

Beaver County, UT

Risk-assessment baseline packet

County FIPS: 49001 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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Summary

Plan status as of 2026-09-30: Approved, expires 2027-07-12. Plan: Five County AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108340), approved 2022-07-13. Since the plan was approved on 2022-07-13: 1 new hazard declaration (1 incident): FM-5640-UT (Cottonwood Fire). NOAA Storm Events records since that date: 65 records (data through 2026-06-30). Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Earthquake (\$1,061,877 a year), Inland Flooding (\$1,060,079) and Avalanche (\$1,004,667). Repetitive-loss flood properties now: FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0. The tables that follow are organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B (B1-a to B2-c); each heading says which item its tables support.

TERMS USED

EAL: expected annual loss: FEMA's modeled average yearly loss from a hazard.
NRI: FEMA's National Risk Index (version 1.20, December 2025).
NFIP: National Flood Insurance Program.
RL, SRL: repetitive loss and severe repetitive loss: flood-insured properties with repeated claims (definitions in B2-c).
FMA, HMGP: Flood Mitigation Assistance and Hazard Mitigation Grant Program, FEMA mitigation grants.
PA: FEMA Public Assistance: disaster aid to governments and some nonprofits.
Zone-level: NOAA logged the event for a National Weather Service forecast zone, which may include parts of neighboring counties.
County-coded: NOAA logged the event to this county.
FIPS: the federal code for a place; 49001 is this area.
D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).
F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.
kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.
CFR: Code of Federal Regulations.
A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).
Dollars: nominal (as reported, labeled with the year), not adjusted for inflation.

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Plan clock

Status:	Approved, expires 2027-07-12	Plan:	Five County AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108340)
Approved:	2022-07-13	Days to expiry:	285
Update underway:	none recorded in FEMA's plan tracker		

What changed since your last plan (approved 2022-07-13)

New federal declarations:	1 new hazard declaration (1 incident): FM-5640-UT (Cottonwood Fire)	Storm Events records since approval:	65 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0	Repeat-flood change:	this release sets the baseline count.

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

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>
Beaver County	County	Approved, expires 2027-07-12	Five County AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108340)	2022-07-13	2027-07-12	285
Beaver city	City	Approved, expires 2027-07-12	Five County AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108340)	2022-07-13	2027-07-12	285
Milford city	City	Approved, expires 2027-07-12	Five County AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108340)	2022-07-13	2027-07-12	285
Minersville town	Town	Approved, expires 2027-07-12	Five County AOG, UT Hazard Mitigation Plan 2022 (FEMA plan 108340)	2022-07-13	2027-07-12	285

Plan 108340 covers 41 other participants, named in the Excel file.

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

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

- dam failure (incl. upstream dams)
- levee failure
- flash flood as its own subtype
- ice jams
- debris flows
- erosion (riverine and coastal)
- land subsidence and sinkholes
- expansive soils

The 18 National Risk Index hazards, ranked by expected annual loss (EAL)

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Earthquake	Relatively Low	Relatively Low	\$754,107	n/a	\$307,771	\$1,061,877			Storm Events does not record earthquakes.
2	Inland Flooding	Very Low	Very Low	\$1,060,047	\$5	\$27	\$1,060,079	5		
3	Avalanche	Relatively Moderate	Relatively Moderate	under \$1	n/a	\$1,004,667	\$1,004,667	1		
4	Wildfire	Relatively Low	Relatively Low	\$658,166	\$1,949	\$23,689	\$683,804	8		
5	Winter Weather	Relatively High	Relatively High	\$37,556	\$272	\$236,319	\$274,146	186		
6	Drought	Relatively Low	Relatively Low	n/a	\$210,231	n/a	\$210,231	0		Declared 1 time; no Storm Events record of this type.
7	Lightning	Relatively Low	Relatively Low	\$425	n/a	\$195,714	\$196,139	1		
8	Heat Wave	Very Low	Very Low	\$1	\$18,402	\$128,985	\$147,388	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
9	Landslide	Relatively Moderate	Relatively Low	\$85,340	n/a	\$119	\$85,459	1		
10	Strong Wind	Very Low	Very Low	\$3,921	\$6,155	\$23,410	\$33,486	128		Includes 87 High Wind and 1 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
11	Cold Wave	Very Low	Very Low	\$47	\$10,146	\$4,906	\$15,098	2		

