

Douglas County, WI

Risk-assessment baseline packet

County FIPS: 55031 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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

Summary

Plan status as of 2026-09-30: Approved, expires 2027-11-13. Plan: Douglas County (FEMA plan 108531), approved 2022-11-14.

Since the plan was approved on 2022-11-14: no new hazard declaration and 72 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): Cold Wave (\$12,223,178 a year), Inland Flooding (\$10,502,955) and Heat Wave (\$681,171).

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; 55031 is this area.

D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).

F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.

kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.

CFR: Code of Federal Regulations.

A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).

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

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Plan clock

Status:	Approved, expires 2027-11-13	Plan:	Douglas County (FEMA plan 108531)
Approved:	2022-11-14	Days to expiry:	409

What changed since your last plan (approved 2022-11-14)

New federal declarations:	none	Storm Events records since approval:	72 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
Douglas County	County	Approved, expires 2027-11-13	Douglas County (FEMA plan 108531)	2022-11-14	2027-11-13	409		
Lake Nebagamom village	Village	Approved, expires 2027-11-13	Douglas County (FEMA plan 108531)	2022-11-14	2027-11-13	409		this jurisdiction approved 2024-01-10
Oliver village	Village	Approved, expires 2027-11-13	Douglas County (FEMA plan 108531)	2022-11-14	2027-11-13	409		this jurisdiction approved 2023-09-28
Poplar village	Village	Approved, expires 2027-11-13	Douglas County (FEMA plan 108531)	2022-11-14	2027-11-13	409		this jurisdiction approved 2023-09-28
Solon Springs village	Village	Plan 108531 approved 2022-11-14, pending adoption here; not yet eligible	Douglas County (FEMA plan 108531), pending adoption here	2022-11-14 by FEMA; not yet adopted here	2027-11-13 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Superior city	City	Expired on 2026-09-26	City of Superior and University of Wisconsin-Superior (FEMA plan 106955)	2021-09-27	2026-09-26	-4	FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Superior village	Village	Plan 108531 approved 2022-11-14, pending adoption here; not yet eligible	Douglas County (FEMA plan 108531), pending adoption here	2022-11-14 by FEMA; not yet adopted here	2027-11-13 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Brule town	Town	Approved, expires 2027-11-13	Douglas County (FEMA plan 108531)	2022-11-14	2027-11-13	409		this jurisdiction approved 2023-06-09
University of Wisconsin-Superior	College/University	Expired on 2026-09-26	City of Superior and University of Wisconsin-Superior (FEMA plan 106955)	2021-09-27	2026-09-26	-4		

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	Cold Wave	Relatively High	Relatively High	\$3,510	\$54	\$12,219,614	\$12,223,178	27		Includes 1 Frost/Freeze record (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
2	Inland Flooding	Relatively Low	Relatively Low	\$10,495,958	\$57	\$6,939	\$10,502,955	24		
3	Heat Wave	Relatively Low	Relatively Low	\$1,015	under \$1	\$680,155	\$681,171	2		
4	Lightning	Relatively Moderate	Relatively Moderate	\$28,549	n/a	\$582,597	\$611,146	7		
5	Tornado	Relatively Low	Relatively Low	\$208,940	\$102	\$262,413	\$471,455	5		
6	Strong Wind	Relatively Low	Relatively Low	\$69,253	\$2,674	\$230,228	\$302,155	134		Includes 4 Strong Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
7	Hail	Relatively Low	Relatively Low	\$218,248	\$1,963	\$14,219	\$234,430	96		
8	Winter Weather	Relatively Low	Relatively Moderate	\$23,179	\$91	\$61,885	\$85,156	155		
9	Ice Storm	Very Low	Relatively Low	\$23,282	n/a	\$4,270	\$27,552	8		

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
10	Wildfire	Very Low	Very Low	\$25,464	\$6	\$1,975	\$27,445	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
11	Earthquake	Very Low	Very Low	\$2,020	n/a	\$593	\$2,613			Storm Events does not record earthquakes.
12	Coastal Flooding	Very Low	Very Low	\$1,370	n/a	\$104	\$1,474	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Drought	Very Low	Very Low	n/a	\$937	n/a	\$937	41		
14	Landslide	Very Low	Very Low	\$21	n/a	\$60	\$81	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Hurricane	Not Applicable	Not Applicable					0	NRI rates hurricane Not Applicable for this county, and no counted federal declaration for this county names it (EM-3249-WI 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	Insufficient Data	Insufficient Data	n/a	n/a	n/a	n/a	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

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

Local data needed: state and local wildfire, landslide and tsunami 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 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.

