's plan tracker		

What changed since your last plan (approved 2022-03-15)

New federal declarations:	3 new hazard declarations (2 incidents): EM-3591-CA (Severe Winter Storms, Flooding, and Mudslides), DR-4683-CA (Severe Winter Storms, Flooding, Landslides, and Mudslides), DR-4699-CA (Severe Winter Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides)	Storm Events records since approval:	54 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 3, SRL 7 (44 CFR 77.2); any definition: 57	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

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Notes
Solano County	County	Approved, expires 2027-03-14	Solano County (FEMA plan 107900)	2022-03-15	2027-03-14	165	
Benicia city	City	Approved, expires 2027-03-14	Solano County (FEMA plan 107900)	2022-03-15	2027-03-14	165	
Dixon city	City	Approved, expires 2027-03-14	Solano County (FEMA plan 107900)	2022-03-15	2027-03-14	165	
Fairfield city	City	Approved, expires 2027-03-14	Solano County (FEMA plan 107900)	2022-03-15	2027-03-14	165	
Rio Vista city	City	Approved, expires 2027-03-14	Solano County (FEMA plan 107900)	2022-03-15	2027-03-14	165	
Suisun City city	City	Approved, expires 2027-03-14	Solano County (FEMA plan 107900)	2022-03-15	2027-03-14	165	
Vacaville city	City	Approved, expires 2027-03-14	Solano County (FEMA plan 107900)	2022-03-15	2027-03-14	165	
Vallejo city	City	Approved, expires 2027-03-14	Solano County (FEMA plan 107900)	2022-03-15	2027-03-14	165	
Solano County Transit	Special District	Approved, expires 2027-11-09	Metropolitan Transportation Commission (FEMA plan 110161)	2022-11-10	2027-11-09	405	this jurisdiction approved 2023-11-17
Solano County Water Agency	Water/Sewer Authority	Approved, expires 2027-03-14	Solano County (FEMA plan 107900)	2022-03-15	2027-03-14	165	
Vallejo Flood and Wastewater District	Water/Sewer Authority	Approved, expires 2027-03-14	Solano County (FEMA plan 107900)	2022-03-15	2027-03-14	165	

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

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>	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Relatively High	Relatively High	\$140,411,536	\$30,176	\$634,937	\$141,076,650	40		
2	Earthquake	Relatively High	Relatively High	\$100,982,623	n/a	\$27,488,401	\$128,471,023			Storm Events does not record earthquakes.
3	Drought	Relatively High	Relatively High	n/a	\$11,781,829	n/a	\$11,781,829	47		
4	Coastal Flooding	Relatively High	Relatively High	\$3,495,528	n/a	\$16,419	\$3,511,946	0		Declared 2 times; no Storm Events record of this type.
5	Wildfire	Relatively Moderate	Relatively Moderate	\$3,170,357	\$2,185	\$305,524	\$3,478,066	12		
6	Heat Wave	Relatively Low	Relatively Low	\$145	\$97,672	\$1,346,196	\$1,444,013	48		
7	Landslide	Relatively High	Relatively Moderate	\$354,230	n/a	\$539,464	\$893,694	0		Declared 10 times; no Storm Events record of this type.
8	Tornado	Relatively Low	Relatively Low	\$555,809	\$953	\$165,237	\$721,999	3		
9	Lightning	Relatively Moderate	Relatively Moderate	\$25,421	n/a	\$354,411	\$379,832	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
10	Strong Wind	Relatively Low	Relatively Low	\$61,272	\$213	\$110,068	\$171,552	61		Includes 35 High Wind and 26 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).

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>	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
11	Tsunami	Very Low	Very Low	\$101,287	n/a	\$0	\$101,287	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Hail	Very Low	Very Low	\$19,020	\$5,129	\$47,193	\$71,342	5		
13	Winter Weather	Very Low	Very Low	\$36	under \$1	\$3,378	\$3,413	3		
14	Volcanic Activity	Very Low	Very Low	under \$1	n/a	\$107	\$108	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Avalanche	Very Low	Very Low	\$0	n/a	under \$1	under \$1	1		
16	Cold Wave	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	29		Includes 8 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
	Hurricane	Not Applicable	Not Applicable					0	NRI rates hurricane Not Applicable for this county, and no counted federal declaration for this county names it (EM-3248-CA names it but is not counted as a local occurrence; see B1-d).	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Ice Storm	Not Applicable	Not Applicable					0		Declared 1 time; no Storm Events record of this type.

