

Milwaukee County, WI

Risk-assessment baseline packet

County FIPS: 55079 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 2030-11-16. Plan: Milwaukee County Hazard Mitigation Plan 2025 (FEMA plan 110750), approved 2025-11-17.

Since the plan was approved on 2025-11-17: 1 new hazard declaration (1 incident): DR-4923-WI (Severe Storms, Tornadoes, and Flooding).

NOAA Storm Events records since that date: 31 records (data through 2026-06-30).

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Cold Wave (\$176,515,399 a year), Inland Flooding (\$101,356,287) and Tornado (\$32,480,218).

Repetitive-loss flood properties now: FMA RL 12, SRL 8 (44 CFR 77.2); any definition: 273.

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; 55079 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.

CONTENTS

- 1. Summary and terms used, page 1
- 2. Plan clock, page 2
- 3. What changed since your last plan (approved 2025-11-17), page 2
- 4. Supports FEMA checklist item B1-a: hazard identification, page 4
- 5. Supports FEMA checklist item B1-b: hazard location, page 5
- 6. Supports FEMA checklist item B1-c: hazard extent, page 6
- 7. Supports FEMA checklist item B1-d: previous occurrences, page 8
- 8. Supports FEMA checklist item B1-e: probability of future events, page 12
- 9. Supports FEMA checklist item B1-f: hazards that vary across jurisdictions, page 15
- 10. Supports FEMA checklist items B2-a and B2-b: vulnerability and potential impacts, page 18
- 11. Supports FEMA checklist item B2-a: vulnerability (county context), page 20
- 12. Supports FEMA checklist item B2-c: repetitive loss properties, page 21
- 13. Sources, what the plan adds, disclaimer and citation, page 23

Plan clock

Status:	Approved, expires 2030-11-16	Plan:	Milwaukee County Hazard Mitigation Plan 2025 (FEMA plan 110750)
Approved:	2025-11-17	Days to expiry:	1,508

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

New federal declarations:	1 new hazard declaration (1 incident): DR-4923-WI (Severe Storms, Tornadoes, and Flooding)	Storm Events records since approval:	31 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 12, SRL 8 (44 CFR 77.2); any definition: 273	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: 20 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 negative = days since expiry	Notes
Milwaukee County	County	Approved, expires 2030-11-16	Milwaukee County Hazard Mitigation Plan 2025 (FEMA plan 110750)	2025-11-17	2030-11-16	1,508	
Bayside village	Village	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
Brown Deer village	Village	Approved, expires 2030-11-16	Milwaukee County Hazard Mitigation Plan 2025 (FEMA plan 110750)	2025-11-17	2030-11-16	1,508	
Cudahy 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
Fox Point village	Village	Approved, expires 2030-11-16	Milwaukee County Hazard Mitigation Plan 2025 (FEMA plan 110750)	2025-11-17	2030-11-16	1,508	
Franklin 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
Glendale 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 2026-05-19
Greendale village	Village	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
Greenfield 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
Hales Corners village	Village	Approved, expires 2030-11-16	Milwaukee County Hazard Mitigation Plan 2025 (FEMA plan 110750)	2025-11-17	2030-11-16	1,508	
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
Oak Creek city	City	Approved, expires 2030-11-16	Milwaukee County Hazard Mitigation Plan 2025 (FEMA plan 110750)	2025-11-17	2030-11-16	1,508	
River Hills village	Village	Approved, expires 2030-11-16	Milwaukee County Hazard Mitigation Plan 2025 (FEMA plan 110750)	2025-11-17	2030-11-16	1,508	
Shorewood village	Village	Approved, expires 2030-11-16	Milwaukee County Hazard Mitigation Plan 2025 (FEMA plan 110750)	2025-11-17	2030-11-16	1,508	
South 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
St. Francis 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
Wauwatosa city	City	Approved, expires 2030-11-16	Milwaukee County Hazard Mitigation Plan 2025 (FEMA plan 110750)	2025-11-17	2030-11-16	1,508	
West Allis 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
West Milwaukee village	Village	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
Whitefish Bay village	Village	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

