

Gallatin County, MT

Risk-assessment baseline packet

County FIPS: 30031 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: Expired on 2026-01-20. Plan: Gallatin County, MT Hazard Mitigation Plan 2021 (FEMA plan 106200), approved 2021-01-21.
Update: FEMA tracker shows a plan in review.
Since the plan was approved on 2021-01-21: no new hazard declaration and 260 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): Earthquake (\$17,189,253 a year), Inland Flooding (\$15,524,083) and Cold Wave (\$14,343,617).
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; 30031 is this area.
D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).
F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.
kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.
CFR: Code of Federal Regulations.
A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).
Dollars: nominal (as reported, labeled with the year), not adjusted for inflation.

CONTENTS

- 1. Summary and terms used, page 1
- 2. Plan clock, page 2
- 3. What changed since your last plan (approved 2021-01-21), page 2
- 4. B1-a: hazard identification, page 4
- 5. B1-b: hazard location, page 6
- 6. B1-c: hazard extent, page 6
- 7. B1-d: previous occurrences, page 9
- 8. B1-e: probability of future events, page 12
- 9. B1-f: hazards that vary across jurisdictions, page 14
- 10. B2-a and B2-b: vulnerability and potential impacts, page 16
- 11. B2-a: vulnerability (county context), page 17
- 12. B2-c: repetitive loss properties, page 18
- 13. Sources, what the plan adds, disclaimer and citation, page 19

Plan clock

Status:	Expired on 2026-01-20	Plan:	Gallatin County, MT Hazard Mitigation Plan 2021 (FEMA plan 106200)
Approved:	2021-01-21	Days since expiry:	253
Update underway:	FEMA tracker shows a plan in review		

Until a new plan is approved, FEMA mitigation project grants (HMGP, FMA) need a FEMA exception (44 CFR 201.6(a)(3)).

What changed since your last plan (approved 2021-01-21)

New federal declarations:	none	Storm Events records since approval:	260 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 1	Repeat-flood change:	this release sets the baseline count.

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

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	
						<i>negative = days since expiry</i>	Update underway
Gallatin County	County	Expired on 2026-01-20	Gallatin County, MT Hazard Mitigation Plan 2021 (FEMA plan 106200)	2021-01-21	2026-01-20	-253	FEMA tracker shows a plan in review
Belgrade city	City	Expired on 2026-01-20	Gallatin County, MT Hazard Mitigation Plan 2021 (FEMA plan 106200)	2021-01-21	2026-01-20	-253	FEMA tracker shows a plan in review
Big Sky CDP	Unincorporated	No approved plan on record	none	none	none		FEMA tracker shows a plan in review
Bozeman city	City	Expired on 2026-01-20	Gallatin County, MT Hazard Mitigation Plan 2021 (FEMA plan 106200)	2021-01-21	2026-01-20	-253	FEMA tracker shows a plan in review
Manhattan town	Town	Expired on 2026-01-20	Gallatin County, MT Hazard Mitigation Plan 2021 (FEMA plan 106200)	2021-01-21	2026-01-20	-253	FEMA tracker shows a plan in review
Three Forks city	City	Expired on 2026-01-20	Gallatin County, MT Hazard Mitigation Plan 2021 (FEMA plan 106200)	2021-01-21	2026-01-20	-253	FEMA tracker shows a plan in review
West Yellowstone town	Town	Expired on 2026-01-20	Gallatin County, MT Hazard Mitigation Plan 2021 (FEMA plan 106200)	2021-01-21	2026-01-20	-253	FEMA tracker shows a plan in review
MT State University at Bozeman	College/University	Expired on 2026-01-20	Gallatin County, MT Hazard Mitigation Plan 2021 (FEMA plan 106200)	2021-01-21	2026-01-20	-253	