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 landslide, lightning, tsunami and volcanic activity records (Storm Events records these hazards only in part).

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

Supports FEMA checklist item B1-b: hazard location

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

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 2529.03 (Very Low, 0.3)
Earthquake	tract 2521.02 (Very High, 99.9); tract 2529.04 (Very High, 99.2); tract 2509 (Very High, 98.9)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 2529.03 (Relatively High, 99.9); tract 2501.06 (Relatively High, 99.5); tract 2523.10 (Relatively High, 99.3)
Tornado	tract 2521.02 (Relatively Low, 35.6); tract 2529.04 (Relatively Low, 31.8); tract 2524.02 (Very Low, 27.8)
Tsunami	tract 2521.02 (Relatively Low, 69.0); tract 2508.01 (Relatively Low, 55.4); tract 2516 (Very Low, 38.0)
Volcanic Activity	tract 2534.02 (Very Low, 76.8); tract 2530 (Very Low, 75.5); tract 2535.01 (Very Low, 75.2)
Wildfire	tract 2529.03 (Relatively High, 98.5); tract 2535.01 (Relatively High, 97.2); tract 2523.10 (Relatively High, 97.0)

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 2529.03 is Census Tract 2529.03). 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, 2023 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	Physical measure: in event narratives only (local data needed).
Coastal Flood, Storm Surge/ Tide	none in data (flood depth: FIRM)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	21 records, 1998 to 2025 (21 zone-level)	1 day to 4 days (median 1 day); 9 with a recorded value	4 consecutive days, 2023-11-24 to 2023-11-27, zone-level		Countywide (zone-level records).	Wind chill: in event narratives only (local data needed). 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	8 records, 2005 to 2024 (8 zone-level)		Frost/Freeze, 2007-01-14, \$5,000,000 crop damage (2007 dollars); NWS zone CAZ017		Countywide (zone-level records).	Temperature: in event narratives only (local data needed).
Drought	U.S. Drought Monitor scale (D0 to D4)	47 records, 2014 to 2023 (47 zone-level)	31 days to 460 days (median 122 days); 7 with a recorded value	460 days (about 15.1 months), 2021-10-08 to 2023-01-10, a run of 16 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)	6 records, 1981 to 2026	0.75 in to 1.5 in (median 0.75 in); 6 with a recorded value	1.5 in hail, 2026-04-10	Hail, 2010-01-19, \$100,000 property; crops not reported (2010 dollars)	No event record names a jurisdiction in the plan.	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Excessive Heat, Heat	heat index (in event narratives)	48 records, 1999 to 2024 (48 zone-level)	1 day to 31 days (median 3 days); 35 with a recorded value	July 2005 (1 monthly summary record), zone-level		Countywide (zone-level records).	Heat index: in event narratives only (local data needed). Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	0					Ice thickness: in event narratives only (local data needed).
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	40 records, 1996 to 2025 (17 zone-level)		Flood, 2006-01-01, \$15,000,000 property; crops not reported (2006 dollars), 1 direct death, 1 direct injury		Event records naming jurisdictions in the plan: Fairfield city (6 records), Vacaville city (3 records), Benicia city (2 records), Dixon city (1 record). Zone-level records (17) 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)	0					Physical measure: in event narratives only (local data needed).
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	0					Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	61 records, 1996 to 2025 (61 zone-level)	33 kt (38 mph) to 87 kt (100 mph) (median 42.5 kt (49 mph)); 60 with a recorded value	87 kt (100 mph), measurement type not recorded, High Wind, 1996-01-01; NWS zone CAZ017	High Wind, 2008-01-04, \$7,407,000 property; crops not reported, reported for the zone (2008 dollars)	Countywide (zone-level records).	Speeds under 20 kt (likely entry errors) are left out of the observed range.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Thunderstorm Wind	wind speed (kt and mph)	1 record, 1988	64 kt (74 mph); 1 with a recorded value	64 kt (74 mph), measurement type not recorded, Thunderstorm Wind, 1988-02-28		No event record names a jurisdiction in the plan.	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	4 records, 1989 to 2011	F/EF0; 4 with a recorded value	EF0 tornado, 2011-04-07, 0.11 mi within this county, 10 yd wide, \$26,000 property; \$0 crops (2011 dollars)		Event records naming jurisdictions in the plan: Vacaville 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).
Tsunami	none (count and damage only)	0					Physical measure: in event narratives only (local data needed).
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only (local data needed).
Wildfire	acres burned (local data)	12 records, 1997 to 2020 (11 zone-level)		Wildfire, 2014-07-04, \$2,500,000 property; crops not reported (2014 dollars); NWS zone CAZ018		Event records naming jurisdictions in the plan: Suisun City city (1 record). Zone-level records (11) apply countywide.	Acres burned: in event narratives only (local data needed).
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	3 records, 1996 to 2009 (3 zone-level)		No damage reported in 3 records.		Countywide (zone-level records).	Snow depth: in event narratives only (local data needed).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records whose zone 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.

