

Madera County, CA

Risk-assessment baseline packet

County FIPS: 06039 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: Plan 111805 approved 2026-06-29, pending adoption here; not yet eligible. Plan: Madera County (FEMA plan 111805), pending adoption here, approved 2026-06-29 by FEMA; not yet adopted here.

Update: FEMA tracker shows a plan approvable pending adoption.

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Drought (\$63,376,142 a year), Inland Flooding (\$44,693,587) and Wildfire (\$22,965,256).

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; 06039 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, page 2
- 4. Supports FEMA checklist item B1-a: hazard identification, page 3
- 5. Supports FEMA checklist item B1-b: hazard location, page 5
- 6. Supports FEMA checklist item B1-c: hazard extent, page 5
- 7. Supports FEMA checklist item B1-d: previous occurrences, page 8
- 8. Supports FEMA checklist item B1-e: probability of future events, page 12
- 9. Supports FEMA checklist item B1-f: hazards that vary across jurisdictions, page 14
- 10. Supports FEMA checklist items B2-a and B2-b: vulnerability and potential impacts, page 16
- 11. Supports FEMA checklist item B2-a: vulnerability (county context), page 17
- 12. Supports FEMA checklist item B2-c: repetitive loss properties, page 18
- 13. Sources, what the plan adds, disclaimer and citation, page 19

Plan clock

Status:	Plan 111805 approved 2026-06-29, pending adoption here; not yet eligible	Plan:	Madera County (FEMA plan 111805), pending adoption here
Approved:	2026-06-29 by FEMA; not yet adopted here	Expires:	2031-06-28 once adopted
Update underway:	FEMA tracker shows a plan approvable pending adoption		

Not yet eligible: adopt the approved plan.

Not yet eligible: adopt the approved plan.

What changed since your last plan

Not available. Plan 111805 was approved by FEMA on 2026-06-29 but is not yet adopted here, so no since-plan counts are given.

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>	Update underway	Notes
Madera County	County	Plan 111805 approved 2026-06-29, pending adoption here; not yet eligible	Madera County (FEMA plan 111805), pending adoption here	2026-06-29 by FEMA; not yet adopted here	2031-06-28 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Chowchilla city	City	Approved, expires 2031-06-28	Madera County (FEMA plan 111805)	2026-06-29	2031-06-28	1,732		this jurisdiction approved 2026-08-05
Madera city	City	Approved, expires 2031-06-28	Madera County (FEMA plan 111805)	2026-06-29	2031-06-28	1,732		
Aliso Water District	Water/Sewer Authority	Expired on 2023-05-30	Central California Irrigation District (FEMA plan 104939)	2018-05-31	2023-05-30	-1,219		
Triangle T Water District	Water/Sewer Authority	Expired on 2023-05-30	Central California Irrigation District (FEMA plan 104939)	2018-05-31	2023-05-30	-1,219		

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	Drought	Very High	Very High	n/a	\$63,376,142	n/a	\$63,376,142	21		
2	Inland Flooding	Relatively High	Relatively Moderate	\$43,258,432	\$955,896	\$479,259	\$44,693,587	76		
3	Wildfire	Relatively High	Relatively High	\$21,930,419	\$8,063	\$1,026,773	\$22,965,256	11		
4	Earthquake	Relatively Moderate	Relatively Moderate	\$15,428,245	n/a	\$4,585,375	\$20,013,620			Storm Events does not record earthquakes.
5	Heat Wave	Relatively High	Relatively Moderate	\$2,295	\$3,034,825	\$5,881,768	\$8,918,887	47		
6	Hail	Relatively Moderate	Relatively Low	\$9,866	\$322,328	\$179,807	\$512,001	22		
7	Lightning	Relatively Moderate	Relatively Moderate	\$18,456	n/a	\$363,458	\$381,914	7		
8	Landslide	Relatively Moderate	Relatively Moderate	\$990	n/a	\$351,812	\$352,802	8		
9	Tornado	Very Low	Very Low	\$106,217	\$2,826	\$47,046	\$156,089	7		
10	Strong Wind	Relatively Low	Relatively Low	\$48,458	\$20,676	\$61,109	\$130,242	64		Includes 37 High Wind and 18 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
11	Winter Weather	Relatively Moderate	Relatively Moderate	\$9,322	under \$1	\$75,531	\$84,853	91		

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
12	Avalanche	Very Low	Very Low	\$1	n/a	\$105	\$107	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Volcanic Activity	Very Low	Very Low	\$6	n/a	\$28	\$33	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Cold Wave	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	42		Includes 42 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 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: coastal flooding and tsunamis. That is the evidence for leaving them out of the plan.

