

Benson County, ND

Risk-assessment baseline packet

County FIPS: 38005 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 2028-03-30. Plan: Benson County, ND Hazard Mitigation Plan 2023 (FEMA plan 108963), approved 2023-03-31.

Since the plan was approved on 2023-03-31: no new federal declaration.

NOAA Storm Events records since that date: 39 records (data through 2026-06-30).

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Cold Wave (\$2,559,498 a year), Inland Flooding (\$584,190) and Strong Wind (\$581,053).

Repetitive-loss flood properties now: FMA RL 6, SRL 5 (44 CFR 77.2); any definition: 6.

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; 38005 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 2028-03-30	Plan:	Benson County, ND Hazard Mitigation Plan 2023 (FEMA plan 108963)
Approved:	2023-03-31	Days to expiry:	547
What changed since your last plan (approved 2023-03-31)			
New federal declarations:	none	Storm Events records since approval:	39 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 6, SRL 5 (44 CFR 77.2); any definition: 6	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>	Notes
Benson County	County	Approved, expires 2028-03-30	Benson County, ND Hazard Mitigation Plan 2023 (FEMA plan 108963)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-02-07
Brinsmade city	City	Approved, expires 2028-03-30	Benson County, ND Hazard Mitigation Plan 2023 (FEMA plan 108963)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-01-30
Esmond city	City	Approved, expires 2028-03-30	Benson County, ND Hazard Mitigation Plan 2023 (FEMA plan 108963)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-02-08
Knox city	City	Approved, expires 2028-03-30	Benson County, ND Hazard Mitigation Plan 2023 (FEMA plan 108963)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-02-17
Leeds city	City	Approved, expires 2028-03-30	Benson County, ND Hazard Mitigation Plan 2023 (FEMA plan 108963)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-02-08
Maddock city	City	Approved, expires 2028-03-30	Benson County, ND Hazard Mitigation Plan 2023 (FEMA plan 108963)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-02-14
Minnewaukan city	City	Approved, expires 2028-03-30	Benson County, ND Hazard Mitigation Plan 2023 (FEMA plan 108963)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-02-14
Oberon city	City	Approved, expires 2028-03-30	Benson County, ND Hazard Mitigation Plan 2023 (FEMA plan 108963)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-03-13
York city	City	Approved, expires 2028-03-30	Benson County, ND Hazard Mitigation Plan 2023 (FEMA plan 108963)	2023-03-31	2028-03-30	547	this jurisdiction approved 2023-02-17

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	Cold Wave	Relatively Moderate	Relatively Moderate	\$685	\$1,051,533	\$1,507,279	\$2,559,498	89		Includes 6 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
2	Inland Flooding	Very Low	Very Low	\$572,049	\$10,553	\$1,589	\$584,190	65		
3	Strong Wind	Relatively Moderate	Relatively Moderate	\$478,598	\$62,471	\$39,985	\$581,053	179		Includes 37 High Wind and 2 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
4	Hail	Relatively Low	Relatively Low	\$164,489	\$153,595	\$16,931	\$335,015	258		
5	Ice Storm	Relatively Moderate	Relatively Moderate	\$264,603	n/a	\$31,670	\$296,273	3		
6	Wildfire	Relatively Low	Relatively Low	\$237,459	\$203	\$13,671	\$251,334	0		Declared 1 time; no Storm Events record of this type.
7	Winter Weather	Relatively High	Relatively Moderate	\$69,611	\$276	\$154,903	\$224,790	134		
8	Tornado	Very Low	Very Low	\$135,253	\$2,951	\$18,606	\$156,810	34		
9	Drought	Relatively Low	Very Low	n/a	\$22,148	n/a	\$22,148	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
10	Lightning	Very Low	Very Low	\$1,290	n/a	\$14,556	\$15,846	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
11	Heat Wave	Very Low	Very Low	\$100	\$1	\$14,345	\$14,445	1		
12	Earthquake	Very Low	Very Low	\$1,025	n/a	\$285	\$1,310			Storm Events does not record earthquakes.
13	Landslide	Very Low	Very Low	\$26	n/a	\$688	\$714	0		Declared 1 time; no Storm Events record of this type.
	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-3247-ND 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 wildfire, 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 9567 (Very Low, 6.0); tract 9401 (Very Low, 4.7); tract 9402 (Very Low, 1.8)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 9402 (Relatively Low, 89.3); tract 9401 (Relatively Low, 87.7); tract 9567 (Relatively Low, 86.4)
Tornado	tract 9401 (Relatively Moderate, 56.3); tract 9567 (Relatively Moderate, 55.0); tract 9402 (Relatively Low, 50.3)
Wildfire	tract 9401 (Relatively Moderate, 96.1); tract 9402 (Relatively Moderate, 95.6); tract 9567 (Relatively Moderate, 93.1)