A monthly summary record covers most or all of a month; it does not count days at wave conditions.

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 30 declarations covering 24 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
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	\$1,459,769.31	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	\$983,407.40	new since last plan; within last 5 years	
2023-01-09	2023-01-08	EM-3591-CA	Emergency	Severe Winter Storms, Flooding, and Mudslides	Inland Flooding (primary); also designated: Landslide, Winter Weather	no Public Assistance recorded	new since last plan; within last 5 years	same incident as DR-4683
2020-08-22	2020-08-14	DR-4558-CA	Major disaster	Wildfires	Wildfire	\$3,955,844.12		
2020-08-18	2020-08-17	FM-5331-CA	Fire management	Lnu Lightning Fire Complex	Wildfire	no Public Assistance recorded		same incident as DR-4558
2020-03-22	2020-01-20	DR-4482-CA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$13,100,865.13		
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
2017-10-10	2017-10-08	DR-4344-CA	Major disaster	Wildfires	Wildfire	\$823,071.06		
2017-10-09	2017-10-09	FM-5214-CA	Fire management	Atlas Fire	Wildfire	no Public Assistance recorded		same incident as DR-4344
2017-04-01	2017-02-01	DR-4308-CA	Major disaster	Severe Winter Storms, Flooding, and Mudslides	Inland Flooding (primary); also designated: Landslide, Winter Weather	\$786,235.50		
2017-02-14	2017-01-03	DR-4301-CA	Major disaster	Severe Winter Storms, Flooding, and Mudslides	Inland Flooding; Landslide; Winter Weather	\$2,794,240.53		
2015-07-23	2015-07-22	FM-5091-CA	Fire management	Wragg Fire	Wildfire	no Public Assistance recorded		
2014-09-11	2014-08-24	DR-4193-CA	Major disaster	Earthquake	Earthquake	\$3,096,552.55		
2008-06-22	2008-06-21	FM-2776-CA	Fire management	Wild Fire	Wildfire	no Public Assistance recorded		
2006-02-03	2005-12-17	DR-1628-CA	Major disaster	Severe Storms, Flooding, Mudslides, and Landslides	Inland Flooding; Landslide	\$6,542,226.56		
2005-09-13	2005-08-29	EM-3248-CA	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	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		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1997-01-04	1996-12-28	DR-1155-CA	Major disaster	Severe Storms, Flooding, Mud and Landslides	Inland Flooding; Landslide	no Public Assistance recorded		
1995-03-12	1995-02-13	DR-1046-CA	Major disaster	Severe Winter Storms, Flooding Landslides, Mud Flow	Inland Flooding; Landslide; Winter Weather	no Public Assistance recorded		
1995-01-10	1995-01-03	DR-1044-CA	Major disaster	Severe Winter Storms, Flooding, Landslides, Mud Flows	Inland Flooding; Landslide; Winter Weather	no Public Assistance recorded		
1991-02-11	1990-12-19	DR-894-CA	Major disaster	Severe Freeze	Cold Wave	PA not declared for this county		
1989-10-18	1989-10-17	DR-845-CA	Major disaster	Loma Prieta Earthquake	Earthquake	no Public Assistance recorded		
1988-09-29	1988-09-11	DR-815-CA	Major disaster	Wildfires	Wildfire	PA not declared for this county		
1986-02-21	1986-02-12	DR-758-CA	Major disaster	Severe Storms & Flooding	Inland Flooding	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		
1982-01-07	1981-12-19	DR-651-CA	Major disaster	Severe Storms, Flood, Mudslides & High Tide	Inland Flooding (primary); also designated: Landslide	no Public Assistance recorded		
1977-01-20	1977-01-20	EM-3023-CA	Emergency	Drought	Drought	no Public Assistance recorded		
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		
1969-01-26	1969-01-26	DR-253-CA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1964-12-24	1964-12-24	DR-183-CA	Major disaster	Heavy Rains & Flooding	Inland Flooding	no Public Assistance recorded		

