

Wadena County, MN

Risk-assessment baseline packet

County FIPS: 27159 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 2028-05-03. Plan: Wadena County (FEMA plan 108908), approved 2023-05-04.

Since the plan was approved on 2023-05-04: no new hazard declaration and 50 NOAA Storm Events records; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$2,987,895 a year), Cold Wave (\$608,482) and Tornado (\$486,526).

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; 27159 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 2028-05-03	Plan:	Wadena County (FEMA plan 108908)
Approved:	2023-05-04	Days to expiry:	581

What changed since your last plan (approved 2023-05-04)

New federal declarations:	none	Storm Events records since approval:	50 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0	Repeat-flood change:	this release sets the baseline count.

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

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Wadena County	County	Approved, expires 2028-05-03	Wadena County (FEMA plan 108908)	2023-05-04	2028-05-03	581		
Aldrich city	City	Approved, expires 2028-05-03	Wadena County (FEMA plan 108908)	2023-05-04	2028-05-03	581		
Menahga city	City	Approved, expires 2028-05-03	Wadena County (FEMA plan 108908)	2023-05-04	2028-05-03	581		
Nimrod city	City	Plan 108908 approved 2023-05-04, pending adoption here; not yet eligible	Wadena County (FEMA plan 108908), pending adoption here	2023-05-04 by FEMA; not yet adopted here	2028-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sebeka city	City	Approved, expires 2028-05-03	Wadena County (FEMA plan 108908)	2023-05-04	2028-05-03	581		
Staples city	City	Approved, expires 2031-05-03	Todd County 2025 Hazard Mitigation Plan (FEMA plan 111479)	2026-05-04	2031-05-03	1,676		Also approved under plan 108908 (Wadena County, expires 2028-05-03). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.
Verndale city	City	Approved, expires 2028-05-03	Wadena County (FEMA plan 108908)	2023-05-04	2028-05-03	581		
Wadena city	City	Approved, expires 2028-05-03	Wadena County (FEMA plan 108908)	2023-05-04	2028-05-03	581		Also approved under plan 108247 (Otter Tail County Hazard Mitigation Plan, expires 2027-12-18). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.

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 modeled dollars per year	EAL agriculture modeled dollars per year	Cost of expected deaths and injuries FEMA's dollar value per year; not property damage	EAL total (see note) modeled dollars per year	Storm Events records, 1996 to 2026-06-30 count	Why this hazard can be left out NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
1	Inland Flooding	Very Low	Very Low	\$2,983,417	\$4,463	\$15	\$2,987,895	14		
2	Cold Wave	Relatively Low	Relatively Low	\$1,314	\$127	\$607,040	\$608,482	56		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).
3	Tornado	Relatively Low	Relatively Low	\$408,900	\$1,895	\$75,730	\$486,526	15		
4	Strong Wind	Relatively Low	Relatively Low	\$76,179	\$19,627	\$249,545	\$345,352	107		Includes 11 High Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
5	Drought	Relatively Low	Relatively Low	n/a	\$254,080	n/a	\$254,080	30		
6	Wildfire	Relatively Low	Relatively Low	\$103,751	\$237	\$11,177	\$115,165	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
7	Lightning	Relatively Low	Relatively Low	\$8,313	n/a	\$92,718	\$101,031	1		
8	Winter Weather	Relatively Moderate	Relatively Moderate	\$48,188	\$364	\$47,381	\$95,933	89		
9	Hail	Very Low	Very Low	\$15,101	\$53,868	\$18,584	\$87,553	151		
10	Heat Wave	Very Low	Very Low	\$350	under \$1	\$47,544	\$47,894	2		

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	Cost of expected deaths and injuries FEMA's dollar value per year, not property damage	EAL total (see note) modeled dollars per year	Storm Events records, 1996 to 2026-06-30 count	Why this hazard can be left out NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
11	Earthquake	Very Low	Very Low	\$3,558	n/a	\$871	\$4,430			Storm Events does not record earthquakes.
12	Ice Storm	Very Low	Very Low	\$650	n/a	\$288	\$938	3		
13	Landslide	Very Low	Very Low	\$14	n/a	\$507	\$521	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-3242-MN 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 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 4803 (Very Low, 11.2); tract 4802 (Very Low, 9.0); tract 4801 (Very Low, 5.8)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 4802 (Relatively Low, 87.3); tract 4801 (Relatively Low, 86.9); tract 4803 (Very Low, 64.1)
Tornado	tract 4803 (Relatively High, 79.0); tract 4802 (Relatively Moderate, 74.1); tract 4801 (Relatively Moderate, 63.7)
Wildfire	tract 4802 (Relatively Moderate, 93.2); tract 4801 (Relatively Moderate, 92.4); tract 4803 (Relatively Low, 86.0)

