

Waukesha County, WI

Risk-assessment baseline packet

County FIPS: 55133 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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

Summary

Plan status as of 2026-09-30: Approved, expires 2027-08-24. Plan: Waukesha County (FEMA plan 108320), approved 2022-08-25.

Since the plan was approved on 2022-08-25: 2 new hazard declarations (2 incidents) and 168 NOAA Storm Events records; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$68,210,770 a year), Cold Wave (\$30,287,643) and Tornado (\$23,663,276).

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; 55133 is this area.

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

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

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

CFR: Code of Federal Regulations.

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

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

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Plan clock

Status:	Approved, expires 2027-08-24	Plan:	Waukesha County (FEMA plan 108320)
Approved:	2022-08-25	Days to expiry:	328
Update underway:	none recorded in FEMA's plan tracker		

What changed since your last plan (approved 2022-08-25)

New federal declarations:	2 new hazard declarations (2 incidents): DR-4892-WI (Severe Storms, Straight-Line Winds, Flooding, and Mudslides), DR-4923-WI (Severe Storms, Tornadoes, and Flooding)	Storm Events records since approval:	168 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 3, SRL 1 (44 CFR 77.2); any definition: 35	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: 40 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

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
Waukesha County	County	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		
Big Bend village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2023-06-09
Brookfield city	City	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-12-07
Butler village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-10-19
Chenequa village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2023-06-09
Delafield city	City	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2023-06-09
Dousman village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-11-14
Eagle village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		
Elm Grove village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-12-07
Hartland village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-12-07
Lac La Belle village	Village	Plan 108320 approved 2022-08-25, pending adoption here; not yet eligible	Waukesha County (FEMA plan 108320), pending adoption here	2022-08-25 by FEMA; not yet adopted here	2027-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lannon village	Village	Plan 108320 approved 2022-08-25, pending adoption here; not yet eligible	Waukesha County (FEMA plan 108320), pending adoption here	2022-08-25 by FEMA; not yet adopted here	2027-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Menomonee Falls village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-11-14

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Merton village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2023-06-09
Milwaukee city	City	Approved, expires 2030-11-16	Milwaukee County Hazard Mitigation Plan 2025 (FEMA plan 110750)	2025-11-17	2030-11-16	1,508		this jurisdiction approved 2026-05-04
Mukwonago village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-10-19
Muskego city	City	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2023-06-09
Nashotah village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-11-14
New Berlin city	City	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-10-19
North Prairie village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-12-07
Oconomowoc city	City	Plan 108320 approved 2022-08-25, pending adoption here; not yet eligible	Waukesha County (FEMA plan 108320), pending adoption here	2022-08-25 by FEMA; not yet adopted here	2027-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Oconomowoc Lake village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-10-19
Pewaukee city	City	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-11-14
Pewaukee village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2023-06-09
Summit village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-11-14
Sussex village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-10-19
Vernon village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2023-06-09
Wales village	Village	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-10-19

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Waukesha city	City	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-10-19
Waukesha village	Village	Plan 108320 approved 2022-08-25, pending adoption here; not yet eligible	Waukesha County (FEMA plan 108320), pending adoption here	2022-08-25 by FEMA; not yet adopted here	2027-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Brookfield town	Town	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2023-09-28
Delafield town	Town	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-10-19
Eagle town	Town	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2023-06-09
Genesee town	Town	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-12-07
Lisbon (retired Census ID; now 5513344847 Lisbon village)	Town	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-12-07
Merton town	Town	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-10-19
Mukwonago town	Town	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-11-14
Oconomowoc town	Town	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-12-07
Ottawa town	Town	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2023-06-09
Eagle Spring Lake Management District in the Town of Eagle	Special District	Approved, expires 2027-08-24	Waukesha County (FEMA plan 108320)	2022-08-25	2027-08-24	328		this jurisdiction approved 2022-10-19