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

Supports FEMA checklist item B1-b: hazard location

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

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

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

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Avalanche	tract 1.09 (Very Low, 20.3); tract 1.03 (Very Low, 20.2); tract 1.11 (Very Low, 19.3)
Earthquake	tract 11 (Very High, 99.1); tract 8.02 (Relatively High, 93.3); tract 7.02 (Relatively High, 93.0)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 1.02 (Relatively High, 99.8); tract 1.03 (Relatively High, 99.6); tract 1.11 (Relatively Moderate, 98.8)
Tornado	tract 11 (Very Low, 28.9); tract 1.03 (Very Low, 21.9); tract 3.02 (Very Low, 20.6)
Volcanic Activity	tract 1.02 (Very Low, 83.8); tract 1.04 (Very Low, 83.2); tract 1.03 (Very Low, 82.9)
Wildfire	tract 1.03 (Very High, 100.0); tract 1.04 (Very High, 99.9); tract 1.10 (Very High, 99.8)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 1.09 is Census Tract 1.09). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Avalanche	none (count and damage only)	0					Physical measure: in event narratives only (local data needed).
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	0					Wind chill: in event narratives only (local data needed).
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	42 records, 2019 to 2026 (42 zone-level)		No crop damage reported in 42 records.		Countywide (zone-level records).	Temperature: in event narratives only (local data needed).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Drought	U.S. Drought Monitor scale (D0 to D4)	21 records, 2021 to 2022 (21 zone-level)	640 days; 1 with a recorded value	640 days (21 months), 2021-04-01 to 2022-12-31, a run of 21 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)	24 records, 1983 to 2023	0.4 in to 1.75 in (median 0.75 in); 23 with a recorded value	1.75 in hail, 2002-05-20	Hail, 2001-04-20, property not reported; \$3,250,000 crops (2001 dollars)	Event records naming jurisdictions in the plan: Madera city (8 records), Chowchilla city (5 records).	
Excessive Heat, Heat	heat index (in event narratives)	47 records, 2019 to 2026 (47 zone-level)	1 day to 12 days (median 3 days); 36 with a recorded value	12 consecutive days, 2024-07-02 to 2024-07-13, 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)	76 records, 1997 to 2025		Flood, 2006-04-05, \$2,750,000 property; \$5,800,000 crops (2006 dollars)		Event records naming jurisdictions in the plan: Madera city (8 records), Chowchilla city (1 record).	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	8 records, 2017 to 2025		Debris Flow, 2025-03-17, \$5,000 property; \$0 crops (2025 dollars)		No event record names a jurisdiction in the plan.	Physical measure: in event narratives only (local data needed).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	7 records, 1999 to 2014		Lightning, 2014-01-30, \$2,500 property; \$0 crops (2014 dollars)		Event records naming jurisdictions in the plan: Madera city (2 records).	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)	55 records, 2019 to 2025 (55 zone-level)	30 kt (35 mph) to 96 kt (110 mph) (median 54 kt (62 mph)); 55 with a recorded value	96 kt (110 mph) estimated gust, High Wind, 2021-01-19; NWS zone CAZ190	High Wind, 2021-01-18, \$200,000,000 property; \$0 crops, reported for the zone (2021 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	13 records, 1957 to 2019	43 kt (49 mph) to 63 kt (72 mph) (median 50 kt (58 mph)); 7 with a recorded value	63 kt (72 mph), measurement type not recorded, Thunderstorm Wind, 1988-02-28	Thunderstorm Wind, 2001-04-07, property not reported; \$7,800,000 crops (2001 dollars)	Event records naming jurisdictions in the plan: Chowchilla city (2 records), Madera city (2 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	11 records, 1958 to 2024	F/EF0 to F/EF2 (median F/EF0); 10 with a recorded value	EF2 tornado, 2020-09-05, 12.02 mi within this county, 50 yd wide, property not reported; \$0 crops (2020 dollars)	Tornado, 2002-05-20, \$130,000 property; crops not reported (2002 dollars)	Event records naming jurisdictions in the plan: Chowchilla city (1 record), Madera city (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only (local data needed).
Wildfire	acres burned (local data)	11 records, 2001 to 2020 (4 zone-level)		Wildfire, 2001-08-20, \$4,100,000 property; crops not reported (2001 dollars)		No event record names a jurisdiction in the plan. Zone-level records (4) 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)	91 records, 2019 to 2026 (91 zone-level)		Winter Storm, 2023-01-09, \$5,200,000 property; \$0 crops (2023 dollars); NWS zone CAZ317		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.