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 4803 is Census Tract 4803). 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	50 records, 1996 to 2026 (50 zone-level)	1 day to 7 days (median 2 days); 43 with a recorded value	7 consecutive days, 1996-12-21 to 1996-12-27, zone-level	Cold/Wind Chill, 2003-03-08, \$21,000 property; crops not reported (zone total, 2003 dollars)	Countywide (zone-level records).	Cold/Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	6 records, 2015 to 2026 (6 zone-level)		No crop damage reported in 6 records.		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	30 records, 2006 to 2025 (30 zone-level)	22 days to 260 days (median 121 days); 7 with a recorded value	260 days (about 8.5 months), 2006-07-18 to 2007-04-03, a run of 10 consecutive Storm Events drought records, 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)	170 records, 1959 to 2026	0.75 in to 4 in (median 1 in); 170 with a recorded value	4 in hail, 2024-08-03; same size also recorded on 2010-07-17, 2024-08-03	Hail, 2010-07-17, \$100,000 property; \$100,000 crops (2010 dollars)	Event records naming jurisdictions in the plan: Wadena city (36 records), Sebeka city (27 records), Menahga city (17 records), Nimrod city (13 records), Verndale city (10 records), Aldrich city (7 records), Staples city (2 records).	
Excessive Heat, Heat	heat index (in event narratives)	2 records, 2001 to 2011 (2 zone-level)	2 days to 5 days (median 3.5 days); 2 with a recorded value	5 consecutive days, 2011-07-16 to 2011-07-20, zone-level		Countywide (zone-level records).	
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	3 records, 2004 to 2016 (3 zone-level)		No damage reported in 3 records.		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	14 records, 2000 to 2018		Flash Flood, 2018-06-17, \$10,000 property; \$75,000 crops (2018 dollars)		Event records naming jurisdictions in the plan: Wadena city (7 records), Sebeka city (4 records), Aldrich city (1 record), Menahga city (1 record), Nimrod city (1 record), Staples city (1 record).	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Debris Flow	none (count and damage only)	0					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1 record, 2000		Lightning, 2000-08-12, \$20,000 property; crops not reported (2000 dollars)		Event records naming jurisdictions in the plan: Menahga city (1 record).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	11 records, 2000 to 2025 (11 zone-level)	35 kt (40 mph) to 64 kt (74 mph) (median 50 kt (58 mph)); 11 with a recorded value	64 kt (74 mph) measured, High Wind, 2000-04-05; NWS zone MNZ032	High Wind, 2008-06-11, \$100,000 property; \$50,000 crops (zone total, 2008 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	112 records, 1962 to 2026	50 kt (58 mph) to 87 kt (100 mph) (median 60 kt (69 mph)); 86 with a recorded value	87 kt (100 mph) estimated gust, Thunderstorm Wind, 2016-08-04	Thunderstorm Wind, 1998-09-25, \$500,000 property; crops not reported (1998 dollars)	Event records naming jurisdictions in the plan: Wadena city (22 records), Verndale city (19 records), Menahga city (12 records), Aldrich city (9 records), Sebeka city (9 records), Nimrod city (6 records), Staples city (4 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	22 records, 1964 to 2022	F/EF0 to F/EF4 (median F/EF1); 22 with a recorded value	EF4 tornado, 2010-06-17, 8 mi within this county, 1,936 yd wide, damage not reported, 20 direct injuries	Tornado, 2008-06-06, \$5,000,000 property; \$500,000 crops (2008 dollars)	Event records naming jurisdictions in the plan: Verndale city (4 records), Aldrich city (2 records), Nimrod city (2 records), Menahga city (1 record), Sebeka city (1 record), Staples city (1 record), Wadena 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).
Wildfire	acres burned (local data)	0					
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	89 records, 1996 to 2025 (89 zone-level)		No damage reported in 89 records.		Countywide (zone-level records).	

