

Beaver County, OK

Risk-assessment baseline packet

County FIPS: 40007 Release: 2026-10 Data as of: 2026-09-30 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.

Summary

Plan status as of 2026-09-30: Approved, expires 2027-03-06. Plan: Beaver County (FEMA plan 106586), approved 2022-03-07.

Since the plan was approved on 2022-03-07: 3 new hazard declarations (3 incidents) and 144 NOAA Storm Events records; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Drought (\$6,433,002 a year), Ice Storm (\$1,200,771) and Cold Wave (\$988,281).

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; 40007 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 2027-03-06	Plan:	Beaver County (FEMA plan 106586)
Approved:	2022-03-07	Days to expiry:	157
Update underway:	none recorded in FEMA's plan tracker		

What changed since your last plan (approved 2022-03-07)

New federal declarations:	3 new hazard declarations (3 incidents): DR-4721-OK (Severe Storms, Straight-Line Winds, and Tornadoes), FM-5616-OK (Stevens Fire), FM-5617-OK (Ranger Road Fire)	Storm Events records since approval:	144 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>	Update underway	Notes
Beaver County	County	Approved, expires 2027-03-06	Beaver County (FEMA plan 106586)	2022-03-07	2027-03-06	157		
Beaver town	Town	Approved, expires 2027-03-06	Beaver County (FEMA plan 106586)	2022-03-07	2027-03-06	157		
Gate town	Town	Approved, expires 2027-03-06	Beaver County (FEMA plan 106586)	2022-03-07	2027-03-06	157		
Knowles town	Town	Approved, expires 2027-03-06	Beaver County (FEMA plan 106586)	2022-03-07	2027-03-06	157		
Balko Public Schools	School/School District	Approved, expires 2027-03-06	Beaver County (FEMA plan 106586)	2022-03-07	2027-03-06	157		
Beaver Public Schools	School/School District	Approved, expires 2027-03-06	Beaver County (FEMA plan 106586)	2022-03-07	2027-03-06	157		
Forgan Public Schools	School/School District	Approved, expires 2027-03-06	Beaver County (FEMA plan 106586)	2022-03-07	2027-03-06	157		
Shattuck Public Schools	School/School District	Plan 110083 approved 2024-10-30, pending adoption here; not yet eligible	Ellis County (FEMA plan 110083), pending adoption here	2024-10-30 by FEMA; not yet adopted here	2029-10-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Turpin Public Schools	School/School District	Approved, expires 2027-03-06	Beaver County (FEMA plan 106586)	2022-03-07	2027-03-06	157		

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

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Drought	Relatively High	Relatively High	n/a	\$6,433,002	n/a	\$6,433,002	68	
2	Ice Storm	Relatively High	Relatively High	\$1,195,406	n/a	\$5,365	\$1,200,771	6	
3	Cold Wave	Relatively Low	Relatively Moderate	\$2,664	\$484,341	\$501,276	\$988,281	26	Includes 3 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
4	Inland Flooding	Very Low	Very Low	\$770,662	\$0	\$2,545	\$773,207	30	
5	Strong Wind	Relatively Moderate	Relatively Moderate	\$692,868	\$985	\$77,462	\$771,315	359	Includes 60 High Wind and 1 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
6	Wildfire	Relatively Low	Relatively Low	\$663,452	\$9,625	\$78,780	\$751,856	23	
7	Tornado	Relatively Low	Relatively Low	\$203,462	\$5,276	\$476,498	\$685,236	41	
8	Hail	Relatively Low	Relatively Low	\$153,437	\$85,559	\$15,192	\$254,187	491	
9	Winter Weather	Relatively Low	Relatively Moderate	\$23,394	\$1,573	\$49,577	\$74,545	74	
10	Lightning	Very Low	Very Low	\$1,924	n/a	\$55,676	\$57,600	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
11	Earthquake	Very Low	Very Low	\$18,768	n/a	\$7,257	\$26,025		Storm Events does not record earthquakes.
12	Heat Wave	Very Low	Very Low	\$89	\$105	\$19,738	\$19,932	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
13	Hurricane	Very Low	Very Low	\$1,187	\$5,190	\$2	\$6,379	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$5	n/a	\$2	\$7	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

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

Local data needed: state and local lightning and landslide records (Storm Events records these hazards only in part).

