

Grand Forks County, ND

Risk-assessment baseline packet

Unit **County area 38035** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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

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

OPENFEMA DISCLAIMER

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Plan clock

Status	Expired on 2026-01-06	Plan	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)
Approved	2021-01-07	Expires	2026-01-06
As of	2026-09-28	Days	265 days since expiry
Update underway	none in FEMA's plan tracker		

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

What changed since your last plan (approved 2021-01-07)

New federal declarations	DR-4660-ND, DR-4717-ND, DR-4895-ND (3 declaration rows; 3 counted incidents)	Storm Events records since approval	198 (data through 2026-06-30)
Repetitive loss now	FMA RL 1, SRL 23 (44 CFR 77.2); any definition: 42	Repeat-flood change	First release: no prior release to compare.

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

Plan status for every jurisdiction listed in this county: 25 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

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

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Plan clock

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Grand Forks County	County	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Emerado city	City	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Gilby city	City	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Grand Forks city	City	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Inkster city	City	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Larimore city	City	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Manvel city	City	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Niagara city	City	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Northwood city	City	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Reynolds city	City	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Thompson city	City	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Americus township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Fairfield township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Falconer township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Ferry township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Hegton township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Lakeville township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Levant township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Logan Center township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Loretta township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Mekinock township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Rye township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Strabane township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Turtle River township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		
Walle township	Township	Expired on 2026-01-06	Grand Forks County, ND Hazard Mitigation Plan 2021 (FEMA plan 107071)	2021-01-07	2026-01-06	-265		

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

Supports B1-a: hazards

Hazards NRI does not cover: check locally

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

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

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	EAL population equivalence statistical value of life and injury, \$13.7M per life, not property damage	EAL total (see note) modeled dollars per year	Storm Events records since 1996 count	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Relatively Low	Relatively Low	\$11,079,494	\$903,633	\$153,117	\$12,136,244	80		
2	Cold Wave	Relatively Moderate	Relatively Moderate	\$8,597	\$1,926,563	\$1,299,964	\$3,235,125	82		Includes 8 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
3	Tornado	Relatively Low	Relatively Moderate	\$2,005,208	\$14,478	\$270,128	\$2,289,815	75		
4	Hail	Relatively Moderate	Relatively Moderate	\$1,518,509	\$584,292	\$162,482	\$2,265,283	356		
5	Winter Weather	Very High	Very High	\$828,354	\$606	\$739,822	\$1,568,782	172		
6	Strong Wind	Relatively Moderate	Relatively Moderate	\$849,398	\$49,992	\$636,076	\$1,535,466	370		Includes 40 High Wind records and 2 Strong Wind records, event types the NRI definition of this hazard leaves out.
7	Ice Storm	Relatively High	Relatively High	\$1,165,326		\$237,688	\$1,403,015	7		
8	Heat Wave	Very Low	Relatively Low	\$1,679	\$1	\$253,428	\$255,109	3		
9	Lightning	Relatively Low	Relatively Low	\$21,529		\$150,655	\$172,184	7		
10	Wildfire	Very Low	Very Low	\$76,031	\$108	\$4,720	\$80,860	1		
11	Drought	Very Low	Very Low		\$18,197		\$18,197	8		
12	Earthquake	Very Low	Very Low	\$13,635		\$3,199	\$16,834			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
13	Landslide	Very Low	Very Low	\$67		\$471	\$538	0		Declared 1 time; no Storm Events record of this type. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Avalanche	Not Applicable	Not Applicable					0	NRI rates avalanche Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Coastal Flooding	Not Applicable	Not Applicable					0	NRI rates coastal flooding Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	EAL population equivalence statistical value of life and injury, \$13.7M per life, not property damage	EAL total (see note) modeled dollars per year	Storm Events records since 1996 count	Evidence for an omission NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
	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).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

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

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated rated of all tracts
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 22
Coastal Flooding	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 22
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	11 of 22
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	22 of 22
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 22
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22
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.	22 of 22

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	19 of 22
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	22 of 22
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 22
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 22
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	13 of 22
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22

