

Box Elder County, UT

Risk-assessment baseline packet

County FIPS: 49003 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 2026-01-04. Plan: Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918), approved 2021-01-05. Since the plan was approved on 2021-01-05: no new hazard declaration and 238 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 (\$15,726,923 a year), Wildfire (\$6,485,433) and Inland Flooding (\$4,004,043). 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; 49003 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:	Expired on 2026-01-04	Plan:	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)
Approved:	2021-01-05	Days since expiry:	269
Update underway:	none recorded in FEMA's plan tracker		

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 2021-01-05)

New federal declarations:	none	Storm Events records since approval:	238 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>
Box Elder County	County	Expired on 2026-01-04	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)	2021-01-05	2026-01-04	-269
Brigham City city	City	Expired on 2026-01-04	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)	2021-01-05	2026-01-04	-269
Deweyville town	Town	Expired on 2026-01-04	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)	2021-01-05	2026-01-04	-269
Garland city	City	Expired on 2026-01-04	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)	2021-01-05	2026-01-04	-269
Honeyville city	City	Expired on 2026-01-04	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)	2021-01-05	2026-01-04	-269
Howell town	Town	Expired on 2026-01-04	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)	2021-01-05	2026-01-04	-269
Mantua town	Town	Expired on 2026-01-04	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)	2021-01-05	2026-01-04	-269
Perry city	City	Expired on 2026-01-04	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)	2021-01-05	2026-01-04	-269
Plymouth town	Town	Expired on 2026-01-04	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)	2021-01-05	2026-01-04	-269
Portage town	Town	Expired on 2026-01-04	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)	2021-01-05	2026-01-04	-269
Tremonton city	City	Expired on 2026-01-04	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)	2021-01-05	2026-01-04	-269
Willard city	City	Expired on 2026-01-04	Bear River AOG, UT Hazard Mitigation Plan 2021 (FEMA plan 106918)	2021-01-05	2026-01-04	-269

Plan 106918 lists 20 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 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
1	Earthquake	Relatively Moderate	Relatively Moderate	\$8,043,060	n/a	\$7,683,863	\$15,726,923			Storm Events does not record earthquakes.
2	Wildfire	Relatively Moderate	Relatively Moderate	\$6,343,709	\$5,201	\$136,523	\$6,485,433	5		
3	Inland Flooding	Very Low	Very Low	\$4,001,018	\$48	\$2,978	\$4,004,043	9		
4	Strong Wind	Relatively Moderate	Relatively Moderate	\$621,569	\$3,804	\$841,564	\$1,466,936	499		Includes 257 High Wind and 11 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
5	Avalanche	Relatively Moderate	Relatively Moderate	\$87	n/a	\$1,133,345	\$1,133,433	18		
6	Lightning	Relatively Moderate	Relatively Moderate	\$13,206	n/a	\$581,782	\$594,988	1		
7	Drought	Relatively Low	Relatively Moderate	n/a	\$492,803	n/a	\$492,803	0		Declared 1 time; no Storm Events record of this type.
8	Heat Wave	Relatively Low	Relatively Low	\$96	\$12,329	\$445,998	\$458,423	2		
9	Cold Wave	Very Low	Relatively Low	\$989	\$16,225	\$416,881	\$434,095	4		
10	Winter Weather	Relatively Moderate	Relatively Moderate	\$24,691	\$250	\$226,092	\$251,033	419		
11	Tornado	Very Low	Very Low	\$45,814	\$1,241	\$122,719	\$169,774	3		

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	Hail	Very Low	Very Low	\$24,795	\$1,411	\$11,548	\$37,754	21		
13	Ice Storm	Very Low	Very Low	\$10,098	n/a	\$3,928	\$14,026	3		
14	Landslide	Very Low	Very Low	\$1,289	n/a	\$608	\$1,897	2		
15	Volcanic Activity	Very Low	Very Low	under \$1	n/a	under \$1	under \$1	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Hurricane	Not Applicable	Not Applicable					0	NRI rates hurricane Not Applicable for this county, and no counted federal declaration for this county names it (EM-3223-UT names it but is not counted as a local occurrence; see B1-d).	No recorded events in Storm Events since 1996 (data through 2026-06-30).

Total = buildings + agriculture + population equivalence; FEMA values each expected death (or 10 injuries) at \$13.7 million (2024 dollars).

NRI risk rating combines expected annual loss with social vulnerability and community resilience; EAL rating rates expected annual loss alone. Both compare this county with all U.S. counties.