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 modeled dollars per year	EAL agriculture modeled dollars per year	Cost of expected deaths and injuries FEMA's dollar value per year, not property damage	EAL total (see note) modeled dollars per year	Storm Events records, 1996 to 2026-06-30 count	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	Earthquake	Relatively Moderate	Relatively Moderate	\$12,850,529	n/a	\$4,338,724	\$17,189,253			Storm Events does not record earthquakes.
2	Inland Flooding	Relatively Low	Relatively Moderate	\$15,439,293	\$75,299	\$9,491	\$15,524,083	15		
3	Cold Wave	Relatively High	Relatively High	\$43,391	\$305,699	\$13,994,527	\$14,343,617	27		
4	Avalanche	Very High	Very High	\$35	n/a	\$7,199,216	\$7,199,250	18		
5	Winter Weather	Very High	Very High	\$19,782	\$416	\$3,581,944	\$3,602,141	422		
6	Wildfire	Relatively Moderate	Relatively Moderate	\$2,382,397	\$212	\$133,319	\$2,515,928	36		
7	Lightning	Relatively High	Relatively High	\$2,287	n/a	\$2,163,867	\$2,166,154	1		
8	Hail	Relatively Moderate	Relatively Moderate	\$1,636,132	\$21,572	\$49,338	\$1,707,041	79		
9	Strong Wind	Relatively Low	Relatively Moderate	\$67,248	\$4,385	\$533,306	\$604,939	211		Includes 127 High Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
10	Landslide	Relatively Moderate	Relatively Moderate	\$39,000	n/a	\$313,153	\$352,152	1		
11	Tornado	Very Low	Very Low	\$89,865	\$153	\$168,603	\$258,621	2		
12	Heat Wave	Very Low	Very Low	\$39	\$1,485	\$184,052	\$185,576	4		

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	Cost of expected deaths and injuries FEMA's dollar value per year, not property damage	EAL total (see note) modeled dollars per year	Storm Events records, 1996 to 2026-06-30 count	Why this hazard can be left out NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
13	Drought	Relatively Low	Relatively Low	n/a	\$78,402	n/a	\$78,402	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Ice Storm	Very Low	Relatively Low	\$25,487	n/a	\$8,107	\$33,594	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Volcanic Activity	Very Low	Very Low	under \$1	n/a	\$1	\$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-3253-MT 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 3 (Relatively High, 96.9); tract 5.04 (Relatively High, 96.0); tract 12 (Relatively High, 95.6)
Earthquake	tract 15 (Relatively High, 92.3); tract 7.01 (Relatively High, 91.8); tract 6 (Relatively High, 91.0)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 17 (Relatively High, 99.8); tract 16 (Relatively High, 99.3); tract 3 (Relatively Moderate, 97.8)
Tornado	tract 5.02 (Very Low, 26.6); tract 4 (Very Low, 26.4); tract 1.01 (Very Low, 25.7)
Volcanic Activity	tract 15 (Very Low, 42.9); tract 16 (Very Low, 40.9)
Wildfire	tract 16 (Relatively High, 98.3); tract 17 (Relatively High, 97.9); tract 12 (Relatively Moderate, 96.1)

