

Shawano County, WI

Risk-assessment baseline packet

County FIPS: 55115 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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Summary

Plan status as of 2026-09-30: Approved, expires 2030-11-16. Plan: Menominee County (Shawano County) 2025 Hazard Mitigation Plan (FEMA plan 111158), approved 2025-11-17.

Since the plan was approved on 2025-11-17: no new hazard declaration and 13 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 (\$10,685,200 a year), Inland Flooding (\$10,167,303) and Tornado (\$2,504,753).

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; 55115 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 2030-11-16	Plan:	Menominee County (Shawano County) 2025 Hazard Mitigation Plan (FEMA plan 111158)
Approved:	2025-11-17	Days to expiry:	1,508

What changed since your last plan (approved 2025-11-17)

New federal declarations:	none	Storm Events records since approval:	13 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
Shawano County	County	Approved, expires 2030-11-16	Menominee County (Shawano County) 2025 Hazard Mitigation Plan (FEMA plan 111158)	2025-11-17	2030-11-16	1,508		this jurisdiction approved 2025-12-10
Bonduel village	Village	Approved, expires 2030-11-16	Menominee County (Shawano County) 2025 Hazard Mitigation Plan (FEMA plan 111158)	2025-11-17	2030-11-16	1,508		
Eland village	Village	Plan 111158 approved 2025-11-17, pending adoption here; not yet eligible	Menominee County (Shawano County) 2025 Hazard Mitigation Plan (FEMA plan 111158), pending adoption here	2025-11-17 by FEMA; not yet adopted here	2030-11-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Gresham village	Village	Approved, expires 2030-11-16	Menominee County (Shawano County) 2025 Hazard Mitigation Plan (FEMA plan 111158)	2025-11-17	2030-11-16	1,508		
Marion city	City	Expired on 2026-09-26	Waupaca County (FEMA plan 107309)	2021-09-27	2026-09-26	-4		
Pulaski village	Village	Plan 112031 approved 2026-07-01, pending adoption here; not yet eligible	Brown County 2026 Hazard Mitigation Plan (FEMA plan 112031), pending adoption here	2026-07-01 by FEMA; not yet adopted here	2031-06-30 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Shawano city	City	Plan 111158 approved 2025-11-17, pending adoption here; not yet eligible	Menominee County (Shawano County) 2025 Hazard Mitigation Plan (FEMA plan 111158), pending adoption here	2025-11-17 by FEMA; not yet adopted here	2030-11-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Tigerton village	Village	Approved, expires 2030-11-16	Menominee County (Shawano County) 2025 Hazard Mitigation Plan (FEMA plan 111158)	2025-11-17	2030-11-16	1,508		
Wittenberg village	Village	Approved, expires 2030-11-16	Menominee County (Shawano County) 2025 Hazard Mitigation Plan (FEMA plan 111158)	2025-11-17	2030-11-16	1,508		
Birnamwood town	Town	Plan 111158 approved 2025-11-17, pending adoption here; not yet eligible	Menominee County (Shawano County) 2025 Hazard Mitigation Plan (FEMA plan 111158), pending adoption here	2025-11-17 by FEMA; not yet adopted here	2030-11-16 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

						Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Jurisdiction	Type	Status	Plan	Approved	Expires			
Washington town	Town	Approved, expires 2030-11-16	Menominee County (Shawano County) 2025 Hazard Mitigation Plan (FEMA plan 111158)	2025-11-17	2030-11-16	1,508		
Wescott town	Town	Approved, expires 2030-11-16	Menominee County (Shawano County) 2025 Hazard Mitigation Plan (FEMA plan 111158)	2025-11-17	2030-11-16	1,508		

Plan 111158 covers 2 other participants: Menominee County; Menominee town (Menominee County).