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
12	Ice Storm	Very Low	Very Low	\$13	n/a	\$4,262	\$4,274	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Tornado	Very Low	Very Low	\$153	\$170	\$1,742	\$2,065	3		
14	Hail	Very Low	Very Low	\$1,804	\$28	\$21	\$1,853	5		
15	Volcanic Activity	Very Low	Very Low	under \$1	n/a	\$3	\$3	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Hurricane	Not Applicable	Not Applicable					0	NRI rates hurricane Not Applicable for this county, and no counted federal declaration for this county names it (EM-3223-UT names it but is not counted as a local occurrence; see B1-d).	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

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

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

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: coastal flooding and tsunamis. That is the evidence for leaving them out of the plan.

The state hazard mitigation plan also lists hazards for this county; FEMA asks the plan to explain any hazard it leaves out.

Supports FEMA checklist item B1-b: hazard location

Affects the whole county (national data give no location within it): Cold Wave, Drought, Hail, Heat Wave, Ice Storm, Lightning, Strong Wind and Winter Weather.

Inland Flooding: The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (<https://msc.fema.gov>) for this county.

Hazards that vary within the county: highest-rated census tracts

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Avalanche	tract 1001 (Relatively Moderate, 81.8); tract 1002 (Relatively Moderate, 80.2)
Earthquake	tract 1001 (Relatively High, 89.6); tract 1002 (Relatively Moderate, 84.5)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 1002 (Relatively High, 99.4); tract 1001 (Relatively Moderate, 99.3)
Tornado	tract 1001 (Very Low, 4.0); tract 1002 (Very Low, 2.5)
Volcanic Activity	tract 1001 (Very Low, 77.2); tract 1002 (Very Low, 67.9)
Wildfire	tract 1001 (Relatively High, 97.9); tract 1002 (Relatively High, 97.5)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 1001 is Census Tract 1001). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Avalanche	none (count and damage only)	1 record, 2019 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	Physical measure: in event narratives only (local data needed).
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	2 records, 1998 to 2004 (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		Countywide (zone-level records).	Wind chill: in event narratives only (local data needed).
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					Temperature: in event narratives only (local data needed).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Drought	U.S. Drought Monitor scale (D0 to D4)	0					Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	6 records, 1981 to 2021	0.25 in to 2 in (median 1 in); 6 with a recorded value	2 in hail, 2021-08-17	Hail, 2016-04-28, \$25,000 property; \$0 crops (2016 dollars)	Event records naming jurisdictions in the plan: Beaver city (4 records), Milford city (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	0					Heat index: in event narratives only (local data needed).
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	0					Ice thickness: in event narratives only (local data needed).
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	5 records, 2005 to 2021 (1 zone-level)		No damage reported in 5 records.		Event records naming jurisdictions in the plan: Minersville town (2 records), Milford city (1 record). Zone-level records (1) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	1 record, 2011 (1 zone-level)		Debris Flow, 2011-10-08, \$12,000,000 property; \$0 crops (2011 dollars); NWS zone UTZ518		Countywide (zone-level records).	Physical measure: in event narratives only (local data needed).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1 record, 2017		Lightning, 2017-07-29, \$0 property; \$0 crops (2017 dollars), 2 direct injuries		Event records naming jurisdictions in the plan: Beaver city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	88 records, 1996 to 2026 (88 zone-level)	48 kt (55 mph) to 76 kt (87 mph) (median 54 kt (62 mph)); 86 with a recorded value	76 kt (87 mph) measured gust, High Wind, 2016-02-18; NWS zone UTZ518	High Wind, 1998-11-23, \$100,000 property; \$0 crops, reported for the zone (1998 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	56 records, 1956 to 2026	50 kt (58 mph) to 80 kt (92 mph) (median 55 kt (63 mph)); 56 with a recorded value	80 kt (92 mph), measurement type not recorded, Thunderstorm Wind, 2001-08-17	Thunderstorm Wind, 2016-07-25, \$20,000 property; \$0 crops (2016 dollars)	Event records naming jurisdictions in the plan: Milford city (9 records), Beaver city (4 records), Minersville town (1 record).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	7 records, 1982 to 2012	F/EF0; 7 with a recorded value	F0 tornado, 1982-05-03, 0.1 mi path length (whole path, pre-1996), 10 yd wide, \$30 property; crops not recorded (1982 dollars)		Event records naming jurisdictions in the plan: Milford city (2 records).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only (local data needed).
Wildfire	acres burned (local data)	8 records, 2012 to 2026 (8 zone-level)		Wildfire, 2025-06-19, \$35,000,000 property; \$0 crops (2025 dollars); NWS zone UTZ125		Countywide (zone-level records).	Acres burned: in event narratives only (local data needed).
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	186 records, 1996 to 2026 (186 zone-level)		Winter Weather, 2024-02-13, \$1,000,000 property; \$0 crops (2024 dollars); NWS zone UTZ122		Countywide (zone-level records).	Snow depth: in event narratives only (local data needed).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records whose zone no NWS zone-county file places in this county (mostly before 2020) are not counted here (the Methods page explains the zone matching).