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 3 is Census Tract 3). 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)	18 records, 1998 to 2023 (18 zone-level)		No damage reported in 18 records.		Countywide (zone-level records).	
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	27 records, 1996 to 2025 (27 zone-level)	1 day to 6 days (median 2 days); 17 with a recorded value	6 consecutive days, 1996-01-30 to 1996-02-04, 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)	94 records, 1958 to 2024	0.75 in to 2.75 in (median 1 in); 94 with a recorded value	2.75 in hail, 2010-06-30	Hail, 2010-06-30, \$60,000,000 property; \$0 crops (2010 dollars)	Event records naming jurisdictions in the plan: Bozeman city (38 records), Belgrade city (6 records), Big Sky CDP (3 records), Manhattan town (3 records), Three Forks city (3 records).	
Excessive Heat, Heat	heat index (in event narratives)	4 records, 2021 to 2026 (4 zone-level)	7 days to 8 days (median 7.5 days); 2 with a recorded value	8 consecutive days, 2022-09-01 to 2022-09-08, zone-level		Countywide (zone-level records).	Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.
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)	15 records, 2003 to 2023 (3 zone-level)		Flood, 2023-04-10, \$1,000,000 property; \$0 crops (2023 dollars)		Event records naming jurisdictions in the plan: Bozeman city (6 records), Big Sky CDP (1 record), Three Forks city (1 record). Zone-level records (3) 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)	1 record, 2004 (1 zone-level)		Debris Flow, 2004-07-18, \$275,000 property; crops not reported (2004 dollars); NWS zone WYZ001		Countywide (zone-level records).	
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1 record, 1999		Lightning, 1999-06-17, damage not reported, 1 direct death		Event records naming jurisdictions in the plan: Bozeman 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)	127 records, 1996 to 2026 (127 zone-level)	36 kt (41 mph) to 82 kt (94 mph) (median 54 kt (62 mph)); 127 with a recorded value	82 kt (94 mph), measurement type not recorded, High Wind, 1996-08-05, 3 direct injuries (reported for the zone); NWS zone WYZ001		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
Thunderstorm Wind	wind speed (kt and mph)	115 records, 1959 to 2025	50 kt (58 mph) to 92 kt (106 mph) (median 52 kt (60 mph)); 109 with a recorded value	92 kt (106 mph), measurement type not recorded, Thunderstorm Wind, 1970-06-27	Thunderstorm Wind, 1994-07-05, \$50,000 property; crops not recorded (1994 dollars)	Event records naming jurisdictions in the plan: Bozeman city (28 records), Belgrade city (18 records), Big Sky CDP (4 records), Manhattan town (2 records), West Yellowstone town (2 records), Three Forks city (1 record).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	4 records, 1960 to 1997	F/EF0 to F/EF1 (median F/EF0); 4 with a recorded value	F1 tornado, 1960-06-15, 1.3 mi path length (whole path, pre-1996), 17 yd wide, \$2,500 property; crops not recorded (1960 dollars)		Event records naming jurisdictions in the plan: Bozeman city (2 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)	36 records, 2000 to 2026 (32 zone-level)		Wildfire, 2000-09-01, \$160,000 property; crops not reported (2000 dollars), 3 direct injuries		Event records naming jurisdictions in the plan: Belgrade city (2 records), West Yellowstone town (2 records). Zone-level records (32) apply countywide.	
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	422 records, 1996 to 2026 (422 zone-level)		Winter Storm, 1998-10-15, \$1,000,000 property; crops not reported (1998 dollars); NWS zone WYZ001		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: 9 declarations covering 5 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
2020-09-05	2020-09-05	FM-5346-MT	Fire management	Bridger Foothills Fire	Wildfire	no Public Assistance recorded	in the 12 months before plan approval	
2020-03-31	2020-01-20	DR-4508-MT	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$3,354,012.01	in the 12 months before plan approval	
2020-03-13	2020-01-20	EM-3476-MT	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded	in the 12 months before plan approval	same incident as DR-4508
2005-09-13	2005-08-29	EM-3253-MT	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2001-07-07	2001-06-03	DR-1385-MT	Major disaster	Severe Winter Storms	Winter Weather	\$327,019.26		
2000-08-30	2000-07-13	DR-1340-MT	Major disaster	Wildfires	Wildfire	PA not declared for this county		
2000-08-16	2000-08-16	FM-2321-MT	Fire management	Mt - South Central Zone 4 Fire Complex	Wildfire	no Public Assistance recorded		same incident as DR-1340
1996-02-23	1996-02-04	DR-1105-MT	Major disaster	Severe Storms, Flooding, and Ice Jams	Inland Flooding	no Public Assistance recorded		
1981-05-27	1981-05-27	DR-640-MT	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
1964-12-18	1964-12-18	DR-182-MT	Major disaster	Severe Winter Storm	Winter Weather
1964-06-09	1964-06-09	DR-172-MT	Major disaster	Heavy Rains & Flooding	Inland Flooding
1953-06-06	1953-06-06	DR-5-MT	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.