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 9567 is Census Tract 9567). 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	83 records, 1996 to 2026 (83 zone-level)	1 day to 10 days (median 2 days); 68 with a recorded value	10 consecutive days, 2021-02-06 to 2021-02-15, zone-level	Cold/Wind Chill, 2003-03-08, \$5,000 property; crops not reported, reported for the zone (2003 dollars)	Countywide (zone-level records).	Wind chill: in event narratives only (local data needed). 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	6 records, 2008 to 2026 (6 zone-level)		No crop damage reported in 6 records.		Countywide (zone-level records).	Temperature: in event narratives only (local data needed).
Drought	U.S. Drought Monitor scale (D0 to D4)	2 records, 2006 to 2023 (2 zone-level)	22 days to 30 days (median 26 days); 2 with a recorded value	30 days (1 month), 2023-09-01 to 2023-09-30, zone-level		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)	299 records, 1967 to 2026	0.75 in to 4.5 in (median 1 in); 299 with a recorded value	4.5 in hail, 1994-08-06	Hail, 2008-06-23, \$50,000 property; \$1,000,000 crops (2008 dollars)	Event records naming jurisdictions in the plan: Leeds city (31 records), Esmond city (26 records), Maddock city (25 records), Minnewaukan city (21 records), Oberon city (16 records), Knox city (10 records), York city (5 records), Brinsmade city (2 records).	
Excessive Heat, Heat	heat index (in event narratives)	1 record, 2001 (1 zone-level)	2 days; 1 with a recorded value	2 consecutive days, 2001-08-04 to 2001-08-05, zone-level		Countywide (zone-level records).	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.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Ice Storm	Sperry-Piltz ice scale (local data)	3 records, 1997 to 2009 (3 zone-level)		Ice Storm, 1997-04-04, \$6,000,000 property; crops not reported (1997 dollars); NWS zone NDZ014		Countywide (zone-level records).	Ice thickness: in event narratives only (local data needed).
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	65 records, 1997 to 2020 (19 zone-level)		Flood, 1999-09-01, \$25,000,000 property; crops not reported (1999 dollars); NWS zone NDZ014		Event records naming jurisdictions in the plan: Leeds city (18 records), Esmond city (4 records), Minnewaukan city (4 records), Maddock city (2 records), Brinsmade city (1 record), Oberon city (1 record), York city (1 record). Zone-level records (19) 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)	0					Physical measure: in event narratives only (local data needed).
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	0					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)	39 records, 1997 to 2025 (39 zone-level)	35 kt (40 mph) to 66 kt (76 mph) (median 51 kt (59 mph)); 39 with a recorded value	66 kt (76 mph), measurement type not recorded, High Wind, 1999-11-01; NWS zone NDZ014	High Wind, 2005-05-21, \$25,000 property; crops not reported, reported for the zone (2005 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	156 records, 1961 to 2026	47 kt (54 mph) to 103 kt (119 mph) (median 56 kt (64 mph)); 131 with a recorded value	103 kt (119 mph) measured gust, Thunderstorm Wind, 2017-06-09	Thunderstorm Wind, 2005-06-19, \$6,450,000 property; crops not reported (2005 dollars)	Event records naming jurisdictions in the plan: Leeds city (21 records), Maddock city (13 records), Oberon city (11 records), Minnewaukan city (10 records), Esmond city (7 records), Brinsmade city (6 records), York city (4 records), Knox city (3 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	48 records, 1958 to 2020	F/EF0 to F/EF3 (median F/EF0); 46 with a recorded value	F3 tornado, 1958-05-30, 10.7 mi path length (whole path, pre-1996), 33 yd wide, \$25,000 property; crops not recorded (1958 dollars)	Tornado, 2001-08-08, \$300,000 property; crops not reported (2001 dollars)	Event records naming jurisdictions in the plan: Leeds city (5 records), Minnewaukan city (5 records), Maddock city (4 records), Brinsmade city (1 record), Esmond city (1 record), Knox city (1 record), Oberon city (1 record), York city (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Wildfire	acres burned (local data)	0					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)	134 records, 1996 to 2026 (134 zone-level)		Blizzard, 1997-04-05, \$6,000,000 property; crops not reported (1997 dollars); NWS zone NDZ014		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: 31 declarations covering 27 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>	Notes