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 25 declarations covering 19 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Plan 111805 was approved by FEMA on 2026-06-29 but is not yet adopted here, so no since-plan counts are given.

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	\$1,392,714.10	within last 5 years	
2023-03-10	2023-03-09	EM-3592-CA	Emergency	Severe Winter Storms, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide, Winter Weather	no Public Assistance recorded	within last 5 years	same incident as DR-4699
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	\$1,180,154.22	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	within last 5 years	same incident as DR-4683
2020-10-16	2020-09-04	DR-4569-CA	Major disaster	Wildfires	Wildfire	\$1,355,965.45		
2020-09-06	2020-09-06	FM-5348-CA	Fire management	Creek Fire	Wildfire	no Public Assistance recorded		same incident as DR-4569
2020-03-22	2020-01-20	DR-4482-CA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$4,624,630.04		
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
2017-09-04	2017-09-04	FM-5204-CA	Fire management	Mission Fire	Wildfire	no Public Assistance recorded		
2017-09-02	2017-08-29	FM-5202-CA	Fire management	Railroad Fire	Wildfire	no Public Assistance recorded		
2014-09-14	2014-09-14	FM-5078-CA	Fire management	Courtney Fire	Wildfire	no Public Assistance recorded		
2014-08-19	2014-08-18	FM-5074-CA	Fire management	Junction 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		
2006-06-05	2006-03-29	DR-1646-CA	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide	\$963,282.50		
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		
2005-07-25	2005-07-25	FM-2571-CA	Fire management	Ca-Quartz Fire-7-25-2005	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>		
1999-02-09	1998-12-20	DR-1267-CA	Major disaster	Ca-Citrus Crop Damage 2/2/99	Cold Wave	PA not declared for this county		
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		
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		
1986-02-21	1986-02-12	DR-758-CA	Major disaster	Severe Storms & Flooding	Inland Flooding	PA not declared for this county		
1977-01-20	1977-01-20	EM-3023-CA	Emergency	Drought	Drought	no Public Assistance recorded		
1969-01-26	1969-01-26	DR-253-CA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		

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.

Public Assistance filed under this county for declarations that do not list it: 2 rows, \$350,913.66

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-1952-CA	2011-01-26	Severe Winter Storms, Flooding, and Debris and Mud Flows	Madera County	\$222,833.55
DR-1952-CA	2011-01-26	Severe Winter Storms, Flooding, and Debris and Mud Flows	MADERA IRRIGATION DISTRICT	\$128,080.11

FEMA's Public Assistance summaries file these applicants under this county, but FEMA's declaration rows for these disasters do not designate it (an electric cooperative or district serving several counties, for example). Not in any declaration row above and not counted.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Avalanche	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	42			30	3		1996 to 2026-06-30	Includes 42 Frost/Freeze records.
Drought	21			15	1		1996 to 2026-06-30	
Earthquake	0			0	0			Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	24			2	0		1955 to 2026-06-30	
Heat Wave	47			25	0		1996 to 2026-06-30	
Hurricane	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	0			0	1		1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Inland Flooding	76			33	9		1996 to 2026-06-30	
Landslide	8			6	7		1996 to 2026-06-30	
Lightning	7			0	0		1996 to 2026-06-30	
Strong Wind	68			42	1		1955 to 2026-06-30	Includes 37 High Wind and 18 Strong Wind records.
Tornado	11			1	0		1950 to 2026-06-30	
Volcanic Activity	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events

