

Butte County, ID

Risk-assessment baseline packet

County FIPS: 16023 **Release:** 2026-10 **Data as of:** 2026-09-30 **Storm Events data through:** 2026-06-30

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

Summary

Plan status as of 2026-09-30: Approved, expires 2030-10-20. Plan: Butte County (FEMA plan 110356), approved 2025-10-21.

Since the plan was approved on 2025-10-21: no new hazard declaration and 49 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 (\$1,150,924 a year), Cold Wave (\$610,153) and Avalanche (\$456,667).

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; 16023 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 2030-10-20

Approved:2025-10-21

Plan:Butte County (FEMA plan 110356)

Days to expiry:1,481

What changed since your last plan (approved 2025-10-21)

New federal declarations:none

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:49 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
Butte County	County	Approved, expires 2030-10-20	Butte County (FEMA plan 110356)	2025-10-21	2030-10-20	1,481
Arco city	City	Approved, expires 2030-10-20	Butte County (FEMA plan 110356)	2025-10-21	2030-10-20	1,481
Moore city	City	Approved, expires 2030-10-20	Butte County (FEMA plan 110356)	2025-10-21	2030-10-20	1,481

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

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Very Low	Very Low	\$1,146,496	\$4,203	\$225	\$1,150,924	11		
2	Cold Wave	Relatively Low	Relatively Low	\$897	\$61,238	\$548,018	\$610,153	6		
3	Avalanche	Relatively Moderate	Relatively Low	under \$1	n/a	\$456,667	\$456,667	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
4	Earthquake	Very Low	Very Low	\$169,275	n/a	\$38,086	\$207,361			Storm Events does not record earthquakes.
5	Heat Wave	Very Low	Very Low	\$3	\$1,115	\$108,894	\$110,011	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
6	Wildfire	Very Low	Very Low	\$58,473	\$43	\$1,639	\$60,155	14		
7	Strong Wind	Very Low	Very Low	\$34,260	\$1,673	\$14,836	\$50,769	271		Includes 54 High Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
8	Winter Weather	Relatively Low	Relatively Low	\$429	under \$1	\$31,655	\$32,084	60		
9	Lightning	Very Low	Very Low	\$1,052	n/a	\$13,642	\$14,694	1		
10	Tornado	Very Low	Very Low	\$5,615	\$443	\$567	\$6,626	5		
11	Hail	Very Low	Very Low	\$3,456	\$441	\$274	\$4,171	19		

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	Drought	Very Low	Very Low	n/a	\$2,332	n/a	\$2,332	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Landslide	Very Low	Very Low	\$122	n/a	\$1,441	\$1,563	0		Declared 1 time; no Storm Events record of this type.
14	Ice Storm	Very Low	Very Low	\$1,000	n/a	\$176	\$1,176	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Volcanic Activity	Very Low	Very Low	\$14	n/a	\$6	\$21	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-3244-ID 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 landslide and volcanic activity records (Storm Events records these hazards only in part).

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: coastal flooding and tsunami. 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.

NRI rating of the county's single census tract

Source: 5

Hazard	Census tract <i>NRI risk rating, score 0 to 100</i>
Avalanche	tract 9701 (Relatively Low, 76.6)
Earthquake	tract 9701 (Relatively Moderate, 81.9)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 9701 (Relatively Low, 94.4)
Tornado	tract 9701 (Very Low, 19.4)
Volcanic Activity	tract 9701 (Relatively Low, 86.7)
Wildfire	tract 9701 (Relatively Moderate, 93.6)

A tract number is the Census tract number (for example 9701 is Census Tract 9701). 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					
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	6 records, 2022 to 2025 (6 zone-level)	1 day to 3 days (median 2 days); 5 with a recorded value	3 consecutive days, 2023-01-29 to 2023-01-31, zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					