Local data needed: state and local volcanic activity records (Storm Events records this hazard only in part).

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

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 9601 (Relatively Moderate, 80.3); tract 9604 (Relatively Moderate, 80.1); tract 9608.01 (Relatively Low, 78.2)
Earthquake	tract 9605 (Very High, 98.2); tract 9607.01 (Very High, 97.4); tract 9604 (Relatively High, 93.5)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 9601 (Relatively Low, 94.0); tract 9602 (Very Low, 72.2); tract 9608.01 (Very Low, 70.7)
Tornado	tract 9605 (Relatively Low, 30.1); tract 9604 (Very Low, 29.5); tract 9603.02 (Very Low, 27.4)
Volcanic Activity	tract 9601 (Very Low, 40.2)
Wildfire	tract 9601 (Very High, 99.9); tract 9604 (Relatively Moderate, 95.8); tract 9608.01 (Relatively Moderate, 94.9)

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 9601 is Census Tract 9601). 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, 1999 to 2025 (18 zone-level)		Avalanche, 2023-03-28, \$20,000 property; \$0 crops (2023 dollars), 2 direct injuries (reported for the zone); NWS zone UTZ110		Countywide (zone-level records).	
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	4 records, 1998 to 2023 (4 zone-level)	1 day to 4 days (median 1.5 days); 4 with a recorded value	4 consecutive days, 1998-12-21 to 1998-12-24, zone-level	Cold/Wind Chill, 2013-12-09, \$40,000 property; \$0 crops (zone total, 2013 dollars)	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)	32 records, 1958 to 2026	0.75 in to 1.75 in (median 1 in); 31 with a recorded value	1.75 in hail, 1997-07-10		Event records naming jurisdictions in the plan: Brigham City city (3 records), Perry city (2 records), Honeyville city (1 record), Plymouth town (1 record), Tremonton city (1 record), Willard city (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	2 records, 2021 (2 zone-level)	2 days to 3 days (median 2.5 days); 2 with a recorded value	3 consecutive days, 2021-06-03 to 2021-06-05, zone-level		Countywide (zone-level records).	
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	3 records, 2005 to 2019 (3 zone-level)		No damage reported in 3 records.		Countywide (zone-level records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	9 records, 1996 to 2023 (3 zone-level)		Flood, 2017-02-07, \$5,000,000 property; \$0 crops (2017 dollars)		Event records naming jurisdictions in the plan: Honeyville city (2 records), Perry 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)	2 records, 2004 to 2005 (2 zone-level)		Debris Flow, 2004-04-06, \$40,000 property; crops not reported (2004 dollars); NWS zone UTZ002		Countywide (zone-level records).	
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1 record, 2024		Lightning, 2024-08-17, \$0 property; \$0 crops (2024 dollars), 1 direct death, 2 direct injuries		No event record names a jurisdiction in the plan.	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	268 records, 1996 to 2026 (267 zone-level)	30 kt (35 mph) to 129 kt (148 mph) (median 60 kt (69 mph)); 261 with a recorded value	129 kt (148 mph) measured gust, High Wind, 2022-12-27; NWS zone UTZ110	High Wind, 2011-12-01, \$82,000,000 property; \$0 crops (zone total, 2011 dollars)	No event record names a jurisdiction in the plan. Zone-level records (267) apply countywide.	
Thunderstorm Wind	wind speed (kt and mph)	254 records, 1958 to 2026	48 kt (55 mph) to 79 kt (91 mph) (median 54 kt (62 mph)); 248 with a recorded value	79 kt (91 mph) measured gust, Thunderstorm Wind, 2022-07-13	Thunderstorm Wind, 2015-06-01, \$50,000 property; \$0 crops (2015 dollars)	Event records naming jurisdictions in the plan: Plymouth town (6 records), Brigham City city (5 records), Willard city (5 records), Tremonton city (3 records), Garland city (1 record), Honeyville city (1 record), Perry city (1 record), Portage town (1 record).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	10 records, 1962 to 2018	F/EF0; 7 with a recorded value	EF0 tornado, 2009-05-03, 1 mi within this county, 15 yd wide, \$25,000 property; \$0 crops (2009 dollars)		Event records naming jurisdictions in the plan: Plymouth town (1 record), Willard city (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Wildfire	acres burned (local data)	5 records, 2013 to 2026 (5 zone-level)		Wildfire, 2017-09-05, \$849,000 property; \$0 crops (2017 dollars); NWS zone UTZ002		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	419 records, 1996 to 2026 (419 zone- level)		Winter Storm, 2026-02-16, \$500,000 property; \$0 crops (2026 dollars); NWS zone UTZ110		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 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
2020-04-04	2020-01-20	DR-4525-UT	Major disaster	COVID-19 Pandemic	Non-natural, not counted	no Public Assistance recorded	in the 12 months before plan approval	
2020-03-13	2020-01-20	EM-3478-UT	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded	in the 12 months before plan approval	same incident as DR-4525
2017-04-21	2017-02-07	DR-4311-UT	Major disaster	Severe Winter Storms and Flooding	Inland Flooding (primary); also designated: Winter Weather	\$728,947.37		
2011-08-08	2011-04-18	DR-4011-UT	Major disaster	Flooding	Inland Flooding	\$92,045.85		
2005-09-05	2005-08-29	EM-3223-UT	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2005-08-01	2005-04-28	DR-1598-UT	Major disaster	Flooding and Landslides	Inland Flooding	\$128,756.86		
1984-08-17	1984-08-17	DR-720-UT	Major disaster	Severe Storms, Mudslides, Landslides & Flooding	Inland Flooding (primary); also designated: Landslide	no Public Assistance recorded		
1983-04-30	1983-04-13	DR-680-UT	Major disaster	Severe Storms, Landslides & Flooding	Inland Flooding (primary); also designated: Landslide	no Public Assistance recorded		
1977-01-20	1977-01-20	EM-3024-UT	Emergency	Drought	Drought	no Public Assistance recorded		