School districts and special districts in this county: \$702,263.48 (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 records	In the 12 months before plan approval records	Last 5 years records	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Avalanche	1	1	0	1	0	0	1996 to 2026-06-30	
Coastal Flooding	0	0	0	0	2	0	1996 to 2026-06-30	No Storm Events records of this type; 2 federal declared incidents (see declarations table)
Cold Wave	29	7	3	8	1	0	1996 to 2026-06-30	Includes 8 Frost/Freeze records.
Drought	47	10	12	16	1	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	2	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	6	1	0	1	0	0	1955 to 2026-06-30	
Heat Wave	48	9	7	9	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	0	0	0	0	1	1	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)

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
Inland Flooding	40	15	2	17	15	2	1996 to 2026-06-30	
Landslide	0	0	0	0	10	2	1996 to 2026-06-30	No Storm Events records of this type; 10 federal declared incidents (see declarations table)
Lightning	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Strong Wind	62	11	2	13	1	1	1955 to 2026-06-30	Includes 35 High Wind and 26 Strong Wind records.
Tornado	4	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	12	0	0	0	5	0	1996 to 2026-06-30	
Winter Weather	3	0	0	0	7	2	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
2026-04-10	Hail	1.5 in	\$0 property; \$0 crops (2026 dollars)	0, 0	RIO VISTA MUNI ARPT	new since last plan; within last 5 years	B1-c worst recorded: Hail
2024-02-04	High Wind	59 kt (68 mph) measured gust	\$400,000 property; \$0 crops, reported for the zone (2024 dollars)	2, 0	NWS zone CAZ017 (SOUTHERN SACRAMENTO VALLEY), zone-level	new since last plan; within last 5 years	deaths or injuries recorded
2023-11-24	Cold/Wind Chill		\$0 property; \$0 crops, reported for the zone (2023 dollars)	0, 0	NWS zone CAZ017 (SOUTHERN SACRAMENTO VALLEY), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Cold/ Wind Chill, Extreme Cold/ Wind Chill
2022-09-04	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2022 dollars)	1, 1	NWS zone CAZ017 (SOUTHERN SACRAMENTO VALLEY), zone-level	new since last plan; within last 5 years	deaths or injuries recorded
2021-10-08	Drought		\$0 property; \$0 crops, reported for the zone (2021 dollars)	0, 0	NWS zone CAZ017 (SOUTHERN SACRAMENTO VALLEY), zone-level	in the 12 months before plan approval; within last 5 years	B1-c worst recorded: Drought
2014-07-04	Wildfire		\$2,500,000 property; crops not reported, reported for the zone (2014 dollars)	0, 0	NWS zone CAZ018 (CARQUINEZ STRAIT AND DELTA), zone-level		B1-c worst recorded: Wildfire
2011-04-07	Tornado	EF0, 0.11 mi within this county, 10 yd wide	\$26,000 property; \$0 crops (2011 dollars)	0, 0	ROCKVILLE		B1-c worst recorded: Tornado
2007-01-14	Frost/Freeze		\$200,000 property; \$5,000,000 crops, reported for the zone (2007 dollars)	0, 0	NWS zone CAZ017 (SOUTHERN SACRAMENTO VALLEY), zone-level		B1-c worst recorded: Frost/ Freeze
2006-01-01	Flood		\$15,000,000 property; crops not reported (2006 dollars)	1, 1	COUNTYWIDE		deaths or injuries recorded
2005-07-01	Heat		damage not reported	0, 0	NWS zone CAZ017 (YOLO T W/NE SOLANO/ SACRAMENTO T X SW/X W PLACER/X W AMADOR/S SUTTER), zone-level		B1-c worst recorded: Excessive Heat, Heat
1996-01-01	High Wind	87 kt (100 mph), measurement type not recorded	damage not reported	0, 0	NWS zone CAZ017 (SOUTHERN SACRAMENTO VALLEY), zone-level		B1-c worst recorded: High Wind and Strong Wind
1988-02-28	Thunderstorm Wind	64 kt (74 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind

