

Winnebago County, WI

Risk-assessment baseline packet

Unit **County area 55139** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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

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Plan clock

Status	Approved, expires 2027-05-08	Plan	Winnebago County (FEMA plan 108189)
Approved	2022-05-09	Expires	2027-05-08
As of	2026-09-28	Days	222 days to expiry
Update underway	none in FEMA's plan tracker		

What changed since your last plan (approved 2022-05-09)

New federal declarations	DR-4923-WI (1 declaration row; 1 counted incident)	Storm Events records since approval	61 (data through 2026-06-30)
Repetitive loss now	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 12	Repeat-flood change	First release: no prior release to compare.

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

Plan status for every jurisdiction listed in this county: 23 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

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

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Plan clock

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Update underway	Notes
Winnebago County	County	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		
Appleton city	City	Approved, expires 2029-09-23	Outagamie County Hazard Mitigation Plan 2024 (FEMA plan 110142)	2024-09-24	2029-09-23	1,091		Also approved under plan 102339 (Calumet County, expires 2027-06-16); plan 108189 (Winnebago County, expires 2027-05-08). 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. member approved 2025-04-14
Fox Crossing village	Village	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-09-23
Menasha city	City	Approved, expires 2027-06-16	Calumet County (FEMA plan 102339)	2022-06-17	2027-06-16	261		Also approved under plan 108189 (Winnebago County, expires 2027-05-08). 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.
Neenah city	City	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-09-23

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Omro city	City	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-07-28
Oshkosh city	City	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		
Winneconne village	Village	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-07-28
Algoma town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-09-23
Black Wolf town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-09-23
Clayton town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		
Neenah town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		
Nekimi town	Town	Plan 108189 approved 2022-05-09, pending adoption here; not yet eligible	Winnebago County (FEMA plan 108189), pending adoption here	2022-05-09 by FEMA; not yet adopted here	2027-05-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Nepeuskun town	Town	Plan 108189 approved 2022-05-09, pending adoption here; not yet eligible	Winnebago County (FEMA plan 108189), pending adoption here	2022-05-09 by FEMA; not yet adopted here	2027-05-08 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Omro town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-09-23
Oshkosh town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		
Poygan town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-07-28
Rushford town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-07-28
Utica town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-09-23
Vinland town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-10-06
Winchester town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-09-23
Winneconne town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		
Wolf River town	Town	Approved, expires 2027-05-08	Winnebago County (FEMA plan 108189)	2022-05-09	2027-05-08	222		member approved 2022-09-23

Plan 108189 lists 1 other participant not on this page. Not covered by it yet: Horicon city (Dodge County; approvable pending adoption, not yet adopted).

SOURCE

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

Supports B1-a: hazards

Hazards NRI does not cover: check locally

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

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

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Relatively Moderate	Relatively Moderate	\$42,692,827	\$107,269	\$22,281	\$42,822,377	20		
2	Cold Wave	Relatively High	Relatively High	\$166	\$100	\$14,063,167	\$14,063,433	13		
3	Tornado	Relatively High	Relatively High	\$4,106,321	\$4,913	\$5,261,775	\$9,373,010	22		
4	Strong Wind	Relatively High	Relatively High	\$726,862	\$64,157	\$2,544,286	\$3,335,304	167		Includes 12 High Wind records and 20 Strong Wind records, event types the NRI definition of this hazard leaves out.
5	Hail	Relatively Moderate	Relatively High	\$2,495,778	\$49,976	\$349,440	\$2,895,194	112		
6	Heat Wave	Relatively Low	Relatively Low	\$219	\$1	\$1,367,691	\$1,367,910	13		
7	Lightning	Relatively High	Relatively High	\$79,374		\$909,319	\$988,693	9		
8	Winter Weather	Relatively Moderate	Relatively Moderate	\$10,825	\$1,029	\$205,882	\$217,736	84		
9	Earthquake	Very Low	Very Low	\$88,475		\$27,038	\$115,513			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
10	Ice Storm	Relatively Low	Relatively Low	\$2,847		\$96,448	\$99,295	3		
11	Wildfire	Very Low	Very Low	\$27,932	\$65	\$3,016	\$31,014	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
12	Drought	Very Low	Very Low		\$17,543		\$17,543	9		