SOURCE

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

Supports B1-c: extent

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

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	74, 1996 to 2026 (74 zone-level)	1 day to 10 days (median 2 days); 62 with a recorded value	10 consecutive days, 2021-02-06 to 2021-02-15, zone-level	Cold/Wind Chill, 2003-03-08, \$50,000 property; crops not reported, reported for the zone (2003 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required. 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 Cold Wave definition)	crop damage	8, 2008 to 2026 (8 zone-level)		No crop damage reported in 8 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Temperature: in event narratives only; local data required.
Drought	US Drought Monitor D-scale	8, 2006 to 2023 (8 zone-level)	36 days to 114 days (median 36 days); 3 with a recorded value	114 days (about 3.7 months), 2012-07-10 to 2012-10-31, a run of 4 consecutive Storm Events drought records, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Earthquake	Modified Mercalli (local data)	0					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	392, 1959 to 2026	0.75 in to 3 in (median 1 in); 392 with a recorded value	3 in hail, 2015-06-27	Hail, 1996-07-21, \$10,000,000 property; \$100,000 crops (1996 dollars)	Event records naming member places: Grand Forks city (80 records), Thompson city (30 records), Larimore city (29 records), Northwood city (27 records), Emerado city (17 records), Niagara city (17 records), Manvel city (15 records), Inkster city (11 records), Reynolds city (9 records), Logan Center township (7 records); and 2 more member places (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	3, 2001 to 2020 (3 zone-level)	1 day to 5 days (median 2 days); 3 with a recorded value	5 consecutive days, 2011-07-16 to 2011-07-20, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.
Ice Storm	Sperry-Piltz (local data)	7, 1996 to 2023 (7 zone-level)		Ice Storm, 1997-04-04, \$6,000,000 property; crops not reported, reported for the zone (1997 dollars); NWS zone NDZ027 (GRAND FORKS), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: in event narratives only; local data required.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	80, 1996 to 2025 (10 zone-level)		Flood, 1997-04-18, \$3,000,000,000 property; crops not reported, reported for the zone (1997 dollars); NWS zone NDZ027 (GRAND FORKS), zone-level: may include parts of neighboring counties		Event records naming member places: Grand Forks city (31 records), Logan Center township (7 records), Emerado city (5 records), Larimore city (2 records), Manvel city (2 records), Thompson city (2 records), Gilby city (1 record), Inkster city (1 record), Mekinock township (1 record), Niagara city (1 record); and 1 more member place (see the XLSX file). Zone-level records (10) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	7, 2002 to 2012		Lightning, 2012-07-04, \$80,000 property; \$0 crops (2012 dollars)		Event records naming member places: Grand Forks city (5 records), Northwood city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	42, 1997 to 2026 (42 zone-level)	35 kt (40 mph) to 66 kt (76 mph) (median 52 kt (60 mph)); 42 with a recorded value	66 kt (76 mph), measurement type not recorded, High Wind, 1999-11-01; NWS zone NDZ027 (GRAND FORKS), zone-level: may include parts of neighboring counties	High Wind, 2017-06-13, \$800,000 property; crops not reported, reported for the zone (2017 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	400, 1955 to 2025	50 kt (58 mph) to 99 kt (114 mph) (median 55 kt (63 mph)); 355 with a recorded value	99 kt (114 mph) measured, Thunderstorm Wind, 2001-08-08, 1 direct injury	Thunderstorm Wind, 2001-08-08, \$18,000,000 property; crops not reported (2001 dollars)	Event records naming member places: Grand Forks city (69 records), Thompson city (24 records), Larimore city (20 records), Logan Center township (19 records), Northwood city (18 records), Emerado city (11 records), Manvel city (8 records), Gilby city (7 records), Reynolds city (7 records), Niagara city (5 records); and 2 more member places (see the XLSX file).	
Tornado	Enhanced Fujita (F before Feb 2007)	92, 1952 to 2025	F/EF0 to F/EF4 (median F/EF0); 89 with a recorded value	EF4 tornado, 2007-08-26, 5 mi within this county, 1,400 yd wide, \$50,000,000 property; \$2,000,000 crops (2007 dollars), 1 direct death, 18 direct injuries		Event records naming member places: Northwood city (8 records), Emerado city (7 records), Grand Forks city (5 records), Larimore city (5 records), Inkster city (3 records), Logan Center township (3 records), Manvel city (3 records), Reynolds city (3 records), Thompson city (3 records), Gilby city (2 records); and 1 more member place (see the XLSX file).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Wildfire	acres burned (local data)	1, 2002 to 2002		Wildfire, 2002-04-16, \$250,000 property; crops not reported (2002 dollars)		Event records naming member places: Manvel city (1 record).	Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	172, 1996 to 2026 (172 zone-level)		Blizzard, 1997-04-05, \$6,000,000 property; crops not reported, reported for the zone (1997 dollars); NWS zone NDZ027 (GRAND FORKS), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