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

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

Supports FEMA checklist item B1-b: hazard location

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

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

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

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 9516 (Very Low, 31.7); tract 9518 (Very Low, 26.5); tract 9517 (Very Low, 24.5)
Hurricane	tract 9516 (Very Low, 45.9); tract 9517 (Very Low, 43.2); tract 9518 (Very Low, 27.5)
Landslide	tract 9517 (Very Low, 56.2); tract 9516 (Very Low, 51.8); tract 9518 (Very Low, 15.3)
Tornado	tract 9516 (Relatively High, 89.4); tract 9517 (Relatively High, 77.6); tract 9518 (Relatively Moderate, 73.7)
Wildfire	tract 9517 (Relatively High, 98.3); tract 9516 (Relatively High, 96.6); tract 9518 (Relatively Moderate, 95.2)

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 9516 is Census Tract 9516). 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
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	23 records, 2007 to 2021 (23 zone-level)	1 day to 3 days (median 2 days); 13 with a recorded value	3 consecutive days, 2014-12-29 to 2014-12-31, zone-level		Countywide (zone-level records).	Cold/Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	3 records, 2017 to 2018 (3 zone-level)		No crop damage reported in 3 records.		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	68 records, 1996 to 2026 (68 zone-level)	31 days to 853 days (median 74 days); 10 with a recorded value	853 days (28 months), 2012-10-01 to 2015-01-31, a run of 28 consecutive Storm Events drought records, zone-level	Drought, 2013-01-01, \$0 property; \$30,000,000 crops (zone total, 2013 dollars)	Countywide (zone-level records).	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)	594 records, 1955 to 2026	0.75 in to 4.5 in (median 1 in); 594 with a recorded value	4.5 in hail, 2011-06-11; same size also recorded on 1985-05-27, 2011-06-11	Hail, 1994-06-10, \$500,000 property; crops not recorded (1994 dollars)	Event records naming jurisdictions in the plan: Beaver town (96 records), Knowles town (28 records), Gate town (27 records).	
Excessive Heat, Heat	heat index (in event narratives)	0					
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)	6 records, 1998 to 2020 (6 zone-level)		Ice Storm, 2017-01-14, \$40,000,000 property; \$0 crops (2017 dollars); NWS zone OKZ003		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	30 records, 2000 to 2026		Flash Flood, 2013-08-07, \$30,000 property; \$0 crops (2013 dollars)		Event records naming jurisdictions in the plan: Beaver town (14 records), Knowles town (3 records), Gate town (1 record).	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)	0					

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)	0					Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	61 records, 1996 to 2026 (61 zone-level)	35 kt (40 mph) to 71 kt (82 mph) (median 52 kt (60 mph)); 61 with a recorded value	71 kt (82 mph), measurement type not recorded, High Wind, 1996-04-13; NWS zone OKZ003	High Wind, 2008-04-15, \$19,000 property; \$0 crops (zone total, 2008 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	327 records, 1963 to 2026	48 kt (55 mph) to 109 kt (125 mph) (median 56 kt (64 mph)); 315 with a recorded value	109 kt (125 mph) estimated gust, Thunderstorm Wind, 2011-08-09	Thunderstorm Wind, 1999-09-12, \$8,000,000 property; crops not reported (1999 dollars)	Event records naming jurisdictions in the plan: Beaver town (111 records), Gate town (6 records), Knowles town (5 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	77 records, 1950 to 2026	F/EF0 to F/EF4 (median F/EF0); 71 with a recorded value	F4 tornado, 1982-03-19, 29 mi path length (whole path, pre-1996), 50 yd wide, \$250,000 property; crops not recorded (1982 dollars), 7 direct injuries	Tornado, 2001-04-10, \$450,000 property; crops not reported (2001 dollars)	Event records naming jurisdictions in the plan: Beaver town (4 records), Gate town (1 record), Knowles town (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Wildfire	acres burned (local data)	23 records, 2006 to 2026 (23 zone-level)		Wildfire, 2024-02-27, \$20,000,000 property; \$0 crops (2024 dollars); NWS zone OKZ003		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	74 records, 1996 to 2026 (74 zone-level)		Blizzard, 2013-02-24, \$720,000 property; \$0 crops (2013 dollars); NWS zone OKZ003		Countywide (zone-level records).	