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

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Cold Wave	Relatively High	Relatively High	\$31	\$469,652	\$10,215,517	\$10,685,200	15	Includes 2 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
2	Inland Flooding	Relatively Low	Relatively Low	\$10,146,567	\$20,451	\$286	\$10,167,303	11	
3	Tornado	Relatively Moderate	Relatively Moderate	\$1,597,931	\$4,234	\$902,588	\$2,504,753	18	
4	Strong Wind	Relatively Moderate	Relatively Moderate	\$199,701	\$272,037	\$634,474	\$1,106,212	149	Includes 4 High Wind and 14 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
5	Hail	Relatively Moderate	Relatively Moderate	\$611,022	\$42,821	\$81,603	\$735,446	57	
6	Lightning	Relatively Moderate	Relatively Moderate	\$48,574	n/a	\$676,030	\$724,604	6	
7	Heat Wave	Relatively Low	Relatively Low	\$44	\$1	\$283,582	\$283,628	4	
8	Ice Storm	Relatively Low	Relatively Low	\$21,535	n/a	\$30,701	\$52,236	8	
9	Winter Weather	Relatively Low	Relatively Low	\$4,497	\$2,203	\$36,252	\$42,952	92	
10	Earthquake	Very Low	Very Low	\$12,313	n/a	\$2,869	\$15,182		Storm Events does not record earthquakes.
11	Wildfire	Very Low	Very Low	\$9,233	\$18	\$649	\$9,901	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Landslide	Very Low	Very Low	\$304	n/a	\$2,856	\$3,160	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
13	Drought	No Rating	No Expected Annual Losses	n/a	\$0	n/a	\$0	20	
14	Hurricane	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	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 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, tsunامي 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 1005 (Very Low, 10.8); tract 1004 (Very Low, 9.7); tract 1010 (Very Low, 9.6)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 1007 (Relatively Low, 91.7); tract 1006 (Relatively Low, 91.5); tract 1008 (Relatively Low, 91.4)
Tornado	tract 1005 (Relatively High, 84.1); tract 1004 (Relatively High, 82.5); tract 1008 (Relatively High, 82.2)
Wildfire	tract 1002 (Relatively Low, 70.2); tract 1003 (Relatively Low, 70.0); tract 1006 (Relatively Low, 69.8)

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 1005 is Census Tract 1005). 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	13 records, 1996 to 2026 (13 zone-level)	1 day to 7 days (median 2 days); 11 with a recorded value	7 consecutive days, 1996-01-30 to 1996-02-05, zone-level		Countywide (zone-level records).	Cold/Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	2 records, 2000 (2 zone-level)		No crop damage reported in 2 records.		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	20 records, 1999 to 2026 (20 zone-level)	7 days to 211 days (median 31 days); 8 with a recorded value	211 days (about 6.9 months), 2008-09-30 to 2009-04-28, 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)	68 records, 1973 to 2026	0.75 in to 2.5 in (median 1 in); 68 with a recorded value	2.5 in hail, 2015-08-02; same size also recorded on 2003-04-15		Event records naming jurisdictions in the plan: Shawano city (13 records), Tigerton village (4 records), Birnamwood town (3 records), Bonduel village (3 records), Eland village (1 record), Gresham village (1 record), Wittenberg village (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	4 records, 1999 to 2026 (4 zone-level)	1 day to 9 days (median 3 days); 4 with a recorded value	9 consecutive days, 1999-07-23 to 1999-07-31, 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, 1996 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)	11 records, 1996 to 2026 (5 zone-level)		Flood, 1996-06-16, property not reported; \$26,000,000 crops (1996 dollars); NWS zone WIZ031		Event records naming jurisdictions in the plan: Eland village (2 records), Birnamwood town (1 record), Wittenberg village (1 record). Zone-level records (5) 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					