11 Fire Management declarations (1973-08-16 to 1996-09-06) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

Public Assistance not placed in any Montana county: 2 rows, \$679,475.72; listed on the Montana 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	18	4	0	4	0	0	1996 to 2026-06-30	
Cold Wave	27	15	1	15	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	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	94	12	13	11	0	0	1955 to 2026-06-30	
Heat Wave	4	4	0	3	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Inland Flooding	15	2	0	1	2	0	1996 to 2026-06-30	
Landslide	1	0	0	0	0	0	1996 to 2026-06-30	
Lightning	1	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	242	95	15	77	0	0	1955 to 2026-06-30	Includes 127 High Wind records.
Tornado	4	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	36	12	4	12	2	0	1996 to 2026-06-30	
Winter Weather	422	116	18	111	1	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
2023-04-10	Flood		\$1,000,000 property; \$0 crops (2023 dollars)	0, 0	CHESTNUT to SEDAN	new since last plan; within last 5 years	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2022-02-06	Avalanche		property not reported; \$0 crops (zone total, 2022 dollars)	1, 0	NWS zone MTZ055 (GALLATIN), zone-level	new since last plan; within last 5 years	deaths or injuries recorded
2016-10-11	Winter Storm		\$0 property; \$0 crops (zone total, 2016 dollars)	1, 0	NWS zone MTZ055 (GALLATIN), zone-level		deaths or injuries recorded
2014-01-01	Avalanche		\$0 property; \$0 crops (zone total, 2014 dollars)	1, 0	NWS zone MTZ055 (GALLATIN), zone-level		deaths or injuries recorded
2010-06-30	Hail	2.75 in	\$0 property; \$0 crops (2010 dollars)	0, 0	BELGRADE		B1-c worst recorded: Hail
2004-07-18	Debris Flow		\$275,000 property; crops not reported (zone total, 2004 dollars)	0, 0	NWS zone WYZ001 (YELLOWSTONE NATIONAL PARK), zone-level		B1-c worst recorded: Debris Flow
2000-09-01	Wildfire		\$160,000 property; crops not reported (2000 dollars)	0, 3	BELGRADE		B1-c worst recorded: Wildfire
1999-06-17	Lightning		damage not reported	1, 0	BOZEMAN		B1-c worst recorded: Lightning
1998-10-15	Winter Storm		\$1,000,000 property; crops not reported (zone total, 1998 dollars)	0, 0	NWS zone WYZ001 (YELLOWSTONE NATIONAL PARK MT ID / W PARK / N TETON), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
1996-08-05	High Wind	82 kt (94 mph), measurement type not recorded	\$54,000 property; crops not reported (zone total, 1996 dollars)	0, 3	NWS zone WYZ001 (YELLOWSTONE NATIONAL PARK), zone-level		B1-c worst recorded: High Wind and Strong Wind
1996-01-30	Cold/Wind Chill		damage not reported	0, 0	NWS zone WYZ001 (YELLOWSTONE NATIONAL PARK), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1970-06-27	Thunderstorm Wind	92 kt (106 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" (864 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	0.667	events per year	about 0.67 per year	Likely	FEMA annualized frequency (modeled)	20	1994 to 2023 (30 years)	see B1-f	
Cold Wave	3.57	event-days per year	about 3.57 days per year	Likely	Storm Events event-days in 12 of 30 years, 1996 to 2025 (40%)	67.9	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	71	event-days per year	about 71 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	2,380	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.056	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 5.6%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.511	events per year	about 0.51 per year	Likely	FEMA annualized frequency (modeled)	19.4 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	0.293	event-days per year	about 0.293 days per year	Likely	Storm Events event-days in 3 of 30 years, 1996 to 2025 (10%)	5.56	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	0.429	event-days per year	about 0.429 days per year	Likely	Storm Events event-days in 9 of 30 years, 1996 to 2025 (30%)	12	1996 to 2023 (28 years)	see B1-f	
Landslide	2.58	events per year (modeled)	about 2.58 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	37	days per year with a strike	about 37 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.441	events per year	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	17	1986 to 2023 (38 years)	countywide	
Tornado	0.0573	events per year	about 1 in 17 years	Possible	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	

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>									
Volcanic Activity	0.0002	annual probability	about 1 in 5,000 years	Unlikely	FEMA annualized frequency (modeled)	not shown		modeled	see B1-f	
Wildfire	0.00131	annual probability at a location	chance a given location in the county burns in a year: 0.131%	Likely	Storm Events records in 11 of 30 years, 1996 to 2025 (36.7%)	not shown		modeled	see B1-f	
Winter Weather	49.3	event-days per year	about 49.3 days per year	Highly likely	Storm Events event-days in 30 of 30 years, 1996 to 2025 (100%)	936		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	58	30	1.93
Hail	2.00 in+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	78	30	2.6
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	5	30	0.167
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	2	30	0.0667
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Avalanche	6 of 26	94.1	95.5	96.9	Relatively High 6, Not Applicable 20
Cold Wave	26 of 26	78.5	93.9	97.9	Very High 9, Relatively High 17
Drought	18 of 26	67.1	76.7	91.9	Relatively Low 7, Very Low 11, No Rating 8
Earthquake	26 of 26	76.5	85.1	92.3	Relatively High 9, Relatively Moderate 16, Relatively Low 1
Hail	26 of 26	66.9	82.5	90.9	Relatively High 5, Relatively Moderate 19, Relatively Low 2
Heat Wave	26 of 26	2.7	6.6	12.0	Very Low 26
Hurricane	0 of 26				Not Applicable 26
Ice Storm	26 of 26	4.9	12.3	24.8	Very Low 26
Inland Flooding	26 of 26	3.0	37.3	75.4	Relatively Moderate 9, Relatively Low 9, Very Low 8
Landslide	19 of 26	8.7	61.2	99.8	Relatively High 2, Relatively Moderate 2, Relatively Low 3, Very Low 12, No Rating 7
Lightning	26 of 26	77.1	94.5	98.4	Very High 11, Relatively High 14, Relatively Moderate 1