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	Inland Flooding	Relatively Moderate	Relatively High	\$67,250,092	\$152,599	\$808,080	\$68,210,770	64	
2	Cold Wave	Relatively High	Very High	\$611	\$80	\$30,286,953	\$30,287,643	35	
3	Tornado	Relatively High	Relatively High	\$10,402,073	\$2,174	\$13,259,029	\$23,663,276	18	
4	Hail	Relatively High	Relatively High	\$5,759,987	\$13,629	\$617,350	\$6,390,966	232	
5	Heat Wave	Relatively Moderate	Relatively Moderate	\$224	\$1	\$5,674,863	\$5,675,088	42	
6	Strong Wind	Relatively Moderate	Relatively Moderate	\$728,775	\$18,516	\$423,015	\$1,170,307	328	Includes 15 High Wind and 50 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
7	Ice Storm	Relatively Moderate	Relatively High	\$675,657	n/a	\$165,544	\$841,202	3	
8	Earthquake	Very Low	Relatively Low	\$574,916	n/a	\$149,318	\$724,234		Storm Events does not record earthquakes.
9	Lightning	Relatively Moderate	Relatively Moderate	\$311,222	n/a	\$295,194	\$606,416	59	
10	Winter Weather	Relatively High	Relatively High	\$5,920	\$326	\$546,953	\$553,199	233	
11	Wildfire	Very Low	Very Low	\$74,467	\$15	\$8,900	\$83,382	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Drought	Relatively Low	Relatively Low	n/a	\$54,656	n/a	\$54,656	18	

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	Landslide	Relatively Low	Very Low	\$2,119	n/a	\$3,657	\$5,776	0	Declared 1 time; no Storm Events record of this type.
14	Hurricane	Very Low	Very Low	\$2,743	\$422	under \$1	\$3,165	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 2014.04 (Relatively Low, 43.8); tract 2041 (Relatively Low, 42.0); tract 2026 (Very Low, 35.4)
Hurricane	tract 2041 (Very Low, 18.8); tract 2045.01 (Very Low, 18.7); tract 2034.06 (Very Low, 17.3)
Landslide	tract 2037.02 (Relatively Low, 92.0); tract 2040.04 (Relatively Low, 91.7); tract 2038.02 (Relatively Low, 90.5)
Tornado	tract 2041 (Relatively High, 92.6); tract 2037.02 (Relatively High, 90.4); tract 2038.02 (Relatively High, 89.2)
Wildfire	tract 2040.04 (Relatively Low, 82.0); tract 2037.02 (Relatively Low, 79.1); tract 2040.03 (Relatively Low, 77.4)