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)	0					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)	26 records, 1962 to 2024	0.25 in to 1.75 in (median 1 in); 25 with a recorded value	1.75 in hail, 1997-05-31	Hail, 2000-07-18, property not reported; \$10,000 crops (2000 dollars)	Event records naming jurisdictions in the plan: Arco city (9 records), Moore city (4 records).	
Excessive Heat, Heat	heat index (in event narratives)	0					
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)	11 records, 1998 to 2019		Flood, 2017-02-04, \$265,000 property; \$0 crops (2017 dollars)		Event records naming jurisdictions in the plan: Moore city (6 records), Arco city (3 records).	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	0					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1 record, 2025		Lightning, 2025-06-11, \$7,000 property; \$0 crops (2025 dollars)		Event records naming jurisdictions in the plan: Arco 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)	54 records, 2020 to 2026 (54 zone-level)	50 kt (58 mph) to 77 kt (89 mph) (median 60.5 kt (70 mph)); 54 with a recorded value	77 kt (89 mph) measured gust, High Wind, 2026-03-14; NWS zone IDZ052	High Wind, 2020-09-07, \$300,000 property; \$0 crops (zone total, 2020 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	221 records, 1959 to 2026	50 kt (58 mph) to 86 kt (99 mph) (median 54 kt (62 mph)); 218 with a recorded value	86 kt (99 mph) measured, Thunderstorm Wind, 2002-04-14	Thunderstorm Wind, 2009-04-22, \$4,000 property; \$0 crops (2009 dollars)	Event records naming jurisdictions in the plan: Arco city (122 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)	8 records, 1954 to 2018	F/EF0 to F/EF1 (median F/EF0); 7 with a recorded value	F1 tornado, 1992-05-21, 0.2 mi path length (whole path, pre-1996), 20 yd wide, \$2,500 property; crops not recorded (1992 dollars); same rating, casualties and property damage also recorded on 1987-07-18	Tornado, 2018-06-21, \$3,000 property; \$0 crops (2018 dollars)	Event records naming jurisdictions in the plan: Arco city (3 records).	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)	14 records, 1999 to 2022 (11 zone-level)		Wildfire, 2021-06-15, \$22,000 property; \$0 crops (2021 dollars); NWS zone IDZ068		Event records naming jurisdictions in the plan: Arco city (2 records). Zone- level records (11) apply countywide.	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	60 records, 2018 to 2026 (60 zone-level)		Winter Weather, 2023-12-04, \$15,000 property; \$0 crops (2023 dollars); NWS zone IDZ052		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>	Notes
2020-04-09	2020-01-20	DR-4534-ID	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$29,197.86	
2020-03-13	2020-01-20	EM-3467-ID	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded	same incident as DR-4534
2005-09-13	2005-08-29	EM-3244-ID	Emergency	Hurricane Katrina	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded	
1997-06-13	1997-03-14	DR-1177-ID	Major disaster	Severe Storms, Snowmelt, Land/Mud Slides, Flooding	Inland Flooding; Landslide	no Public Assistance recorded	
1983-11-18	1983-10-28	DR-694-ID	Major disaster	Earthquake	Earthquake	no Public Assistance recorded	
1964-12-31	1964-12-31	DR-186-ID	Major disaster	Heavy Rains & 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
1963-02-14	1963-02-14	DR-143-ID	Major disaster	Floods	Inland Flooding
1962-02-14	1962-02-14	DR-120-ID	Major disaster	Floods	Inland Flooding
1961-06-26	1961-06-26	DR-116-ID	Major disaster	Floods	Inland Flooding
1960-07-22	1960-07-22	DR-105-ID	Major disaster	Fires	Wildfire
1957-05-27	1957-05-27	DR-76-ID	Major disaster	Flood	Inland Flooding
1956-04-21	1956-04-21	DR-55-ID	Major disaster	Floods	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.

2 Fire Management declarations (1977-08-20 to 1979-08-08) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

Public Assistance not placed in any Idaho county: 1 row, \$107,969.35; listed on the Idaho state page.