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	EAL population equivalence statistical value of life and injury, \$13.7M per life, not property damage	EAL total (see note) modeled dollars per year	Storm Events records since 1996 count	Evidence for an omission NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
13	Hurricane	Very Low	Very Low	\$4,192	\$1,092	under \$1	\$5,284	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$33		\$125	\$157	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Avalanche	Not Applicable	Not Applicable					0	NRI rates avalanche Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Coastal Flooding	Not Applicable	Not Applicable					0	NRI rates coastal flooding Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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

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

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

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 45
Coastal Flooding	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 45
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	45 of 45

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	2 of 45
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	45 of 45
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	45 of 45
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	45 of 45
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	45 of 45
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	45 of 45
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.	45 of 45
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	34 of 45
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	45 of 45
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	45 of 45
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	45 of 45
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 45
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 45
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	34 of 45
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	45 of 45

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

Supports B1-c: extent

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

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	13, 1996 to 2026 (13 zone-level)	1 day to 7 days (median 2 days); 12 with a recorded value	7 consecutive days, 1996-01-30 to 1996-02-05, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	0					Temperature: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Drought	US Drought Monitor D-scale	9, 1999 to 2023 (9 zone-level)	7 days to 108 days (median 22 days); 5 with a recorded value	108 days (about 3.5 months), 2023-07-01 to 2023-10-16, a run of 4 consecutive Storm Events drought records, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	143, 1964 to 2026	0.75 in to 4.25 in (median 1 in); 143 with a recorded value	4.25 in hail, 2011-05-22	Hail, 2000-05-12, \$10,400,000 property; crops not reported (2000 dollars)	Event records naming member places: Oshkosh city (30 records), Oshkosh town (30 records), Menasha city (19 records), Winchester town (14 records), Neenah city (10 records), Neenah town (10 records), Omro city (5 records), Omro town (5 records), Appleton city (1 record).	
Excessive Heat, Heat	heat index (narratives)	13, 1998 to 2026 (13 zone-level)	1 day to 9 days (median 2 days); 7 with a recorded value	9 consecutive days, 1999-07-23 to 1999-07-31, 1 direct death, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required. Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.
Ice Storm	Sperry-Piltz (local data)	3, 1996 to 2013 (3 zone-level)		No damage reported in 3 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: in event narratives only; local data required.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	20, 1996 to 2026 (6 zone-level)		Flash Flood, 2008-06-12, \$18,600,000 property; \$4,500,000 crops (2008 dollars)		Event records naming member places: Oshkosh city (5 records), Oshkosh town (5 records), Menasha city (3 records), Appleton city (1 record), Neenah city (1 record), Neenah town (1 record), Omro city (1 record), Omro town (1 record), Winneconne town (1 record), Winneconne village (1 record). Zone-level records (6) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	9, 1997 to 2018		Lightning, 2012-05-03, \$750,000 property; \$0 crops (2012 dollars)		Event records naming member places: Oshkosh city (3 records), Oshkosh town (3 records), Neenah city (2 records), Neenah town (2 records), Menasha city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	32, 1996 to 2025 (32 zone-level)	39 kt (45 mph) to 63 kt (72 mph) (median 50 kt (58 mph)); 17 with a recorded value	63 kt (72 mph), measurement type not recorded, High Wind, 1998-11-10; NWS zone WIZ048 (WINNEBAGO), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	193, 1964 to 2026	43 kt (49 mph) to 87 kt (100 mph) (median 52 kt (60 mph)); 155 with a recorded value	87 kt (100 mph) estimated gust, Thunderstorm Wind, 2011-04-10		Event records naming member places: Oshkosh city (40 records), Oshkosh town (40 records), Neenah city (24 records), Neenah town (24 records), Omro city (14 records), Omro town (14 records), Menasha city (11 records), Winneconne town (8 records), Winneconne village (8 records), Winchester town (7 records); and 1 more member place (see the XLSX file).	
Tornado	Enhanced Fujita (F before Feb 2007)	31, 1959 to 2020	F/EF0 to F/EF4 (median F/EF0); 30 with a recorded value	F4 tornado, 1974-04-21, 13.5 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 200 yd wide, \$2,500,000 property; crops not recorded (1974 dollars), 35 direct injuries		Event records naming member places: Oshkosh city (4 records), Oshkosh town (4 records), Winchester town (4 records), Menasha city (2 records), Winneconne town (2 records), Winneconne village (2 records), Appleton city (1 record), Neenah city (1 record), Neenah town (1 record).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	0					Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	84, 1996 to 2026 (84 zone- level)		No damage reported in 84 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