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 8 declarations covering 5 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2026-06-23	2026-06-22	FM-5640-UT	Fire management	Cottonwood Fire	Wildfire	no Public Assistance recorded	new since last plan; within last 5 years	
2020-04-04	2020-01-20	DR-4525-UT	Major disaster	COVID-19 Pandemic	Non-natural, not counted	no Public Assistance recorded		
2020-03-13	2020-01-20	EM-3478-UT	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4525
2011-08-08	2011-04-18	DR-4011-UT	Major disaster	Flooding	Inland Flooding	\$70,395.09		
2005-09-05	2005-08-29	EM-3223-UT	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2005-08-01	2005-04-28	DR-1598-UT	Major disaster	Flooding and Landslides	Inland Flooding	\$411,087.93		
1983-04-30	1983-04-13	DR-680-UT	Major disaster	Severe Storms, Landslides & Flooding	Inland Flooding (primary); also designated: Landslide	no Public Assistance recorded		
1977-01-20	1977-01-20	EM-3024-UT	Emergency	Drought	Drought	no Public Assistance recorded		

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

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval records	In the 12 months before plan approval records	Last 5 years records	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Avalanche	1	0	0	0	0	0	1996 to 2026-06-30	
Cold Wave	2	0	0	0	0	0	1996 to 2026-06-30	
Drought	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	6	0	2	0	0	0	1955 to 2026-06-30	
Heat Wave	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, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Inland Flooding	5	0	2	0	3	0	1996 to 2026-06-30	
Landslide	1	0	0	0	1	0	1996 to 2026-06-30	
Lightning	1	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	144	28	16	40	0	0	1955 to 2026-06-30	Includes 87 High Wind and 1 Strong Wind records.
Tornado	7	0	0	0	0	0	1950 to 2026-06-30	
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	8	2	0	2	1	1	1996 to 2026-06-30	
Winter Weather	186	35	7	42	0	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2025-06-19	Wildfire		\$35,000,000 property; \$0 crops, reported for the zone (2025 dollars)	0, 0	NWS zone UTZ125 (SOUTHERN MOUNTAINS), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Wildfire
2024-02-13	Winter Weather		\$1,000,000 property; \$0 crops, reported for the zone (2024 dollars)	0, 0	NWS zone UTZ122 (SOUTHWEST UTAH), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2021-08-17	Hail	2 in	\$20,000 property; \$0 crops (2021 dollars)	0, 0	BEAVER	in the 12 months before plan approval	B1-c worst recorded: Hail
2017-07-29	Lightning		\$0 property; \$0 crops (2017 dollars)	0, 2	BEAVER		B1-c worst recorded: Lightning
2017-03-05	High Wind	61 kt (70 mph) measured gust	\$80,000 property; \$0 crops, reported for the zone (2017 dollars)	0, 10	NWS zone UTZ016 (SOUTHWEST UTAH), zone-level		deaths or injuries recorded
2016-02-18	High Wind	76 kt (87 mph) measured gust	\$50,000 property; \$0 crops, reported for the zone (2016 dollars)	0, 0	NWS zone UTZ518 (SOUTHERN MOUNTAINS), zone-level		B1-c worst recorded: High Wind and Strong Wind
2012-07-01	Wildfire		\$150,000 property; \$0 crops, reported for the zone (2012 dollars)	0, 4	NWS zone UTZ518 (SOUTHERN MOUNTAINS), zone-level		deaths or injuries recorded
2011-10-08	Debris Flow		\$12,000,000 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone UTZ518 (SOUTHERN MOUNTAINS), zone-level		B1-c worst recorded: Debris Flow
2001-08-17	Thunderstorm Wind	80 kt (92 mph), measurement type not recorded	\$2,000 property; \$1,000 crops (2001 dollars)	0, 0	MILFORD		B1-c worst recorded: Thunderstorm Wind