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

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

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

SOURCES

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

Supports B1-d: previous occurrences

Declaration rows 38 Counted incidents 34

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2025-10-22	2025-08-07	DR-4895-ND	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, AND TORNADOES	Strong Wind; Tornado	\$207,061.74	new since last plan; within last 5 years	
2023-07-05	2023-04-10	DR-4717-ND	Major disaster	FLOODING	Inland Flooding	\$613,672.19	new since last plan; within last 5 years	
2022-07-13	2022-04-22	DR-4660-ND	Major disaster	SEVERE WINTER STORM AND FLOODING	Inland Flooding; Winter Weather	\$2,713,689.91	new since last plan; within last 5 years	
2020-10-02	2020-06-29	DR-4565-ND	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$1,259,318.53	during plan review, check whether your last plan included it	
2020-07-09	2020-04-01	DR-4553-ND	Major disaster	FLOODING	Inland Flooding	\$1,555,808.97	during plan review, check whether your last plan included it	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2020-04-01	2020-01-20	DR-4509-ND	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$3,189,143.57	during plan review, check whether your last plan included it	
2020-03-13	2020-01-20	EM-3477-ND	Emergency	COVID-19	Non-natural, not counted	none found	during plan review, check whether your last plan included it	same incident as DR-4509
2020-01-21	2019-10-09	DR-4475-ND	Major disaster	FLOODING	Inland Flooding	\$1,367,828.63	during plan review, check whether your last plan included it	
2019-06-12	2019-03-21	DR-4444-ND	Major disaster	FLOODING	Inland Flooding	\$603,153.59		
2013-04-26	2013-04-22	EM-3364-ND	Emergency	FLOODING	Inland Flooding	none found		
2011-05-10	2011-02-14	DR-1981-ND	Major disaster	FLOODING	Inland Flooding	\$667,665.19		
2011-04-07	2011-04-05	EM-3318-ND	Emergency	FLOODING	Inland Flooding	none found		
2010-04-30	2010-02-26	DR-1907-ND	Major disaster	FLOODING	Inland Flooding	\$433,366.36		
2010-03-14	2010-02-26	EM-3309-ND	Emergency	FLOODING	Inland Flooding	\$72,040.64		same incident as DR-1907
2009-03-24	2009-03-13	DR-1829-ND	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$2,195,469.96		
2007-09-07	2007-08-26	DR-1726-ND	Major disaster	SEVERE STORMS AND TORNADOES	Tornado	\$7,183,214.91		
2006-06-05	2006-03-30	DR-1645-ND	Major disaster	SEVERE STORMS, FLOODING, AND GROUND SATURATION	Inland Flooding	\$906,874.87		
2005-09-13	2005-08-29	EM-3247-ND	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	none found		
2005-07-22	2005-06-01	DR-1597-ND	Major disaster	SEVERE STORMS, FLOODING, AND GROUND SATURATION	Inland Flooding	\$762,288.83		
2004-05-05	2004-03-26	DR-1515-ND	Major disaster	SEVERE STORMS, FLOODING, AND GROUND SATURATION	Inland Flooding	\$656,801.13		
2002-09-10	2002-06-08	DR-1431-ND	Major disaster	SEVERE STORMS, FLOODING AND TORNADOES	Inland Flooding; Tornado	\$158,246.39		
2001-05-28	2001-03-01	DR-1376-ND	Major disaster	SEVERE STORMS, FLOODING, & GROUND SATURATION	Inland Flooding	\$3,131,057.60		
2000-06-27	2000-04-05	DR-1334-ND	Major disaster	SEVERE STORMS, FLOODING AND GROUND SATURATION	Inland Flooding	\$1,537,073.15		
1999-06-08	1999-03-01	DR-1279-ND	Major disaster	SEVERE STORMS, FLOODING, SNOW, ICE, GROUND SATURATION, LANSLIDES, MUDSLIDES, AND TOR	Inland Flooding (primary); also designated: Landslide, Tornado	\$1,805,190.70		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
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	none found		
1997-01-12	1997-01-03	DR-1157-ND	Major disaster	SEVERE WINTER STORMS AND BLIZZARD CONDITIONS	Winter Weather	none found		
1996-06-05	1996-03-12	DR-1118-ND	Major disaster	SEVERE STORMS, FLOODING, & ICE JAMS	Inland Flooding	none found		
1993-07-26	1993-06-22	DR-1001-ND	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1989-05-08	1989-03-29	DR-825-ND	Major disaster	FLOODING	Inland Flooding	none found		
1979-04-26	1979-04-26	DR-581-ND	Major disaster	SEVERE STORMS, SNOWMELT & FLOODING	Inland Flooding	none found		
1978-04-17	1978-04-17	DR-554-ND	Major disaster	STORMS, ICE JAMS, SNOWMELT & FLOODING	Inland Flooding	none found		
1975-07-11	1975-07-11	DR-475-ND	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1975-05-24	1975-05-24	DR-469-ND	Major disaster	FLOODING FROM RAINS & SNOWMELT	Inland Flooding	none found		
1974-05-14	1974-05-14	DR-434-ND	Major disaster	HEAVY RAINS, SNOWMELT & FLOODING	Inland Flooding	none found		
1970-06-05	1970-06-05	DR-287-ND	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1969-04-18	1969-04-18	DR-256-ND	Major disaster	FLOODING	Inland Flooding	none found		
1966-03-23	1966-03-23	DR-216-ND	Major disaster	FLOODING	Inland Flooding	none found		
1965-05-10	1965-05-10	DR-195-ND	Major disaster	FLOODING	Inland Flooding	none found		