In event narratives only (local data needed): wind chill, temperature, heat index, ice thickness, acres burned and snow depth; any physical measure of debris flow and lightning.

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

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 28 declarations covering 22 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
2026-02-17	2026-02-17	FM-5617-OK	Fire management	Ranger Road Fire	Wildfire	no Public Assistance recorded	new since last plan; within last 5 years	
2026-02-17	2026-02-17	FM-5616-OK	Fire management	Stevens Fire	Wildfire	no Public Assistance recorded	new since last plan; within last 5 years	
2023-07-19	2023-06-14	DR-4721-OK	Major disaster	Severe Storms, Straight-Line Winds, and Tornadoes	Strong Wind; Tornado	\$52,406.18	new since last plan; within last 5 years	
2021-02-24	2021-02-08	DR-4587-OK	Major disaster	Severe Winter Storms	Ice Storm	no Public Assistance recorded		
2021-02-17	2021-02-08	EM-3555-OK	Emergency	Severe Winter Storm	Ice Storm	no Public Assistance recorded		same incident as DR-4587
2020-04-05	2020-01-20	DR-4530-OK	Major disaster	COVID-19 Pandemic	Non-natural, not counted	no Public Assistance recorded		
2020-03-13	2020-01-20	EM-3462-OK	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4530
2020-03-07	2020-03-07	FM-5306-OK	Fire management	412 Fire Complex	Wildfire	no Public Assistance recorded		
2019-06-01	2019-05-07	DR-4438-OK	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, and Flooding	Inland Flooding; Strong Wind; Tornado	\$149,122.18		
2017-05-26	2017-04-28	DR-4315-OK	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	no Public Assistance recorded		
2017-03-07	2017-03-06	FM-5177-OK	Fire management	NW Oklahoma Wildfire Outbreak Complex	Wildfire	no Public Assistance recorded		
2017-02-10	2017-01-13	DR-4299-OK	Major disaster	Severe Winter Storm	Winter Weather	\$726,496.60		
2013-04-08	2013-02-24	DR-4109-OK	Major disaster	Severe Winter Storm and Snowstorm	Winter Weather	\$281,024.97		
2011-02-02	2011-01-31	EM-3316-OK	Emergency	Severe Winter Storm	Winter Weather	no Public Assistance recorded		
2010-07-26	2010-06-13	DR-1926-OK	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	no Public Assistance recorded		
2010-03-05	2010-01-28	DR-1883-OK	Major disaster	Severe Winter Storm	Ice Storm	\$54,293.63		
2010-01-30	2010-01-28	EM-3308-OK	Emergency	Severe Winter Storm	Winter Weather	no Public Assistance recorded		same incident as DR-1883
2009-06-23	2009-03-27	EM-3305-OK	Emergency	Record Snow and Near Record Snow	Winter Weather	\$92,805.96		
2008-07-09	2008-06-03	DR-1775-OK	Major disaster	Severe Storms and Flooding	Inland Flooding	\$55,819.40		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2007-12-18	2007-12-08	DR-1735-OK	Major disaster	Severe Winter Storms	Ice Storm	\$54,278.25		
2007-12-10	2007-12-08	EM-3280-OK	Emergency	Severe Winter Storms	Ice Storm	no Public Assistance recorded		same incident as DR-1735
2007-02-01	2006-12-28	DR-1677-OK	Major disaster	Severe Winter Storm	Winter Weather	no Public Assistance recorded		
2007-01-14	2007-01-12	EM-3272-OK	Emergency	Severe Winter Storms and Flooding	Ice Storm	no Public Assistance recorded		
2006-01-10	2005-11-27	DR-1623-OK	Major disaster	Extreme Wildfire Threat	Wildfire	\$7,264.24		
2005-09-05	2005-08-29	EM-3219-OK	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2003-05-10	2003-05-08	DR-1465-OK	Major disaster	Severe Storms and Tornadoes	Tornado	no Public Assistance recorded		
2002-02-01	2002-01-30	DR-1401-OK	Major disaster	Severe Winter Ice Storm	Ice Storm	no Public Assistance recorded		
2001-06-29	2001-05-27	DR-1384-OK	Major disaster	Severe Storms, Flooding, and Tornadoes	Inland Flooding; Tornado	\$5,116.49		