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 2014.04 is Census Tract 2014.04). 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	35 records, 1996 to 2026 (35 zone-level)	1 day to 13 days (median 2 days); 28 with a recorded value	13 consecutive days, 2017-12-25 to 2018-01-06, zone-level	Extreme Cold/Wind Chill, 2007-02-05, \$3,000 property; \$0 crops (zone total, 2007 dollars)	Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					
Drought	U.S. Drought Monitor scale (D0 to D4)	18 records, 2002 to 2012 (18 zone-level)	11 days to 158 days (median 131 days); 5 with a recorded value	158 days (about 5.2 months), 2012-06-26 to 2012-11-30, a run of 6 consecutive Storm Events drought records, zone-level	Drought, 2002-08-01, property not reported; \$200,000 crops (zone total, 2002 dollars)	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)	260 records, 1957 to 2026	0.75 in to 3.75 in (median 1 in); 260 with a recorded value	3.75 in hail, 2015-08-02	Hail, 2006-04-13, \$4,440,000 property; crops not reported (2006 dollars)	Event records naming jurisdictions in the plan: Oconomowoc city (22 records), Oconomowoc town (22 records), Hartland village (16 records), Mukwonago town (16 records), Mukwonago village (16 records), Eagle town (14 records), Eagle village (14 records), Brookfield city (13 records), Brookfield town (13 records), Dousman village (10 records); and 21 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	42 records, 1997 to 2026 (42 zone-level)	1 day to 6 days (median 2 days); 36 with a recorded value	6 consecutive days, 1997-10-03 to 1997-10-08, zone-level		Countywide (zone-level records).	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 type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	3 records, 1997 to 2008 (3 zone-level)		Ice Storm, 2008-02-17, \$20,000 property; \$0 crops (2008 dollars); NWS zone WIZ065		Countywide (zone-level records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	64 records, 1996 to 2026 (4 zone-level)		Flash Flood, 2025-08-09, \$89,000,000 property; \$10,000 crops (2025 dollars), 1 direct injury		Event records naming jurisdictions in the plan: Waukesha city (8 records), Waukesha village (8 records), Brookfield city (6 records), Brookfield town (6 records), Menomonee Falls village (6 records), Elm Grove village (5 records), Hartland village (4 records), Mukwonago town (4 records), Mukwonago village (4 records), New Berlin city (3 records); and 17 more jurisdictions (see the Excel file). Zone-level records (4) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	0					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	59 records, 1996 to 2026		Lightning, 2026-04-15, \$0 property; \$0 crops (2026 dollars), 1 direct death	Lightning, 2019-09-12, \$2,500,000 property; \$0 crops (2019 dollars)	Event records naming jurisdictions in the plan: Hartland village (6 records), Oconomowoc city (6 records), Oconomowoc town (6 records), Muskego city (5 records), New Berlin city (5 records), Delafield city (4 records), Delafield town (4 records), Waukesha city (4 records), Waukesha village (4 records), Brookfield city (3 records); and 16 more jurisdictions (see the Excel file).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	65 records, 1996 to 2026 (63 zone-level)	26 kt (30 mph) to 65 kt (75 mph) (median 43 kt (49 mph)); 53 with a recorded value	65 kt (75 mph), measurement type not recorded, High Wind, 1997-04-06; NWS zone WIZ065	High Wind, 1998-11-10, \$1,000,000 property; \$50,000 crops (zone total, 1998 dollars)	Event records naming jurisdictions in the plan: Brookfield city (1 record), Brookfield town (1 record), Hartland village (1 record). Zone-level records (63) apply countywide.	
Thunderstorm Wind	wind speed (kt and mph)	351 records, 1955 to 2026	45 kt (52 mph) to 96 kt (110 mph) (median 55 kt (63 mph)); 269 with a recorded value	96 kt (110 mph) estimated gust, Thunderstorm Wind, 2011-06-21, 1 direct injury	Thunderstorm Wind, 1998-05-31, \$6,700,000 property; \$50,000 crops (1998 dollars)	Event records naming jurisdictions in the plan: Brookfield city (23 records), Brookfield town (23 records), Eagle town (23 records), Eagle village (23 records), Oconomowoc city (22 records), Oconomowoc town (22 records), Dousman village (21 records), Waukesha city (17 records), Waukesha village (17 records), Hartland village (13 records); and 24 more jurisdictions (see the Excel file).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Tornado	Enhanced Fujita (Fujita before Feb 2007)	40 records, 1954 to 2026	F/EF0 to F/EF4 (median F/EF1); 40 with a recorded value	F4 tornado, 1984-04-27, 6.5 mi path length (whole path, pre-1996), 10 yd wide, \$2,500,000 property; crops not recorded (1984 dollars), 1 direct death, 14 direct injuries	Tornado, 2010-06-21, \$20,600,000 property; \$0 crops (2010 dollars)	Event records naming jurisdictions in the plan: Big Bend village (4 records), Eagle town (4 records), Eagle village (4 records), Hartland village (1 record), Merton town (1 record), Merton village (1 record), Mukwonago town (1 record), Mukwonago village (1 record), Nashotah village (1 record), Sussex 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)	233 records, 1996 to 2026 (233 zone- level)		Winter Storm, 2024-01-12, \$80,000 property; \$0 crops (2024 dollars); NWS zone WIZ065		Countywide (zone-level records).	

