

Utah County, UT

Risk-assessment baseline packet

Unit **County area 49049** 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	Approved, expires 2027-05-17	Plan	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)
Approved	2022-05-18	Expires	2027-05-17
As of	2026-09-28	Days	231 days to expiry
Update underway	none in FEMA's plan tracker		

What changed since your last plan (approved 2022-05-18)

New federal declarations	DR-4752-UT, FM-5639-UT (2 declaration rows; 2 counted incidents)	Storm Events records since approval	186 (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: 26 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

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

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Plan clock

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
Utah County	County	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Alpine city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
American Fork city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Cedar Hills city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Eagle Mountain city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Elk Ridge city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Fairfield town	Town	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Genola town	Town	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Goshen town	Town	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Highland city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Lehi city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Lindon city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Mapleton city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Orem city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Payson city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Pleasant Grove city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Provo city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Salem city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Santaquin city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Saratoga Springs city	City	Approved, expires 2031-01-07	Saratoga Springs, UT Hazard Mitigation Plan 2026 (FEMA plan 111162)	2026-01-08	2031-01-07	1,562		Also approved under plan 108125 (Mountainland AOG, UT Hazard Mitigation Plan 2022, expires 2027-05-17). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.
Spanish Fork city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Springville city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Vineyard town	Town	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Woodland Hills city	City	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Nebo School District	School/School District	Approved, expires 2027-05-17	Mountainland AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108125)	2022-05-18	2027-05-17	231		
Central Utah Water Conservancy District	Water/Sewer Authority	Approved, expires 2028-11-16	Central Utah Water Conservancy District Hazard Mitigation Plan 2023 (FEMA plan 109314)	2023-11-17	2028-11-16	780		Also approved under plan 108125 (Mountainland AOG, UT Hazard Mitigation Plan 2022, expires 2027-05-17). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.

Plan 108125 also covers 16 other participants not listed on this page (named in the XLSX file).

SOURCE

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 High	Relatively High	\$82,337,315		\$80,185,563	\$162,522,878			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
2	Inland Flooding	Relatively Moderate	Relatively High	\$63,619,132	\$6,212	\$270,341	\$63,895,685	41		
3	Wildfire	Relatively High	Relatively High	\$32,459,181	\$4,214	\$2,549,407	\$35,012,802	16		
4	Heat Wave	Relatively Moderate	Relatively Moderate	\$1,101	\$20,277	\$8,107,467	\$8,128,846	4		
5	Lightning	Very High	Very High	\$59,241		\$6,850,000	\$6,909,241	8		
6	Avalanche	Relatively High	Relatively High	\$1,910		\$3,396,620	\$3,398,529	54		
7	Strong Wind	Relatively High	Relatively High	\$671,986	\$13,377	\$2,156,739	\$2,842,101	382		Includes 249 High Wind records and 4 Strong Wind records, event types the NRI definition of this hazard leaves out.
8	Tornado	Relatively Low	Relatively Low	\$498,086	\$812	\$1,610,525	\$2,109,422	4		
9	Cold Wave	Relatively Low	Relatively Moderate	\$2,298	\$7,826	\$1,103,122	\$1,113,246	2		
10	Winter Weather	Relatively High	Relatively High	\$48,055	\$372	\$848,022	\$896,449	497		
11	Drought	Relatively Moderate	Relatively Moderate		\$704,782		\$704,782	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Hail	Very Low	Relatively Low	\$25,854	\$4,573	\$169,823	\$200,250	37		

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
13	Ice Storm	Relatively Low	Relatively Moderate	\$92,229		\$44,968	\$137,198	2		
14	Landslide	Relatively Low	Relatively Low	\$14,854		\$1,164	\$16,018	13		
15	Volcanic Activity	Very Low	Very Low	under \$1		\$156	\$157	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.	31 of 156
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 156
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	156 of 156
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	91 of 156

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
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.	156 of 156
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	156 of 156
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	156 of 156
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 156
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	156 of 156
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.	156 of 156
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.	152 of 156
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	156 of 156
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	156 of 156
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.	156 of 156
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 156
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.	156 of 156
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.	132 of 156
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	156 of 156