The full list is in the Excel file, sheet "B1-d Storm Events history" (252 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	2.63	events per year at a location (modeled)	about 2.6 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	event-days per year	none modeled	Likely (from Storm Events: 10 of 30 years)	event-days in 10 of 30 years, 1996 to 2025 (33.3%)	0	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI models no cold wave event-days here (2005-11-12 to 2024-11-12, 19 years); Storm Events has a record in 10 of 30 years. The descriptor comes from Storm Events, which records events NRI's definition leaves out.
Drought	67.4	event-days per year	about 67.4 days per year	Likely (from Storm Events: 7 of 30 years)	event-days in 7 of 30 years, 1996 to 2025 (23.3%)	2,226	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.127	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 12.7%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.0464	events per year	about 1 in 22 years	Possible	FEMA annualized frequency (modeled)	1.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	6.5	event-days per year	about 6.5 days per year	Likely (from Storm Events: 13 of 30 years)	event-days in 13 of 30 years, 1996 to 2025 (43.3%)	65.7	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane		events per year					1851 to 2024 (Atlantic); 1949 to 2024 (Pacific)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Ice Storm		event-days per year					1946-12-31 to 2014-02-12 (67 years)	countywide	Not Applicable in NRI for this county; no descriptor.
Inland Flooding	0.786	event-days per year	about 0.786 days per year	Likely (from Storm Events: 13 of 30 years)	event-days in 13 of 30 years, 1996 to 2025 (43.3%)	22	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	8.5	events per year (modeled)	about 8.5 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	5.22	days per year with a strike	about 5.22 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.0352	events per year	about 1 in 28 years	Possible	FEMA annualized frequency (modeled)	2	1986 to 2023 (38 years)	countywide	
Tornado	0.116	events per year	about 1 in 9 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami	0.342	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: 34.2%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Volcanic Activity	0.0001	annual probability	about 1 in 10,000 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.00565	annual probability at a location	chance a given location in the county burns in a year: 0.565%	Likely (from Storm Events: 7 of 30 years)	Storm Events records in 7 of 30 years, 1996 to 2025 (23.3%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	0.0963	event-days per year	about 0.0963 days per year	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	1.71	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	0	30	0
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	0	30	0
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	0	30	0
Tornado	EF0-1	1996 to 2025	3	30	0.1
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Avalanche	1 of 100	0.3	0.3	0.3	Very Low 1, Not Applicable 99
Coastal Flooding	19 of 100	69.9	85.1	99.9	Very High 1, Relatively High 3, Relatively Moderate 1, Relatively Low 9, Very Low 5, No Rating 81
Cold Wave	0 of 100				No Rating 100
Drought	32 of 100	66.9	87.5	99.9	Very High 2, Relatively High 3, Relatively Moderate 7, Relatively Low 14, Very Low 6, No Rating 68
Earthquake	100 of 100	82.5	90.4	99.9	Very High 9, Relatively High 50, Relatively Moderate 41
Hail	100 of 100	1.7	15.6	35.0	Very Low 100
Heat Wave	100 of 100	1.6	16.8	59.8	Relatively Moderate 2, Relatively Low 48, Very Low 50
Hurricane	0 of 100				Not Applicable 100
Ice Storm	0 of 100				Not Applicable 100
Inland Flooding	100 of 100	3.2	79.4	99.2	Very High 16, Relatively High 35, Relatively Moderate 29, Relatively Low 18, Very Low 2
Landslide	83 of 100	8.8	77.2	99.9	Relatively High 3, Relatively Moderate 16, Relatively Low 20, Very Low 44, No Rating 17
Lightning	100 of 100	0.6	20.9	43.4	Relatively Low 54, Very Low 46
Strong Wind	100 of 100	3.5	11.9	20.5	Relatively Low 2, Very Low 98
Tornado	100 of 100	5.2	14.1	35.6	Relatively Low 2, Very Low 98
Tsunami	7 of 100	16.9	33.7	69.0	Relatively Low 2, Very Low 5, No Rating 8, Not Applicable 85
Volcanic Activity	100 of 100	40.4	60.1	76.8	Very Low 100
Wildfire	83 of 100	18.9	66.2	98.5	Relatively High 6, Relatively Moderate 13, Relatively Low 21, Very Low 43, No Rating 17
Winter Weather	100 of 100	10.6	14.1	15.8	Very Low 100