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

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

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 15 declarations covering 12 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2022-08-09	2022-05-29	DR-4666-MN	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, and Flooding	Inland Flooding; Strong Wind; Tornado	\$21,745.79	in the 12 months before plan approval; within last 5 years	
2022-07-08	2022-05-08	DR-4658-MN	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, and Flooding	Inland Flooding; Strong Wind; Tornado	\$31,547.66	in the 12 months before plan approval; within last 5 years	
2020-04-07	2020-01-20	DR-4531-MN	Major disaster	COVID-19 Pandemic	Non-natural, not counted	no Public Assistance recorded		
2020-03-13	2020-01-20	EM-3453-MN	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4531
2014-07-21	2014-06-11	DR-4182-MN	Major disaster	Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide, Strong Wind	\$113,580.47		
2010-07-02	2010-06-17	DR-1921-MN	Major disaster	Severe Storms, Tornadoes, and Flooding	Tornado (primary); also designated: Inland Flooding	\$7,385,501.99		
2009-04-09	2009-03-16	DR-1830-MN	Major disaster	Severe Storms and Flooding	Inland Flooding	\$171,356.48		
2005-09-13	2005-08-29	EM-3242-MN	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
1997-04-08	1997-03-21	DR-1175-MN	Major disaster	Severe Flooding, High Winds, Severe Storms	Inland Flooding (primary); also designated: Strong Wind	no Public Assistance recorded		
1997-01-16	1997-01-03	DR-1158-MN	Major disaster	Severe Winter Storms	Winter Weather	no Public Assistance recorded		
1995-08-18	1995-07-09	DR-1064-MN	Major disaster	Severe Thunderstorms, Winds, Flooding, Tornadoes, and Heat	Inland Flooding; Tornado	no Public Assistance recorded		
1976-06-17	1976-06-17	EM-3013-MN	Emergency	Drought	Drought	no Public Assistance recorded		
1969-04-18	1969-04-18	DR-255-MN	Major disaster	Flooding	Inland Flooding	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Notes
						<i>federal share obligated, nominal dollars</i>	Flags	
1966-03-22	1966-03-22	DR-215-MN	Major disaster	Flooding	Inland Flooding	no Public Assistance recorded		
1965-04-11	1965-04-11	DR-188-MN	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-80-MN	Major disaster	Floods	Inland Flooding

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.

7 Fire Management declarations (1976-09-08 to 1976-10-01) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

Public Assistance filed under this county for declarations that do not list it: 6 rows, \$71,369.15

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-1982-MN	2011-05-10	Severe Storms and Flooding	SPRUCE GROVE (TOWNSHIP OF)	\$7,208.45
DR-1982-MN	2011-05-10	Severe Storms and Flooding	PADDOCK (TOWNSHIP OF)	\$1,255.50
DR-1419-MN	2002-06-14	Severe Storms, Flooding and Tornadoes	STRAIGHT RIVER (TOWNSHIP OF)	\$7,740.75
DR-1370-MN	2001-05-16	Severe Winter Storms, Flooding, and Tornadoes	STOWE PRAIRIE (TOWNSHIP OF)	\$18,491.44
DR-1370-MN	2001-05-16	Severe Winter Storms, Flooding, and Tornadoes	PADDOCK (TOWNSHIP OF)	\$29,167.50
DR-1370-MN	2001-05-16	Severe Winter Storms, Flooding, and Tornadoes	Blowers, Township of	\$7,505.51

FEMA's Public Assistance summaries file these applicants under this county, but FEMA's declaration rows for these disasters do not designate it (an electric cooperative or district serving several counties, for example). Not in any declaration row above and not counted.