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

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

SOURCES

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

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

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

Statewide declarations

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

FEMA recorded these with designated area Statewide and no county. Listed on every county page in the state; not counted with county rows.

SOURCEFEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)**Public Assistance not placed in a county in this state: 1 row, \$23,693.61**

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated <i>federal share obligated, nominal dollars</i>	Why not placed
1621	2006-01-04	SISSETON INDIAN RESERVATION (ALSO SD)	Roberts County	\$23,693.61	county field is a county of another state and the applicant name does not identify a place in the declaring state

FEMA's Public Assistance summaries file these applicants under a county field that is not a county of this state (an Alaska school area, the former Valdez-Cordova Census Area, or another state's county), and the applicant name does not identify one place here. They are listed for the whole state and are not in any county total. Check whether any of them worked in your county.

SOURCEFEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)**Previous occurrences by hazard, with explicit no-event rows**

Hazard	Storm Events records <i>full period</i>	Since plan approval records	During plan review records	Last 5 years records	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	82	23	2	20	0	0	1996 to 2026-06-30	Includes 8 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
Drought	8	2	0	2	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	392	23	14	19	0	0	1955 to 2026-06-30	
Heat Wave	3	0	1	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	7	1	0	1	0	0	1996 to 2026-06-30	
Inland Flooding	80	10	6	7	31	2	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)
Lightning	7	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	442	91	35	72	1	1	1955 to 2026-06-30	Includes 40 High Wind records and 2 Strong Wind records, event types the NRI definition of this hazard leaves out.

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Tornado	92	14	2	13	4	1	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	1	0	0	0	1	0	1996 to 2026-06-30	
Winter Weather	172	34	4	34	3	1	1996 to 2026-06-30	

SOURCES

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

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

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

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2021-02-06	Extreme Cold/ Wind Chill		\$0 property; \$0 crops, reported for the zone (2021 dollars)	0, 0	NWS zone NDZ027 (GRAND FORKS), zone-level: may include parts of neighboring counties	new since last plan	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2015-06-27	Hail	3 in	damage not reported	0, 0	NORTHWOOD		B1-c worst recorded: Hail
2012-07-04	Lightning		\$80,000 property; \$0 crops (2012 dollars)	0, 0	KELLY		B1-c worst recorded: Lightning
2011-07-16	Excessive Heat		damage not reported	0, 0	NWS zone NDZ027 (GRAND FORKS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2007-08-26	Tornado	EF4, 5 mi within this county, 1,400 yd wide	\$50,000,000 property; \$2,000,000 crops (2007 dollars)	1, 18	NORTHWOOD		deaths or injuries recorded
2006-04-01	Flood		\$887,000 property; crops not reported (2006 dollars)	1, 0	COUNTYWIDE		deaths or injuries recorded
2001-08-08	Thunderstorm Wind	99 kt (114 mph) measured	damage not reported	0, 1	GRAND FORKS AFB		B1-c worst recorded: Thunderstorm Wind
2000-06-12	Flash Flood		\$4,000,000 property; crops not reported (2000 dollars)	2, 0	LARIMORE		deaths or injuries recorded
1999-11-01	High Wind	66 kt (76 mph), measurement type not recorded	\$150,000 property; crops not reported, reported for the zone (1999 dollars)	0, 0	NWS zone NDZ027 (GRAND FORKS), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)