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

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

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

SOURCES

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

Supports B1-d: previous occurrences

Declaration rows 11 Counted incidents 8

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2026-06-30	2026-04-13	DR-4923-WI	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding (primary); also designated: Tornado	PA not declared for this county	new since last plan; within last 5 years	
2020-04-04	2020-01-20	DR-4520-WI	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$207,533.92		
2020-03-13	2020-01-20	EM-3454-WI	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4520
2008-06-14	2008-06-05	DR-1768-WI	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	\$968,644.36		
2005-09-13	2005-08-29	EM-3249-WI	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	none found		
2004-06-18	2004-05-07	DR-1526-WI	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$625,751.21		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2001-05-11	2001-04-10	DR-1369-WI	Major disaster	FLOODING, SEVERE STORMS AND TORNADOES	Inland Flooding (primary); also designated: Tornado, Winter Weather	\$1,950,273.58		
1993-07-02	1993-06-07	DR-994-WI	Major disaster	SEVERE STORMS, TORNADOES & FLOODING	Inland Flooding; Tornado	PA not declared for this county		
1990-07-13	1990-06-22	DR-874-WI	Major disaster	SEVERE STORMS, TORNADOES & FLOODING	Inland Flooding; Tornado	PA not declared for this county		
1976-06-17	1976-06-17	EM-3014-WI	Emergency	DROUGHT	Drought	none found		
1974-04-26	1974-04-26	DR-431-WI	Major disaster	TORNADOES	Tornado	none found		

County Public Assistance: applicants the FEMA record places in this county, including any state agencies FEMA files there; statewide rows are listed on the state page; federal share obligated, nominal dollars. Dollars are nominal (as reported), labeled with the year; not adjusted for inflation.

SOURCES
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Public Assistance not placed in a county in this state: 1 row, \$87,788.41

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated	Why not placed
				<i>federal share obligated, nominal dollars</i>	
4383	2018-08-10	Merit Network, Inc.	Washtenaw County	\$87,788.41	county field is a county of another state and the applicant name does not identify a place in the declaring state

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

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

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records	Since plan approval	During plan review	Last 5 years	Declared incidents	Declared since approval	Period	Statement
	<i>full period</i>	<i>records</i>	<i>records</i>	<i>records</i>	<i>distinct incidents</i>	<i>distinct incidents</i>		
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	13	4	0	4	0	0	1996 to 2026-06-30	
Drought	9	4	0	4	1	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Hail	143	6	2	6	0	0	1955 to 2026-06-30	
Heat Wave	13	3	0	3	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	20	3	0	3	6	1	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	9	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	225	28	7	29	0	0	1955 to 2026-06-30	Includes 12 High Wind records and 20 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	31	0	0	0	6	1	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	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	84	13	2	15	1	0	1996 to 2026-06-30	

SOURCES
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2023-07-01	Drought		\$0 property; crops not reported, reported for the zone (2023 dollars)	0, 0	NWS zone WIZ048 (WINNEBAGO), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: Drought
2020-06-02	Thunderstorm Wind	50 kt (58 mph) estimated gust	\$0 property; \$0 crops (2020 dollars)	1, 0	LAKE BUTTE DES MORTS		deaths or injuries recorded