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	6 records, 1996 to 2011		Lightning, 2011-08-23, \$20,000 property; \$0 crops (2011 dollars)		Event records naming jurisdictions in the plan: Bonduel village (1 record), Shawano city (1 record), Wittenberg 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)	18 records, 1996 to 2019 (18 zone-level)	39 kt (45 mph) to 55 kt (63 mph) (median 43.5 kt (50 mph)); 4 with a recorded value	55 kt (63 mph) estimated, High Wind, 2001-04-07; NWS zone WIZ031	High Wind, 1998-11-10, \$10,000 property; crops not reported (zone total, 1998 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	174 records, 1964 to 2026	50 kt (58 mph) to 83 kt (96 mph) (median 52 kt (60 mph)); 123 with a recorded value	83 kt (96 mph) estimated gust, Thunderstorm Wind, 2013-08-21; same speed and measurement basis also recorded on 2010-07-14	Thunderstorm Wind, 1997-07-16, \$300,000 property; \$1,000 crops (1997 dollars)	Event records naming jurisdictions in the plan: Shawano city (28 records), Wittenberg village (14 records), Tigerton village (9 records), Birnamwood town (8 records), Gresham village (6 records), Bonduel village (5 records), Eland village (2 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	28 records, 1964 to 2025	F/EF0 to F/EF3 (median F/EF1); 28 with a recorded value	F3 tornado, 1984-04-27, 17 mi path length (whole path, pre-1996), 43 yd wide, \$2,500,000 property; crops not recorded (1984 dollars); same rating, casualties and property damage also recorded on 1969-06-26		Event records naming jurisdictions in the plan: Birnamwood town (1 record), Gresham village (1 record), Shawano city (1 record), Wittenberg 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).
Wildfire	acres burned (local data)	0					
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	92 records, 1996 to 2026 (92 zone-level)		No damage reported in 92 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: 8 declarations covering 5 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
2019-08-27	2019-07-18	DR-4459-WI	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding (primary); also designated: Strong Wind, Tornado	\$10,759.61	
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	
2004-06-18	2004-05-07	DR-1526-WI	Major disaster	Severe Storms and Flooding	Inland Flooding	PA not declared for this county	
2002-09-10	2002-09-02	DR-1432-WI	Major disaster	Severe Storms, Tornadoes and Flooding	Tornado (primary); also designated: Inland Flooding	PA not declared for this county	
1993-07-02	1993-06-07	DR-994-WI	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	no Public Assistance recorded	
1976-06-17	1976-06-17	EM-3014-WI	Emergency	Drought	Drought	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.

Public Assistance filed under this county for declarations that do not list it: 1 row, \$9,704.12

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-1944-WI	2010-10-21	Severe Storms and Flooding	Franzen, Town of	\$9,704.12

