

Natrona County, WY

Risk-assessment baseline packet

County FIPS: 56025 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 2030-01-28. Plan: Region Two, WY Hazard Mitigation Plan 2025 (FEMA plan 109565), approved 2025-01-29. Since the plan was approved on 2025-01-29: no new hazard declaration and 69 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 (\$18,668,067 a year), Cold Wave (\$5,044,585) and Wildfire (\$2,657,674). 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; 56025 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 2030-01-28	Plan:	Region Two, WY Hazard Mitigation Plan 2025 (FEMA plan 109565)
Approved:	2025-01-29	Days to expiry:	1,216

What changed since your last plan (approved 2025-01-29)

New federal declarations:	none	Storm Events records since approval:	69 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0	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>
Natrona County	County	Approved, expires 2030-01-28	Region Two, WY Hazard Mitigation Plan 2025 (FEMA plan 109565)	2025-01-29	2030-01-28	1,216
Bar Nunn town	Town	Approved, expires 2030-01-28	Region Two, WY Hazard Mitigation Plan 2025 (FEMA plan 109565)	2025-01-29	2030-01-28	1,216
Casper city	City	Approved, expires 2030-01-28	Region Two, WY Hazard Mitigation Plan 2025 (FEMA plan 109565)	2025-01-29	2030-01-28	1,216
Evansville town	Town	Approved, expires 2030-01-28	Region Two, WY Hazard Mitigation Plan 2025 (FEMA plan 109565)	2025-01-29	2030-01-28	1,216
Mills town	Town	Approved, expires 2030-01-28	Region Two, WY Hazard Mitigation Plan 2025 (FEMA plan 109565)	2025-01-29	2030-01-28	1,216
Casper Mountain Fire	Fire/EMS District	Approved, expires 2030-01-28	Region Two, WY Hazard Mitigation Plan 2025 (FEMA plan 109565)	2025-01-29	2030-01-28	1,216
Natrona County Fire District	Fire/EMS District	Approved, expires 2030-01-28	Region Two, WY Hazard Mitigation Plan 2025 (FEMA plan 109565)	2025-01-29	2030-01-28	1,216

Plan 109565 covers 8 other participants, named in the Excel file.
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>	Storm Events coverage note
1	Inland Flooding	Relatively Moderate	Relatively Moderate	\$18,618,499	\$341	\$49,227	\$18,668,067	31	
2	Cold Wave	Relatively Moderate	Relatively High	\$15,553	\$64,349	\$4,964,682	\$5,044,585	17	
3	Wildfire	Relatively Moderate	Relatively Moderate	\$2,546,484	\$246	\$110,943	\$2,657,674	14	
4	Earthquake	Relatively Low	Relatively Low	\$2,126,240	n/a	\$449,722	\$2,575,962		Storm Events does not record earthquakes.
5	Winter Weather	Very High	Very High	\$49,525	\$11	\$1,103,894	\$1,153,431	215	
6	Tornado	Relatively Low	Relatively Low	\$250,876	\$323	\$623,476	\$874,676	14	
7	Avalanche	Relatively Moderate	Relatively Low	under \$1	n/a	\$593,667	\$593,667	6	
8	Lightning	Relatively Moderate	Relatively Moderate	\$25,220	n/a	\$498,590	\$523,810	3	
9	Hail	Relatively Low	Relatively Low	\$163,147	\$239	\$53,821	\$217,208	138	
10	Landslide	Relatively Moderate	Relatively Low	\$4,023	n/a	\$79,843	\$83,866	2	
11	Ice Storm	Relatively Low	Relatively Low	\$1,602	n/a	\$65,256	\$66,858	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Heat Wave	Very Low	Very Low	\$15	\$321	\$53,683	\$54,019	8	

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	Storm Events coverage note
13	Strong Wind	Very Low	Very Low	\$32,375	\$50	\$11,223	\$43,647	444	Includes 333 High Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
14	Drought	Very Low	Very Low	n/a	\$6,071	n/a	\$6,071	0	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.