County Public Assistance: applicants the FEMA record places in this county, including any state agencies FEMA files there; statewide rows are listed on the state page; federal share obligated, nominal dollars.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval records	In the 12 months before plan approval records	Last 5 years records	Declared incidents, all years separate disasters	Declared since approval separate disasters	Period	Statement
Avalanche	18	4	1	4	0	0	1996 to 2026-06-30	
Cold Wave	4	1	0	1	0	0	1996 to 2026-06-30	
Drought	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)
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.

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
Hail	32	4	1	4	0	0	1955 to 2026-06-30	
Heat Wave	2	2	0	0	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	3	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	9	4	0	4	5	0	1996 to 2026-06-30	
Landslide	2	0	0	0	2	0	1996 to 2026-06-30	
Lightning	1	1	0	1	0	0	1996 to 2026-06-30	
Strong Wind	522	171	17	153	0	0	1955 to 2026-06-30	Includes 257 High Wind and 11 Strong Wind records.
Tornado	10	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	5	1	0	1	0	0	1996 to 2026-06-30	
Winter Weather	419	50	6	49	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
2026-02-16	Winter Storm		\$500,000 property; \$0 crops (zone total, 2026 dollars)	0, 0	NWS zone UTZ110 (WASATCH MOUNTAINS I-80 NORTH), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2024-08-17	Lightning		\$0 property; \$0 crops (2024 dollars)	1, 2	CORINNE	new since last plan; within last 5 years	B1-c worst recorded: Lightning
2023-03-28	Avalanche		\$20,000 property; \$0 crops (zone total, 2023 dollars)	0, 2	NWS zone UTZ110 (WASATCH MOUNTAINS I-80 NORTH), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Avalanche
2022-12-27	High Wind	129 kt (148 mph) measured gust	\$0 property; \$0 crops (zone total, 2022 dollars)	0, 0	NWS zone UTZ110 (WASATCH MOUNTAINS I-80 NORTH), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2022-07-13	Thunderstorm Wind	79 kt (91 mph) measured gust	\$0 property; \$0 crops (2022 dollars)	0, 0	LAKESIDE	new since last plan; within last 5 years	B1-c worst recorded: Thunderstorm Wind
2021-06-03	Excessive Heat		\$0 property; \$0 crops (zone total, 2021 dollars)	0, 0	NWS zone UTZ101 (GREAT SALT LAKE DESERT AND MOUNTAINS), zone-level	new since last plan	B1-c worst recorded: Excessive Heat, Heat
2017-09-05	Wildfire		\$849,000 property; \$0 crops (zone total, 2017 dollars)	0, 0	NWS zone UTZ002 (NORTHERN WASATCH FRONT), zone-level		B1-c worst recorded: Wildfire
2017-02-07	Flood		\$5,000,000 property; \$0 crops (2017 dollars)	0, 0	PERRY to PORTAGE SIDING		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2015-04-14	High Wind	71 kt (82 mph) measured gust	\$150,000 property; \$0 crops (zone total, 2015 dollars)	1, 25	NWS zone UTZ005 (GREAT SALT LAKE DESERT AND MOUNTAINS), zone-level		deaths or injuries recorded
2008-12-24	Avalanche		\$0 property; \$0 crops (zone total, 2008 dollars)	2, 0	NWS zone UTZ007 (WASATCH MOUNTAINS I-80 NORTH), zone-level		deaths or injuries recorded
2005-03-24	Winter Storm		damage not reported	1, 7	NWS zone UTZ005 (GREAT SALT LAKE DESERT AND MOUNTAINS/WENDOVER/SNOWVILLE), zone-level		deaths or injuries recorded
1998-12-21	Cold/Wind Chill		damage not reported	0, 0	NWS zone UTZ005 (C W BOX ELDER/C W XE TOOLE/X W SALT LAKE/X NW UTAH), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,027 rows).