				Direct deaths, injuries <i>indirect not counted</i>			
Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>		Location	Flags	Why listed
1997-04-18	Flood		\$3,000,000,000 property; crops not reported, reported for the zone (1997 dollars)	0, 0	NWS zone NDZ027 (GRAND FORKS), zone-level: may include parts of neighboring counties		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 NDZ027 (GRAND FORKS), zone-level: may include parts of neighboring counties		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 NDZ027 (GRAND FORKS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Ice Storm

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

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

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

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

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

		FEMA annualized frequency (modeled) <i>unit per row</i>					NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)			
Hazard		Unit	In plain terms	Descriptor	Descriptor basis		NRI period	Location	Note	
Avalanche		events per year					1994 to 2023 (30 years)	see B1-f	Not Applicable in NRI for this county; no descriptor.	
Coastal Flooding		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.	
Cold Wave	21.7	event-days per year	about 21.7 days per year	Likely	event-days in 24 of 30 years, 1996 to 2025 (80%)	413	2005-11-12 to 2024-11-12 (19 years)	countywide	Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.	

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
Drought	5.53	event-days per year	about 5.53 days per year	Likely	event-days in 3 of 30 years, 1996 to 2025 (10%)	203	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI gives about 5.53 drought event-days a year here (its annualized frequency over 25.25 years; not its event count divided by the years), but Storm Events has a record in only 3 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Earthquake	0.000087	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.0087%			not shown	modeled	see B1-f	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.
Hail	3.86	events per year	about 3.86 per year	Highly likely	FEMA annualized frequency (modeled)	146.5 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	1.21	event-days per year	about 1.21 days per year	Likely	event-days in 3 of 30 years, 1996 to 2025 (10%)	16	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 1.21 heat wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 3 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Hurricane		events per year					1851 to 2024 (Atlantic)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Ice Storm	0.392	event-days per year	about 0.392 days per year	Likely	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	27	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.89	event-days per year	about 1.89 days per year	Likely	event-days in 24 of 30 years, 1996 to 2025 (80%)	53	1996 to 2023 (28 years)	see B1-f	
Landslide	0.138	events per year (modeled)	about 1 in 7 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	27.3	days per year with a strike	about 27.3 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	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
Strong Wind	2.19	events per year	about 2.19 per year	Highly likely	FEMA annualized frequency (modeled)	84	1986 to 2023 (38 years)	countywide	
Tornado	1.02	events per year	about 1.02 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.000613	annual probability at a location	chance a given location in the county burns in a year: 0.0613%	Possible	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Winter Weather	23.5	event-days per year	about 23.5 days per year	Highly likely	event-days in 30 of 30 years, 1996 to 2025 (100%)	447	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county, which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

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

Descriptor scale used in this packet (defined per unit)

Unit	Descriptor	Definition
events per year	Highly likely	1 or more per year
events per year	Likely	about once in 1 to 10 years

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

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

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

Intensity bands: historical frequency (Storm Events)

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	170	30	5.67
Hail	2.00 in+	1996 to 2025	15	30	0.5
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	253	30	8.43
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	47	30	1.57
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	28	30	0.933
Tornado	EF0-1	1996 to 2025	68	30	2.27
Tornado	EF2-3	1996 to 2025	5	30	0.167
Tornado	EF4-5	1996 to 2025	2	30	0.0667
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