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: coastal flooding, hurricane, tsunami and volcanic activity. 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 16.03 (Relatively Low, 77.7); tract 18.02 (Relatively Low, 77.5); tract 18.01 (Relatively Low, 75.7)
Earthquake	tract 2 (Relatively Moderate, 85.6); tract 14.01 (Relatively Moderate, 83.7); tract 18.02 (Relatively Moderate, 83.7)
Landslide	tract 18.02 (Relatively Moderate, 99.3); tract 18.01 (Relatively Moderate, 99.0); tract 14.01 (Relatively Moderate, 97.4)
Tornado	tract 14.01 (Relatively Moderate, 60.6); tract 16.02 (Relatively Moderate, 54.3); tract 2 (Relatively Low, 50.2)
Wildfire	tract 18.01 (Relatively High, 98.4); tract 16.03 (Relatively High, 98.1); tract 18.02 (Relatively High, 98.0)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 16.03 is Census Tract 16.03). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Avalanche	none (count and damage only)	6 records, 2008 to 2019 (6 zone-level)		No damage reported in 6 records.		Countywide (zone-level records).	
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	17 records, 1996 to 2025 (17 zone-level)	1 day to 6 days (median 2 days); 16 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					
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)	166 records, 1959 to 2026	0.75 in to 3 in (median 1 in); 166 with a recorded value	3 in hail, 1964-05-29	Hail, 2000-07-20, \$108,000 property; crops not reported (2000 dollars)	Event records naming jurisdictions in the plan: Casper city (33 records), Evansville town (8 records), Mills town (8 records), Bar Nunn town (6 records).	
Excessive Heat, Heat	heat index (in event narratives)	8 records, 2019 to 2026 (8 zone-level)	1 day to 8 days (median 2.5 days); 6 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.
Ice Storm	Sperry-Piltz ice scale (local data)	0					
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	31 records, 1996 to 2023 (2 zone-level)		Flash Flood, 2009-07-03, \$5,000,000 property; \$0 crops (2009 dollars), 1 direct injury		Event records naming jurisdictions in the plan: Casper city (8 records), Mills town (3 records), Bar Nunn town (2 records). Zone-level records (2) 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)	2 records, 2011 (2 zone-level)		Debris Flow, 2011-04-18, \$237,000 property; \$0 crops (2011 dollars); NWS zone WYZ008		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
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	3 records, 2006 to 2013		Lightning, 2009-05-30, \$150,000 property; \$0 crops (2009 dollars)		Event records naming jurisdictions in the plan: Casper city (1 record), Mills town (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)	333 records, 1996 to 2026 (333 zone-level)	35 kt (40 mph) to 107 kt (123 mph) (median 62 kt (71 mph)); 333 with a recorded value	107 kt (123 mph) measured gust, High Wind, 2025-12-17; NWS zone WYZ019	High Wind, 2024-02-25, \$100,000 property; \$0 crops (zone total, 2024 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	153 records, 1959 to 2026	50 kt (58 mph) to 75 kt (86 mph) (median 54 kt (62 mph)); 148 with a recorded value	75 kt (86 mph) measured gust, Thunderstorm Wind, 2025-06-24	Thunderstorm Wind, 2013-07-05, \$30,000 property; \$0 crops (2013 dollars)	Event records naming jurisdictions in the plan: Casper city (20 records), Bar Nunn town (6 records), Evansville town (4 records), Mills town (2 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	40 records, 1962 to 2023	F/EF0 to F/EF2 (median F/EF0); 36 with a recorded value	F2 tornado, 1962-06-11, 52 mi path length (whole path, pre-1996), 100 yd wide, \$25,000 property; crops not recorded (1962 dollars), 4 direct injuries	Tornado, 1987-06-18, \$250,000 property; crops not recorded (1987 dollars)	Event records naming jurisdictions in the plan: Bar Nunn town (2 records), Casper city (1 record), Evansville town (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Wildfire	acres burned (local data)	14 records, 2000 to 2025 (11 zone-level)		Wildfire, 2015-10-11, \$5,000,000 property; \$0 crops (2015 dollars); NWS zone WYZ020		Event records naming jurisdictions in the plan: Casper 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)	215 records, 1996 to 2026 (215 zone-level)		Winter Storm, 2013-10-03, \$3,000,000 property; \$0 crops (2013 dollars); NWS zone WYZ020		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 and lightning.