2020-10-02	2020-06-29	DR-4565-ND	Major disaster	Severe Storms and Flooding	Inland Flooding	\$169,105.44	
2020-04-01	2020-01-20	DR-4509-ND	Major disaster	COVID-19 Pandemic	Non-natural, not counted	no Public Assistance recorded	
2020-03-13	2020-01-20	EM-3477-ND	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded	same incident as DR-4509
2017-07-12	2017-03-23	DR-4323-ND	Major disaster	Flooding	Inland Flooding	\$218,492.18	
2014-08-19	2014-06-25	DR-4190-ND	Major disaster	Severe Storms and Flooding	Inland Flooding	\$348,605.57	
2013-07-12	2013-05-17	DR-4128-ND	Major disaster	Severe Storms and Flooding	Inland Flooding	\$215,420.93	
2013-05-29	2013-04-22	DR-4118-ND	Major disaster	Flooding	Inland Flooding	\$157,135.06	
2011-05-10	2011-02-14	DR-1981-ND	Major disaster	Flooding	Inland Flooding	\$1,983,740.62	
2011-04-07	2011-04-05	EM-3318-ND	Emergency	Flooding	Inland Flooding	no Public Assistance recorded	
2010-04-30	2010-02-26	DR-1907-ND	Major disaster	Flooding	Inland Flooding	\$568,710.73	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	
						<i>federal share obligated, nominal dollars</i>	Notes
2010-04-21	2010-04-01	DR-1901-ND	Major disaster	Severe Winter Storm	Winter Weather	no Public Assistance recorded	
2010-03-14	2010-02-26	EM-3309-ND	Emergency	Flooding	Inland Flooding	\$1,943.43	same incident as DR-1907
2009-03-24	2009-03-13	DR-1829-ND	Major disaster	Severe Storms and Flooding	Inland Flooding	\$2,220,825.31	
2005-11-21	2005-10-04	DR-1616-ND	Major disaster	Severe Winter Storm and Record and/or Near Record Snow	Winter Weather	no Public Assistance recorded	
2005-09-13	2005-08-29	EM-3247-ND	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded	
2005-07-22	2005-06-01	DR-1597-ND	Major disaster	Severe Storms, Flooding, and Ground Saturation	Inland Flooding	\$135,430.07	
2004-05-05	2004-03-26	DR-1515-ND	Major disaster	Severe Storms, Flooding, and Ground Saturation	Inland Flooding	\$1,058,591.24	
2001-05-28	2001-03-01	DR-1376-ND	Major disaster	Severe Storms, Flooding, & Ground Saturation	Inland Flooding	\$1,072,076.56	
2000-12-29	2000-11-01	DR-1353-ND	Major disaster	Severe Winter Storms and Tornadoes	Tornado (primary); also designated: Winter Weather	no Public Assistance recorded	
2000-06-27	2000-04-05	DR-1334-ND	Major disaster	Severe Storms, Flooding and Ground Saturation	Inland Flooding	\$298,667.31	
1999-06-08	1999-03-01	DR-1279-ND	Major disaster	Severe Storms, Flooding, Snow, Ice, Ground Saturation, Landslides, Mudslides, and Tor	Inland Flooding (primary); also designated: Landslide, Tornado	\$3,948,103.27	
1998-06-15	1998-03-02	DR-1220-ND	Major disaster	Flooding, Ground Saturation, Severe Storms	Inland Flooding	no Public Assistance recorded	
1997-04-07	1997-02-28	DR-1174-ND	Major disaster	Severe Flooding, Severe Winter Storms, Snowmelt, Spring Rains	Inland Flooding (primary); also designated: Wildfire, Winter Weather	no Public Assistance recorded	
1997-01-12	1997-01-03	DR-1157-ND	Major disaster	Severe Winter Storms and Blizzard Conditions	Winter Weather	no Public Assistance recorded	
1996-06-05	1996-03-12	DR-1118-ND	Major disaster	Severe Storms, Flooding, & Ice Jams	Inland Flooding	no Public Assistance recorded	
1995-05-16	1995-03-01	DR-1050-ND	Major disaster	Severe Storms, Flooding, and Ground Saturation	Inland Flooding	no Public Assistance recorded	
1994-07-01	1994-03-05	DR-1032-ND	Major disaster	Severe Storms, Flooding	Inland Flooding	no Public Assistance recorded	
1993-07-26	1993-06-22	DR-1001-ND	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded	
1979-04-26	1979-04-26	DR-581-ND	Major disaster	Severe Storms, Snowmelt & Flooding	Inland Flooding	no Public Assistance recorded	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	
						<i>federal share obligated, nominal dollars</i>	Notes
1974-05-14	1974-05-14	DR-434-ND	Major disaster	Heavy Rains, Snowmelt & Flooding	Inland Flooding	no Public Assistance recorded	
1969-04-18	1969-04-18	DR-256-ND	Major disaster	Flooding	Inland Flooding	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.