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)	54, 1998 to 2026 (54 zone-level)		Avalanche, 2023-04-10, \$100,000 property; \$0 crops, reported for the zone (2023 dollars); NWS zone UTZ111 (WASATCH MOUNTAINS SOUTH OF I-80), 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.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	2, 1998 to 2023 (2 zone-level)	1 day to 4 days (median 2.5 days); 2 with a recorded value	4 consecutive days, 1998-12-21 to 1998-12-24, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: 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
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)	53, 1959 to 2024	0.34 in to 2 in (median 0.88 in); 53 with a recorded value	2 in hail, 1987-07-21	Hail, 1998-08-26, \$300,000 property; \$100,000 crops (1998 dollars)	Event records naming member places: Lehi city (8 records), Pleasant Grove city (6 records), American Fork city (4 records), Springville city (4 records), Alpine city (3 records), Provo city (3 records), Lindon city (2 records), Orem city (2 records), Payson city (2 records), Goshen town (1 record); and 2 more member places (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	4, 2019 to 2021 (4 zone- level)	1 day to 3 days (median 1.5 days); 4 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)	2, 2013 to 2019 (2 zone- level)		No damage reported in 2 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.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	41, 1998 to 2025 (5 zone- level)		Flash Flood, 2002-09-12, \$3,000,000 property; \$100,000 crops (2002 dollars)		Event records naming member places: Lehi city (4 records), Salem city (4 records), Alpine city (3 records), Spanish Fork city (3 records), Santaquin city (2 records), Goshen town (1 record), Lindon city (1 record), Mapleton city (1 record), Orem city (1 record), Provo city (1 record). Zone-level records (5) 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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Debris Flow	none (count and damage)	13, 2005 to 2025 (4 zone-level)		Debris Flow, 2013-09-07, \$200,000 property; \$0 crops (2013 dollars)		Event records naming member places: Alpine city (3 records), Lehi city (1 record). Zone-level records (4) apply countywide.	Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	8, 1997 to 2020		Lightning, 2015-08-30, \$0 property; \$0 crops (2015 dollars), 1 direct death	Lightning, 1998-10-03, \$100,000 property; crops not reported (1998 dollars)	Event records naming member places: Orem city (3 records), Alpine city (1 record), Lehi city (1 record).	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)	253, 1996 to 2026 (253 zone-level)	49 kt (56 mph) to 113 kt (130 mph) (median 61 kt (70 mph)); 247 with a recorded value	113 kt (130 mph) measured gust, High Wind, 2022-12-21; NWS zone UTZ111 (WASATCH MOUNTAINS SOUTH OF I-80), zone-level: may include parts of neighboring counties	High Wind, 2010-04-27, \$250,000 property; \$0 crops, reported for the zone (2010 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	183, 1967 to 2026	50 kt (58 mph) to 92 kt (106 mph) (median 54.5 kt (63 mph)); 170 with a recorded value	92 kt (106 mph) measured gust, Thunderstorm Wind, 2006-08-01	Thunderstorm Wind, 1994-05-31, \$50,000,000 property; crops not recorded (1994 dollars)	Event records naming member places: Provo city (19 records), Lehi city (18 records), Orem city (9 records), Alpine city (7 records), Payson city (7 records), Pleasant Grove city (5 records), Santaquin city (5 records), Spanish Fork city (5 records), American Fork city (4 records), Springville city (4 records); and 3 more member places (see the XLSX file).	
Tornado	Enhanced Fujita (F before Feb 2007)	10, 1965 to 2013	F/EF0 to F/EF1 (median F/EF0); 9 with a recorded value	F1 tornado, 1965-07-09, 0.4 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 17 yd wide, \$2,500 property; crops not recorded (1965 dollars)	Tornado, 1982-09-13, \$25,000 property; crops not recorded (1982 dollars)	Event records naming member places: American Fork city (1 record), Lehi city (1 record), Payson 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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Wildfire	acres burned (local data)	16, 2012 to 2026 (16 zone- level)		Wildfire, 2018-08-01, \$25,000,000 property; \$0 crops, reported for the zone (2018 dollars); NWS zone UTZ010 (WASATCH PLATEAU/BOOK CLIFFS), 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)	497, 1996 to 2026 (497 zone-level)		Heavy Snow, 2024-02-06, \$1,000,000 property; \$0 crops, reported for the zone (2024 dollars); NWS zone UTZ111 (WASATCH MOUNTAINS SOUTH OF I-80), 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.

Where a hazard names more than 10 member places, the table lists the 10 with the most records; every place is in the XLSX file, sheet "B1-c Extent".