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 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
Cold Wave	15	1	1	2	0	0	1996 to 2026-06-30	Includes 2 Frost/Freeze records.
Drought	20	3	0	5	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	68	1	4	13	0	0	1955 to 2026-06-30	
Heat Wave	4	1	0	2	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	1	1	2	0	0	1996 to 2026-06-30	
Inland Flooding	11	2	1	3	4	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	6	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	192	2	4	21	1	0	1955 to 2026-06-30	Includes 4 High Wind and 14 Strong Wind records.
Tornado	28	0	2	5	3	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	92	2	3	17	0	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	Why listed
2015-08-02	Hail	2.5 in	\$0 property; \$0 crops (2015 dollars)	0, 0	KRAKOW	B1-c worst recorded: Hail
2013-08-21	Thunderstorm Wind	83 kt (96 mph) estimated gust	\$75,000 property; crops not reported (2013 dollars)	0, 0	MORGAN to GRESHAM	B1-c worst recorded: Thunderstorm Wind
2011-08-23	Lightning		\$20,000 property; \$0 crops (2011 dollars)	0, 0	HOFA PARK	B1-c worst recorded: Lightning
2010-07-20	Thunderstorm Wind	52 kt (60 mph) estimated gust	\$0 property; \$0 crops (2010 dollars)	0, 1	BELLE PLAINE	deaths or injuries recorded
2008-09-30	Drought		damage not reported	0, 0	NWS zone WIZ031 (SHAWANO), zone-level	B1-c worst recorded: Drought
2001-04-07	High Wind	55 kt (63 mph) estimated	damage not reported	0, 0	NWS zone WIZ031 (SHAWANO), zone-level	B1-c worst recorded: High Wind and Strong Wind
1999-07-23	Heat		damage not reported	0, 0	NWS zone WIZ031 (SHAWANO), zone-level	B1-c worst recorded: Excessive Heat, Heat
1998-03-29	Lightning		damage not reported	0, 1	SHAWANO	deaths or injuries recorded
1997-07-16	Thunderstorm Wind	speed not recorded	\$300,000 property; \$1,000 crops (1997 dollars)	0, 1	WITTENBERG	deaths or injuries recorded
1996-06-16	Flood		property not reported; \$26,000,000 crops (zone total, 1996 dollars)	0, 0	NWS zone WIZ031 (SHAWANO), zone-level	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1996-01-30	Cold/Wind Chill		damage not reported	0, 0	NWS zone WIZ031 (SHAWANO), zone-level	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1984-04-27	Tornado	F3, 17 mi path length (whole path, pre-1996), 43 yd wide	\$2,500,000 property; crops not recorded (1984 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" (444 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
Cold Wave	6.74	event-days per year	about 6.74 days per year	Likely	Storm Events event-days in 9 of 30 years, 1996 to 2025 (30%)	128	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	0	event-days per year	none modeled	Likely	Storm Events event-days in 7 of 30 years, 1996 to 2025 (23.3%)	0	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI models no drought event-days here (2000 to 2025, 25.25 years; D3 and D4 only); Storm Events has a record in 7 of 30 years. The descriptor comes from Storm Events, which counts D2 drought that NRI leaves out.
Earthquake	0.00035	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.035%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	2.16	events per year	about 2.16 per year	Highly likely	FEMA annualized frequency (modeled)	82.2 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	1.42	event-days per year	about 1.42 days per year	Likely	Storm Events event-days in 3 of 30 years, 1996 to 2025 (10%)	20	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.00402	events per year	about 1 in 249 years	Unlikely	FEMA annualized frequency (modeled)	2	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	0.194	event-days per year	about 0.194 days per year	Likely	Storm Events event-days in 7 of 30 years, 1996 to 2025 (23.3%)	14	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.286	event-days per year	about 0.286 days per year	Likely	Storm Events event-days in 9 of 30 years, 1996 to 2025 (30%)	8	1996 to 2023 (28 years)	see B1-f	
Landslide	0.201	events per year (modeled)	about 1 in 5 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	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
Lightning	31.1	days per year with a strike	about 31.1 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	2.24	events per year	about 2.24 per year	Highly likely	FEMA annualized frequency (modeled)	86	1986 to 2023 (38 years)	countywide	
Tornado	0.392	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.0000324	annual probability at a location	chance a given location in the county burns in a year: 0.00324%		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	16.2	event-days per year	about 16.2 days per year	Highly likely	Storm Events event-days in 29 of 30 years, 1996 to 2025 (96.7%)	307	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	36	30	1.2
Hail	2.00 in+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	99	30	3.3
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	17	30	0.567
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	13	30	0.433
Tornado	EF0-1	1996 to 2025	18	30	0.6
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Cold Wave	11 of 11	96.3	98.9	99.4	Very High 11
Drought	0 of 11				No Rating 11
Earthquake	11 of 11	4.6	7.6	10.8	Very Low 11
Hail	11 of 11	79.2	87.3	89.2	Relatively High 2, Relatively Moderate 9
Heat Wave	11 of 11	21.4	36.8	45.0	Relatively Low 11
Hurricane	0 of 11				No Rating 11
Ice Storm	11 of 11	36.2	51.3	56.2	Relatively Low 11
Inland Flooding	11 of 11	59.9	70.6	83.0	Relatively High 2, Relatively Moderate 9
Landslide	11 of 11	52.3	81.0	91.7	Relatively Low 6, Very Low 5
Lightning	11 of 11	87.0	95.5	97.3	Very High 5, Relatively High 6
Strong Wind	11 of 11	78.3	91.0	94.3	Relatively High 10, Relatively Moderate 1

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	11 of 11	64.9	78.9	84.1	Relatively High 8, Relatively Moderate 3
Wildfire	11 of 11	55.1	66.1	70.2	Relatively Low 3, Very Low 8
Winter Weather	11 of 11	46.9	60.6	66.0	Relatively Moderate 10, Relatively Low 1

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, 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.

