

San Juan County, UT

Risk-assessment baseline packet

County FIPS: 49037 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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Summary

Plan status as of 2026-09-30: Approved, expires 2028-11-06. Plan: San Juan County, UT Hazard Mitigation Plan 2023 (FEMA plan 109228), approved 2023-11-07. Since the plan was approved on 2023-11-07: 1 new hazard declaration (1 incident) and 90 NOAA Storm Events records; details under "What changed since your last plan". Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$1,607,233 a year), Avalanche (\$913,391) and Heat Wave (\$775,891). 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; 49037 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 2028-11-06

Plan:

San Juan County, UT Hazard Mitigation Plan 2023 (FEMA plan 109228)

Approved:

2023-11-07

Days to expiry:

768

What changed since your last plan (approved 2023-11-07)

New federal declarations:

1 new hazard declaration (1 incident): FM-5598-UT (Deer Creek Fire)

Repetitive loss now:

FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0

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

Storm Events records since approval:

90 records (data through 2026-06-30)

Repeat-flood change:

this release sets the baseline count.

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry
San Juan County	County	Approved, expires 2028-11-06	San Juan County, UT Hazard Mitigation Plan 2023 (FEMA plan 109228)	2023-11-07	2028-11-06	768
Blanding city	City	Approved, expires 2028-11-06	San Juan County, UT Hazard Mitigation Plan 2023 (FEMA plan 109228)	2023-11-07	2028-11-06	768
Bluff town	Town	Approved, expires 2028-11-06	San Juan County, UT Hazard Mitigation Plan 2023 (FEMA plan 109228)	2023-11-07	2028-11-06	768
Monticello city	City	Approved, expires 2028-11-06	San Juan County, UT Hazard Mitigation Plan 2023 (FEMA plan 109228)	2023-11-07	2028-11-06	768

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

Hazard Plain release 2026-10, as of 2026-09-30.

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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	Very Low	Very Low	\$1,607,233	\$0	\$0	\$1,607,233	70		
2	Avalanche	Relatively High	Relatively Moderate	\$58	n/a	\$913,333	\$913,391	4		
3	Heat Wave	Relatively Low	Relatively Low	\$15	\$139	\$775,736	\$775,891	6		
4	Landslide	Relatively High	Relatively Moderate	\$2,737	n/a	\$489,286	\$492,023	29		
5	Lightning	Relatively Moderate	Relatively Moderate	\$7,140	n/a	\$421,248	\$428,388	2		
6	Wildfire	Relatively Low	Relatively Low	\$288,752	\$41	\$9,283	\$298,075	34		
7	Earthquake	Very Low	Very Low	\$181,983	n/a	\$29,019	\$211,003			Storm Events does not record earthquakes.
8	Winter Weather	Relatively Moderate	Relatively Moderate	\$21,814	\$54	\$112,996	\$134,864	450		
9	Drought	Relatively Low	Relatively Low	n/a	\$130,273	n/a	\$130,273	182		
10	Strong Wind	Very Low	Very Low	\$8,296	\$120	\$14,722	\$23,138	49		Includes 27 High Wind and 3 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
11	Tornado	Very Low	Very Low	\$7,467	\$64	\$5,688	\$13,219	7		

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	Ice Storm	Very Low	Very Low	\$37	n/a	\$11,634	\$11,672	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Hail	Very Low	Very Low	\$1,931	\$99	\$67	\$2,097	30		
14	Cold Wave	Very Low	Very Low	under \$1	under \$1	\$4	\$4	69		Includes 59 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
15	Volcanic Activity	Very Low	Very Low	under \$1	n/a	under \$1	under \$1	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	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-3223-UT 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).