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
1957-06-22	1957-06-22	DR-79-ND	Major disaster	Tornado	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.

Public Assistance not placed in any North Dakota county: 1 row, \$23,693.61; listed on the North Dakota state page.

Source: 3

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	89	10	4	24	0	0	1996 to 2026-06-30	Includes 6 Frost/Freeze records.
Drought	2	1	0	1	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	299	12	3	15	0	0	1955 to 2026-06-30	
Heat Wave	1	0	0	0	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	3	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	65	0	0	0	23	0	1996 to 2026-06-30	
Landslide	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)

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
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	195	13	20	34	0	0	1955 to 2026-06-30	Includes 37 High Wind and 2 Strong Wind records.
Tornado	48	0	0	0	2	0	1950 to 2026-06-30	
Wildfire	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)
Winter Weather	134	3	5	15	5	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
2023-09-01	Drought		damage not reported	0, 0	NWS zone NDZ014 (BENSON), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Drought
2021-02-06	Extreme Cold/ Wind Chill		\$0 property; \$0 crops, reported for the zone (2021 dollars)	0, 0	NWS zone NDZ014 (BENSON), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2017-06-09	Thunderstorm Wind	103 kt (119 mph) measured gust	damage not reported	0, 0	HARLOW		B1-c worst recorded: Thunderstorm Wind
2005-05-21	High Wind	54 kt (62 mph) measured gust	\$25,000 property; crops not reported, reported for the zone (2005 dollars)	0, 0	NWS zone NDZ014 (BENSON), zone-level		B1-c most damaging: High Wind and Strong Wind
2003-03-08	Cold/Wind Chill		\$5,000 property; crops not reported, reported for the zone (2003 dollars)	0, 0	NWS zone NDZ014 (BENSON), zone-level		B1-c most damaging: Cold/Wind Chill, Extreme Cold/Wind Chill
2001-08-04	Heat		damage not reported	0, 0	NWS zone NDZ014 (BENSON), zone-level		B1-c worst recorded: Excessive Heat, Heat
1999-11-01	High Wind	66 kt (76 mph), measurement type not recorded	damage not reported	0, 0	NWS zone NDZ014 (BENSON), zone-level		B1-c worst recorded: High Wind and Strong Wind
1999-09-01	Flood		\$25,000,000 property; crops not reported, reported for the zone (1999 dollars)	0, 0	NWS zone NDZ014 (BENSON), zone-level		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1997-04-05	Blizzard		\$6,000,000 property; crops not reported, reported for the zone (1997 dollars)	0, 0	NWS zone NDZ014 (BENSON), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
1997-04-04	Ice Storm		\$6,000,000 property; crops not reported, reported for the zone (1997 dollars)	0, 0	NWS zone NDZ014 (BENSON), zone-level		B1-c worst recorded: Ice Storm
1994-08-06	Hail	4.5 in	damage not recorded (pre-1996 record)	0, 0	Ft. Totten		B1-c worst recorded: Hail
1958-05-30	Tornado	F3, 10.7 mi path length (whole path, pre-1996), 33 yd wide	\$25,000 property; crops not recorded (1958 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" (836 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	23	event-days per year	about 23 days per year	Likely (from Storm Events: 24 of 30 years)	event-days in 24 of 30 years, 1996 to 2025 (80%)	437	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	13.3	event-days per year	about 13.3 days per year	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	413	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000086	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0086%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	2.62	events per year	about 2.62 per year	Highly likely	FEMA annualized frequency (modeled)	100.2 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	0.842	event-days per year	about 0.842 days per