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 rows13Counted incidents10

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
2026-06-21	2026-06-19	FM-5639-UT	Fire management	IRON FIRE	Wildfire	none found	new since last plan; within last 5 years	
2023-12-23	2023-05-01	DR-4752-UT	Major disaster	FLOODING	Inland Flooding	\$11,295,676.10	new since last plan; within last 5 years	
2020-09-07	2020-09-07	FM-5353-UT	Fire management	ETHER HOLLOW FIRE	Wildfire	none found		
2020-06-28	2020-06-28	FM-5318-UT	Fire management	KNOLLS FIRE	Wildfire	none found		
2020-04-04	2020-01-20	DR-4525-UT	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$3,575,580.57		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2020-03-13	2020-01-20	EM-3478-UT	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4525
2018-09-21	2018-09-21	FM-5277-UT	Fire management	BALD MOUNTAIN FIRE	Wildfire	none found		
2012-06-22	2012-06-22	FM-2983-UT	Fire management	DUMP FIRE	Wildfire	none found		
2011-08-08	2011-04-18	DR-4011-UT	Major disaster	FLOODING	Inland Flooding	\$541,628.50		
2005-09-05	2005-08-29	EM-3223-UT	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	\$4,023.74		
2001-08-19	2001-08-18	FM-2381-UT	Fire management	UT - MOLLIE FIRE - 08/19/01	Wildfire	none found		
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		

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	54	21	0	21	0	0	1996 to 2026-06-30	
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	2	1	0	1	0	0	1996 to 2026-06-30	
Drought	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	53	6	0	6	0	0	1955 to 2026-06-30	
Heat Wave	4	0	3	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

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
Ice Storm	2	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	41	7	4	7	4	1	1996 to 2026-06-30	
Landslide	13	3	0	3	2	0	1996 to 2026-06-30	
Lightning	8	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	436	93	14	99	0	0	1955 to 2026-06-30	Includes 249 High Wind records and 4 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	16	2	0	2	6	1	1996 to 2026-06-30	
Winter Weather	497	53	9	62	0	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
2024-05-09	Avalanche		\$0 property; \$0 crops, reported for the zone (2024 dollars)	2, 1	NWS zone UTZ111 (WASATCH MOUNTAINS SOUTH OF I-80), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	deaths or injuries recorded
2023-04-10	Avalanche		\$100,000 property; \$0 crops, reported for the zone (2023 dollars)	0, 0	NWS zone UTZ111 (WASATCH MOUNTAINS SOUTH OF I-80), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: Avalanche
2022-12-21	High Wind	113 kt (130 mph) measured gust	\$0 property; \$0 crops, reported for the zone (2022 dollars)	0, 0	NWS zone UTZ111 (WASATCH MOUNTAINS SOUTH OF I-80), 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)
2021-06-03	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2021 dollars)	0, 0	NWS zone UTZ106 (UTAH VALLEY), zone-level: may include parts of neighboring counties	during plan review, check whether your last plan included it	B1-c worst recorded: Excessive Heat, Heat

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2021-02-06	Avalanche		\$0 property; \$0 crops, reported for the zone (2021 dollars)	4, 1	NWS zone UTZ008 (WASATCH MOUNTAINS SOUTH OF I-80), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2018-08-01	Wildfire		\$25,000,000 property; \$0 crops, reported for the zone (2018 dollars)	0, 0	NWS zone UTZ010 (WASATCH PLATEAU/ BOOK CLIFFS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Wildfire
2015-08-30	Lightning		\$0 property; \$0 crops (2015 dollars)	1, 0	LEHI		B1-c worst recorded: Lightning
2006-08-01	Thunderstorm Wind	92 kt (106 mph) measured gust	\$3,000,000 property; crops not reported (2006 dollars)	0, 0	(PVU)PROVO MUNI ARPT		B1-c worst recorded: Thunderstorm Wind
2003-12-26	Avalanche		\$0 property; \$0 crops, reported for the zone (2003 dollars)	3, 0	NWS zone UTZ008 (W SUMMIT T NW/SE SALT LAKE/WASATCH X SC/E UTAH/P X E JUAB/X NW SAN PETE), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2002-09-12	Flash Flood		\$3,000,000 property; \$100,000 crops (2002 dollars)	0, 0	SANTAQUIN		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1998-12-21	Cold/Wind Chill		damage not reported	0, 0	NWS zone UTZ014 (C SC SANPETE/C SEVIER), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/ Wind Chill, Extreme Cold/ Wind Chill
1965-07-09	Tornado	F1, 0.4 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 17 yd wide	\$2,500 property; crops not recorded (1965 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado

The full list is in the XLSX file, sheet "B1-d Storm Events history" (1,136 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	0.867	events per year	about 0.87 per year	Likely	FEMA annualized frequency (modeled)	26	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	0.0241	event-days per year	about 0.0241 days per year	Possible	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	0.494	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	69.2	event-days per year	about 69.2 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	2,373	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Earthquake	0.0142	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 1.42%			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	0.266	events per year	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	10.1 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	1.31	event-days per year	about 1.31 days per year	Possible	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	17.3	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 1.31 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 2 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.
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	Possible	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	0	1946-12-31 to 2014-02-12 (67 years)	countywide	