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 9420 (Relatively Moderate, 85.0); tract 9421 (Relatively Moderate, 84.9); tract 9782 (Relatively Moderate, 80.7)
Earthquake	tract 9782 (Relatively Low, 71.3); tract 9781 (Relatively Low, 68.2); tract 9421 (Relatively Low, 64.5)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 9782 (Relatively High, 99.8); tract 9421 (Relatively High, 99.8); tract 9781 (Relatively High, 99.7)
Tornado	tract 9420 (Very Low, 13.8); tract 9782 (Very Low, 13.0); tract 9781 (Very Low, 9.2)
Volcanic Activity	tract 9421 (Very Low, 43.3)
Wildfire	tract 9781 (Relatively Moderate, 96.2); tract 9782 (Relatively Moderate, 94.5); tract 9421 (Relatively Low, 85.5)

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 9420 is Census Tract 9420). 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)	4 records, 2005 to 2019 (4 zone-level)		No damage reported in 4 records.		Countywide (zone-level records).	
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	10 records, 1998 to 2025 (10 zone-level)	4 days to 16 days (median 8 days); 3 with a recorded value	16 consecutive days, 2005-12-04 to 2005-12-19, zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	59 records, 2003 to 2025 (59 zone-level)		No crop damage reported in 59 records.		Countywide (zone-level records).	

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)	182 records, 2002 to 2026 (182 zone-level)	31 days to 1,493 days (median 199.5 days); 14 with a recorded value	1493 days (about 49.0 months), 2002-05-01 to 2006-06-01, a run of 50 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)	32 records, 1957 to 2024	0.75 in to 1.75 in (median 1 in); 32 with a recorded value	1.75 in hail, 2020-06-06; same size also recorded on 1957-10-21, 2013-09-17, 2020-06-06	Hail, 2013-09-22, \$20,000 property; crops not reported (2013 dollars)	Event records naming jurisdictions in the plan: Monticello city (7 records), Blanding city (5 records), Bluff town (2 records).	
Excessive Heat, Heat	heat index (in event narratives)	6 records, 2005 to 2022 (6 zone-level)	1 day to 7 days (median 3 days); 5 with a recorded value	7 consecutive days, 2021-06-14 to 2021-06-20, zone-level		Countywide (zone-level records).	
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					
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	70 records, 1996 to 2025 (1 zone-level)		Flash Flood, 2003-09-09, \$1,000,000 property; crops not reported (2003 dollars)		Event records naming jurisdictions in the plan: Monticello city (8 records), Bluff town (6 records), Blanding city (3 records). Zone-level records (1) 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)	29 records, 2007 to 2022 (1 zone-level)		Debris Flow, 2021-07-25, \$50,000 property; \$0 crops (2021 dollars)		Event records naming jurisdictions in the plan: Bluff town (1 record). Zone-level records (1) apply countywide.	
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	2 records, 2003 to 2009		Lightning, 2009-06-26, \$100,000 property; \$0 crops (2009 dollars)		Event records naming jurisdictions in the plan: Monticello city (1 record).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	30 records, 1999 to 2026 (30 zone-level)	49 kt (56 mph) to 78 kt (90 mph) (median 53 kt (61 mph)); 29 with a recorded value	78 kt (90 mph) measured gust, High Wind, 2006-04-05; NWS zone UTZ028	High Wind, 2000-04-18, \$20,000 property; crops not reported (zone total, 2000 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	22 records, 1983 to 2025	50 kt (58 mph) to 70 kt (81 mph) (median 56 kt (64 mph)); 20 with a recorded value	70 kt (81 mph) estimated, Thunderstorm Wind, 2002-09-07	Thunderstorm Wind, 2006-06-07, \$175,000 property; crops not reported (2006 dollars)	Event records naming jurisdictions in the plan: Blanding city (2 records), Bluff town (2 records), Monticello city (2 records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Tornado	Enhanced Fujita (Fujita before Feb 2007)	7 records, 2015 to 2025	F/EF0 to F/EF2 (median F/EF2); 3 with a recorded value	EF2 tornado, 2025-09-13, 1.1 mi within this county, 50 yd wide, \$0 property; \$0 crops (2025 dollars); same rating, casualties and property damage also recorded on 2025-07-12		No event record names a jurisdiction in the plan.	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					
Wildfire	acres burned (local data)	34 records, 1999 to 2025 (18 zone-level)		Wildfire, 2025-06-13, \$0 property; \$10,000,000 crops (2025 dollars); NWS zone UTZ022		Event records naming jurisdictions in the plan: Monticello city (6 records), Blanding city (5 records). Zone-level records (18) apply countywide.	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	450 records, 1996 to 2026 (450 zone- level)		Winter Storm, 2015-02-22, \$20,000 property; \$0 crops (2015 dollars); NWS zone UTZ022		Countywide (zone-level records).	