Public Assistance not placed in any Minnesota county: 14 rows, \$9,133,931.59; listed on the Minnesota 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	56	6	1	12	0	0	1996 to 2026-06-30	Includes 6 Frost/Freeze records.
Drought	30	15	0	15	1	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	170	19	4	23	0	0	1955 to 2026-06-30	
Heat Wave	2	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	14	0	0	0	10	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)
Lightning	1	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	123	4	9	13	4	0	1955 to 2026-06-30	Includes 11 High Wind records.
Tornado	22	0	3	3	4	0	1950 to 2026-06-30	
Wildfire	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	89	6	7	19	1	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2024-08-03	Hail	4 in	damage not reported	0, 0	WADENA	new since last plan; within last 5 years	B1-c worst recorded: Hail
2018-06-17	Flash Flood		\$10,000 property; \$75,000 crops (2018 dollars)	0, 0	NIMROD to CENTRAL		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2016-08-04	Thunderstorm Wind	87 kt (100 mph) estimated gust	damage not reported	0, 0	MENAHGA		B1-c worst recorded: Thunderstorm Wind
2011-07-16	Excessive Heat		damage not reported	0, 0	NWS zone MNZ032 (WADENA), zone-level		B1-c worst recorded: Excessive Heat, Heat
2010-06-17	Tornado	EF4, 8 mi within this county, 1,936 yd wide	damage not reported	0, 20	WADENA		deaths or injuries recorded
2006-07-18	Drought		damage not reported	0, 0	NWS zone MNZ032 (WADENA), zone-level		B1-c worst recorded: Drought
2003-03-08	Cold/Wind Chill		\$21,000 property; crops not reported (zone total, 2003 dollars)	0, 0	NWS zone MNZ032 (WADENA), zone-level		B1-c most damaging: Cold/Wind Chill, Extreme Cold/Wind Chill
2000-08-12	Lightning		\$20,000 property; crops not reported (2000 dollars)	0, 0	MENAHGA		B1-c worst recorded: Lightning
2000-07-08	Tornado	F2, 8 mi within this county, 100 yd wide	\$500,000 property; crops not reported (2000 dollars)	0, 3	VERNDALE		deaths or injuries recorded
2000-04-05	High Wind	64 kt (74 mph) measured	damage not reported	0, 0	NWS zone MNZ032 (WADENA), zone-level		B1-c worst recorded: High Wind and Strong Wind
1998-09-25	Thunderstorm Wind	speed not recorded	\$500,000 property; crops not reported (1998 dollars)	0, 3	VERNDALE		deaths or injuries recorded
1996-12-21	Cold/Wind Chill		damage not reported	0, 0	NWS zone MNZ032 (WADENA), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill

The full list is in the Excel file, sheet "B1-d Storm Events history" (510 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	14.6	event-days per year	about 14.6 days per year	Likely	Storm Events event- days in 21 of 30 years, 1996 to 2025 (70%)	278	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	12.3	event-days per year	about 12.3 days per year	Likely	Storm Events event- days in 6 of 30 years, 1996 to 2025 (20%)	350	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000113	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0113%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	3.44	events per year	about 3.44 per year	Highly likely	FEMA annualized frequency (modeled)	130.9 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	0.948	event-days per year	about 0.948 days per year	Possible	Storm Events event- days in 2 of 30 years, 1996 to 2025 (6.67%)	14	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	0.0148	event-days per year	about 0.0148 days per year	Likely	Storm Events event- days in 3 of 30 years, 1996 to 2025 (10%)	1	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.464	event-days per year	about 0.464 days per year	Likely	Storm Events event- days in 10 of 30 years, 1996 to 2025 (33.3%)	13	1996 to 2023 (28 years)	see B1-f	
Landslide	0.0636	events per year (modeled)	about 1 in 16 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	29.9	days per year with a strike	about 29.9 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	2.2	events per year	about 2.2 per year	Highly likely	FEMA annualized frequency (modeled)	84	1986 to 2023 (38 years)	countywide	
Tornado	0.239	events per year	about 1 in 4 years	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	0.00105	annual probability at a location	chance a given location in the county burns in a year: 0.105%		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	17.1	event-days per year	about 17.1 days per year	Likely	Storm Events event- days in 25 of 30 years, 1996 to 2025 (83.3%)	325	2005-11-12 to 2024-11-12 (19 years)	countywide	

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

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

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	79	30	2.63
Hail	2.00 in+	1996 to 2025	9	30	0.3
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	54	30	1.8
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	26	30	0.867
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	15	30	0.5
Tornado	EF0-1	1996 to 2025	8	30	0.267
Tornado	EF2-3	1996 to 2025	6	30	0.2
Tornado	EF4-5	1996 to 2025	1	30	0.0333
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	79.6	87.6	88.1	Relatively High 3
Drought	3 of 3	90.9	94.9	97.2	Relatively Moderate 2, Relatively Low 1
Earthquake	3 of 3	5.8	9.0	11.2	Very Low 3
Hail	3 of 3	72.0	73.0	83.2	Relatively Moderate 3
Heat Wave	3 of 3	18.6	29.8	30.6	Relatively Low 3
Hurricane	0 of 3				Not Applicable 3
Ice Storm	3 of 3	2.8	4.1	5.0	Very Low 3
Inland Flooding	3 of 3	74.7	76.4	88.4	Relatively High 1, Relatively Moderate 2
Landslide	3 of 3	64.1	86.9	87.3	Relatively Low 2, Very Low 1
Lightning	3 of 3	77.1	89.7	90.0	Relatively High 2, Relatively Moderate 1
Strong Wind	3 of 3	90.1	95.1	95.5	Relatively 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	63.7	74.1	79.0	Relatively High 1, Relatively Moderate 2
Wildfire	3 of 3	86.0	92.4	93.2	Relatively Moderate 2, Relatively Low 1
Winter Weather	3 of 3	94.9	97.5	97.9	Very High 2, Relatively High 1

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.