Coastal Flooding and 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 211 (Very Low, 5.2); tract 208 (Very Low, 3.5); tract 205 (Very Low, 3.2)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 303.01 (Very Low, 73.1); tract 302 (Very Low, 70.3); tract 301.01 (Very Low, 65.3)
Tornado	tract 303.01 (Relatively Moderate, 56.2); tract 302 (Relatively Low, 46.5); tract 211 (Relatively Low, 43.8)
Tsunami	no tract has a National Risk Index rating for this hazard
Wildfire	tract 303.01 (Relatively Low, 87.0); tract 303.02 (Relatively Low, 82.0); tract 302 (Relatively Low, 75.7)

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 211 is Census Tract 211). 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
Coastal Flood, Storm Surge/ Tide	none in data (flood depth: FIRM)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	26 records, 1996 to 2026 (26 zone-level)	1 day to 4 days (median 2 days); 24 with a recorded value	4 consecutive days, 2014-01-04 to 2014-01-07, zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	1 record, 2011 (1 zone-level)		No crop damage reported in 1 record.		Countywide (zone-level records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Drought	U.S. Drought Monitor scale (D0 to D4)	41 records, 2006 to 2026 (41 zone-level)	15 days to 226 days (median 113 days); 11 with a recorded value	226 days (about 7.4 months), 2006-07-18 to 2007-02-28, a run of 8 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)	107 records, 1964 to 2026	0.75 in to 4 in (median 1 in); 107 with a recorded value	4 in hail, 2000-08-14	Hail, 1995-07-24, \$10,000 property; crops not recorded (1995 dollars)	Event records naming jurisdictions in the plan: Superior city (17 records), Superior village (17 records), Solon Springs village (11 records), Brule town (4 records), Lake Nebagamon village (4 records), Poplar village (3 records), Oliver village (2 records).	
Excessive Heat, Heat	heat index (in event narratives)	2 records, 2011 to 2016 (2 zone-level)	1 day to 5 days (median 3 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)	8 records, 1999 to 2026 (8 zone-level)		No damage reported in 8 records.		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	24 records, 1996 to 2023 (2 zone-level)		Flood, 2012-06-20, \$21,000,000 property; \$0 crops (2012 dollars)		Event records naming jurisdictions in the plan: Oliver village (2 records), Solon Springs village (1 record). Zone-level records (2) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	0					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	7 records, 1996 to 2017		Lightning, 2011-07-17, \$100,000 property; \$100,000 crops (2011 dollars)		Event records naming jurisdictions in the plan: Superior city (4 records), Superior village (4 records), Solon Springs village (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)	4 records, 1999 to 2018 (4 zone-level)	40 kt (46 mph) to 46 kt (53 mph) (median 40 kt (46 mph)); 3 with a recorded value	46 kt (53 mph) measured gust, Strong Wind, 2018-10-09; NWS zone WIZ001		Countywide (zone-level records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Thunderstorm Wind	wind speed (kt and mph)	160 records, 1964 to 2026	50 kt (58 mph) to 74 kt (85 mph) (median 52 kt (60 mph)); 134 with a recorded value	74 kt (85 mph), measurement type not recorded, Thunderstorm Wind, 1986-06-21	Thunderstorm Wind, 2022-05-30, \$10,000 property; \$0 crops (2022 dollars)	Event records naming jurisdictions in the plan: Superior city (26 records), Superior village (26 records), Solon Springs village (22 records), Lake Nebagamon village (12 records), Brule town (5 records), Poplar village (5 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	12 records, 1968 to 2020	F/EF0 to F/EF2 (median F/EF1); 10 with a recorded value	F2 tornado, 1968-06-30, 11.4 mi path length (whole path, pre-1996), 300 yd wide, \$250,000 property; crops not recorded (1968 dollars)	Tornado, 1994-06-27, \$500,000 property; \$50,000 crops (1994 dollars)	Event records naming jurisdictions in the plan: Solon Springs village (1 record), Superior city (1 record), Superior village (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).
Tsunami	none (count and damage only)	0					
Wildfire	acres burned (local data)	0					
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	155 records, 1996 to 2026 (155 zone-level)		Heavy Snow, 2023-03-16, \$330,000 property; \$0 crops (2023 dollars); NWS zone WIZ001		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, lightning and tsunami.