Where a hazard names more than 10 jurisdictions, the table lists the 10 with the most records; every one is in the Excel file, sheet "B1-c Extent".

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: 19 declarations covering 16 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
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	
2025-09-11	2025-08-09	DR-4892-WI	Major disaster	Severe Storms, Straight-Line Winds, Flooding, and Mudslides	Inland Flooding (primary); also designated: Landslide, Strong Wind	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	\$2,646,962.76		
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
2008-06-14	2008-06-05	DR-1768-WI	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$2,500,357.24		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2008-03-19	2008-02-05	EM-3285-WI	Emergency	Record Snow and Near Record Snow	Winter Weather	\$1,053,454.11		
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		
2001-01-24	2000-12-11	EM-3163-WI	Emergency	Snow	Winter Weather	\$534,799.60		
2000-06-24	2000-05-26	DR-1332-WI	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	PA not declared for this county		
1998-08-12	1998-08-05	DR-1238-WI	Major disaster	Severe Storms and Flooding	Inland Flooding; Winter Weather	no Public Assistance recorded		
1997-07-07	1997-06-21	DR-1180-WI	Major disaster	Severe Storms and Flooding	Inland Flooding	no Public Assistance recorded		
1991-08-06	1991-07-07	DR-912-WI	Major disaster	Severe Storms & Hail	Hail	no Public Assistance recorded		
1986-10-07	1986-09-10	DR-775-WI	Major disaster	Severe Storms & Flooding	Inland Flooding	PA not declared for this county		
1986-08-14	1986-08-06	DR-770-WI	Major disaster	Severe Storms	Inland Flooding	PA not declared for this county		
1976-06-17	1976-06-17	EM-3014-WI	Emergency	Drought	Drought	no Public Assistance recorded		
1976-03-23	1976-03-23	DR-496-WI	Major disaster	Severe Storms, Icing, Wind & Flooding	Inland Flooding	no Public Assistance recorded		
1973-04-27	1973-04-27	DR-376-WI	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1969-07-11	1969-07-11	DR-264-WI	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		