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
Inland Flooding	1.11	event-days per year	about 1.11 days per year	Likely	event-days in 19 of 30 years, 1996 to 2025 (63.3%)	31	1996 to 2023 (28 years)	see B1-f	
Landslide	1.67	events per year (modeled)	about 1.67 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	43.6	days per year with a strike	about 43.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.935	events per year	about 0.94 per year	Likely	FEMA annualized frequency (modeled)	37	1986 to 2023 (38 years)	countywide	
Tornado	0.112	events per year	about 1 in 9 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	0.0124	annual probability at a location	chance a given location in the county burns in a year: 1.24%	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	41	event-days per year	about 41 days per year	Highly likely	event-days in 30 of 30 years, 1996 to 2025 (100%)	751	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	17	30	0.567
Hail	2.00 in+	1996 to 2025	0	30	0
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	114	30	3.8
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	10	30	0.333
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	2	30	0.0667
Tornado	EF0-1	1996 to 2025	4	30	0.133
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

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

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	31 of 156	85.4	89.0	94.6	Relatively High 7, Relatively Moderate 24, Not Applicable 125	
Coastal Flooding	0 of 156				Not Applicable 156	
Cold Wave	156 of 156	15.6	20.5	28.7	Relatively Low 133, Very Low 23	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	91 of 156	68.0	77.1	97.2	Relatively Moderate 4, Relatively Low 31, Very Low 56, No Rating 65	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	156 of 156	2.5	86.9	99.9	Very High 3, Relatively High 61, Relatively Moderate 67, Relatively Low 22, Very Low 3	
Hail	156 of 156	1.0	20.3	36.3	Very Low 156	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	156 of 156	1.6	47.1	83.5	Relatively Moderate 44, Relatively Low 108, Very Low 4	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 156				Not Applicable 156	
Ice Storm	156 of 156	0.1	6.7	37.9	Relatively Low 1, Very Low 155	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	156 of 156	0.2	11.5	97.8	Very High 1, Relatively High 3, Relatively Moderate 10, Relatively Low 58, Very Low 84	
Landslide	152 of 156	8.8	13.5	98.5	Relatively Moderate 1, Relatively Low 3, Very Low 148, No Rating 4	
Lightning	156 of 156	0.1	80.2	98.3	Very High 6, Relatively High 89, Relatively Moderate 58, Relatively Low 1, Very Low 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.
Strong Wind	156 of 156	0.8	41.5	81.6	Relatively Moderate 27, Relatively Low 126, Very Low 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.
Tornado	156 of 156	0.3	22.2	39.7	Relatively Low 17, Very Low 139	
Tsunami	0 of 156				Not Applicable 156	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Volcanic Activity	156 of 156	40.1	51.3	76.6	Very Low 156	
Wildfire	132 of 156	18.6	85.8	99.7	Very High 7, Relatively High 16, Relatively Moderate 37, Relatively Low 25, Very Low 47, No Rating 24	
Winter Weather	156 of 156	10.7	61.0	87.4	Relatively High 6, Relatively Moderate 132, Relatively Low 16, Very Low 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.

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
Utah County	County	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	\$11,513,537.18	0; 0	Includes \$3,558,945.71 for declarations not counted as hazard incidents (DR-4525-UT).
Alpine city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	\$11,859.36	17; 5	
American Fork city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	\$848,029.37	9; 2	
Cedar Hills city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	0; 0	
Eagle Mountain city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	0; 0	
Elk Ridge city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	0; 0	
Fairfield town	Town	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	0; 0	
Genola town	Town	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	\$10,537.59	2; 1	
Goshen town	Town	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	2; 0	
Highland city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	0; 0	
Lehi city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	\$17,425.61	33; 11	

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
Lindon city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	3; 0	
Mapleton city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	2; 1	
Orem city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	15; 1	
Payson city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	\$17,151.31	10; 3	
Pleasant Grove city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	\$157,754.40	11; 0	
Provo city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	23; 0	
Salem city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	6; 1	
Santaquin city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	\$177,339.26	7; 4	Includes \$16,634.86 for declarations not counted as hazard incidents (DR-4525-UT).
Saratoga Springs city	City	Approved, expires 2031-01-07	FMA RL 0, SRL 0; any 0	none found	0; 0	Also approved under plan 108125 (Mountainland AOG, UT Hazard Mitigation Plan 2022, expires 2027-05-17). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.
Spanish Fork city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	\$2,004,268.58	9; 1	
Springville city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	\$654,982.51	8; 2	
Vineyard town	Town	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	0; 0	
Woodland Hills city	City	Approved, expires 2027-05-17	FMA RL 0, SRL 0; any 0	none found	0; 0	