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2012-05-03	Lightning		\$750,000 property; \$0 crops (2012 dollars)	0, 0	FISK		B1-c worst recorded: Lightning
2011-05-22	Hail	4.25 in	\$5,000 property; crops not reported (2011 dollars)	0, 0	WINCHESTER		B1-c worst recorded: Hail
2011-04-10	Thunderstorm Wind	87 kt (100 mph) estimated gust	\$5,000,000 property; crops not reported (2011 dollars)	0, 0	NEENAH to MENASHA		B1-c worst recorded: Thunderstorm Wind
2008-06-12	Flash Flood		\$18,600,000 property; \$4,500,000 crops (2008 dollars)	0, 0	OSHKOSH to WINNEBAGO		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2003-11-12	Strong Wind	41 kt (47 mph) measured gust	damage not reported	2, 0	NWS zone WIZ048 (WINNEBAGO), zone-level: may include parts of neighboring counties		deaths or injuries recorded
1999-07-23	Heat		damage not reported	1, 0	NWS zone WIZ048 (WINNEBAGO), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
1998-11-10	High Wind	63 kt (72 mph), measurement type not recorded	\$115,000 property; crops not reported, reported for the zone (1998 dollars)	0, 0	NWS zone WIZ048 (WINNEBAGO), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
1996-01-30	Cold/Wind Chill		damage not reported	0, 0	NWS zone WIZ048 (WINNEBAGO), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1984-04-27	Tornado	F4, 12 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 60 yd wide	\$2,500,000 property; crops not recorded (1984 dollars)	1, 10	location not recorded		deaths or injuries recorded
1974-04-21	Tornado	F4, 13.5 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 200 yd wide	\$2,500,000 property; crops not recorded (1974 dollars)	0, 35	location not recorded		B1-c worst recorded: Tornado

The full list is in the **XLSX** file, sheet "**B1-d Storm Events history**" (550 rows).

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

SOURCES

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

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.

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

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

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
Avalanche		events per year					1994 to 2023 (30 years)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Coastal Flooding		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Cold Wave	5.74	event-days per year	about 5.74 days per year	Likely	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	109	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 5.74 cold wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 8 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together. Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	0.687	event-days per year	about 0.687 days per year	Likely	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	49	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000457	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.0457%			not shown	modeled	see B1-f	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.
Hail	2.78	events per year	about 2.78 per year	Highly likely	FEMA annualized frequency (modeled)	103.5 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	1.63	event-days per year	about 1.63 days per year	Likely	event-days in 7 of 30 years, 1996 to 2025 (23.3%)	24	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 1.63 heat wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 7 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.

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
Hurricane	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.
Ice Storm	0.274	event-days per year	about 0.274 days per year	Likely	event-days in 3 of 30 years, 1996 to 2025 (10%)	19	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.571	event-days per year	about 0.571 days per year	Likely	event-days in 11 of 30 years, 1996 to 2025 (36.7%)	16	1996 to 2023 (28 years)	see B1-f	
Landslide	0.0476	events per year (modeled)	about 1 in 21 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	34.2	days per year with a strike	about 34.2 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	2.96	events per year	about 2.96 per year	Highly likely	FEMA annualized frequency (modeled)	111	1986 to 2023 (38 years)	countywide	
Tornado	0.339	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	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.000302	annual probability at a location	chance a given location in the county burns in a year: 0.0302%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)
Winter Weather	15.6	event-days per year	about 15.6 days per year	Highly likely	event-days in 28 of 30 years, 1996 to 2025 (93.3%)	297	2005-11-12 to 2024-11-12 (19 years)	countywide	

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

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

Descriptor scale used in this packet (defined per unit)

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

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

Intensity bands: historical frequency (Storm Events)

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	53	30	1.77
Hail	2.00 in+	1996 to 2025	6	30	0.2
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	115	30	3.83
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	10	30	0.333
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	7	30	0.233

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Tornado	EF0-1	1996 to 2025	22	30	0.733
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

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

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	0 of 45				Not Applicable 45	
Coastal Flooding	0 of 45				Not Applicable 45	
Cold Wave	45 of 45	68.9	88.3	96.3	Very High 1, Relatively High 38, Relatively Moderate 6	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	2 of 45	81.5	85.4	89.2	Relatively Low 2, No Rating 43	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally.
Earthquake	45 of 45	1.4	9.0	38.8	Very Low 45	
Hail	45 of 45	64.7	82.6	92.9	Relatively High 9, Relatively Moderate 35, Relatively Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	45 of 45	13.7	37.7	61.5	Relatively Moderate 1, Relatively Low 42, Very Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	45 of 45	14.1	18.4	26.8	Very Low 45	
Ice Storm	45 of 45	9.0	25.1	44.8	Relatively Low 8, Very Low 37	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	45 of 45	16.6	58.4	97.6	Very High 1, Relatively High 10, Relatively Moderate 18, Relatively Low 16	
Landslide	34 of 45	9.0	31.8	75.0	Very Low 34, No Rating 11	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Lightning	45 of 45	36.9	66.3	87.8	Relatively High 6, Relatively Moderate 33, Relatively Low 6	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	45 of 45	58.3	83.5	93.9	Relatively High 26, Relatively Moderate 19	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	45 of 45	49.5	72.0	91.1	Relatively High 17, Relatively Moderate 27, Relatively Low 1	
Tsunami	0 of 45				Not Applicable 45	
Volcanic Activity	0 of 45				Not Applicable 45	
Wildfire	34 of 45	19.0	36.8	80.0	Relatively Low 9, Very Low 25, No Rating 11	
Winter Weather	45 of 45	40.2	62.1	78.9	Relatively High 1, Relatively Moderate 39, Relatively Low 5	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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