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

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	35	5	0	5	0	0	1996 to 2026-06-30	
Drought	18	0	0	0	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	260	66	25	84	1	0	1955 to 2026-06-30	
Heat Wave	42	6	2	8	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	64	9	3	12	12	2	1996 to 2026-06-30	
Landslide	0	0	0	0	1	1	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Lightning	59	1	0	1	0	0	1996 to 2026-06-30	
Strong Wind	416	39	5	44	1	1	1955 to 2026-06-30	Includes 15 High Wind and 50 Strong Wind records.
Tornado	40	5	0	5	3	1	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	233	37	11	48	3	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2026-04-15	Lightning		\$0 property; \$0 crops (2026 dollars)	1, 0	WAUKESHA CO ARPT	new since last plan; within last 5 years	deaths or injuries recorded
2025-08-09	Flash Flood		\$89,000,000 property; \$10,000 crops (2025 dollars)	0, 1	MENOMONEE FALLS	new since last plan; within last 5 years	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2024-01-12	Winter Storm		\$80,000 property; \$0 crops (zone total, 2024 dollars)	0, 0	NWS zone WIZ065 (WAUKESHA), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2017-12-25	Cold/Wind Chill		property not reported; \$0 crops (zone total, 2017 dollars)	0, 0	NWS zone WIZ065 (WAUKESHA), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2015-08-02	Hail	3.75 in	\$3,000 property; crops not reported (2015 dollars)	0, 0	MUKWONAGO		B1-c worst recorded: Hail
2012-06-26	Drought		\$0 property; \$0 crops (zone total, 2012 dollars)	0, 0	NWS zone WIZ065 (WAUKESHA), zone-level		B1-c worst recorded: Drought
2011-06-21	Thunderstorm Wind	96 kt (110 mph) estimated gust	\$276,000 property; crops not reported (2011 dollars)	0, 1	EAGLE to NORTH LAKE		B1-c worst recorded: Thunderstorm Wind
2008-02-17	Ice Storm		\$20,000 property; \$0 crops (zone total, 2008 dollars)	0, 0	NWS zone WIZ065 (WAUKESHA), zone-level		B1-c worst recorded: Ice Storm
1998-08-06	Flash Flood		\$17,300,000 property; crops not reported (1998 dollars)	2, 1	BROOKFIELD		deaths or injuries recorded
1997-10-03	Heat		damage not reported	0, 0	NWS zone WIZ065 (WAUKESHA), zone-level		B1-c worst recorded: Excessive Heat, Heat
1997-04-06	High Wind	65 kt (75 mph), measurement type not recorded	\$180,000 property; crops not reported (zone total, 1997 dollars)	0, 0	NWS zone WIZ065 (WAUKESHA), zone-level		B1-c worst recorded: High Wind and Strong Wind
1984-04-27	Tornado	F4, 6.5 mi path length (whole path, pre-1996), 10 yd wide	\$2,500,000 property; crops not recorded (1984 dollars)	1, 14	location not recorded		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,170 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	5.32	event-days per year	about 5.32 days per year	Likely	Storm Events event- days in 20 of 30 years, 1996 to 2025 (66.7%)	101	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	1.23	event-days per year	about 1.23 days per year	Likely	Storm Events event- days in 5 of 30 years, 1996 to 2025 (16.7%)	77	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000705	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0705%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	3.68	events per year	about 3.68 per year	Highly likely	FEMA annualized frequency (modeled)	139.6 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	3.21	event-days per year	about 3.21 days per year	Likely	Storm Events event- days in 17 of 30 years, 1996 to 2025 (56.7%)	51	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.00703	events per year	about 1 in 142 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	0.626	event-days per year	about 0.626 days per year	Likely	Storm Events event- days in 3 of 30 years, 1996 to 2025 (10%)	42	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.75	event-days per year	about 1.75 days per year	Likely	Storm Events event- days in 24 of 30 years, 1996 to 2025 (80%)	49	1996 to 2023 (28 years)	see B1-f	
Landslide	0.122	events per year (modeled)	about 1 in 8 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	36.3	days per year with a strike	about 36.3 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	4.13	events per year	about 4.13 per year	Highly likely	FEMA annualized frequency (modeled)	157	1986 to 2023 (38 years)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Tornado	0.374	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	0.000139	annual probability at a location	chance a given location in the county burns in a year: 0.0139%		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	15.1	event-days per year	about 15.1 days per year	Highly likely	Storm Events event-days in 29 of 30 years, 1996 to 2025 (96.7%)	286	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	122	30	4.07
Hail	2.00 in+	1996 to 2025	13	30	0.433
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	220	30	7.33
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	24	30	0.8
Tornado	EF0-1	1996 to 2025	14	30	0.467
Tornado	EF2-3	1996 to 2025	2	30	0.0667
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	98 of 98	66.0	85.2	93.5	Relatively High 84, Relatively Moderate 14
Drought	77 of 98	67.5	73.0	85.4	Relatively Low 11, Very Low 66, No Rating 21
Earthquake	98 of 98	4.8	18.4	43.8	Relatively Low 2, Very Low 96
Hail	98 of 98	69.9	81.0	94.0	Relatively High 12, Relatively Moderate 86
Heat Wave	98 of 98	25.5	53.5	72.1	Relatively Moderate 41, Relatively Low 57
Hurricane	98 of 98	11.9	14.0	18.8	Very Low 98
Ice Storm	98 of 98	35.3	54.8	82.1	Relatively Moderate 14, Relatively Low 84
Inland Flooding	98 of 98	4.0	39.0	94.1	Relatively High 6, Relatively Moderate 33, Relatively Low 41, Very Low 18
Landslide	98 of 98	14.0	58.9	92.0	Relatively Low 10, Very Low 88
Lightning	98 of 98	14.2	25.8	47.5	Relatively Low 77, Very Low 21
Strong Wind	98 of 98	19.7	31.9	59.8	Relatively Moderate 3, Relatively Low 94, Very Low 1