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: 10 declarations covering 7 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Notes
2020-04-04	2020-01-20	DR-4520-WI	Major disaster	COVID-19 Pandemic	Non-natural, not counted	no Public Assistance recorded	
2020-03-13	2020-01-20	EM-3454-WI	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded	same incident as DR-4520
2018-08-10	2018-06-15	DR-4383-WI	Major disaster	Severe Storms, Straight-Line Winds, and Flooding	Inland Flooding (primary); also designated: Strong Wind	\$2,843,645.39	
2016-08-09	2016-07-11	DR-4276-WI	Major disaster	Severe Storms and Flooding	Inland Flooding	\$717,405.35	
2012-08-02	2012-06-19	DR-4076-WI	Major disaster	Severe Storms and Flooding	Inland Flooding	\$7,332,339.32	
2005-09-13	2005-08-29	EM-3249-WI	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded	
2001-05-11	2001-04-10	DR-1369-WI	Major disaster	Flooding, Severe Storms and Tornadoes	Inland Flooding (primary); also designated: Tornado, Winter Weather	\$950,503.80	
1999-08-16	1999-07-04	DR-1284-WI	Major disaster	Wi-Flood-07/20/99	Inland Flooding	\$878,476.48	
1976-06-17	1976-06-17	EM-3014-WI	Emergency	Drought	Drought	no Public Assistance recorded	
1972-09-10	1972-09-10	DR-352-WI	Major disaster	Heavy Rains & Flooding	Inland Flooding	no Public Assistance recorded	

School districts and special districts in this county: \$4,762,731.67 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan participants in this county. They have no row of their own in the jurisdiction table, so their total is listed here. These dollars are already included in the county PA column of the declarations table (the FEMA record places each applicant in this county), so this line is not added to it.

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.

Public Assistance not placed in any Wisconsin county: 1 row, \$87,788.41; listed on the Wisconsin 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
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	27	4	1	5	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record.
Drought	41	11	3	14	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	107	11	1	12	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	8	3	0	3	0	0	1996 to 2026-06-30	
Inland Flooding	24	1	0	1	6	0	1996 to 2026-06-30	
Landslide	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	7	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	164	17	4	21	1	0	1955 to 2026-06-30	Includes 4 Strong Wind records.
Tornado	12	0	0	0	1	0	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
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	155	25	8	34	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
2023-03-16	Heavy Snow		\$330,000 property; \$0 crops (zone total, 2023 dollars)	0, 0	NWS zone WIZ001 (DOUGLAS), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2018-10-09	Strong Wind	46 kt (53 mph) measured gust	\$25,000 property; \$0 crops (zone total, 2018 dollars)	0, 0	NWS zone WIZ001 (DOUGLAS), zone-level		B1-c worst recorded: High Wind and Strong Wind
2016-12-18	Cold/Wind Chill		damage not reported	2, 0	NWS zone WIZ001 (DOUGLAS), zone-level		deaths or injuries recorded
2014-01-04	Extreme Cold/ Wind Chill		damage not reported	0, 0	NWS zone WIZ001 (DOUGLAS), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2012-06-20	Flood		\$21,000,000 property; \$0 crops (2012 dollars)	0, 0	ITASCA to EAST END		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2011-07-17	Lightning		\$100,000 property; \$100,000 crops (2011 dollars)	0, 0	SOLON SPRINGS		B1-c worst recorded: Lightning
2011-07-16	Heat		\$0 property; \$0 crops (zone total, 2011 dollars)	0, 0	NWS zone WIZ001 (DOUGLAS), zone-level		B1-c worst recorded: Excessive Heat, Heat
2006-07-18	Drought		damage not reported	0, 0	NWS zone WIZ001 (DOUGLAS), zone-level		B1-c worst recorded: Drought
2000-08-14	Hail	4 in	damage not reported	0, 0	SOLON SPRINGS		B1-c worst recorded: Hail
1994-06-27	Tornado	F1, 4 mi path length (whole path, pre-1996), 250 yd wide	\$500,000 property; \$50,000 crops (1994 dollars)	0, 0	Wascott		B1-c most damaging: Tornado
1986-06-21	Thunderstorm Wind	74 kt (85 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind
1968-06-30	Tornado	F2, 11.4 mi path length (whole path, pre-1996), 300 yd wide	\$250,000 property; crops not recorded (1968 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (547 rows).