Source: 3

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	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	6	0	2	6	0	0	1996 to 2026-06-30	
Drought	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Earthquake	0	0	0	0	1	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	26	0	0	2	0	0	1955 to 2026-06-30	
Heat Wave	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Inland Flooding	11	0	0	0	2	0	1996 to 2026-06-30	
Landslide	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Lightning	1	0	1	1	0	0	1996 to 2026-06-30	
Strong Wind	275	45	37	149	0	0	1955 to 2026-06-30	Includes 54 High Wind records.
Tornado	8	0	0	0	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	14	0	0	1	0	0	1996 to 2026-06-30	
Winter Weather	60	4	5	37	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
2026-03-14	High Wind	77 kt (89 mph) measured gust	\$150,000 property; \$0 crops (zone total, 2026 dollars)	0, 0	NWS zone IDZ052 (ARCO-MUD LAKE DESERT), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2025-06-11	Lightning		\$7,000 property; \$0 crops (2025 dollars)	0, 0	ARCO	in the 12 months before plan approval; within last 5 years	B1-c worst recorded: Lightning
2023-12-04	Winter Weather		\$15,000 property; \$0 crops (zone total, 2023 dollars)	0, 0	NWS zone IDZ052 (ARCO-MUD LAKE DESERT), zone-level	within last 5 years	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2023-01-29	Extreme Cold/ Wind Chill		\$0 property; \$0 crops (zone total, 2023 dollars)	0, 0	NWS zone IDZ052 (ARCO-MUD LAKE DESERT), zone-level	within last 5 years	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2021-06-15	Wildfire		\$22,000 property; \$0 crops (zone total, 2021 dollars)	0, 0	NWS zone IDZ068 (LOST RIVER VALLEYS), zone-level		B1-c worst recorded: Wildfire
2020-09-07	High Wind	67 kt (77 mph) measured gust	\$300,000 property; \$0 crops (zone total, 2020 dollars)	0, 0	NWS zone IDZ052 (ARCO-MUD LAKE DESERT), zone-level		B1-c most damaging: High Wind and Strong Wind
2018-06-21	Tornado	EF0, 5.1 mi within this county, 80 yd wide	\$3,000 property; \$0 crops (2018 dollars)	0, 0	DARLINGTON		B1-c most damaging: Tornado
2017-02-04	Flood		\$265,000 property; \$0 crops (2017 dollars)	0, 0	MOORE to ARCO BUTTE		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2009-04-22	Thunderstorm Wind	55 kt (63 mph) measured gust	\$4,000 property; \$0 crops (2009 dollars)	0, 0	ARCO		B1-c most damaging: Thunderstorm Wind
2002-04-14	Thunderstorm Wind	86 kt (99 mph) measured	damage not reported	0, 0	ARCO		B1-c worst recorded: Thunderstorm Wind
1997-05-31	Hail	1.75 in	damage not reported	0, 0	HOWE		B1-c worst recorded: Hail
1992-05-21	Tornado	F1, 0.2 mi path length (whole path, pre-1996), 20 yd wide	\$2,500 property; crops not recorded (1992 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (401 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	0.0333	events per year	about 1 in 30 years	Possible	FEMA annualized frequency (modeled)	1	1994 to 2023 (30 years)	see B1-f	
Cold Wave	2.07	event-days per year	about 2.07 days per year	Likely	Storm Events event-days in 3 of 30 years, 1996 to 2025 (10%)	39.3	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	93.4	event-days per year	about 93.4 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	2,359	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.00958	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.958%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.237	events per year	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	9.0 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	1.06	event-days per year	about 1.06 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	16.8	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events heat wave record, 1996 to 2025
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	0.393	event-days per year	about 0.393 days per year	Likely	Storm Events event-days in 6 of 30 years, 1996 to 2025 (20%)	11	1996 to 2023 (28 years)	see B1-f	
Landslide	0.42	events per year (modeled)	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	27.2	days per year with a strike	about 27.2 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.759	events per year	about 0.76 per year	Likely	FEMA annualized frequency (modeled)	29	1986 to 2023 (38 years)	countywide	
Tornado	0.23	events per year	about 1 in 4 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	0.0005	annual probability	about 1 in 2,000 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.00142	annual probability at a location	chance a given location in the county burns in a year: 0.142%	Likely	Storm Events records in 7 of 30 years, 1996 to 2025 (23.3%)	not shown	modeled	see B1-f	
Winter Weather	12.7	event-days per year	about 12.7 days per year	Likely	Storm Events event-days in 8 of 30 years, 1996 to 2025 (26.7%)	241	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	11	30	0.367
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	184	30	6.13
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	8	30	0.267
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	5	30	0.167
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

