

Box Elder County, UT

Risk-assessment baseline packet

Unit **County area 49003** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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

A starting point for the plan's risk assessment (FEMA Local Mitigation Plan Review Tool, Element B). It does not replace local data or FEMA review. Section headings say which FEMA review item each table supports; whether an item is satisfied is decided by the plan and its reviewers.

OPENFEMA DISCLAIMER

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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	Expires	2026-01-04
As of	2026-09-28	Days	267 days since expiry
Update underway	none in FEMA's plan tracker		

Generally not eligible for FEMA mitigation project grants (HMGP, FMA) until a new plan is approved, barring a 44 CFR 201.6(a)(3) exception. Planning grants are not affected.

What changed since your last plan (approved 2021-01-05)

New federal declarations	none (0 declaration rows; 0 counted incidents)	Storm Events records since approval	238 (data through 2026-06-30)
Repetitive loss now	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0	Repeat-flood change	First release: no prior release to compare.

SOURCES: FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API); FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API); NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>; FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
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	-267		
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	-267		
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	-267		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
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	-267		
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	-267		
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	-267		
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	-267		
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	-267		
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	-267		
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	-267		
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	-267		
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	-267		

Plan 106918 also lists 20 other participants not listed on this page (named in the XLSX file).

SOURCE: FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

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

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Supports B1-a: hazards

Hazards NRI does not cover: check locally

- 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)

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	EAL population equivalence statistical value of life and injury, \$13.7M per life, not property damage	EAL total (see note) modeled dollars per year	Storm Events records since 1996 count	Evidence for an omission 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		\$7,683,863	\$15,726,923			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
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 records and 11 Strong Wind records, event types the NRI definition of this hazard leaves out.
5	Avalanche	Relatively Moderate	Relatively Moderate	\$87		\$1,133,345	\$1,133,433	18		
6	Lightning	Relatively Moderate	Relatively Moderate	\$13,206		\$581,782	\$594,988	1		
7	Drought	Relatively Low	Relatively Moderate		\$492,803		\$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		

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
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		
12	Hail	Very Low	Very Low	\$24,795	\$1,411	\$11,548	\$37,754	21		
13	Ice Storm	Very Low	Very Low	\$10,098		\$3,928	\$14,026	3		
14	Landslide	Very Low	Very Low	\$1,289		\$608	\$1,897	2		
15	Volcanic Activity	Very Low	Very Low	under \$1		under \$1	under \$1	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Coastal Flooding	Not Applicable	Not Applicable					0	NRI rates coastal flooding Not Applicable for this county, and no federal declaration for this county names it.	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).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Check your state hazard mitigation plan's hazard list for this county; explain any hazard you drop.

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	5 of 12

Hazard	Location	Census tracts rated
		<i>rated of all tracts</i>
Coastal Flooding	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 12
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	12 of 12
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	10 of 12
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	12 of 12
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	12 of 12
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	12 of 12
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 12
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	12 of 12
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.	12 of 12
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	12 of 12
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	12 of 12
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	12 of 12
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	12 of 12
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 12
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	1 of 12
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	12 of 12
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	12 of 12

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Supports B1-c: extent

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

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	18, 1999 to 2025 (18 zone-level)		Avalanche, 2023-03-28, \$20,000 property; \$0 crops, reported for the zone (2023 dollars), 2 direct injuries (reported for the zone); NWS zone UTZ110 (WASATCH MOUNTAINS I-80 NORTH), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	4, 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, reported for the zone (2013 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	0					Temperature: in event narratives only; local data required.
Drought	US Drought Monitor D-scale	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					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	32, 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 member places: 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 (narratives)	2, 2021 to 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		Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.
Ice Storm	Sperry-Piltz (local data)	3, 2005 to 2019 (3 zone-level)		No damage reported in 3 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	9, 1996 to 2023 (3 zone-level)		Flood, 2017-02-07, \$5,000,000 property; \$0 crops (2017 dollars)		Event records naming member places: 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 can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	2, 2004 to 2005 (2 zone-level)		Debris Flow, 2004-04-06, \$40,000 property; crops not reported, reported for the zone (2004 dollars); NWS zone UTZ002 (NE BOX ELDER T X NE/W WEBER/DAVIS), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1, 2024 to 2024		Lightning, 2024-08-17, \$0 property; \$0 crops (2024 dollars), 1 direct death, 2 direct injuries		No event record names a member place.	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	268, 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 (WASATCH MOUNTAINS I-80 NORTH), zone-level: may include parts of neighboring counties	High Wind, 2011-12-01, \$82,000,000 property; \$0 crops, reported for the zone (2011 dollars)	No event record names a member place. Zone-level records (267) apply countywide.	
Thunderstorm Wind	wind speed (kt and mph)	254, 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 member places: 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).	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Tornado	Enhanced Fujita (F before Feb 2007)	10, 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 member places: Plymouth town (1 record), Willard city (1 record).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	5, 2013 to 2026 (5 zone-level)		Wildfire, 2017-09-05, \$849,000 property; \$0 crops, reported for the zone (2017 dollars); NWS zone UTZ002 (NORTHERN WASATCH FRONT), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	419, 1996 to 2026 (419 zone-level)		Winter Storm, 2026-02-16, \$500,000 property; \$0 crops, reported for the zone (2026 dollars); NWS zone UTZ110 (WASATCH MOUNTAINS I-80 NORTH), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