1998-12-21	Cold/Wind Chill		\$20,000 property; \$0 crops, reported for the zone (1998 dollars)	0, 0	NWS zone UTZ016 (BEAVER T X E/IRON T XS XE), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1998-11-08	Winter Storm		\$500,000 property; \$0 crops, reported for the zone (1998 dollars)	0, 10	NWS zone UTZ016 (BEAVER T X E/IRON T XS XE), zone-level		deaths or injuries recorded
1982-05-03	Tornado	F0, 0.1 mi path length (whole path, pre-1996), 10 yd wide	\$30 property; crops not recorded (1982 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (361 rows).

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

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

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

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

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

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche	0.0667	events per year	about 1 in 15 years	Possible	FEMA annualized frequency (modeled)	2	1994 to 2023 (30 years)	see B1-f	
Cold Wave	0.0402	event-days per year	about 0.0402 days per year	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	0.764	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	71.5	event-days per year	about 71.5 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	2,205	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.015	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 1.5%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.05	events per year	about 1 in 20 years	Possible	FEMA annualized frequency (modeled)	1.9 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	1.52	event-days per year	about 1.52 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	19.8	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events heat wave record, 1996 to 2025
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		event-days in 0 of 30 years, 1996 to 2025 (0%)	0	1946-12-31 to 2014-02-12 (67 years)	countywide	No Storm Events ice storm record, 1996 to 2025
Inland Flooding	0.143	event-days per year	about 0.143 days per year	Likely (from Storm Events: 3 of 30 years)	event-days in 3 of 30 years, 1996 to 2025 (10%)	4	1996 to 2023 (28 years)	see B1-f	
Landslide	1.54	events per year (modeled)	about 1.54 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	39.1	days per year with a strike	about 39.1 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.112	events per year	about 1 in 9 years	Likely	FEMA annualized frequency (modeled)	5	1986 to 2023 (38 years)	countywide	
Tornado	0.0481	events per year	about 1 in 21 years	Possible	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	

Hazard	FEMA annualized frequency (modeled) <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
Volcanic Activity	0.0003	annual probability	about 1 in 3,333 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.00413	annual probability at a location	chance a given location in the county burns in a year: 0.413%	Likely (from Storm Events: 4 of 30 years)	Storm Events records in 4 of 30 years, 1996 to 2025 (13.3%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	18.7	event-days per year	about 18.7 days per year	Highly likely (from Storm Events: 29 of 30 years)	event-days in 29 of 30 years, 1996 to 2025 (96.7%)	356	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) is the National Risk Index v1.20 (December 2025) estimate of how often a hazard affects this county in a year; it is not recorded events divided by years, and its unit differs by hazard (events, event-days, or days with a lightning strike per year). For earthquake, wildfire, coastal flooding and tsunami the value is the chance (or number of events) at a location in the county, not across the county, so no "1 in N years" is given and the descriptor comes from Storm Events where it has a record (none for earthquake). The Methods page gives each hazard's method, from FEMA's National Risk Index Technical Documentation v1.20.