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

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

Local data needed: state-declared emergencies, from your state emergency management agency (federal data do not include them).

Tribal and special-area declarations in this state are listed on the state page.

Supports FEMA checklist item B1-e: probability of future events

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche	0.367	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	11	1994 to 2023 (30 years)	see B1-f	
Cold Wave	0.0837	event-days per year	about 0.0837 days per year	Likely	Storm Events event-days in 4 of 30 years, 1996 to 2025 (13.3%)	1.55	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	113	event-days per year	about 113 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	2,996	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.0139	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 1.39%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.185	events per year	about 1 in 5 years	Likely	FEMA annualized frequency (modeled)	8.4 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	2.72	event-days per year	about 2.72 days per year	Possible	Storm Events event-days in 1 of 30 years, 1996 to 2025 (3.33%)	32	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	Likely	Storm Events event-days in 3 of 30 years, 1996 to 2025 (10%)	0	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.143	event-days per year	about 0.143 days per year	Likely	Storm Events event-days in 5 of 30 years, 1996 to 2025 (16.7%)	4	1996 to 2023 (28 years)	see B1-f	
Landslide	3.08	events per year (modeled)	about 3.08 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	30.7	days per year with a strike	about 30.7 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.717	events per year	about 0.72 per year	Likely	FEMA annualized frequency (modeled)	30	1986 to 2023 (38 years)	countywide	
Tornado	0.313	events per year	about 1 in 3 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>								
Volcanic Activity	0.0001	annual probability	about 1 in 10,000 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.0154	annual probability at a location	chance a given location in the county burns in a year: 1.54%	Likely	Storm Events records in 3 of 30 years, 1996 to 2025 (10%)	not shown	modeled	see B1-f	
Winter Weather	12.5	event-days per year	about 12.5 days per year	Highly likely	Storm Events event-days in 30 of 30 years, 1996 to 2025 (100%)	238	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	9	30	0.3
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	26	30	0.867
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	2	30	0.0667
Tornado	EF0-1	1996 to 2025	3	30	0.1
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	5 of 12	78.2	78.2	80.3	Relatively Moderate 2, Relatively Low 3, Not Applicable 7
Cold Wave	12 of 12	25.0	37.5	46.2	Relatively Low 12
Drought	10 of 12	72.9	85.1	98.0	Relatively High 1, Relatively Moderate 2, Relatively Low 4, Very Low 3, No Rating 2
Earthquake	12 of 12	78.2	89.2	98.2	Very High 2, Relatively High 4, Relatively Moderate 6
Hail	12 of 12	18.4	31.0	48.3	Relatively Low 3, Very Low 9
Heat Wave	12 of 12	15.5	43.8	55.4	Relatively Low 11, Very Low 1
Hurricane	0 of 12				Not Applicable 12
Ice Storm	12 of 12	3.3	10.7	24.1	Very Low 12
Inland Flooding	12 of 12	2.1	9.5	43.2	Relatively Low 4, Very Low 8
Landslide	12 of 12	9.4	24.2	94.0	Relatively Low 1, Very Low 11
Lightning	12 of 12	60.1	85.9	94.4	Relatively High 9, Relatively Moderate 3