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	98 of 98	53.3	70.2	92.6	Relatively High 38, Relatively Moderate 59, Relatively Low 1
Wildfire	97 of 98	18.6	47.3	82.0	Relatively Low 15, Very Low 82, No Rating 1
Winter Weather	98 of 98	41.7	61.3	75.6	Relatively Moderate 93, Relatively Low 5

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

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

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

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

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Waukesha County	County	Approved, expires 2027-08-24	FMA RL 1, SRL 0; any 7	\$1,244,850.47	0 total; 0 since its plan	Includes \$1,243,313.79 for declarations not counted as hazard incidents (DR-4520-WI).
Big Bend village	Village	Approved, expires 2027-08-24	FMA RL 1, SRL 0; any 1	\$5,869.60	15 total; 1 since its plan	
Brookfield city	City	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 10	\$372,509.56	46 total; 3 since its plan	Includes \$42,548.73 for declarations not counted as hazard incidents (DR-4520-WI).
Butler village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 1	\$15,259.81	1 total; 0 since its plan	
Chenequa village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	\$7,192.09	3 total; 0 since its plan	
Delafield city	City	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 1	\$61,148.63	23 total; 4 since its plan	
Dousman village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	\$31,534.44	32 total; 2 since its plan	
Eagle village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	43 total; 11 since its plan	
Elm Grove village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 1; any 2	\$149,715.42	17 total; 3 since its plan	
Hartland village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	\$35,742.59	41 total; 6 since its plan	
Lac La Belle village	Village	Plan 108320 approved 2022-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$15,493.88	10 total; no approved plan	

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
Lannon village	Village	Plan 108320 approved 2022-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$956.25	12 total; no approved plan	
Menomonee Falls village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 2	\$126,409.53	23 total; 8 since its plan	
Merton village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	\$13,171.58	18 total; 5 since its plan	
Milwaukee city	City	Approved, expires 2030-11-16	FMA RL 4, SRL 5; any 231	no Public Assistance recorded	0 total; 0 since its plan	Whole community, including the part in Milwaukee County; none of its repeat-flood properties are in this county.
Mukwonago village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	\$24,454.38	33 total; 4 since its plan	
Muskego city	City	Approved, expires 2027-08-24	FMA RL 1, SRL 0; any 4	\$183,652.31	24 total; 2 since its plan	
Nashotah village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	\$6,795.13	8 total; 2 since its plan	
New Berlin city	City	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 1	\$280,944.81	27 total; 3 since its plan	
North Prairie village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	\$11,947.44	18 total; 4 since its plan	
Oconomowoc city	City	Plan 108320 approved 2022-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$53,332.67	52 total; no approved plan	
Oconomowoc Lake village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	\$156,583.55	16 total; 3 since its plan	
Pewaukee city	City	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	\$227,657.23	18 total; 1 since its plan	
Pewaukee village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 1	\$89,348.42	18 total; 1 since its plan	
Summit village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Sussex village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	\$45,377.82	16 total; 2 since its plan	
Vernon village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	\$84,961.88	4 total; 1 since its plan	
Wales village	Village	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 0	\$15,707.07	9 total; 2 since its plan	
Waukesha city	City	Approved, expires 2027-08-24	FMA RL 0, SRL 0; any 4	\$418,197.77	37 total; 0 since its plan	