SOURCE

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

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat- flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Winnebago County	County	Approved, expires 2027-05-08	FMA RL 0, SRL 0; any 2	none found	0; 0	
Appleton city	City	Approved, expires 2029-09-23	FMA RL 0, SRL 1; any 1	none found	3; 1	Also approved under plan 102339 (Calumet County, expires 2027-06-16); plan 108189 (Winnebago County, expires 2027-05-08). 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. Whole community, including the part in Outagamie County; none of its repeat-flood properties are in this county.
Fox Crossing village	Village	Approved, expires 2027-05-08	FMA RL 0, SRL 0; any 0	\$10,707.23	0; 0	Includes \$10,707.23 for declarations not counted as hazard incidents (DR-4520-WI).
Menasha city	City	Approved, expires 2027-06-16	FMA RL 0, SRL 0; any 0	\$104,162.98	36; 1	Also approved under plan 108189 (Winnebago County, expires 2027-05-08). 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.
Neenah city	City	Approved, expires 2027-05-08	FMA RL 0, SRL 0; any 1	\$161,238.85	38; 4	

Member	Type	Plan status	Repetitive loss	Public Assistance matched	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>federal share obligated, nominal dollars</i>	<i>all years; since the member's plan</i>	
Omro city	City	Approved, expires 2027-05-08	FMA RL 0, SRL 0; any 0	\$70,065.60	20; 2	
Oshkosh city	City	Approved, expires 2027-05-08	FMA RL 0, SRL 0; any 9	\$1,422,459.54	82; 9	
Winneconne village	Village	Approved, expires 2027-05-08	FMA RL 0, SRL 0; any 0	\$108,846.78	11; 2	
Algoma town	Town	Approved, expires 2027-05-08		\$84,573.58	0; 0	No NFIP community ID on this member's plan row.
Black Wolf town	Town	Approved, expires 2027-05-08		\$14,797.25	0; 0	No NFIP community ID on this member's plan row.
Clayton town	Town	Approved, expires 2027-05-08		\$24,667.47	0; 0	No NFIP community ID on this member's plan row.
Neenah town	Town	Approved, expires 2027-05-08		\$2,757.33	38; 4	No NFIP community ID on this member's plan row.
Nekimi town	Town	Plan 108189 approved 2022-05-09, pending adoption here; not yet eligible		\$14,487.07	0; no approved plan	No NFIP community ID on this member's plan row.
Nepeuskun town	Town	Plan 108189 approved 2022-05-09, pending adoption here; not yet eligible		none found	0; no approved plan	No NFIP community ID on this member's plan row.
Omro town	Town	Approved, expires 2027-05-08		\$20,215.81	20; 2	No NFIP community ID on this member's plan row.
Oshkosh town	Town	Approved, expires 2027-05-08		\$43,364.86	82; 9	No NFIP community ID on this member's plan row.
Poygan town	Town	Approved, expires 2027-05-08		none found	1; 0	No NFIP community ID on this member's plan row.
Rushford town	Town	Approved, expires 2027-05-08		\$6,718.73	0; 0	No NFIP community ID on this member's plan row.
Utica town	Town	Approved, expires 2027-05-08		\$18,358.94	0; 0	No NFIP community ID on this member's plan row.
Vinland town	Town	Approved, expires 2027-05-08		\$10,218.73	0; 0	No NFIP community ID on this member's plan row.
Winchester town	Town	Approved, expires 2027-05-08		\$14,321.50	25; 2	No NFIP community ID on this member's plan row.
Winneconne town	Town	Approved, expires 2027-05-08		\$67,403.84	11; 2	No NFIP community ID on this member's plan row.
Wolf River town	Town	Approved, expires 2027-05-08		\$1,802.25	0; 0	No NFIP community ID on this member's plan row.