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

1 Fire Management declaration (1980-04-24 to 1980-04-24) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

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

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

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

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Coastal Flooding	0.0125	events per year at a location (modeled)	about 0.012 per year at a given location in the county		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
Cold Wave	11.2	event-days per year	about 11.2 days per year	Likely	Storm Events event-days in 15 of 30 years, 1996 to 2025 (50%)	212	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	10.2	event-days per year	about 10.2 days per year	Likely	Storm Events event-days in 12 of 30 years, 1996 to 2025 (40%)	336	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000078	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0078%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	1.75	events per year	about 1.75 per year	Highly likely	FEMA annualized frequency (modeled)	66.7 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	1.11	event-days per year	about 1.11 days per year	Possible	Storm Events event-days in 2 of 30 years, 1996 to 2025 (6.67%)	18	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	0.16	event-days per year	about 0.16 days per year	Likely	Storm Events event-days in 6 of 30 years, 1996 to 2025 (20%)	10	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.536	event-days per year	about 0.536 days per year	Likely	Storm Events event-days in 13 of 30 years, 1996 to 2025 (43.3%)	15	1996 to 2023 (28 years)	see B1-f	
Landslide	0.277	events per year (modeled)	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	29.5	days per year with a strike	about 29.5 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	1.18	events per year	about 1.18 per year	Highly likely	FEMA annualized frequency (modeled)	41	1986 to 2023 (38 years)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Tornado	0.195	events per year	about 1 in 5 years	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)			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
Wildfire	0.000196	annual probability at a location	chance a given location in the county burns in a year: 0.0196%		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	25.2	event-days per year	about 25.2 days per year	Highly likely	Storm Events event- days in 30 of 30 years, 1996 to 2025 (100%)	479	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	48	30	1.6
Hail	2.00 in+	1996 to 2025	7	30	0.233
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	120	30	4
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	9	30	0.3
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	4	30	0.133
Tornado	EF2-3	1996 to 2025	1	30	0.0333
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Coastal Flooding	8 of 14	70.6	72.2	77.4	Relatively Low 1, Very Low 7, No Rating 6
Cold Wave	14 of 14	94.2	98.8	99.5	Very High 12, Relatively High 2
Drought	5 of 14	70.2	71.9	77.7	Very Low 5, No Rating 9
Earthquake	9 of 14	0.4	1.9	5.2	Very Low 9, No Rating 5
Hail	14 of 14	46.9	63.8	79.5	Relatively Moderate 5, Relatively Low 9
Heat Wave	14 of 14	35.0	61.5	72.4	Relatively Moderate 8, Relatively Low 6
Hurricane	0 of 14				Not Applicable 14
Ice Storm	14 of 14	9.0	24.8	43.4	Relatively Low 4, Very Low 10
Inland Flooding	14 of 14	7.8	61.8	96.5	Very High 1, Relatively Moderate 9, Relatively Low 2, Very Low 2
Landslide	14 of 14	8.8	21.2	73.1	Very Low 14
Lightning	14 of 14	71.1	91.2	96.1	Very High 1, Relatively High 10, Relatively Moderate 3

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	14 of 14	36.8	59.9	73.1	Relatively Moderate 8, Relatively Low 6
Tornado	14 of 14	27.0	39.5	56.2	Relatively Moderate 1, Relatively Low 11, Very Low 2
Tsunami	0 of 14				Insufficient Data 14
Wildfire	14 of 14	18.5	46.2	87.0	Relatively Low 4, Very Low 10
Winter Weather	14 of 14	53.2	73.6	80.9	Relatively High 2, Relatively Moderate 12