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
Wildfire	11			0	6		1996 to 2026-06-30	
Winter Weather	91			76	5		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
2025-03-17	Debris Flow		\$5,000 property; \$0 crops (2025 dollars)	0, 0	OAKHURST	within last 5 years	B1-c worst recorded: Debris Flow
2024-07-02	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2024 dollars)	0, 0	NWS zone CAZ302 (MERCED-MADERA-MENDOTA), zone-level	within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2021-04-01	Drought		\$0 property; \$0 crops, reported for the zone (2021 dollars)	0, 0	NWS zone CAZ192 (CENTRAL SIERRA), zone-level		B1-c worst recorded: Drought
2021-01-19	High Wind	96 kt (110 mph) estimated gust	\$0 property; \$0 crops, reported for the zone (2021 dollars)	0, 0	NWS zone CAZ190 (CENTRAL SIERRA FOOTHILLS), zone-level		B1-c worst recorded: High Wind and Strong Wind
2020-09-05	Tornado	EF2, 12.02 mi within this county, 50 yd wide	property not reported; \$0 crops (2020 dollars)	0, 0	CENTRAL CAMP to BEASORE		B1-c worst recorded: Tornado
2020-09-04	Wildfire		damage not reported	0, 29	NWS zone CAZ192 (CENTRAL SIERRA), zone-level		deaths or injuries recorded
2014-01-30	Lightning		\$2,500 property; \$0 crops (2014 dollars)	0, 0	ONEALS		B1-c worst recorded: Lightning
2006-04-05	Flood		\$2,750,000 property; \$5,800,000 crops (2006 dollars)	0, 0	DAIRYLAND		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2002-05-20	Hail	1.75 in	property not reported; \$256,000 crops (2002 dollars)	0, 0	MADERA MUNI ARPT		B1-c worst recorded: Hail
2001-08-20	Wildfire		\$4,100,000 property; crops not reported (2001 dollars)	0, 0	WISHON		B1-c worst recorded: Wildfire
2000-02-27	Hail	0.75 in	\$30,000 property; crops not reported (2000 dollars)	0, 4	MADERA		deaths or injuries recorded
1988-02-28	Thunderstorm Wind	63 kt (72 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" (406 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.
Cold Wave	0	event-days per year	none modeled		event-days in 0 of 30 years, 1996 to 2025 (0%)	0	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events cold wave record, 1996 to 2025.
Drought	84.8	event-days per year	about 84.8 days per year	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	2,639	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.0712	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 7.12%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.178	events per year	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	6.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	6.6	event-days per year	about 6.6 days per year	Likely (from Storm Events: 7 of 30 years)	event-days in 7 of 30 years, 1996 to 2025 (23.3%)	72.4	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	1.43	event-days per year	about 1.43 days per year	Likely (from Storm Events: 18 of 30 years)	event-days in 18 of 30 years, 1996 to 2025 (60%)	40	1996 to 2023 (28 years)	see B1-f	
Landslide	28.6	events per year (modeled)	about 28.6 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	15.6	days per year with a strike	about 15.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	

Hazard	FEMA annualized frequency (modeled)	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
	<i>unit per row</i>								
Strong Wind	0.0493	events per year	about 1 in 20 years	Possible	FEMA annualized frequency (modeled)	2	1986 to 2023 (38 years)	countywide	
Tornado	0.204	events per year	about 1 in 5 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Volcanic Activity	0.0006	annual probability	about 1 in 1,667 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.00688	annual probability at a location	chance a given location in the county burns in a year: 0.688%	Likely (from Storm Events: 4 of 30 years)	Storm Events records in 4 of 30 years, 1996 to 2025 (13.3%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	11.9	event-days per year	about 11.9 days per year	Likely (from Storm Events: 7 of 30 years)	event-days in 7 of 30 years, 1996 to 2025 (23.3%)	226	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	6	30	0.2
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	3	30	0.1
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	6	30	0.2
Tornado	EF0-1	1996 to 2025	6	30	0.2
Tornado	EF2-3	1996 to 2025	1	30	0.0333
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	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	5 of 34	16.9	19.3	20.3	Very Low 5, Not Applicable 29
Cold Wave	0 of 34				No Rating 34
Drought	28 of 34	73.0	96.6	100.0	Very High 7, Relatively High 4, Relatively Moderate 8, Relatively Low 6, Very Low 3, No Rating 6
Earthquake	34 of 34	72.6	87.0	99.1	Very High 1, Relatively High 11, Relatively Moderate 19, Relatively Low 3
Hail	34 of 34	37.3	53.5	97.4	Relatively High 1, Relatively Moderate 5, Relatively Low 27, Very Low 1
Heat Wave	34 of 34	72.3	93.3	100.0	Very High 3, Relatively High 29, Relatively Moderate 2
Hurricane	0 of 34				Not Applicable 34
Ice Storm	0 of 34				Not Applicable 34
Inland Flooding	34 of 34	35.5	79.9	99.8	Very High 6, Relatively High 11, Relatively Moderate 16, Relatively Low 1
Landslide	25 of 34	8.9	28.0	99.8	Relatively High 2, Relatively Moderate 5, Relatively Low 1, Very Low 17, No Rating 9
Lightning	34 of 34	19.3	52.4	81.8	Relatively High 1, Relatively Moderate 21, Relatively Low 11, Very Low 1