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: 8 declarations covering 6 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2023-09-11	2023-06-15	DR-4739-WY	Major disaster	Flooding	Inland Flooding	\$828,038.36	within last 5 years	
2020-04-11	2020-01-20	DR-4535-WY	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$62,562.16		
2020-03-13	2020-01-20	EM-3479-WY	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4535
2015-10-11	2015-10-11	FM-5115-WY	Fire management	Station Fire	Wildfire	no Public Assistance recorded		
2012-09-09	2012-09-09	FM-5014-WY	Fire management	Sheep Herder Hill Fire Complex	Wildfire	no Public Assistance recorded		
2006-08-14	2006-08-14	FM-2665-WY	Fire management	Jackson Canyon Fire	Wildfire	no Public Assistance recorded		
2000-07-31	2000-07-30	FM-2315-WY	Fire management	Wy - Dead Horse Fire	Wildfire	no Public Assistance recorded		
1978-05-29	1978-05-29	DR-557-WY	Major disaster	Severe Storms, Flooding & Mudslides	Inland Flooding (primary); also designated: Landslide	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
1963-07-04	1963-07-04	DR-155-WY	Major disaster	Heavy Rains & Flooding	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.

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	6	0	0	0	0	0	1996 to 2026-06-30	
Cold Wave	17	0	1	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	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	166	6	0	18	0	0	1955 to 2026-06-30	
Heat Wave	8	2	1	4	0	0	1996 to 2026-06-30	
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	31	0	0	3	2	0	1996 to 2026-06-30	
Landslide	2	0	0	0	1	0	1996 to 2026-06-30	
Lightning	3	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	486	48	19	114	0	0	1955 to 2026-06-30	Includes 333 High Wind records.
Tornado	40	0	0	2	0	0	1950 to 2026-06-30	
Wildfire	14	2	0	2	4	0	1996 to 2026-06-30	
Winter Weather	215	11	6	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
2025-12-17	High Wind	107 kt (123 mph) measured gust	\$0 property; \$0 crops (zone total, 2025 dollars)	0, 0	NWS zone WYZ019 (GREEN MOUNTAINS & RATTLESNAKE RANGE), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2022-09-01	Heat		\$0 property; \$0 crops (zone total, 2022 dollars)	0, 0	NWS zone WYZ020 (NATRONA COUNTY LOWER ELEVATIONS), zone-level	within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2015-10-11	Wildfire		\$5,000,000 property; \$0 crops (zone total, 2015 dollars)	0, 0	NWS zone WYZ020 (NATRONA COUNTY LOWER ELEVATIONS), zone-level		B1-c worst recorded: Wildfire
2013-10-03	Winter Storm		\$3,000,000 property; \$0 crops (zone total, 2013 dollars)	0, 0	NWS zone WYZ020 (NATRONA COUNTY LOWER ELEVATIONS), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2011-04-18	Debris Flow		\$237,000 property; \$0 crops (zone total, 2011 dollars)	0, 0	NWS zone WYZ008 (BIGHORN MOUNTAINS WEST), zone-level		B1-c worst recorded: Debris Flow
2009-07-03	Flash Flood		\$5,000,000 property; \$0 crops (2009 dollars)	0, 1	MOUNTAIN VIEW to CASPER		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2009-05-30	Lightning		\$150,000 property; \$0 crops (2009 dollars)	0, 0	MILLS		B1-c worst recorded: Lightning
2008-02-23	Avalanche		\$0 property; \$0 crops (zone total, 2008 dollars)	0, 2	NWS zone WYZ022 (CASPER MOUNTAIN), zone-level		deaths or injuries recorded
1996-01-30	Cold/Wind Chill		damage not reported	0, 0	NWS zone WYZ007 (OWL CREEK & BRIDGER MOUNTAINS), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1971-05-29	Tornado	F2, 0.2 mi path length (whole path, pre-1996), 33 yd wide	damage not recorded (pre-1996 record)	0, 3	location not recorded		deaths or injuries recorded