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	12 of 12	69.1	90.2	95.8	Relatively High 10, Relatively Moderate 2
Tornado	12 of 12	10.1	24.4	30.1	Relatively Low 1, Very Low 11
Volcanic Activity	1 of 12	40.2	40.2	40.2	Very Low 1, No Rating 11
Wildfire	12 of 12	31.7	90.6	99.9	Very High 1, Relatively Moderate 6, Relatively Low 3, Very Low 2
Winter Weather	12 of 12	67.6	90.4	96.3	Very High 1, Relatively High 8, Relatively Moderate 3

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
			<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>
Box Elder County	County	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$586,769.46	0 total; 0 since its plan
Brigham City city	City	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$168,736.34	8 total; 1 since its plan
Deweyville town	Town	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan
Garland city	City	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$119,290.53	1 total; 0 since its plan
Honeyville city	City	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$19,372.64	4 total; 2 since its plan
Howell town	Town	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan
Mantua town	Town	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$9,581.10	0 total; 0 since its plan
Perry city	City	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	4 total; 1 since its plan
Plymouth town	Town	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	8 total; 4 since its plan
Portage town	Town	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$14,513.71	1 total; 0 since its plan
Tremonton city	City	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$3,868.25	4 total; 0 since its plan
Willard city	City	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	7 total; 2 since its plan

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

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 2021-01-05 <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	\$869,642	n/a	10	\$87	n/a	\$1,133,345	0.01%		\$25,000		
Cold Wave	\$11,203,719,837	\$172,622,825	57,579	\$989	\$16,225	\$416,881	under 0.0001%		\$0		
Drought	n/a	\$35,699,990	n/a	n/a	\$492,803	n/a	1.38% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$20,124,085,594	n/a	57,666	\$8,043,060	n/a	\$7,683,863	0.04%				
Hail	\$11,203,719,837	\$172,622,825	57,579	\$24,795	\$1,411	\$11,548	0.000221%	\$0			
Heat Wave	\$11,002,587,695	\$171,056,985	56,385	\$96	\$12,329	\$445,998	under 0.0001%		\$0		
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$11,203,719,837	n/a	57,579	\$10,098	n/a	\$3,928	under 0.0001%				
Inland Flooding	\$11,200,572,299	\$10,426,519	530	\$4,001,018	\$48	\$2,978	n/a (see note)	\$3,031,000			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	\$116,844,133	n/a	432	\$1,289	n/a	\$608	0.0011%				
Lightning	\$11,203,719,837	n/a	57,579	\$13,206	n/a	\$581,782	0.000118%	\$0			

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 2021-01-05 <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	\$11,203,719,837	\$172,622,825	57,579	\$621,569	\$3,804	\$841,564	0.00555%	\$14,500	\$62,000		Storm Events damage since the plan includes 1 zone-level High Wind record (\$50,000) and 1 zone-level Strong Wind record (\$12,000): NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition.
Tornado	\$11,203,719,837	\$172,622,825	57,579	\$45,814	\$1,241	\$122,719	0.000409%				
Volcanic Activity	\$7,917,585,583	n/a	50,061	under \$1	n/a	under \$1	under 0.0001%				
Wildfire	\$1,895,056,965	\$88,602,477	10,264	\$6,343,709	\$5,201	\$136,523	0.335%				
Winter Weather	\$11,203,719,837	\$172,622,825	57,579	\$24,691	\$250	\$226,092	0.00022%		\$750,000		

Totals since 2021-01-05 (Storm Events through 2026-06-30): 136 county-coded records, 135 with a damage value recorded (including \$0), \$3,045,500; 102 zone-level records, 100 with a damage value recorded (including \$0), \$837,000 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	57,579
Building value (total, not at risk)	\$11,203,719,837
Agriculture value (total, not at risk)	\$172,622,825
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$19,663,731
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)	\$11,607,830
Social vulnerability rating	Very Low
Community resilience rating	Very 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	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>
Box Elder County	490005	0	0	0	0	0	0	0
Brigham City city	490006	0	0	0	0	0	0	0
Deweyville town	490236	0	0	0	0	0	0	0
Garland city	490207	0	0	0	0	0	0	0
Honeyville city	490008	0	0	0	0	0	0	0
Howell town	490143	0	0	0	0	0	0	0
Mantua town	490009	0	0	0	0	0	0	0
Perry city	490010	0	0	0	0	0	0	0
Plymouth town	490203	0	0	0	0	0	0	0
Portage town	490124	0	0	0	0	0	0	0
Tremonton city	490220	0	0	0	0	0	0	0
Willard city	490011	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)
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 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)
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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