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

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

SOURCES

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

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

Local data required

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-05-09 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche											Not Applicable in NRI for this county
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$44,308,101,627	\$157,381,229	171,623	\$166	\$100	\$14,063,167	under 0.0001%		\$0		
Drought		\$7,077,096			\$17,543		0.248% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$77,265,765,735		171,730	\$88,475		\$27,038	0.000115%				
Hail	\$44,308,101,627	\$157,381,229	171,623	\$2,495,778	\$49,976	\$349,440	0.00563%	\$0			
Heat Wave	\$44,308,101,627	\$157,381,229	171,623	\$219	\$1	\$1,367,691	under 0.0001%		\$0		
Hurricane	\$44,308,101,627	\$157,381,229	171,623	\$4,192	\$1,092	under \$1	under 0.0001%				
Ice Storm	\$44,162,830,186		171,174	\$2,847		\$96,448	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-05-09 <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
Inland Flooding	\$44,202,021,083	\$10,424,058	4,238	\$42,692,827	\$107,269	\$22,281	n/a (see note)	\$0		none found (1 declaration)	NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. EAL as % of exposure: n/a.
Landslide	\$43,540,529		153	\$33		\$125	under 0.0001%				
Lightning	\$44,308,101,627		171,623	\$79,374		\$909,319	0.000179%				
Strong Wind	\$44,308,101,627	\$157,381,229	171,623	\$726,862	\$64,157	\$2,544,286	0.00164%	\$0	\$0		
Tornado	\$44,308,101,627	\$157,381,229	171,623	\$4,106,321	\$4,913	\$5,261,775	0.00927%			none found (1 declaration)	
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$1,799,842,645	\$26,189,849	9,191	\$27,932	\$65	\$3,016	0.00155%				
Winter Weather	\$44,308,101,627	\$157,381,229	171,623	\$10,825	\$1,029	\$205,882	under 0.0001%		\$0		

Totals since 2022-05-09 (Storm Events through 2026-06-30): 34 county-coded records, 34 with a damage value recorded (including \$0), \$0; 27 zone-level records, 27 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance on counted declarations none found (1 declaration, 0 with PA).

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

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

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

SOURCES

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

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

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

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

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

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

Supports B2-a: context

County context

Measure	Value
Population	171,623
Building value (total, not at risk)	\$44,308,101,627
Agriculture value (total, not at risk)	\$157,381,229
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$50,481,994
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)	\$24,850,467
Social vulnerability rating	Relatively Low
Community resilience rating	Very High
NRI version	December 2025

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

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

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	12	Severe repetitive loss, NFIP insurance definition	0

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

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

Repeat-flood properties: county and state-level rows

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	12	0	12	0	2
NEENAH, CITY OF	0	0	1	0	1	0	1
OSHKOSH, CITY OF	0	0	9	0	9	0	1
WINNEBAGO COUNTY *	0	0	2	0	2	0	0
State level, not in this county: county not reported	0	0	2	0	2	0	0

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

Member	NFIP community ID	RL, FMA properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties	Note
Winnebago County	550537	0	0	2	0	2	0	0	
Appleton city	555542	0	1	1	1	1	0	1	Whole community, including the part in Outagamie County; none of its repeat-flood properties are in this county.
Fox Crossing village	550638	0	0	0	0	0	0	0	
Menasha city	550510	0	0	0	0	0	0	0	
Neenah city	550509	0	0	1	0	1	0	1	
Omro city	550533	0	0	0	0	0	0	0	
Oshkosh city	550511	0	0	9	0	9	0	1	
Winneconne village	550512	0	0	0	0	0	0	0	

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

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

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

Occupancy group	RL, FMA properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties
single-family residential	0	0	10	0	10	0	2
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	0	2	0	2	0	0
not reported	0	0	0	0	0	0	0

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

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

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

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

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

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

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 12 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

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

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

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_WI_55139. Preview: automated baseline.