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 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
Solano County	County	Approved, expires 2027-03-14	FMA RL 3, SRL 2; any 21	\$8,261,132.01	0 total; 0 since its plan	Includes \$224,335.56 for declarations not counted as hazard incidents (DR-4482-CA).
Benicia city	City	Approved, expires 2027-03-14	FMA RL 0, SRL 1; any 1	\$1,130,101.45	2 total; 2 since its plan	
Dixon city	City	Approved, expires 2027-03-14	FMA RL 0, SRL 0; any 0	\$32,306.63	1 total; 1 since its plan	
Fairfield city	City	Approved, expires 2027-03-14	FMA RL 0, SRL 0; any 4	\$2,138,189.96	6 total; 6 since its plan	
Rio Vista city	City	Approved, expires 2027-03-14	FMA RL 0, SRL 0; any 3	\$324,897.80	0 total; 0 since its plan	Includes \$106,788.81 for declarations not counted as hazard incidents (DR-4482-CA).
Suisun City city	City	Approved, expires 2027-03-14	FMA RL 0, SRL 2; any 3	\$558,195	1 total; 0 since its plan	Includes \$417,000.93 for declarations not counted as hazard incidents (DR-4482-CA).
Vacaville city	City	Approved, expires 2027-03-14	FMA RL 0, SRL 0; any 7	\$3,098,069.04	4 total; 1 since its plan	Includes \$154,683.70 for declarations not counted as hazard incidents (DR-4482-CA).
Vallejo city	City	Approved, expires 2027-03-14	FMA RL 0, SRL 2; any 18	\$2,389,230.33	0 total; 0 since its plan	Includes \$1,244,540.74 for declarations not counted as hazard incidents (DR-4482-CA).