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

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

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 6 declarations covering 3 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
2025-07-12	2025-07-10	FM-5598-UT	Fire management	Deer Creek Fire	Wildfire	no Public Assistance recorded	new since last plan; within last 5 years	
2021-06-10	2021-06-10	FM-5391-UT	Fire management	Pack Creek Fire	Wildfire	no Public Assistance recorded		
2020-04-04	2020-01-20	DR-4525-UT	Major disaster	COVID-19 Pandemic	Non-natural, not counted	no Public Assistance recorded		
2020-03-13	2020-01-20	EM-3478-UT	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4525
2005-09-05	2005-08-29	EM-3223-UT	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
1977-01-20	1977-01-20	EM-3024-UT	Emergency	Drought	Drought	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.

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	4	0	0	0	0	0	1996 to 2026-06-30	
Cold Wave	69	13	3	23	0	0	1996 to 2026-06-30	Includes 59 Frost/Freeze records.
Drought	182	7	3	24	1	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	32	3	0	3	0	0	1955 to 2026-06-30	
Heat Wave	6	0	0	1	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

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
Ice Storm	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Inland Flooding	70	4	1	9	0	0	1996 to 2026-06-30	
Landslide	29	0	0	6	0	0	1996 to 2026-06-30	
Lightning	2	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	52	8	2	11	0	0	1955 to 2026-06-30	Includes 27 High Wind and 3 Strong Wind records.
Tornado	7	6	0	6	0	0	1950 to 2026-06-30	
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	34	6	0	6	2	1	1996 to 2026-06-30	
Winter Weather	450	43	27	85	0	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2025-06-13	Wildfire		\$0 property; \$10,000,000 crops (zone total, 2025 dollars)	0, 0	NWS zone UTZ022 (SOUTHEAST UTAH), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Wildfire
2022-07-17	Excessive Heat		\$0 property; \$0 crops (zone total, 2022 dollars)	1, 0	NWS zone UTZ029 (CANYONLANDS / NATURAL BRIDGES), zone-level	within last 5 years	deaths or injuries recorded
2021-07-25	Debris Flow		\$50,000 property; \$0 crops (2021 dollars)	0, 0	GRAND CO ARPT		B1-c worst recorded: Debris Flow
2021-06-14	Excessive Heat		\$0 property; \$0 crops (zone total, 2021 dollars)	0, 0	NWS zone UTZ029 (CANYONLANDS / NATURAL BRIDGES), zone-level		B1-c worst recorded: Excessive Heat, Heat
2019-01-25	Avalanche		\$0 property; \$0 crops (zone total, 2019 dollars)	1, 0	NWS zone UTZ028 (LA SAL & ABAJO MOUNTAINS), zone-level		deaths or injuries recorded
2015-02-22	Winter Storm		\$20,000 property; \$0 crops (zone total, 2015 dollars)	0, 0	NWS zone UTZ022 (SOUTHEAST UTAH), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2012-03-03	Avalanche		\$0 property; \$0 crops (zone total, 2012 dollars)	1, 0	NWS zone UTZ028 (LA SAL & ABAJO MOUNTAINS), zone-level		deaths or injuries recorded
2009-06-26	Lightning		\$100,000 property; \$0 crops (2009 dollars)	0, 0	MONTICELLO		B1-c worst recorded: Lightning
2006-04-05	High Wind	78 kt (90 mph) measured gust	\$2,000 property; crops not reported (zone total, 2006 dollars)	0, 0	NWS zone UTZ028 (LA SAL & ABAJO MOUNTAINS), zone-level		B1-c worst recorded: High Wind and Strong Wind
2003-09-09	Flash Flood		\$1,000,000 property; crops not reported (2003 dollars)	0, 0	BLUFF		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2002-09-07	Thunderstorm Wind	70 kt (81 mph) estimated	damage not reported	0, 0	EASTLAND		B1-c worst recorded: Thunderstorm Wind
2002-05-01	Drought		damage not reported	0, 0	NWS zone UTZ029 (CANYONLANDS / NATURAL BRIDGES), zone-level		B1-c worst recorded: Drought