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

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
1995-04-19	1995-04-19	EM-3115-OK	Emergency	Explosion at Federal Courthouse in Oklahoma City	Non-natural, not counted
1960-07-15	1960-07-15	DR-104-OK	Major disaster	Heavy Rains, Hail, Floods & Tornadoes	Hail; Inland Flooding; Tornado
1959-11-09	1959-11-09	DR-95-OK	Major disaster	Heavy Rains & Floods	Inland Flooding
1959-07-08	1959-07-08	DR-92-OK	Major disaster	Flood	Inland Flooding
1957-05-18	1957-05-18	DR-74-OK	Major disaster	Flood	Inland Flooding
1956-04-07	1956-04-07	DR-54-OK	Major disaster	Tornadoes	Tornado
1955-06-01	1955-06-01	DR-35-OK	Major disaster	Flood & Tornado	Inland Flooding (primary); also designated: Tornado

FEMA recorded these with designated area Statewide and no county, so they are listed on every county page in the state and not counted with county rows. Local data needed: whether each one affected this county.

13 Fire Management declarations (1971-04-08 to 2012-07-30) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Cold Wave	26	0	0	0	0	0	1996 to 2026-06-30	Includes 3 Frost/Freeze records.
Drought	68	21	7	27	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	594	37	6	37	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
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	6	0	0	0	5	0	1996 to 2026-06-30	
Inland Flooding	30	6	0	6	5	0	1996 to 2026-06-30	
Landslide	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Strong Wind	388	55	11	58	3	1	1955 to 2026-06-30	Includes 60 High Wind and 1 Strong Wind records.
Tornado	77	7	0	7	6	1	1950 to 2026-06-30	
Wildfire	23	10	1	11	5	2	1996 to 2026-06-30	
Winter Weather	74	8	2	9	6	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
2024-02-27	Wildfire		\$20,000,000 property; \$0 crops (zone total, 2024 dollars)	0, 0	NWS zone OKZ003 (BEAVER), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Wildfire
2017-01-14	Ice Storm		\$40,000,000 property; \$0 crops (zone total, 2017 dollars)	0, 0	NWS zone OKZ003 (BEAVER), zone-level		B1-c worst recorded: Ice Storm
2014-12-29	Cold/Wind Chill		\$0 property; \$0 crops (zone total, 2014 dollars)	0, 0	NWS zone OKZ003 (BEAVER), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2013-08-07	Flash Flood		\$30,000 property; \$0 crops (2013 dollars)	0, 0	BEAVER		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2013-02-24	Blizzard		\$720,000 property; \$0 crops (zone total, 2013 dollars)	0, 0	NWS zone OKZ003 (BEAVER), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2012-10-01	Drought		\$0 property; \$4,000,000 crops (zone total, 2012 dollars)	0, 0	NWS zone OKZ003 (BEAVER), zone-level		B1-c worst recorded: Drought
2011-08-09	Thunderstorm Wind	109 kt (125 mph) estimated gust	\$1,500,000 property; \$0 crops (2011 dollars)	0, 0	FORGAN		B1-c worst recorded: Thunderstorm Wind
2011-06-11	Hail	4.5 in	\$0 property; \$0 crops (2011 dollars)	0, 0	LOGAN		B1-c worst recorded: Hail
2007-03-28	Tornado	EF2, 16 mi within this county, 150 yd wide	\$102,000 property; crops not reported (2007 dollars)	2, 0	ELMWOOD		deaths or injuries recorded
1997-12-23	Heavy Snow		damage not reported	1, 0	NWS zone OKZ003 (BEAVER), zone-level		deaths or injuries recorded
1996-04-13	High Wind	71 kt (82 mph), measurement type not recorded	damage not reported	0, 0	NWS zone OKZ003 (BEAVER), zone-level		B1-c worst recorded: High Wind and Strong Wind
1982-03-19	Tornado	F4, 29 mi path length (whole path, pre-1996), 50 yd wide	\$250,000 property; crops not recorded (1982 dollars)	0, 7	location not recorded		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,286 rows).