SOURCE

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts rated of all	Risk score min NRI score, 0 to 100	Median	Max	Tracts by rating	Note
Avalanche	0 of 22				Not Applicable 22	
Coastal Flooding	0 of 22				Not Applicable 22	
Cold Wave	22 of 22	30.6	57.5	96.0	Very High 1, Relatively High 3, Relatively Moderate 11, Relatively Low 7	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. Agriculture is 60% of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally.
Drought	11 of 22	67.4	69.4	84.7	Relatively Low 4, Very Low 7, No Rating 11	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally.
Earthquake	22 of 22	0.4	3.9	12.5	Very Low 22	
Hail	22 of 22	64.0	87.3	96.1	Relatively High 8, Relatively Moderate 13, Relatively Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	22 of 22	4.6	11.4	31.9	Relatively Low 7, Very Low 15	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	0 of 22				Not Applicable 22	
Ice Storm	22 of 22	78.5	94.3	98.1	Very High 1, Relatively High 18, Relatively Moderate 3	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	22 of 22	0.8	34.8	84.1	Relatively High 1, Relatively Moderate 5, Relatively Low 10, Very Low 6	
Landslide	19 of 22	8.8	34.6	84.1	Relatively Low 2, Very Low 17, No Rating 3	
Lightning	22 of 22	19.8	31.7	58.6	Relatively Moderate 3, Relatively Low 18, Very Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	22 of 22	60.6	83.2	94.4	Relatively High 12, Relatively Moderate 10	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	22 of 22	32.3	57.0	76.5	Relatively High 1, Relatively Moderate 13, Relatively Low 8	
Tsunami	0 of 22				Not Applicable 22	
Volcanic Activity	0 of 22				Not Applicable 22	
Wildfire	13 of 22	20.5	76.9	86.2	Relatively Low 9, Very Low 4, No Rating 9	
Winter Weather	22 of 22	95.4	98.8	99.9	Very High 20, Relatively High 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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

SOURCE

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Grand Forks County	County	Expired on 2026-01-06	FMA RL 1, SRL 1; any 10	\$12,641,676.89	0; 0	Includes \$13,029.87 for declarations not counted as hazard incidents (DR-4509-ND).
Emerado city	City	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	\$66,782.05	40; 4	
Gilby city	City	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	\$27,972.90	16; 1	
Grand Forks city	City	Expired on 2026-01-06	FMA RL 0, SRL 22; any 28	\$6,247,762.71	190; 21	Includes \$1,803,065.62 for declarations not counted as hazard incidents (DR-4509-ND).
Inkster city	City	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	\$6,453.19	19; 2	
Larimore city	City	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	\$418,916.90	56; 5	
Manvel city	City	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	\$194,960.97	29; 5	
Niagara city	City	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	\$951.14	23; 0	
Northwood city	City	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	\$2,462,367.64	54; 6	
Reynolds city	City	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	none found	20; 3	
Thompson city	City	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	\$229,059.03	59; 8	
Americus township	Township	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	none found	0; 0	
Fairfield township	Township	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	none found	0; 0	
Falconer township	Township	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	none found	0; 0	
Ferry township	Township	Expired on 2026-01-06	FMA RL 0, SRL 0; any 1	none found	0; 0	
Hegton township	Township	Expired on 2026-01-06		none found	0; 0	No NFIP community ID on this member's plan row.
Lakeville township	Township	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	none found	0; 0	

Member	Type	Plan status	Repetitive loss	Public Assistance matched	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>federal share obligated, nominal dollars</i>	<i>all years; since the member's plan</i>	
Levant township	Township	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	none found	0; 0	
Logan Center township	Township	Expired on 2026-01-06		none found	36; 11	No NFIP community ID on this member's plan row.
Loretta township	Township	Expired on 2026-01-06		none found	0; 0	No NFIP community ID on this member's plan row.
Mekinock township	Township	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	none found	7; 2	
Rye township	Township	Expired on 2026-01-06	FMA RL 0, SRL 0; any 0	none found	0; 0	
Strabane township	Township	Expired on 2026-01-06		none found	0; 0	No NFIP community ID on this member's plan row.
Turtle River township	Township	Expired on 2026-01-06	FMA RL 0, SRL 0; any 3	none found	0; 0	
Walle township	Township	Expired on 2026-01-06		none found	0; 0	No NFIP community ID on this member's plan row.