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 2022-03-15 <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	\$0	n/a	under 1	\$0	n/a	under \$1			\$0		building exposure is 0 in NRI
Coastal Flooding	\$15,282,061,353	n/a	79,630	\$3,495,528	n/a	\$16,419	0.0229%				
Cold Wave	\$0	\$0	0	\$0	\$0	\$0			\$0		building exposure is 0 in NRI
Drought	n/a	\$248,358,190	n/a	n/a	\$11,781,829	n/a	4.74% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$158,388,491,110	n/a	453,491	\$100,982,623	n/a	\$27,488,401	0.0638%				
Hail	\$92,270,014,692	\$381,838,730	452,833	\$19,020	\$5,129	\$47,193	under 0.0001%	\$0			
Heat Wave	\$92,270,014,692	\$381,838,730	452,833	\$145	\$97,672	\$1,346,196	under 0.0001%		\$0		
Hurricane											Not Applicable in NRI for this county
Ice Storm										\$1,459,769.31	Not Applicable in NRI for this county
Inland Flooding	\$92,222,397,213	\$161,088,282	20,747	\$140,411,536	\$30,176	\$634,937	n/a (see note)	\$0		\$2,443,176.71	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	\$5,643,403,971	n/a	27,137	\$354,230	n/a	\$539,464	0.00628%			\$2,443,176.71	
Lightning	\$92,270,014,692	n/a	452,833	\$25,421	n/a	\$354,411	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 2022-03-15 <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	\$92,270,014,692	\$381,838,730	452,833	\$61,272	\$213	\$110,068	under 0.0001%		\$490,000	\$1,459,769.31	Storm Events damage since the plan includes 3 zone-level High Wind records (\$408,000) and 5 zone-level Strong Wind records (\$82,000): NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition.
Tornado	\$92,270,014,692	\$381,838,730	452,833	\$555,809	\$953	\$165,237	0.000602%				
Tsunami	\$986,163,288	n/a	142	\$101,287	n/a	\$0	0.0103%				
Volcanic Activity	\$92,270,014,692	n/a	452,833	under \$1	n/a	\$107	under 0.0001%				
Wildfire	\$3,412,892,186	\$134,653,454	31,165	\$3,170,357	\$2,185	\$305,524	0.0929%				
Winter Weather	\$92,254,064,025	\$381,838,730	452,683	\$36	under \$1	\$3,378	under 0.0001%			\$2,443,176.71	

Totals since 2022-03-15 (Storm Events through 2026-06-30): 16 county-coded records, 16 with a damage value recorded (including \$0), \$0; 38 zone-level records, 36 with a damage value recorded (including \$0), \$490,000 reported for the zone; Public Assistance: \$2,443,176.71 on 3 counted declarations, 2 of them with Public Assistance.

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

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

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

County context

Source: 5

Measure	Value
Population	452,833
Building value (total, not at risk)	\$92,270,014,692
Agriculture value (total, not at risk)	\$381,838,730
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$261,095,418
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)	\$31,011,335
Social vulnerability rating	Relatively Low
Community resilience rating	Relatively High
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)	3	Severe repetitive loss, FMA definition (44 CFR 77.2)	7
Repetitive loss, NFIP insurance definition	57	Severe repetitive loss, NFIP insurance definition	7

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	3	7	57	7	57	0	15
of which: Benicia city	0	1	1	1	1	0	1
of which: Fairfield city	0	0	4	0	4	0	1
of which: Rio Vista city	0	0	3	0	3	0	2
of which: Suisun City city	0	2	3	2	3	0	0
of which: Vacaville city	0	0	7	0	7	0	0
of which: Vallejo city	0	2	18	2	18	0	3
of which: Solano County (unincorporated area)	3	2	21	2	21	0	8
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>
Solano County	060631	3	2	21	2	21	0	8
Benicia city	060368	0	1	1	1	1	0	1
Dixon city	060369	0	0	0	0	0	0	0
Fairfield city	060370	0	0	4	0	4	0	1
Rio Vista city	060371	0	0	3	0	3	0	2
Suisun City city	060372	0	2	3	2	3	0	0
Vacaville city	060373	0	0	7	0	7	0	0
Vallejo city	060374	0	2	18	2	18	0	3

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	3	5	48	5	48	0	14
2 to 4 unit residential	0	0	1	0	1	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	2	8	2	8	0	1
not reported	0	0	0	0	0	0	0

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

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

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

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 54 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

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

What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment, organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B. Each section heading names the item its tables support; the plan and FEMA's review decide whether the 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).

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Solano County, CA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 06095). Automated baseline. <https://hazardplain.org/ca/06095/> 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

Hazard Plain release 2026-10. As of 2026-09-30; Storm Events data through 2026-06-30. Automated baseline.