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
Waukesha village	Village	Plan 108320 approved 2022-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	37 total; no approved plan	
Brookfield town	Town	Approved, expires 2027-08-24		\$35,846.66	46 total; 3 since its plan	No NFIP community ID on this jurisdiction's plan row.
Delafield town	Town	Approved, expires 2027-08-24		\$15,996.19	23 total; 4 since its plan	No NFIP community ID on this jurisdiction's plan row.
Eagle town	Town	Approved, expires 2027-08-24		\$64,638.91	43 total; 11 since its plan	No NFIP community ID on this jurisdiction's plan row. Includes \$55,134.25 for declarations not counted as hazard incidents (DR-4520-WI).
Genesee town	Town	Approved, expires 2027-08-24		\$200,036.84	3 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Lisbon (retired Census ID; now 5513344847 Lisbon village)	Town	Approved, expires 2027-08-24		no Public Assistance recorded	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Merton town	Town	Approved, expires 2027-08-24		\$58,084.76	18 total; 5 since its plan	No NFIP community ID on this jurisdiction's plan row.
Mukwonago town	Town	Approved, expires 2027-08-24		\$176,240.44	33 total; 4 since its plan	No NFIP community ID on this jurisdiction's plan row.
Oconomowoc town	Town	Approved, expires 2027-08-24		no Public Assistance recorded	52 total; 7 since its plan	No NFIP community ID on this jurisdiction's plan row.
Ottawa town	Town	Approved, expires 2027-08-24		\$39,492.80	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).

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

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-08-25 <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	\$109,658,747,789	\$65,750,823	406,817	\$611	\$80	\$30,286,953	under 0.0001%		\$0		
Drought	n/a	\$44,007,976	n/a	n/a	\$54,656	n/a	0.124% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$183,119,864,365	n/a	406,978	\$574,916	n/a	\$149,318	0.000314%				
Hail	\$109,658,747,789	\$65,750,823	406,817	\$5,759,987	\$13,629	\$617,350	0.00525%	\$0			
Heat Wave	\$109,658,747,789	\$65,750,823	406,817	\$224	\$1	\$5,674,863	under 0.0001%		\$0		
Hurricane	\$109,122,680,918	\$65,042,853	404,656	\$2,743	\$422	under \$1	under 0.0001%				
Ice Storm	\$109,645,306,823	n/a	406,758	\$675,657	n/a	\$165,544	0.000616%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-08-25 <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	\$109,564,124,787	\$3,248,116	2,692	\$67,250,092	\$152,599	\$808,080	n/a (see note)	\$99,065,000		no Public Assistance recorded (2 declarations)	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	\$1,100,555,791	n/a	4,069	\$2,119	n/a	\$3,657	0.000193%			no Public Assistance recorded (1 declaration)	
Lightning	\$109,658,747,789	n/a	406,817	\$311,222	n/a	\$295,194	0.000284%	\$0			
Strong Wind	\$109,658,747,789	\$65,750,823	406,817	\$728,775	\$18,516	\$423,015	0.000665%	\$223,500	\$85,000	no Public Assistance recorded (1 declaration)	Storm Events damage since the plan includes 1 zone-level High Wind record (\$50,000) and 2 zone-level Strong Wind records (\$35,000): NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition.
Tornado	\$109,658,747,789	\$65,750,823	406,817	\$10,402,073	\$2,174	\$13,259,029	0.00949%	\$7,404,500		no Public Assistance recorded (1 declaration)	

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-08-25 <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	\$10,509,518,557	\$11,812,227	52,820	\$74,467	\$15	\$8,900	0.000709%				
Winter Weather	\$109,658,747,789	\$65,750,823	406,817	\$5,920	\$326	\$546,953	under 0.0001%		\$87,000		

Totals since 2022-08-25 (Storm Events through 2026-06-30): 117 county-coded records, 99 with a damage value recorded (including \$0), \$106,693,000; 51 zone-level records, 51 with a damage value recorded (including \$0), \$172,000 reported for the zone; Public Assistance: none recorded on the 2 counted declarations.