1964-05-29	Hail	3 in	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Hail
1962-06-11	Tornado	F2, 52 mi path length (whole path, pre-1996), 100 yd wide	\$25,000 property; crops not recorded (1962 dollars)	0, 4	location not recorded		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (988 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	0.1	events per year	about 1 in 10 years	Likely	FEMA annualized frequency (modeled)	3	1994 to 2023 (30 years)	see B1-f	
Cold Wave	1.72	event-days per year	about 1.72 days per year	Likely	Storm Events event-days in 11 of 30 years, 1996 to 2025 (36.7%)	32.7	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	79.1	event-days per year	about 79.1 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	2,429	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.00289	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.289%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.513	events per year	about 0.51 per year	Likely	FEMA annualized frequency (modeled)	19.5 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	0.128	event-days per year	about 0.128 days per year	Likely	Storm Events event-days in 6 of 30 years, 1996 to 2025 (20%)	0	2005-11-12 to 2024-11-12 (19 years)	countywide	
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%)	1	1946-12-31 to 2014-02-12 (67 years)	countywide	No Storm Events ice storm record, 1996 to 2025
Inland Flooding	0.821	event-days per year	about 0.821 days per year	Likely	Storm Events event-days in 14 of 30 years, 1996 to 2025 (46.7%)	23	1996 to 2023 (28 years)	see B1-f	
Landslide	3.25	events per year (modeled)	about 3.25 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	38.2	days per year with a strike	about 38.2 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.312	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	12	1986 to 2023 (38 years)	countywide	
Tornado	0.446	events per year	about 1 in 2 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)	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>								
Wildfire	0.00234	annual probability at a location	chance a given location in the county burns in a year: 0.234%	Likely	Storm Events records in 10 of 30 years, 1996 to 2025 (33.3%)	not shown	modeled	see B1-f	
Winter Weather	17.4	event-days per year	about 17.4 days per year	Highly likely	Storm Events event- days in 30 of 30 years, 1996 to 2025 (100%)	330	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	86	30	2.87
Hail	2.00 in+	1996 to 2025	8	30	0.267
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	89	30	2.97
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	9	30	0.3
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	13	30	0.433
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	1	30	0.0333

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	3 of 20	75.7	77.5	77.7	Relatively Low 3, Not Applicable 17
Cold Wave	20 of 20	70.8	86.0	94.7	Relatively High 18, Relatively Moderate 2
Drought	7 of 20	67.2	68.6	85.8	Relatively Low 1, Very Low 6, No Rating 13
Earthquake	20 of 20	41.5	72.2	85.6	Relatively Moderate 5, Relatively Low 15
Hail	20 of 20	39.9	52.1	73.9	Relatively Moderate 2, Relatively Low 18
Heat Wave	20 of 20	2.4	3.6	6.0	Very Low 20
Ice Storm	20 of 20	22.7	38.7	56.7	Relatively Low 14, Very Low 6
Inland Flooding	20 of 20	10.5	64.9	98.0	Very High 2, Relatively High 4, Relatively Moderate 7, Relatively Low 6, Very Low 1
Landslide	20 of 20	29.8	60.0	99.3	Relatively Moderate 3, Relatively Low 1, Very Low 16
Lightning	20 of 20	54.7	74.8	91.0	Relatively High 6, Relatively Moderate 14
Strong Wind	20 of 20	9.5	13.3	21.9	Relatively Low 2, Very Low 18