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
Shawano County	County	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Bonduel village	Village	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	9 total; 0 since its plan	
Eland village	Village	Plan 111158 approved 2025-11-17, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	5 total; no approved plan	
Gresham village	Village	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	\$10,759.61	8 total; 0 since its plan	
Marion city	City	Expired on 2026-09-26	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Pulaski village	Village	Plan 112031 approved 2026-07-01, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; no approved plan	
Shawano city	City	Plan 111158 approved 2025-11-17, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	43 total; no approved plan	
Tigerton village	Village	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	13 total; 0 since its plan	
Wittenberg village	Village	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	18 total; 0 since its plan	
Birnamwood town	Town	Plan 111158 approved 2025-11-17, pending adoption here; not yet eligible		no Public Assistance recorded	13 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Washington town	Town	Approved, expires 2030-11-16		no Public Assistance recorded	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Wescott town	Town	Approved, expires 2030-11-16		no Public Assistance recorded	0 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).

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 2025-11-17 <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	\$13,388,017,028	\$322,457,909	40,839	\$31	\$469,652	\$10,215,517	under 0.0001%		\$0		
Drought	n/a	\$0	n/a	n/a	\$0	n/a			\$0		agriculture exposure is 0 in NRI
Earthquake	\$22,071,545,628	n/a	40,881	\$12,313	n/a	\$2,869	under 0.0001%				
Hail	\$13,388,017,028	\$322,457,909	40,839	\$611,022	\$42,821	\$81,603	0.00456%	\$0			
Heat Wave	\$13,388,017,028	\$322,457,909	40,839	\$44	\$1	\$283,582	under 0.0001%		\$0		
Hurricane	\$13,365,950,114	\$317,967,605	40,798	\$0	\$0	\$0	0%				
Ice Storm	\$13,388,017,028	n/a	40,839	\$21,535	n/a	\$30,701	0.000161%		\$0		
Inland Flooding	\$13,358,859,148	\$4,465,837	402	\$10,146,567	\$20,451	\$286	n/a (see note)	\$0			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	\$95,957,613	n/a	293	\$304	n/a	\$2,856	0.000317%				
Lightning	\$13,388,017,028	n/a	40,839	\$48,574	n/a	\$676,030	0.000363%				
Strong Wind	\$13,388,017,028	\$322,457,909	40,839	\$199,701	\$272,037	\$634,474	0.00149%	\$0			
Tornado	\$13,388,017,028	\$322,457,909	40,839	\$1,597,931	\$4,234	\$902,588	0.0119%				

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 2025-11-17 <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	\$3,510,300,519	\$69,818,584	11,721	\$9,233	\$18	\$649	0.000263%				
Winter Weather	\$13,388,017,028	\$322,457,909	40,839	\$4,497	\$2,203	\$36,252	under 0.0001%		\$0		

Totals since 2025-11-17 (Storm Events through 2026-06-30): 5 county-coded records, 5 with a damage value recorded (including \$0), \$0; 8 zone-level records, 8 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	40,839
Building value (total, not at risk)	\$13,388,017,028
Agriculture value (total, not at risk)	\$322,457,909
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$13,463,171
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)	\$12,867,406
Social vulnerability rating	Relatively Low
Community resilience rating	Relatively 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 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>
Shawano County	550412	0	0	0	0	0	0	0
Bonduel village	550414	0	0	0	0	0	0	0
Eland village	550417	0	0	0	0	0	0	0
Gresham village	550418	0	0	0	0	0	0	0
Marion city	550499	0	0	0	0	0	0	0
Pulaski village	550024	0	0	0	0	0	0	0
Shawano city	550421	0	0	0	0	0	0	0
Tigerton village	550422	0	0	0	0	0	0	0
Wittenberg village	550423	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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 2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
 3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
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 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)
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What this packet is and what the plan adds

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

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

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

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Cite this: Hazard Plain (2026). Shawano County, WI: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 55115). Automated baseline. <https://hazardplain.org/wi/55115/> Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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