NRI risk score of the county's single census tract

Source: 5

Hazard	Tract score <i>NRI score, 0 to 100</i>	Rating
Avalanche	76.6	Relatively Low
Cold Wave	97.9	Very High
Drought	83.0	Relatively Low
Earthquake	81.9	Relatively Moderate
Hail	44.2	Relatively Low
Heat Wave	85.1	Relatively High
Hurricane		Not Applicable
Ice Storm	19.5	Very Low
Inland Flooding	87.3	Relatively High
Landslide	94.4	Relatively Low
Lightning	64.0	Relatively Moderate
Strong Wind	83.2	Relatively High

Hazard	Tract score	Rating
	NRI score, 0 to 100	
Tornado	19.4	Very Low
Volcanic Activity	86.7	Relatively Low
Wildfire	93.6	Relatively Moderate
Winter Weather	97.3	Very High

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.

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
			FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition	FEMA records matched by applicant name; federal share obligated, nominal dollars	all years; since its plan	
Butte County	County	Approved, expires 2030-10-20	FMA RL 0, SRL 0; any 0	\$29,197.86	0 total; 0 since its plan	Includes \$29,197.86 for declarations not counted as hazard incidents (DR-4534-ID).
Arco city	City	Approved, expires 2030-10-20	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	140 total; 10 since its plan	
Moore city	City	Approved, expires 2030-10-20		no Public Assistance recorded	10 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.

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 2025-10-21 <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	\$395,324	n/a	10	under \$1	n/a	\$456,667	0.0001%				
Cold Wave	\$1,110,080,953	\$54,301,366	2,574	\$897	\$61,238	\$548,018	under 0.0001%				
Drought	n/a	\$23,332,693	n/a	n/a	\$2,332	n/a	0.00999% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$1,995,787,289	n/a	2,574	\$169,275	n/a	\$38,086	0.00848%				
Hail	\$1,110,080,953	\$54,301,366	2,574	\$3,456	\$441	\$274	0.000311%				
Heat Wave	\$1,110,080,953	\$54,301,366	2,574	\$3	\$1,115	\$108,894	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$1,110,080,953	n/a	2,574	\$1,000	n/a	\$176	under 0.0001%				
Inland Flooding	\$1,109,845,217	\$7,434,098	412	\$1,146,496	\$4,203	\$225	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	\$8,927,046	n/a	9	\$122	n/a	\$1,441	0.00137%				
Lightning	\$1,110,080,953	n/a	2,574	\$1,052	n/a	\$13,642	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 2025-10-21 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Strong Wind	\$1,110,080,953	\$54,301,366	2,574	\$34,260	\$1,673	\$14,836	0.00309%	\$0	\$170,000		Storm Events damage since the plan includes 2 zone-level High Wind records (\$170,000): a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition.
Tornado	\$1,110,080,953	\$54,301,366	2,574	\$5,615	\$443	\$567	0.000506%				
Volcanic Activity	\$1,110,080,953	n/a	2,574	\$14	n/a	\$6	under 0.0001%				
Wildfire	\$133,021,685	\$11,662,649	601	\$58,473	\$43	\$1,639	0.044%				
Winter Weather	\$1,110,080,953	\$54,301,366	2,574	\$429	under \$1	\$31,655	under 0.0001%		\$0		

Totals since 2025-10-21 (Storm Events through 2026-06-30): 25 county-coded records, 25 with a damage value recorded (including \$0), \$0; 24 zone-level records, 24 with a damage value recorded (including \$0), \$170,000 reported for the zone; Public Assistance: no counted declaration since the plan.

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	2,574
Building value (total, not at risk)	\$1,110,080,953
Agriculture value (total, not at risk)	\$54,301,366
NRI risk rating (all hazards)	Very Low
Expected annual loss, buildings and agriculture, all hazards	\$1,492,581
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)	\$1,216,126
Social vulnerability rating	Relatively Moderate
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>
Butte County	160033	0	0	0	0	0	0	0
Arco city	160034	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