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	20 of 20	33.5	40.4	60.6	Relatively Moderate 2, Relatively Low 18
Wildfire	18 of 20	49.6	91.5	98.4	Relatively High 4, Relatively Moderate 9, Relatively Low 3, Very Low 2, No Rating 2
Winter Weather	20 of 20	95.7	98.6	99.7	Very High 19, Relatively High 1

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>	
Natrona County	County	Approved, expires 2030-01-28	FMA RL 0, SRL 0; any 0	\$455,874.93	0 total; 0 since its plan	
Bar Nunn town	Town	Approved, expires 2030-01-28	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	16 total; 5 since its plan	
Casper city	City	Approved, expires 2030-01-28	FMA RL 0, SRL 0; any 0	\$298,176.68	65 total; 5 since its plan	
Evansville town	Town	Approved, expires 2030-01-28	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	13 total; 2 since its plan	
Mills town	Town	Approved, expires 2030-01-28	FMA RL 0, SRL 0; any 0	\$75,872.41	14 total; 4 since its plan	Includes \$62,562.16 for declarations not counted as hazard incidents (DR-4535-WY).

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 2025-01-29 <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	\$117,962	n/a	10	under \$1	n/a	\$593,667	0.000301%				
Cold Wave	\$18,609,371,011	\$55,638,032	79,870	\$15,553	\$64,349	\$4,964,682	under 0.0001%				
Drought	n/a	\$4,765,768	n/a	n/a	\$6,071	n/a	0.127% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$33,596,900,323	n/a	79,955	\$2,126,240	n/a	\$449,722	0.00633%				
Hail	\$18,609,371,011	\$55,638,032	79,870	\$163,147	\$239	\$53,821	0.000877%	\$0			
Heat Wave	\$18,154,598,205	\$53,600,239	79,184	\$15	\$321	\$53,683	under 0.0001%		\$0		
Ice Storm	\$18,609,371,011	n/a	79,870	\$1,602	n/a	\$65,256	under 0.0001%				
Inland Flooding	\$18,589,362,598	\$20,096	1,862	\$18,618,499	\$341	\$49,227	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	\$288,266,888	n/a	1,099	\$4,023	n/a	\$79,843	0.0014%				
Lightning	\$18,609,371,011	n/a	79,870	\$25,220	n/a	\$498,590	0.000136%				
Strong Wind	\$18,609,371,011	\$55,638,032	79,870	\$32,375	\$50	\$11,223	0.000174%	\$0	\$0		
Tornado	\$18,609,371,011	\$55,638,032	79,870	\$250,876	\$323	\$623,476	0.00135%				
Wildfire	\$3,678,241,084	\$37,714,366	17,196	\$2,546,484	\$246	\$110,943	0.0692%		\$0		
Winter Weather	\$18,609,371,011	\$55,638,032	79,870	\$49,525	\$11	\$1,103,894	0.000266%		\$0		

Totals since 2025-01-29 (Storm Events through 2026-06-30): 31 county-coded records, 31 with a damage value recorded (including \$0), \$0; 38 zone-level records, 38 with a damage value recorded (including \$0), \$0 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	79,870
Building value (total, not at risk)	\$18,609,371,011
Agriculture value (total, not at risk)	\$55,638,032
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$23,905,512
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)	\$8,658,027
Social vulnerability rating	Relatively Low
Community resilience rating	Relatively Moderate
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 and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	0	0	0	0	0	0	0
Statewide, no county in FEMA's file	0	0	1	0	1	0	0

The statewide row counts properties FEMA's file gives with no county in this state; they are listed for reference and are not in this county's counts.

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

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Natrona County	560036	0	0	0	0	0	0	0
Bar Nunn town	560100	0	0	0	0	0	0	0
Casper city	560037	0	0	0	0	0	0	0
Evansville town	560071	0	0	0	0	0	0	0
Mills town	560076	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):

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3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), <https://www2.census.gov/geo/docs/maps-data/data/>

gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/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