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	406,817
Building value (total, not at risk)	\$109,658,747,789
Agriculture value (total, not at risk)	\$65,750,823
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$86,031,222
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)	\$52,238,857
Social vulnerability rating	Very Low
Community resilience rating	Very High
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	3	Severe repetitive loss, FMA definition (44 CFR 77.2)	1
Repetitive loss, NFIP insurance definition	33	Severe repetitive loss, NFIP insurance definition	1

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	3	1	33	1	35	1	9
of which: Waukesha County (unincorporated area)	1	0	6	0	7	1	1
of which: Big Bend village	1	0	0	0	1	0	1
of which: Brookfield city	0	0	10	0	10	0	2
of which: Delafield city	0	0	1	0	1	0	0
of which: Menomonee Falls village	0	0	2	0	2	0	2
of which: Muskego city	1	0	4	0	4	0	1
of which: New Berlin city	0	0	1	0	1	0	0
of which: Pewaukee village	0	0	1	0	1	0	0
of which: Waukesha city	0	0	4	0	4	0	2
of which: Butler village	0	0	1	0	1	0	0
of which: Elm Grove village	0	1	2	1	2	0	0
of which: Unknown (community ID Unknown in FEMA data)	0	0	1	0	1	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>	Note
Waukesha County	550476	1	0	6	0	7	1	1	
Big Bend village	550477	1	0	0	0	1	0	1	
Brookfield city	550478	0	0	10	0	10	0	2	

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>	Note
Butler village	550536	0	0	1	0	1	0	0	
Chenequa village	550125	0	0	0	0	0	0	0	
Delafield city	550479	0	0	1	0	1	0	0	
Dousman village	550480	0	0	0	0	0	0	0	
Eagle village	550144	0	0	0	0	0	0	0	
Elm Grove village	550578	0	1	2	1	2	0	0	
Hartland village	550481	0	0	0	0	0	0	0	
Lac La Belle village	550565	0	0	0	0	0	0	0	
Lannon village	550482	0	0	0	0	0	0	0	
Menomonee Falls village	550483	0	0	2	0	2	0	2	
Merton village	550484	0	0	0	0	0	0	0	
Milwaukee city	550278	4	5	229	4	231	2	9	Whole community, including the part in Milwaukee County; none of its repeat-flood properties are in this county.
Mukwonago village	550485	0	0	0	0	0	0	0	
Muskego city	550486	1	0	4	0	4	0	1	
Nashotah village	550149	0	0	0	0	0	0	0	
New Berlin city	550487	0	0	1	0	1	0	0	
North Prairie village	550175	0	0	0	0	0	0	0	
Oconomowoc city	550488	0	0	0	0	0	0	0	
Oconomowoc Lake village	550582	0	0	0	0	0	0	0	
Pewaukee city	550192	0	0	0	0	0	0	0	
Pewaukee village	550489	0	0	1	0	1	0	0	
Summit village	550663	0	0	0	0	0	0	0	
Sussex village	550490	0	0	0	0	0	0	0	
Vernon village	550637	0	0	0	0	0	0	0	
Wales village	550183	0	0	0	0	0	0	0	
Waukesha city	550491	0	0	4	0	4	0	2	
Waukesha village	550664	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

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	3	1	26	1	28	1	8
2 to 4 unit residential	0	0	1	0	1	0	0
other residential	0	0	1	0	1	0	1
non-residential	0	0	5	0	5	0	0
not reported	0	0	0	0	0	0	0

FEMA's occupancy groups have no institutional class; institutional properties are counted in non-residential or other residential in the table by occupancy group.

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 2 properties are FMA repetitive loss but not NFIP repetitive loss, and 32 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
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)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)

What this packet is and what the plan adds

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

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

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

OpenFEMA disclaimer

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