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

Unit	Descriptor	Definition
events per year	Highly likely	1 or more per year
events per year	Likely	about once in 1 to 10 years
events per year	Possible	about once in 10 to 100 years
events per year	Unlikely	less than once in 100 years
annual probability	Likely	10% to under 100% chance in a given year
annual probability	Possible	1% to under 10% chance in a given year
annual probability	Unlikely	under 1% chance in a given year
event-days (share of years)	Highly likely	event-days recorded in 90% or more of years
event-days (share of years)	Likely	event-days recorded in 10% to under 90% of years
event-days (share of years)	Possible	event-days recorded in some years but under 10% of years
lightning strike-days	Highly likely	cloud-to-ground strikes on 1 or more days per year

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	2	30	0.0667
Hail	2.00 in+	1996 to 2025	1	30	0.0333
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	36	30	1.2
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	3	30	0.1
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Avalanche	2 of 2	80.2	81.0	81.8	Relatively Moderate 2
Cold Wave	2 of 2	21.8	23.2	24.6	Relatively Low 2
Drought	2 of 2	94.8	95.8	96.7	Relatively Moderate 2
Earthquake	2 of 2	84.5	87.0	89.6	Relatively High 1, Relatively Moderate 1
Hail	2 of 2	19.3	22.0	24.8	Very Low 2
Heat Wave	2 of 2	65.2	73.0	80.8	Relatively Moderate 2
Hurricane	0 of 2				Not Applicable 2
Ice Storm	2 of 2	22.3	31.0	39.6	Relatively Low 1, Very Low 1
Inland Flooding	2 of 2	44.5	50.7	56.8	Relatively Moderate 1, Relatively Low 1
Landslide	2 of 2	99.3	99.3	99.4	Relatively High 1, Relatively Moderate 1
Lightning	2 of 2	95.8	97.6	99.4	Very High 2

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	2 of 2	43.7	52.6	61.4	Relatively Moderate 1, Relatively Low 1
Tornado	2 of 2	2.5	3.3	4.0	Very Low 2
Volcanic Activity	2 of 2	67.9	72.6	77.2	Very Low 2
Wildfire	2 of 2	97.5	97.7	97.9	Relatively High 2
Winter Weather	2 of 2	99.6	99.8	100.0	Very High 2

Cold Wave: Agriculture is 67% of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

Drought: Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

Rated tracts only: No Rating (score 0.0), Not Applicable and Insufficient Data tracts are counted but not used for the minimum, median and maximum.

The score ranks a tract against all U.S. tracts (100 = highest). The rating is FEMA's category for the tract's risk value, computed differently, so the two can disagree.

Frequency data for cold wave, drought, hail, heat wave, ice storm, lightning, strong wind and winter weather are county-wide or coarse (49 km grid or NWS zone), the same for every jurisdiction; the tract range mostly reflects where buildings and people are (crop and livestock value where a line above names agriculture).

This county has 2 census tracts; the minimum, median and maximum come from those 2.

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>
Beaver County	County	Approved, expires 2027-07-12	FMA RL 0, SRL 0; any 0	\$481,483.02	0 total; 0 since its plan
Beaver city	City	Approved, expires 2027-07-12	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	9 total; 2 since its plan
Milford city	City	Approved, expires 2027-07-12	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	13 total; 1 since its plan
Minersville town	Town	Approved, expires 2027-07-12	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	3 total; 0 since its plan