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

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

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

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

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
Douglas County	County	Approved, expires 2027-11-13	FMA RL 0, SRL 0; any 0	\$2,885.20	0 total; 0 since its plan	
Lake Nebagamom village	Village	Approved, expires 2027-11-13	FMA RL 0, SRL 0; any 0	\$133,390.68	16 total; 1 since its plan	
Oliver village	Village	Approved, expires 2027-11-13	FMA RL 0, SRL 0; any 0	\$5,323.66	4 total; 2 since its plan	
Poplar village	Village	Approved, expires 2027-11-13	FMA RL 0, SRL 0; any 0	\$148,346.63	8 total; 0 since its plan	
Solon Springs village	Village	Plan 108531 approved 2022-11-14, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$39,080.31	36 total; no approved plan	
Superior city	City	Expired on 2026-09-26	FMA RL 0, SRL 0; any 0	\$2,506,445.83	49 total; 2 since its plan	
Superior village	Village	Plan 108531 approved 2022-11-14, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$24,443.30	49 total; no approved plan	
Brule town	Town	Approved, expires 2027-11-13		\$196,696.92	9 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.

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

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

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-11-14 <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
Coastal Flooding	\$552,167,277	n/a	519	\$1,370	n/a	\$104	0.000248%				
Cold Wave	\$11,877,252,329	\$10,988,697	44,212	\$3,510	\$54	\$12,219,614	under 0.0001%		\$0		
Drought	n/a	\$2,551,667	n/a	n/a	\$937	n/a	0.0367% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$20,507,192,265	n/a	44,295	\$2,020	n/a	\$593	under 0.0001%				
Hail	\$11,877,252,329	\$10,988,697	44,212	\$218,248	\$1,963	\$14,219	0.00184%	\$0			
Heat Wave	\$11,877,252,329	\$10,988,697	44,212	\$1,015	under \$1	\$680,155	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$11,868,265,771	n/a	44,173	\$23,282	n/a	\$4,270	0.000196%		\$0		
Inland Flooding	\$11,857,181,700	\$146,420	411	\$10,495,958	\$57	\$6,939	n/a (see note)	\$150,000			NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$120,285,752	n/a	338	\$21	n/a	\$60	under 0.0001%				
Lightning	\$11,877,252,329	n/a	44,212	\$28,549	n/a	\$582,597	0.00024%				
Strong Wind	\$11,877,252,329	\$10,988,697	44,212	\$69,253	\$2,674	\$230,228	0.000583%	\$10,000			
Tornado	\$11,877,252,329	\$10,988,697	44,212	\$208,940	\$102	\$262,413	0.00176%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-11-14 <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
Tsunami	n/a	n/a	n/a	n/a	n/a	n/a					NRI publishes no building exposure for this county
Wildfire	\$1,602,941,801	\$3,386,897	7,794	\$25,464	\$6	\$1,975	0.00159%				
Winter Weather	\$11,877,252,329	\$10,988,697	44,212	\$23,179	\$91	\$61,885	0.000195%		\$330,000		

Totals since 2022-11-14 (Storm Events through 2026-06-30): 29 county-coded records, 29 with a damage value recorded (including \$0), \$160,000; 43 zone-level records, 43 with a damage value recorded (including \$0), \$330,000 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	44,212
Building value (total, not at risk)	\$11,877,252,329
Agriculture value (total, not at risk)	\$10,988,697
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$11,106,693
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)	\$14,065,054
Social vulnerability rating	Relatively Low
Community resilience rating	Relatively Moderate
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

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

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

Repeat-flood properties: county and state-level rows

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
Statewide, no county in FEMA's file	0	0	2	0	2	0	0

The statewide row counts properties FEMA's file gives with no county in this state; they are listed for reference and are not in this county's counts.

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>
Douglas County	550538	0	0	0	0	0	0	0
Lake Nebagamon village	550112	0	0	0	0	0	0	0
Oliver village	550113	0	0	0	0	0	0	0
Poplar village	550114	0	0	0	0	0	0	0
Solon Springs village	550115	0	0	0	0	0	0	0
Superior city	550116	0	0	0	0	0	0	0
Superior village	550117	0	0	0	0	0	0	0

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

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

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

Sources: 1, 4

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

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

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

Exact counts; no count suppression.

Sources

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

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3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), https://www2.census.gov/geo/docs/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