year	Possible (from Storm Events: 1 of 30 years)	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	16	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane		events per year					1851 to 2024 (Atlantic)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Ice Storm	0.589	event-days per year	about 0.589 days per year	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	40	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	2.18	event-days per year	about 2.18 days per year	Likely (from Storm Events: 17 of 30 years)	event-days in 17 of 30 years, 1996 to 2025 (56.7%)	61	1996 to 2023 (28 years)	see B1-f	
Landslide	0.176	events per year (modeled)	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	26.6	days per year with a strike	about 26.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	1.24	events per year	about 1.24 per year	Highly likely	FEMA annualized frequency (modeled)	48	1986 to 2023 (38 years)	countywide	
Tornado	0.616	events per year	about 0.62 per year	Likely	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
Wildfire	0.00138	annual probability at a location	chance a given location in the county burns in a year: 0.138%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Winter Weather	20.7	event-days per year	about 20.7 days per year	Highly likely (from Storm Events: 29 of 30 years)	event-days in 29 of 30 years, 1996 to 2025 (96.7%)	394	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 tsunامي 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	127	30	4.23
Hail	2.00 in+	1996 to 2025	9	30	0.3
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	86	30	2.87
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	32	30	1.07
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	17	30	0.567
Tornado	EF0-1	1996 to 2025	30	30	1
Tornado	EF2-3	1996 to 2025	4	30	0.133
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	
Cold Wave	3 of 3	98.1	99.2	99.7	Very High 3
Drought	3 of 3	81.8	85.3	91.4	Relatively Low 3
Earthquake	3 of 3	1.8	4.7	6.0	Very Low 3
Hail	3 of 3	89.7	93.5	97.5	Relatively High 3
Heat Wave	3 of 3	7.7	8.6	10.3	Very Low 3
Hurricane	0 of 3				Not Applicable 3
Ice Storm	3 of 3	97.2	98.4	99.0	Very High 2, Relatively High 1
Inland Flooding	3 of 3	11.3	12.0	30.5	Relatively Low 1, Very Low 2
Landslide	3 of 3	86.4	87.7	89.3	Relatively Low 3
Lightning	3 of 3	35.3	39.2	42.2	Relatively Low 3
Strong Wind	3 of 3	97.3	98.6	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	50.3	55.0	56.3	Relatively Moderate 2, Relatively Low 1
Wildfire	3 of 3	93.1	95.6	96.1	Relatively Moderate 3
Winter Weather	3 of 3	99.5	99.8	99.8	Very High 3

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

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

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

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

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	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>
Benson County	County	Approved, expires 2028-03-30	FMA RL 5, SRL 4; any 5	\$9,487,491.94	0 total; 0 since its plan
Brinsmade city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 0	\$1,209.75	10 total; 0 since its plan
Esmond city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	38 total; 1 since its plan
Knox city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 0	\$2,447.25	14 total; 0 since its plan
Leeds city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 0	\$83,660.64	75 total; 4 since its plan
Maddock city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 0	\$18,208.85	44 total; 0 since its plan
Minnewaukan city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	40 total; 1 since its plan
Oberon city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 0	\$33,408.90	29 total; 2 since its plan
York city	City	Approved, expires 2028-03-30	FMA RL 0, SRL 0; any 0	\$30,477.57	11 total; 1 since its plan