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 2022-05-18 <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	\$3,726,959		10	\$1,910		\$3,396,620	0.0512%		\$163,500		
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$101,183,974,063	\$249,887,499	655,481	\$2,298	\$7,826	\$1,103,122	under 0.0001%		\$0		
Drought		\$87,096,524			\$704,782		0.809% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$176,961,111,431		659,399	\$82,337,315		\$80,185,563	0.0465%				
Hail	\$102,332,574,955	\$260,820,632	659,138	\$25,854	\$4,573	\$169,823	under 0.0001%	\$105,000			
Heat Wave	\$101,385,984,190	\$250,457,308	656,515	\$1,101	\$20,277	\$8,107,467	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$102,332,574,955		659,138	\$92,229		\$44,968	under 0.0001%				
Inland Flooding	\$102,294,575,518	\$17,773,325	3,667	\$63,619,132	\$6,212	\$270,341	n/a (see note)	\$647,000		\$11,295,676.10	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	\$1,372,457,407		6,935	\$14,854		\$1,164	0.00108%	\$9,500			

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 2022-05-18 <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
Lightning	\$102,332,574,955		659,138	\$59,241		\$6,850,000	under 0.0001%				
Strong Wind	\$102,332,574,955	\$260,820,632	659,138	\$671,986	\$13,377	\$2,156,739	0.000657%	\$56,750	\$67,000		Storm Events damage since the plan includes 2 zone-level High Wind records (\$55,000) and 1 zone-level Strong Wind record (\$12,000), event types the NRI definition of this hazard leaves out.
Tornado	\$102,332,574,955	\$260,820,632	659,138	\$498,086	\$812	\$1,610,525	0.000487%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity	\$102,332,574,955		659,138	under \$1		\$156	under 0.0001%				
Wildfire	\$13,332,784,772	\$144,277,290	112,152	\$32,459,181	\$4,214	\$2,549,407	0.243%			none found (1 declaration)	
Winter Weather	\$102,332,574,955	\$260,820,632	659,138	\$48,055	\$372	\$848,022	under 0.0001%		\$1,532,500		

Totals since 2022-05-18 (Storm Events through 2026-06-30): 75 county-coded records, 75 with a damage value recorded (including \$0), \$818,250; 111 zone-level records, 109 with a damage value recorded (including \$0), \$1,763,000 reported for the zone; Public Assistance on counted declarations \$11,295,676.10 (2 declarations, 1 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	659,138
Building value (total, not at risk)	\$102,332,574,955
Agriculture value (total, not at risk)	\$260,820,632
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$180,593,687
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)	\$107,293,917
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)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (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
Utah County	495517	0	0	0	0	0	0	0	
Alpine city	490228	0	0	0	0	0	0	0	
American Fork city	490152	0	0	0	0	0	0	0	
Cedar Hills city	490204	0	0	0	0	0	0	0	
Eagle Mountain city	490258	0	0	0	0	0	0	0	
Elk Ridge city	490259	0	0	0	0	0	0	0	
Fairfield town	490260	0	0	0	0	0	0	0	
Genola town	490154	0	0	0	0	0	0	0	
Goshen town	490155	0	0	0	0	0	0	0	
Highland city	490254	0	0	0	0	0	0	0	
Lehi city	490209	0	0	0	0	0	0	0	
Lindon city	490210	0	0	0	0	0	0	0	
Mapleton city	490156	0	0	0	0	0	0	0	
Orem city	490216	0	0	0	0	0	0	0	
Payson city	490157	0	0	0	0	0	0	0	
Pleasant Grove city	490235	0	0	0	0	0	0	0	
Provo city	490159	0	0	0	0	0	0	0	
Salem city	490160	0	0	0	0	0	0	0	
Santaquin city	490227	0	0	0	0	0	0	0	
Saratoga Springs city	490250	0	0	0	0	0	0	0	
Spanish Fork city	490241	0	0	0	0	0	0	0	
Springville city	490163	0	0	0	0	0	0	0	
Vineyard town	490261	0	0	0	0	0	0	0	
Woodland Hills city	490262	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

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>
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_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

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Cite this: Hazard Plain (2026). Utah County, UT: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 49049). Preview: automated baseline. Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

Corrections: to report an error, name the packet, the table and what your records show. Contact: 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_49049. Preview: automated baseline.