The full list is in the Excel file, sheet "B1-d Storm Events history" (937 rows).

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

2 Fire Management declarations (1994-08-06 to 1994-08-06) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

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	0.0667	events per year	about 1 in 15 years	Possible	FEMA annualized frequency (modeled)	2	1994 to 2023 (30 years)	see B1-f	
Cold Wave	0.00000375	event-days per year	about 0.00000375 days per year	Likely	Storm Events event-days in 3 of 30 years, 1996 to 2025 (10%)	0.0000702	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	133	event-days per year	about 133 days per year	Likely	Storm Events event-days in 21 of 30 years, 1996 to 2025 (70%)	3,808	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00121	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.121%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.0627	events per year	about 1 in 16 years	Possible	FEMA annualized frequency (modeled)	2.4 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	1.24	event-days per year	about 1.24 days per year	Likely	Storm Events event-days in 3 of 30 years, 1996 to 2025 (10%)	17.8	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane		events per year					1851 to 2024 (Atlantic)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Ice Storm	0.0149	event-days per year	about 0.0149 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	0	1946-12-31 to 2014-02-12 (67 years)	countywide	No Storm Events ice storm record, 1996 to 2025
Inland Flooding	1.86	event-days per year	about 1.86 days per year	Likely	Storm Events event-days in 23 of 30 years, 1996 to 2025 (76.7%)	52	1996 to 2023 (28 years)	see B1-f	
Landslide	3.85	events per year (modeled)	about 3.85 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	46.6	days per year with a strike	about 46.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.0897	events per year	about 1 in 11 years	Possible	FEMA annualized frequency (modeled)	4	1986 to 2023 (38 years)	countywide	
Tornado	0.122	events per year	about 1 in 8 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	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
Volcanic Activity	0.0002	annual probability	about 1 in 5,000 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.00158	annual probability at a location	chance a given location in the county burns in a year: 0.158%	Likely	Storm Events records in 10 of 30 years, 1996 to 2025 (33.3%)	not shown	modeled	see B1-f	
Winter Weather	10.1	event-days per year	about 10.1 days per year	Highly likely	Storm Events event-days in 30 of 30 years, 1996 to 2025 (100%)	190	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	22	30	0.733
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	14	30	0.467
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	4	30	0.133
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	1	30	0.0333
Tornado	EF0-1	1996 to 2025	1	30	0.0333
Tornado	EF2-3	1996 to 2025	2	30	0.0667
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	4	30	0.133

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	4 of 4	79.4	82.8	85.0	Relatively Moderate 3, Relatively Low 1
Cold Wave	3 of 4	15.5	15.5	15.6	Very Low 3, No Rating 1
Drought	2 of 4	86.1	91.0	95.9	Relatively Moderate 1, Relatively Low 1, No Rating 2
Earthquake	4 of 4	58.1	66.4	71.3	Relatively Low 4
Hail	4 of 4	7.6	15.9	22.0	Very Low 4
Heat Wave	4 of 4	68.0	95.5	95.8	Relatively High 3, Relatively Moderate 1
Hurricane	0 of 4				Not Applicable 4
Ice Storm	4 of 4	32.0	45.8	51.5	Relatively Low 3, Very Low 1
Inland Flooding	4 of 4	37.0	41.1	58.4	Relatively Moderate 1, Relatively Low 3
Landslide	4 of 4	99.3	99.7	99.8	Relatively High 3, Relatively Moderate 1
Lightning	4 of 4	98.1	99.0	99.7	Very High 4