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

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

SOURCES

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

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

Local data required

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2021-01-07 <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
Avalanche											Not Applicable in NRI for this county
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$17,934,989,388	\$410,011,769	73,042	\$8,597	\$1,926,563	\$1,299,964	under 0.0001%		\$0		
Drought		\$218,842,945			\$18,197		0.00831% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$32,987,216,499		73,170	\$13,635		\$3,199	under 0.0001%				
Hail	\$17,934,989,388	\$410,011,769	73,042	\$1,518,509	\$584,292	\$162,482	0.00847%				
Heat Wave	\$17,934,989,388	\$410,011,769	73,042	\$1,679	\$1	\$253,428	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$17,934,989,388		73,042	\$1,165,326		\$237,688	0.0065%				
Inland Flooding	\$17,931,675,817	\$23,364,782	1,586	\$11,079,494	\$903,633	\$153,117	n/a (see note)	\$1,467,000		\$3,327,362.10	NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. EAL as % of exposure: n/a.
Landslide	\$30,976,868		111	\$67		\$471	0.000218%				
Lightning	\$17,934,989,388		73,042	\$21,529		\$150,655	0.00012%				
Strong Wind	\$17,934,989,388	\$410,011,769	73,042	\$849,398	\$49,992	\$636,076	0.00474%	\$41,250	\$0	\$207,061.74	
Tornado	\$17,934,989,388	\$410,011,769	73,042	\$2,005,208	\$14,478	\$270,128	0.0112%	\$1,000		\$207,061.74	
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$876,793,416	\$67,454,467	4,448	\$76,031	\$108	\$4,720	0.00867%				
Winter Weather	\$17,934,989,388	\$410,011,769	73,042	\$828,354	\$606	\$739,822	0.00462%		\$0	\$2,713,689.91	

Totals since 2021-01-07 (Storm Events through 2026-06-30): 122 county-coded records, 16 with a damage value recorded (including \$0), \$1,509,250; 76 zone-level records, 12 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance on counted declarations \$3,534,423.84 (3 declarations, 3 with PA).

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

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

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

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

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

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

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

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

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

Supports B2-a: context

County context

Measure	Value
Population	73,042
Building value (total, not at risk)	\$17,934,989,388
Agriculture value (total, not at risk)	\$410,011,769
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$21,065,700
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)	\$3,911,751
Social vulnerability rating	Very Low
Community resilience rating	Relatively High
NRI version	December 2025

FEMA's all-hazard expected annual loss total adds buildings, agriculture and population equivalence; the two parts are shown separately so the property figure is not read as including the statistical value of life.

SOURCE

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	1	Severe repetitive loss, FMA definition (44 CFR 77.2)	23
Repetitive loss, NFIP insurance definition	20	Severe repetitive loss, NFIP insurance definition	4

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

SOURCES

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

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

Repeat-flood properties: county total and NFIP communities

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	1	23	20	4	42	8	3
GRAND FORKS COUNTY *	1	1	9	1	10	2	0
FERRY, TOWNSHIP OF	0	0	1	0	1	0	1
TURTLE RIVER, TOWNSHIP OF	0	0	3	0	3	0	1
GRAND FORKS, CITY OF	0	22	7	3	28	6	1

SOURCESFEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)**Repeat-flood properties by plan member (NFIP community)**

Member	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>	Note
Grand Forks County	380033	1	1	9	1	10	2	0	
Emerado city	380034	0	0	0	0	0	0	0	
Gilby city	380035	0	0	0	0	0	0	0	
Grand Forks city	385365	0	22	7	3	28	6	1	
Inkster city	380090	0	0	0	0	0	0	0	
Larimore city	380236	0	0	0	0	0	0	0	
Manvel city	380037	0	0	0	0	0	0	0	
Niagara city	380275	0	0	0	0	0	0	0	
Northwood city	380245	0	0	0	0	0	0	0	
Reynolds city	380199	0	0	0	0	0	0	0	
Thompson city	380208	0	0	0	0	0	0	0	
Americus township	380064	0	0	0	0	0	0	0	
Fairfield township	380102	0	0	0	0	0	0	0	
Falconer township	385399	0	0	0	0	0	0	0	
Ferry township	380120	0	0	1	0	1	0	1	
Lakeville township	380297	0	0	0	0	0	0	0	
Levant township	380122	0	0	0	0	0	0	0	
Mekinock township	380162	0	0	0	0	0	0	0	
Rye township	380298	0	0	0	0	0	0	0	
Turtle River township	380299	0	0	3	0	3	0	1	

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

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

SOURCES

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

County repeat-flood properties by occupancy group

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	0	15	17	3	32	6	3
2 to 4 unit residential	0	2	0	0	2	0	0
other residential	0	1	0	0	1	0	0
non-residential	1	5	3	1	7	2	0
not reported	0	0	0	0	0	0	0

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

SOURCES

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

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

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

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

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

In this county 1 property is FMA repetitive loss but not NFIP repetitive loss, and 20 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-28, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip

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_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_Gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

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Cite this: Hazard Plain (2026). Grand Forks County, ND: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 38035). Preview: automated baseline. Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_ND_38035. Preview: automated baseline.