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

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

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

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

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Cold Wave	3.11	event-days per year	about 3.11 days per year	Likely	Storm Events event- days in 6 of 30 years, 1996 to 2025 (20%)	59	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	110	event-days per year	about 110 days per year	Likely	Storm Events event- days in 12 of 30 years, 1996 to 2025 (40%)	3,080	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000803	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0803%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	8.42	events per year	about 8.42 per year	Highly likely	FEMA annualized frequency (modeled)	320.1 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	1.37	event-days per year	about 1.37 days per year		Storm Events event- days in 0 of 30 years, 1996 to 2025 (0%)	17	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events heat wave record, 1996 to 2025
Hurricane	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	0.331	event-days per year	about 0.331 days per year	Likely	Storm Events event- days in 6 of 30 years, 1996 to 2025 (20%)	23	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.643	event-days per year	about 0.643 days per year	Likely	Storm Events event- days in 13 of 30 years, 1996 to 2025 (43.3%)	18	1996 to 2023 (28 years)	see B1-f	
Landslide	0.295	events per year (modeled)	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	45.4	days per year with a strike	about 45.4 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	3.64	events per year	about 3.64 per year	Highly likely	FEMA annualized frequency (modeled)	139	1986 to 2023 (38 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
Tornado	1.43	events per year	about 1.43 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.00974	annual probability at a location	chance a given location in the county burns in a year: 0.974%	Likely	Storm Events records in 10 of 30 years, 1996 to 2025 (33.3%)	not shown	modeled	see B1-f	
Winter Weather	10.5	event-days per year	about 10.5 days per year	Highly likely	Storm Events event-days in 27 of 30 years, 1996 to 2025 (90%)	200	2005-11-12 to 2024-11-12 (19 years)	countywide	

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

Where NRI gives event-days, the descriptor comes from the share of years with a Storm Events record; NRI's source records more events, so the two differ.

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	304	30	10.1
Hail	2.00 in+	1996 to 2025	52	30	1.73
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	253	30	8.43
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	40	30	1.33
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	1	30	0.0333
Tornado	EF0-1	1996 to 2025	30	30	1
Tornado	EF2-3	1996 to 2025	5	30	0.167
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	3	30	0.1

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	
Cold Wave	3 of 3	76.5	92.7	96.9	Very High 1, Relatively High 1, Relatively Moderate 1
Drought	3 of 3	84.5	99.9	99.9	Very High 2, Relatively Low 1
Earthquake	3 of 3	24.5	26.5	31.7	Very Low 3
Hail	3 of 3	82.9	90.5	94.1	Relatively High 2, Relatively Moderate 1
Heat Wave	3 of 3	6.8	7.1	15.2	Very Low 3
Hurricane	3 of 3	27.5	43.2	45.9	Very Low 3
Ice Storm	3 of 3	99.7	99.9	99.9	Very High 3
Inland Flooding	3 of 3	5.6	26.1	29.5	Relatively Low 2, Very Low 1
Landslide	3 of 3	15.3	51.8	56.2	Very Low 3
Lightning	3 of 3	61.2	62.7	81.9	Relatively High 1, Relatively Moderate 2
Strong Wind	3 of 3	97.9	98.4	99.3	Very High 3

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	3 of 3	73.7	77.6	89.4	Relatively High 2, Relatively Moderate 1
Wildfire	3 of 3	95.2	96.6	98.3	Relatively High 2, Relatively Moderate 1
Winter Weather	3 of 3	93.4	94.0	97.5	Very High 1, Relatively High 2

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 3 census tracts; the minimum, median and maximum come from those 3.