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

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Supports B1-d: previous occurrences

Declaration rows 9 Counted incidents 6

Federal disaster declarations for this county

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	none found	during plan review, check whether your last plan included it	
2020-03-13	2020-01-20	EM-3478-UT	Emergency	COVID-19	Non-natural, not counted	none found	during plan review, check whether your last plan included it	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	none found		
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	none found		
1983-04-30	1983-04-13	DR-680-UT	Major disaster	SEVERE STORMS, LANDSLIDES & FLOODING	Inland Flooding (primary); also designated: Landslide	none found		
1977-01-20	1977-01-20	EM-3024-UT	Emergency	DROUGHT	Drought	none found		

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

SOURCES
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	18	4	1	4	0	0	1996 to 2026-06-30	

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	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		No Storm Events record; local data required (e.g., USGS).
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 records and 11 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	10	0	0	0	0	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
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	

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2026-02-16	Winter Storm		\$500,000 property; \$0 crops, reported for the zone (2026 dollars)	0, 0	NWS zone UTZ110 (WASATCH MOUNTAINS I-80 NORTH), zone-level: may include parts of neighboring counties	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, reported for the zone (2023 dollars)	0, 2	NWS zone UTZ110 (WASATCH MOUNTAINS I-80 NORTH), zone-level: may include parts of neighboring counties	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, reported for the zone (2022 dollars)	0, 0	NWS zone UTZ110 (WASATCH MOUNTAINS I-80 NORTH), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
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, reported for the zone (2021 dollars)	0, 0	NWS zone UTZ101 (GREAT SALT LAKE DESERT AND MOUNTAINS), zone-level: may include parts of neighboring counties	new since last plan	B1-c worst recorded: Excessive Heat, Heat
2017-09-05	Wildfire		\$849,000 property; \$0 crops, reported for the zone (2017 dollars)	0, 0	NWS zone UTZ002 (NORTHERN WASATCH FRONT), zone-level: may include parts of neighboring counties		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, reported for the zone (2015 dollars)	1, 25	NWS zone UTZ005 (GREAT SALT LAKE DESERT AND MOUNTAINS), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2008-12-24	Avalanche		\$0 property; \$0 crops, reported for the zone (2008 dollars)	2, 0	NWS zone UTZ007 (WASATCH MOUNTAINS I-80 NORTH), zone-level: may include parts of neighboring counties		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: may include parts of neighboring counties		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: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill

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

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

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.

State-declared emergencies are not in federal data. Add them from your state emergency management agency.

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

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	
Coastal Flooding		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Cold Wave	0.0837	event-days per year	about 0.0837 days per year	Likely	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	1.55	2005-11-12 to 2024-11-12 (19 years)	countywide	Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	113	event-days per year	about 113 days per year		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 recorded event-days, 1996 to 2025; descriptor not assigned
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	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and 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	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	32	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 2.72 heat wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 1 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.

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
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	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	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	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
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	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Winter Weather	12.5	event-days per year	about 12.5 days per year	Highly likely	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) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the

number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county, which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Descriptor scale used in this packet (defined per unit)

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

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Intensity bands: historical frequency (Storm Events)

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
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	184	30	6.13
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	26	30	0.867
Strong Wind (Thunderstorm Wind records)	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

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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.