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	4 of 4	20.9	30.7	32.6	Relatively Low 4
Tornado	4 of 4	5.1	11.1	13.8	Very Low 4
Volcanic Activity	1 of 4	43.3	43.3	43.3	Very Low 1, No Rating 3
Wildfire	4 of 4	84.5	90.0	96.2	Relatively Moderate 2, Relatively Low 2
Winter Weather	4 of 4	93.2	96.0	99.2	Very High 2, Relatively High 2

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

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

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

Frequency data for cold wave, drought, hail, heat wave, ice storm, 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	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat- flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
San Juan County	County	Approved, expires 2028-11-06	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Blanding city	City	Approved, expires 2028-11-06	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	15 total; 0 since its plan	
Bluff town	Town	Approved, expires 2028-11-06		no Public Assistance recorded	11 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Monticello city	City	Approved, expires 2028-11-06	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	24 total; 0 since its plan	

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2023-11-07 <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	\$17,300,353	n/a	5	\$58	n/a	\$913,333	0.000336%				
Cold Wave	\$40,326,476	\$5,728	169	under \$1	under \$1	\$4	under 0.0001%		\$0		
Drought	n/a	\$6,281,499	n/a	n/a	\$130,273	n/a	2.07% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$9,246,040,629	n/a	14,518	\$181,983	n/a	\$29,019	0.00197%				
Hail	\$5,143,293,849	\$21,613,905	14,449	\$1,931	\$99	\$67	under 0.0001%	\$0			
Heat Wave	\$5,143,293,849	\$21,613,905	14,449	\$15	\$139	\$775,736	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$5,143,293,849	n/a	14,449	\$37	n/a	\$11,634	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2023-11-07 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Inland Flooding	\$5,037,411,647	\$0	0	\$1,607,233	\$0	\$0	n/a (see note)	\$50,000			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	\$190,339,588	n/a	352	\$2,737	n/a	\$489,286	0.00144%				
Lightning	\$5,143,293,849	n/a	14,449	\$7,140	n/a	\$421,248	0.000139%				
Strong Wind	\$5,143,293,849	\$21,613,905	14,449	\$8,296	\$120	\$14,722	0.000161%	\$0	\$0		
Tornado	\$5,143,293,849	\$21,613,905	14,449	\$7,467	\$64	\$5,688	0.000145%	\$0			
Volcanic Activity	\$5,143,293,849	n/a	14,449	under \$1	n/a	under \$1	under 0.0001%				
Wildfire	\$1,733,136,572	\$9,773,992	6,008	\$288,752	\$41	\$9,283	0.0167%		\$13,500,000	no Public Assistance recorded (1 declaration)	
Winter Weather	\$5,143,293,849	\$21,613,905	14,449	\$21,814	\$54	\$112,996	0.000424%		\$0		

Totals since 2023-11-07 (Storm Events through 2026-06-30): 16 county-coded records, 16 with a damage value recorded (including \$0), \$50,000; 74 zone-level records, 72 with a damage value recorded (including \$0), \$13,500,000 reported for the zone; Public Assistance: none recorded on the 1 counted declaration.

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

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

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

County context

Source: 5

Measure	Value
Population	14,449
Building value (total, not at risk)	\$5,143,293,849
Agriculture value (total, not at risk)	\$21,613,905
NRI risk rating (all hazards)	Very Low
Expected annual loss, buildings and agriculture, all hazards	\$2,258,253
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)	\$2,783,017
Social vulnerability rating	Very 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)	0
Repetitive loss, NFIP insurance definition	0	Severe repetitive loss, NFIP insurance definition	0

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

Repeat-flood properties: county total and NFIP communities

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	0	0	0	0	0	0

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

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
San Juan County	490109	0	0	0	0	0	0	0
Blanding city	490238	0	0	0	0	0	0	0
Monticello city	490212	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: 0 in every occupancy group.

Sources: 1, 4

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 0 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

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

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

What this packet is and what the plan adds

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

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

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

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