Hail: Agriculture is 62% of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

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

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

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

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

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Wadena County	County	Approved, expires 2028-05-03	FMA RL 0, SRL 0; any 0	\$505,628.16	0 total; 0 since its plan	
Aldrich city	City	Approved, expires 2028-05-03	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	19 total; 0 since its plan	
Menahga city	City	Approved, expires 2028-05-03	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	32 total; 0 since its plan	
Nimrod city	City	Plan 108908 approved 2023-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	22 total; no approved plan	
Sebeka city	City	Approved, expires 2028-05-03	FMA RL 0, SRL 0; any 0	\$3,138.75	41 total; 1 since its plan	
Staples city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	8 total; 0 since its plan	Also approved under plan 108908 (Wadena County, expires 2028-05-03). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.
Verndale city	City	Approved, expires 2028-05-03	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	33 total; 2 since its plan	
Wadena city	City	Approved, expires 2028-05-03	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	66 total; 13 since its plan	Also approved under plan 108247 (Otter Tail County Hazard Mitigation Plan, expires 2027-12-18). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.

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 2023-05-04 <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	\$3,869,720,878	\$68,035,063	14,054	\$1,314	\$127	\$607,040	under 0.0001%		\$0		
Drought	n/a	\$28,711,826	n/a	n/a	\$254,080	n/a	0.885% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$7,032,931,681	n/a	14,065	\$3,558	n/a	\$871	under 0.0001%				
Hail	\$3,869,720,878	\$68,035,063	14,054	\$15,101	\$53,868	\$18,584	0.00039%				
Heat Wave	\$3,869,720,878	\$68,035,063	14,054	\$350	under \$1	\$47,544	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$3,869,720,878	n/a	14,054	\$650	n/a	\$288	under 0.0001%				
Inland Flooding	\$3,866,743,897	\$634,147	278	\$2,983,417	\$4,463	\$15	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	\$13,989,819	n/a	48	\$14	n/a	\$507	0.0001%				
Lightning	\$3,869,720,878	n/a	14,054	\$8,313	n/a	\$92,718	0.000215%				
Strong Wind	\$3,869,720,878	\$68,035,063	14,054	\$76,179	\$19,627	\$249,545	0.00197%				
Tornado	\$3,869,720,878	\$68,035,063	14,054	\$408,900	\$1,895	\$75,730	0.0106%				

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 2023-05-04 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Wildfire	\$1,058,814,902	\$31,819,124	5,901	\$103,751	\$237	\$11,177	0.0098%				
Winter Weather	\$3,869,720,878	\$68,035,063	14,054	\$48,188	\$364	\$47,381	0.00125%		\$0		

Totals since 2023-05-04 (Storm Events through 2026-06-30): 22 county-coded records, 0 with a damage value recorded (including \$0), \$0; 28 zone-level records, 7 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	14,054
Building value (total, not at risk)	\$3,869,720,878
Agriculture value (total, not at risk)	\$68,035,063
NRI risk rating (all hazards)	Very Low
Expected annual loss, buildings and agriculture, all hazards	\$3,984,398
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)	\$1,151,401
Social vulnerability rating	Relatively Moderate
Community resilience rating	Very High
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

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

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

Repeat-flood properties: county total and NFIP communities

Sources: 1, 4

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

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

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Wadena County	270637	0	0	0	0	0	0	0
Aldrich city	270492	0	0	0	0	0	0	0
Menahga city	270493	0	0	0	0	0	0	0
Nimrod city	270591	0	0	0	0	0	0	0
Sebeka city	270494	0	0	0	0	0	0	0
Staples city	270717	0	0	0	0	0	0	0
Verndale city	270607	0	0	0	0	0	0	0
Wadena city	270495	0	0	0	0	0	0	0

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

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

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

Sources: 1, 4

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

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

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

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
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3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_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_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (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 (the summary on page 1 says how it is organized); the plan and FEMA's review decide whether each item is met.

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

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

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