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-07-13 <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	\$46,402	n/a	10	under \$1	n/a	\$1,004,667	0.000478%				
Cold Wave	\$1,501,539,525	\$327,503,556	6,766	\$47	\$10,146	\$4,906	under 0.0001%				
Drought	n/a	\$19,038,999	n/a	n/a	\$210,231	n/a	1.1% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$3,013,059,656	n/a	7,072	\$754,107	n/a	\$307,771	0.025%				
Hail	\$1,598,691,676	\$332,204,012	7,072	\$1,804	\$28	\$21	0.000113%				
Heat Wave	\$1,510,941,180	\$329,516,168	6,805	\$1	\$18,402	\$128,985	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$1,598,691,676	n/a	7,072	\$13	n/a	\$4,262	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-07-13 <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
Inland Flooding	\$1,598,611,362	\$4,614	3	\$1,060,047	\$5	\$27	n/a (see note)				NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$29,344,874	n/a	49	\$85,340	n/a	\$119	0.291%				
Lightning	\$1,598,691,676	n/a	7,072	\$425	n/a	\$195,714	under 0.0001%				
Strong Wind	\$1,598,691,676	\$332,204,012	7,072	\$3,921	\$6,155	\$23,410	0.000245%	\$0	\$0		
Tornado	\$1,598,691,676	\$332,204,012	7,072	\$153	\$170	\$1,742	under 0.0001%				
Volcanic Activity	\$1,598,691,676	n/a	7,072	under \$1	n/a	\$3	under 0.0001%				
Wildfire	\$441,254,082	\$147,472,082	2,223	\$658,166	\$1,949	\$23,689	0.149%		\$35,000,000	no Public Assistance recorded (1 declaration)	
Winter Weather	\$1,598,691,676	\$332,204,012	7,072	\$37,556	\$272	\$236,319	0.00235%		\$2,105,000		

Totals since 2022-07-13 (Storm Events through 2026-06-30): 15 county-coded records, 15 with a damage value recorded (including \$0), \$0; 50 zone-level records, 49 with a damage value recorded (including \$0), \$37,105,000 reported for the zone; Public Assistance: none recorded on the 1 counted declaration.

FEMA does not split Public Assistance by hazard. A declaration mapped to several hazards is listed under each of them with its full amount, so the per-hazard column does not add up to the total; the unit total counts each declaration once.

NRI computes earthquake exposure on its own basis, so it exceeds the county building value in B2-a.

Supports FEMA checklist item B2-a: vulnerability (county context)

County context

Source: 5

Measure	Value
Population	7,072
Building value (total, not at risk)	\$1,598,691,676
Agriculture value (total, not at risk)	\$332,204,012
NRI risk rating (all hazards)	Very Low
Expected annual loss, buildings and agriculture, all hazards	\$2,848,936
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)	\$1,931,634
Social vulnerability rating	Relatively Moderate
Community resilience rating	Relatively Moderate
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	0	Severe repetitive loss, NFIP insurance definition	0

The state NFIP coordinator's list, the source FEMA's Handbook names, often uses the NFIP insurance definition (second row).

Repeat-flood properties: county total and NFIP communities

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	0	0	0	0	0	0	0

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

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Beaver County	490001	0	0	0	0	0	0	0
Beaver city	490002	0	0	0	0	0	0	0
Milford city	490003	0	0	0	0	0	0	0
Minersville town	490239	0	0	0	0	0	0	0

Counts by occupancy group for each jurisdiction are in the Excel file, sheet "B2-c Jurisdictions".

Jurisdiction rows are whole NFIP communities and need not add up to the county total: a community that extends into another county is counted in full on each jurisdiction row, while the county table counts only its part in this county.

County repeat-flood properties by occupancy group: 0 in every occupancy group.

Sources: 1, 4

FMA RL and FMA SRL are the Flood Mitigation Assistance definitions (44 CFR 77.2), the ones the FEMA Local Mitigation Planning Policy Guide cites. NFIP repetitive loss (the FEMA insurance definition) is 2 or more claims over \$1,000 in 10 years, and a property can leave that group once it is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured. The Methods page gives the OpenFEMA field details.

Counts are aggregates of FEMA's public NFIP Multiple Loss Properties file (FEMA's data date 2026-08-02; file version 2026-08-04). No property is identified. County assignment is FEMA's geocode.

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 0 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

Tables cite these sources by number. The full list, for the plan's bibliography (FEMA review item A4-a):

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2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)

What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment, organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B. Each section heading names the item its tables support; the plan and FEMA's review decide whether the item is met.

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

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

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

Hazard Plain release 2026-10. As of 2026-09-30; Storm Events data through 2026-06-30. Automated baseline.