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

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

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

Local data needed

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

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

- Future assets

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2023-03-31 <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	\$1,529,118,430	\$211,525,848	5,945	\$685	\$1,051,533	\$1,507,279	under 0.0001%		\$0		
Drought	n/a	\$105,767,538	n/a	n/a	\$22,148	n/a	0.0209% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$2,534,703,919	n/a	5,964	\$1,025	n/a	\$285	under 0.0001%				
Hail	\$1,529,118,430	\$211,525,848	5,945	\$164,489	\$153,595	\$16,931	0.0108%	\$0			
Heat Wave	\$1,529,118,430	\$211,525,848	5,945	\$100	\$1	\$14,345	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$1,529,118,430	n/a	5,945	\$264,603	n/a	\$31,670	0.0173%				
Inland Flooding	\$1,525,495,037	\$302,975	61	\$572,049	\$10,553	\$1,589	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	\$9,409,150	n/a	47	\$26	n/a	\$688	0.000278%				
Lightning	\$1,529,118,430	n/a	5,945	\$1,290	n/a	\$14,556	under 0.0001%				
Strong Wind	\$1,529,118,430	\$211,525,848	5,945	\$478,598	\$62,471	\$39,985	0.0313%		\$0		
Tornado	\$1,529,118,430	\$211,525,848	5,945	\$135,253	\$2,951	\$18,606	0.00885%				
Wildfire	\$521,844,668	\$56,955,988	3,033	\$237,459	\$203	\$13,671	0.0455%				
Winter Weather	\$1,529,118,430	\$211,525,848	5,945	\$69,611	\$276	\$154,903	0.00455%				

Totals since 2023-03-31 (Storm Events through 2026-06-30): 20 county-coded records, 2 with a damage value recorded (including \$0), \$0; 19 zone-level records, 2 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: no counted declaration since the plan.

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

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

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

County context

Source: 5

Measure	Value
Population	5,945
Building value (total, not at risk)	\$1,529,118,430
Agriculture value (total, not at risk)	\$211,525,848
NRI risk rating (all hazards)	Very Low
Expected annual loss, buildings and agriculture, all hazards	\$3,228,918
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)	\$1,814,508
Social vulnerability rating	Very High
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)	6	Severe repetitive loss, FMA definition (44 CFR 77.2)	5
Repetitive loss, NFIP insurance definition	5	Severe repetitive loss, NFIP insurance definition	4

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	6	5	5	4	6	1	0
of which: Benson County (unincorporated area)	5	4	4	3	5	1	0
of which: Spirit Lake Tribe (community ID not in plan data)	1	1	1	1	1	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>
Benson County	380682	5	4	4	3	5	1	0
Brinsmade city	380703	0	0	0	0	0	0	0
Esmond city	380167	0	0	0	0	0	0	0
Knox city	380704	0	0	0	0	0	0	0
Leeds city	380003	0	0	0	0	0	0	0
Maddock city	380004	0	0	0	0	0	0	0
Minnewaukan city	380240	0	0	0	0	0	0	0
Oberon city	380705	0	0	0	0	0	0	0
York city	380707	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

Sources: 1, 4

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	3	2	3	2	3	0	0
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	3	3	2	2	3	1	0
not reported	0	0	0	0	0	0	0

FEMA's occupancy groups have no institutional class; institutional properties are counted in non-residential or other residential in the table by occupancy group.

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 1 property is FMA repetitive loss but not NFIP repetitive loss, and 0 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

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3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
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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_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_scscd_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)

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.

OpenFEMA disclaimer

This product uses the Federal Emergency Management Agency's OpenFEMA API, but is not endorsed by FEMA. The Federal Government or FEMA cannot vouch for the data or analyses derived from these data after the data have been retrieved from the Agency's website(s).

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Benson County, ND: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 38005). Automated baseline. <https://hazardplain.org/nd/38005/> 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: contact@hazardplain.org

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