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	34 of 34	14.8	20.8	60.3	Relatively Moderate 1, Relatively Low 18, Very Low 15
Tornado	34 of 34	5.1	13.1	28.9	Very Low 34
Volcanic Activity	8 of 34	40.9	79.4	83.8	Very Low 8, No Rating 26
Wildfire	30 of 34	33.6	92.7	100.0	Very High 7, Relatively High 3, Relatively Moderate 10, Relatively Low 6, Very Low 4, No Rating 4
Winter Weather	34 of 34	14.1	16.9	96.1	Very High 2, Relatively High 3, Relatively Moderate 2, Relatively Low 2, Very Low 25

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

Hail: Agriculture is 63% 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
Madera County	County	Plan 111805 approved 2026-06-29, pending adoption here; not yet eligible	FMA RL 0, SRL 1; any 2	\$5,786,984.89	0 total; no approved plan	Includes \$1,891,170.32 for declarations not counted as hazard incidents (DR-4482-CA).
Chowchilla city	City	Approved, expires 2031-06-28	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	9 total; 0 since its plan	
Madera city	City	Approved, expires 2031-06-28	FMA RL 0, SRL 0; any 0	\$680,300.76	21 total; 0 since its plan	Includes \$49,535.32 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.

Plan 111805 was approved by FEMA on 2026-06-29 but is not yet adopted here, so no since-plan counts are given.

- 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 plan <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	\$1,121,361	n/a	under 1	\$1	n/a	\$105	0.000105%				
Cold Wave	\$0	\$0	0	\$0	\$0	\$0					building exposure is 0 in NRI
Drought	n/a	\$1,407,728,187	n/a	n/a	\$63,376,142	n/a	4.5% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$53,614,739,148	n/a	156,255	\$15,428,245	n/a	\$4,585,375	0.0288%				
Hail	\$31,059,051,625	\$1,921,850,590	156,146	\$9,866	\$322,328	\$179,807	under 0.0001%				
Heat Wave	\$31,059,042,220	\$1,921,850,590	156,146	\$2,295	\$3,034,825	\$5,881,768	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm											Not Applicable in NRI for this county
Inland Flooding	\$31,041,917,840	\$799,381,904	11,522	\$43,258,432	\$955,896	\$479,259	n/a (see note)				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	\$1,211,936,414	n/a	4,153	\$990	n/a	\$351,812	under 0.0001%				
Lightning	\$31,059,051,625	n/a	156,146	\$18,456	n/a	\$363,458	under 0.0001%				
Strong Wind	\$31,059,051,625	\$1,921,850,590	156,146	\$48,458	\$20,676	\$61,109	0.000156%				

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 plan <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
Tornado	\$31,059,051,625	\$1,921,850,590	156,146	\$106,217	\$2,826	\$47,046	0.000342%				
Volcanic Activity	\$31,059,051,625	n/a	156,146	\$6	n/a	\$28	under 0.0001%				
Wildfire	\$6,382,154,728	\$474,731,013	39,258	\$21,930,419	\$8,063	\$1,026,773	0.344%				
Winter Weather	\$31,059,042,220	\$1,921,850,590	156,146	\$9,322	under \$1	\$75,531	under 0.0001%				

Totals since the plan: not available. Plan 111805 was approved by FEMA on 2026-06-29 but is not yet adopted here, so no since-plan counts are given.

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	156,146
Building value (total, not at risk)	\$31,059,051,625
Agriculture value (total, not at risk)	\$1,921,850,590
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$148,533,462
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)	\$13,052,070
Social vulnerability rating	Relatively High
Community resilience rating	Very Low
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	1
Repetitive loss, NFIP insurance definition	2	Severe repetitive loss, NFIP insurance definition	1

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	0	1	2	1	2	0	0
of which: Madera County (unincorporated area)	0	1	2	1	2	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>
Madera County	060170	0	1	2	1	2	0	0
Chowchilla city	060171	0	0	0	0	0	0	0
Madera city	060172	0	0	0	0	0	0	0

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

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

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	0	0	0	0	0	0	0
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	1	0	1	0	0
non-residential	0	1	1	1	1	0	0
not reported	0	0	0	0	0	0	0

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

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

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

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 2 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).

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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.