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Beaver County	County	Approved, expires 2027-03-06		\$1,312,564.08	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Beaver town	Town	Approved, expires 2027-03-06	FMA RL 0, SRL 0; any 0	\$115,995.44	225 total; 33 since its plan	
Gate town	Town	Approved, expires 2027-03-06		\$1,520.24	35 total; 3 since its plan	No NFIP community ID on this jurisdiction's plan row.
Knowles town	Town	Approved, expires 2027-03-06		no Public Assistance recorded	37 total; 4 since its plan	No NFIP community ID on this jurisdiction's plan row.

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

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

County Public Assistance in B1-d also includes applicants filed under the county that are not jurisdictions in this plan (for example state agencies, special districts and nonprofits), so the jurisdiction rows add up to less.

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

Local data needed

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

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

- Future assets

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-03-07 <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
Cold Wave	\$1,225,034,064	\$200,401,779	5,045	\$2,664	\$484,341	\$501,276	0.000217%				
Drought	n/a	\$14,926,556	n/a	n/a	\$6,433,002	n/a	43.1% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$2,055,719,550	n/a	5,049	\$18,768	n/a	\$7,257	0.000913%				
Hail	\$1,225,034,064	\$200,401,779	5,045	\$153,437	\$85,559	\$15,192	0.0125%	\$29,000			
Heat Wave	\$1,225,034,064	\$200,401,779	5,045	\$89	\$105	\$19,738	under 0.0001%				
Hurricane	\$1,225,034,064	\$200,401,779	5,045	\$1,187	\$5,190	\$2	under 0.0001%				
Ice Storm	\$1,225,034,064	n/a	5,045	\$1,195,406	n/a	\$5,365	0.0976%				
Inland Flooding	\$1,224,844,562	\$0	59	\$770,662	\$0	\$2,545	n/a (see note)	\$5,000			NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$1,821,990	n/a	6	\$5	n/a	\$2	0.000279%				
Lightning	\$1,225,034,064	n/a	5,045	\$1,924	n/a	\$55,676	0.000157%				
Strong Wind	\$1,225,034,064	\$200,401,779	5,045	\$692,868	\$985	\$77,462	0.0566%	\$263,000	\$0	\$52,406.18	
Tornado	\$1,225,034,064	\$200,401,779	5,045	\$203,462	\$5,276	\$476,498	0.0166%	\$4,000		\$52,406.18	

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 2022-03-07 <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
Wildfire	\$492,840,976	\$122,125,848	2,726	\$663,452	\$9,625	\$78,780	0.135%		\$20,114,300	no Public Assistance recorded (2 declarations)	
Winter Weather	\$1,225,034,064	\$200,401,779	5,045	\$23,394	\$1,573	\$49,577	0.00191%		\$7,000		

Totals since 2022-03-07 (Storm Events through 2026-06-30): 94 county-coded records, 62 with a damage value recorded (including \$0), \$301,000; 50 zone-level records, 27 with a damage value recorded (including \$0), \$20,121,300 reported for the zone; Public Assistance: \$52,406.18 on 3 counted declarations, 1 of them with Public Assistance.

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	5,045
Building value (total, not at risk)	\$1,225,034,064
Agriculture value (total, not at risk)	\$200,401,779
NRI risk rating (all hazards)	Very Low
Expected annual loss, buildings and agriculture, all hazards	\$10,752,974
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)	\$1,289,370
Social vulnerability rating	Relatively Low
Community resilience rating	Very Low
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 town	400009	0	0	0	0	0	0	0

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

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

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

Sources: 1, 4

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

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

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

Exact counts; no count suppression.

Sources

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

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 3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
 4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
 5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
 6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
 7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
 8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_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_scscd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)
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What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment (the summary on page 1 says how it is organized); the plan and FEMA's review decide whether each item is met.

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

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

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