SOURCE

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

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.

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	5 of 12	78.2	78.2	80.3	Relatively Moderate 2, Relatively Low 3, Not Applicable 7	
Coastal Flooding	0 of 12				Not Applicable 12	
Cold Wave	12 of 12	25.0	37.5	46.2	Relatively Low 12	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
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	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally.
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	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	12 of 12	15.5	43.8	55.4	Relatively Low 11, Very Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	0 of 12				Not Applicable 12	
Ice Storm	12 of 12	3.3	10.7	24.1	Very Low 12	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
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	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Strong Wind	12 of 12	69.1	90.2	95.8	Relatively High 10, Relatively Moderate 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	12 of 12	10.1	24.4	30.1	Relatively Low 1, Very Low 11	
Tsunami	0 of 12				Not Applicable 12	
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	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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.

SOURCE

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat- flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Box Elder County	County	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$586,769.46	0; 0	
Brigham City city	City	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$168,736.34	8; 1	
Deweyville town	Town	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	none found	0; 0	
Garland city	City	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$119,290.53	1; 0	
Honeyville city	City	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$19,372.64	4; 2	
Howell town	Town	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	none found	0; 0	
Mantua town	Town	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$9,581.10	0; 0	
Perry city	City	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	none found	4; 1	
Plymouth town	Town	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	none found	8; 4	

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Portage town	Town	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$14,513.71	1; 0	
Tremonton city	City	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	\$3,868.25	4; 0	
Willard city	City	Expired on 2026-01-04	FMA RL 0, SRL 0; any 0	none found	7; 2	

Member 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 member row, while the county table counts only its part in this county.

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

SOURCES

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Supports B2-a and B2-b: assets and impacts

Local data required

County-level starter. The plan must describe impacts for each participant and its own assets.

- Critical facilities and lifelines per hazard
- A problem statement per participant 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

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, 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		10	\$87		\$1,133,345	0.01%		\$25,000		
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$11,203,719,837	\$172,622,825	57,579	\$989	\$16,225	\$416,881	under 0.0001%		\$0		
Drought		\$35,699,990			\$492,803		1.38% (agriculture)				NRI has no building exposure for this hazard; agriculture shown

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, 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
Earthquake	\$20,124,085,594		57,666	\$8,043,060		\$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		57,579	\$10,098		\$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. EAL as % of exposure: n/a.
Landslide	\$116,844,133		432	\$1,289		\$608	0.0011%				
Lightning	\$11,203,719,837		57,579	\$13,206		\$581,782	0.000118%	\$0			
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), event types the NRI definition of this hazard leaves out.
Tornado	\$11,203,719,837	\$172,622,825	57,579	\$45,814	\$1,241	\$122,719	0.000409%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity	\$7,917,585,583		50,061	under \$1		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 on counted declarations none found (0 declarations, 0 with PA).

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

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 must not be added up; the unit total counts each declaration once.

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

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Supports B2-a: context

County context

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 total adds buildings, agriculture and population equivalence; the two parts are shown separately so the property figure is not read as including the statistical value of life.

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

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

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

SOURCES
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties: county total and NFIP communities

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

SOURCES
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

Repeat-flood properties by plan member (NFIP community)

Member	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>	Note
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	

Per-member types: XLSX sheet 'B2-c Members'.

Member 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 member row, while the county table counts only its part in this county.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

County repeat-flood properties by occupancy group

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	0	0	0	0	0
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

Institutional properties cannot be separated in this data: FEMA's occupancy groups have no institutional class, so they fall in non-residential or other residential in the table by occupancy group.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

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; OpenFEMA's fmaRI field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRI) is 2 or more claims over \$1,000 in 10 years and can drop to false when a property is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured.

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

Counts are aggregates of FEMA's public NFIP Multiple Loss Properties file (as of 2026-08-02). No property is identified. County assignment is FEMA's geocode.

Counts may differ from your state NFIP coordinator's list, which is the source the Handbook names.

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

Every table above lists its own sources. The full list, for the plan's bibliography (FEMA review item A4-a):

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <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 2026-09-28, 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 2026-09-28, <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 2026-09-28, <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 2026-09-28, 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/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

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Corrections: to report an error, name the packet, the table and what your records show. Contact: to be added

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_UT_49003. Preview: automated baseline.