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	26 of 26	26.1	52.5	67.1	Relatively Moderate 13, Relatively Low 13
Tornado	26 of 26	4.1	19.8	26.6	Very Low 26
Volcanic Activity	2 of 26	40.9	41.9	42.9	Very Low 2, No Rating 24
Wildfire	26 of 26	36.5	83.9	98.3	Relatively High 2, Relatively Moderate 8, Relatively Low 10, Very Low 6
Winter Weather	26 of 26	97.9	99.7	99.9	Very High 26

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 <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
Gallatin County	County	Expired on 2026-01-20	FMA RL 0, SRL 0; any 1	\$267,266.01	0 total; 0 since its plan	Includes \$255,768.51 for declarations not counted as hazard incidents (DR-4508-MT).
Belgrade city	City	Expired on 2026-01-20	FMA RL 0, SRL 0; any 0	\$7,365.75	26 total; 12 since its plan	
Big Sky CDP	Unincorporated	No approved plan on record		no Public Assistance recorded	8 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Bozeman city	City	Expired on 2026-01-20	FMA RL 0, SRL 0; any 0	\$310,990.76	75 total; 12 since its plan	Includes \$5,972 for declarations not counted as hazard incidents (DR-4508-MT).
Manhattan town	Town	Expired on 2026-01-20	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	5 total; 1 since its plan	
Three Forks city	City	Expired on 2026-01-20	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	5 total; 0 since its plan	
West Yellowstone town	Town	Expired on 2026-01-20	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	4 total; 0 since its plan	

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

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

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2021-01-21 <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	\$1,730,955	n/a	10	\$35	n/a	\$7,199,216	0.002%		\$0		
Cold Wave	\$28,278,964,370	\$144,359,601	118,825	\$43,391	\$305,699	\$13,994,527	0.000153%		\$0		
Drought	n/a	\$71,175,620	n/a	n/a	\$78,402	n/a	0.11% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$48,944,803,758	n/a	118,960	\$12,850,529	n/a	\$4,338,724	0.0263%				
Hail	\$28,278,964,370	\$144,359,601	118,825	\$1,636,132	\$21,572	\$49,338	0.00579%	\$0			
Heat Wave	\$28,278,964,370	\$144,359,601	118,825	\$39	\$1,485	\$184,052	under 0.0001%		\$0		
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$28,278,964,370	n/a	118,825	\$25,487	n/a	\$8,107	under 0.0001%				
Inland Flooding	\$28,271,823,922	\$7,495,398	2,567	\$15,439,293	\$75,299	\$9,491	n/a (see note)	\$1,000,000			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	\$463,984,949	n/a	1,368	\$39,000	n/a	\$313,153	0.00841%				
Lightning	\$28,278,964,370	n/a	118,825	\$2,287	n/a	\$2,163,867	under 0.0001%				
Strong Wind	\$28,278,964,370	\$144,359,601	118,825	\$67,248	\$4,385	\$533,306	0.000238%	\$0	\$0		
Tornado	\$28,278,964,370	\$144,359,601	118,825	\$89,865	\$153	\$168,603	0.000318%				
Volcanic Activity	\$28,278,964,370	n/a	118,825	under \$1	n/a	\$1	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 2021-01-21 <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
Wildfire	\$4,960,319,986	\$63,027,469	36,358	\$2,382,397	\$212	\$133,319	0.048%		\$0		
Winter Weather	\$28,278,964,370	\$144,359,601	118,825	\$19,782	\$416	\$3,581,944	under 0.0001%		\$150,000		

Totals since 2021-01-21 (Storm Events through 2026-06-30): 51 county-coded records, 30 with a damage value recorded (including \$0), \$1,000,000; 209 zone-level records, 191 with a damage value recorded (including \$0), \$150,000 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	118,825
Building value (total, not at risk)	\$28,278,964,370
Agriculture value (total, not at risk)	\$144,359,601
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$33,083,106
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)	\$32,677,646
Social vulnerability rating	Very Low
Community resilience rating	Relatively High
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	1	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	1	0	1	0	1
of which: Gallatin County (unincorporated area)	0	0	1	0	1	0	1

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>
Gallatin County	300027	0	0	1	0	1	0	1
Belgrade city	300105	0	0	0	0	0	0	0
Bozeman city	300028	0	0	0	0	0	0	0
Manhattan town	300034	0	0	0	0	0	0	0
Three Forks city	300029	0	0	0	0	0	0	0
West Yellowstone town	300135	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	1	0	1	0	1
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	0	0	0	0	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 1 property is 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_Gaz_cousubs_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_Gaz_unsd_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_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)

What this packet is and what the plan adds

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

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

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

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Cite this: Hazard Plain (2026). Gallatin County, MT: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 30031). Automated baseline. <https://hazardplain.org/mt/30031/> Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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