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Cold Wave	Very High	Very High	\$2,236	\$5	\$176,513,158	\$176,515,399	64	Includes 1 Frost/Freeze record (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
2	Inland Flooding	Relatively High	Relatively High	\$100,635,652	\$12,868	\$707,767	\$101,356,287	76	
3	Tornado	Very High	Relatively High	\$10,424,350	\$202	\$22,055,663	\$32,480,218	4	
4	Heat Wave	Relatively High	Relatively High	\$854	under \$1	\$25,037,349	\$25,038,203	57	
5	Strong Wind	Relatively High	Relatively High	\$1,167,159	\$3,408	\$1,443,392	\$2,613,958	228	Includes 21 High Wind and 52 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
6	Earthquake	Relatively Low	Relatively Low	\$1,121,545	n/a	\$413,188	\$1,534,732		Storm Events does not record earthquakes.
7	Hail	Relatively Moderate	Relatively Moderate	\$1,092,355	\$977	\$31,374	\$1,124,706	170	
8	Winter Weather	Very High	Relatively High	\$192,301	\$46	\$626,620	\$818,966	226	
9	Lightning	Relatively Moderate	Relatively Low	\$159,454	n/a	\$149,539	\$308,993	29	
10	Ice Storm	Relatively Moderate	Relatively Moderate	\$206,117	n/a	\$80,910	\$287,026	1	
11	Wildfire	Very Low	Very Low	\$10,391	\$1	\$1,447	\$11,840	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
12	Coastal Flooding	Very Low	Very Low	\$6,919	n/a	\$478	\$7,398	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Hurricane	Very Low	Very Low	\$4,580	\$61	\$1	\$4,642	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Drought	Very Low	Very Low	n/a	\$1,319	n/a	\$1,319	17	
15	Landslide	Very Low	Very Low	\$168	n/a	\$122	\$290	0	Declared 1 time; no Storm Events record of this type.
	Tsunami	Insufficient Data	Insufficient Data	n/a	n/a	n/a	n/a	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

Total = buildings + agriculture + population equivalence; FEMA values each expected death (or 10 injuries) at \$13.7 million (2024 dollars).
NRI risk rating combines expected annual loss with social vulnerability and community resilience; EAL rating rates expected annual loss alone. Both compare this county with all U.S. counties.
Local data needed: state and local wildfire, landslide and tsunami records (Storm Events records these hazards only in part).

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: avalanche and volcanic activity. That is the evidence for leaving them out of the plan.
The state hazard mitigation plan also lists hazards for this county; FEMA asks the plan to explain any hazard it leaves out.

Supports FEMA checklist item B1-b: hazard location

Affects the whole county (national data give no location within it): Cold Wave, Drought, Hail, Heat Wave, Ice Storm, Lightning, Strong Wind and Winter Weather.

Coastal Flooding and Inland Flooding: The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (<https://msc.fema.gov>) for this county.

Hazards that vary within the county: highest-rated census tracts

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 1864 (Relatively Low, 62.3); tract 1601.02 (Relatively Low, 54.3); tract 1853 (Relatively Low, 50.8)
Hurricane	tract 74 (Very Low, 18.6); tract 602 (Very Low, 18.4); tract 1853 (Very Low, 17.9)
Landslide	tract 1501 (Very Low, 69.5); tract 1872 (Very Low, 67.0); tract 1853 (Very Low, 64.2)
Tornado	tract 1501 (Relatively High, 90.8); tract 217 (Relatively High, 86.9); tract 602 (Relatively High, 84.2)
Tsunami	no tract has a National Risk Index rating for this hazard
Wildfire	tract 1503.01 (Very Low, 67.7); tract 1602.02 (Very Low, 63.5); tract 1501 (Very Low, 59.6)

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 1864 is Census Tract 1864). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Coastal Flood, Storm Surge/ Tide	none in data (flood depth: FIRM)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	63 records, 1996 to 2026 (63 zone-level)	1 day to 13 days (median 1 day); 54 with a recorded value	13 consecutive days, 2017-12-25 to 2018-01-06, 3 direct deaths, zone-level	Cold/Wind Chill, 2007-02-03, \$20,000 property; \$0 crops, reported for the zone (2007 dollars)	Countywide (zone-level records).	Wind chill: in event narratives only (local data needed).
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	1 record, 2020 (1 zone-level)		No crop damage reported in 1 record.		Countywide (zone-level records).	Temperature: in event narratives only (local data needed).
Drought	U.S. Drought Monitor scale (D0 to D4)	17 records, 2002 to 2012 (17 zone-level)	11 days to 153 days (median 128 days); 5 with a recorded value	153 days (5 months), 2005-07-01 to 2005-11-30, a run of 5 consecutive Storm Events drought records, zone-level	Drought, 2002-08-01, property not reported; \$25,000 crops, reported for the zone (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)	212 records, 1956 to 2026	0.75 in to 3 in (median 0.94 in); 212 with a recorded value	3 in hail, 2015-08-02	Hail, 2006-04-13, \$1,990,000 property; crops not reported (2006 dollars)	Event records naming jurisdictions in the plan: West Allis city (22 records), Wauwatosa city (13 records), Greenfield city (12 records), Milwaukee city (11 records), Brown Deer village (8 records), Greendale village (8 records), Oak Creek city (7 records), South Milwaukee city (7 records), Franklin city (4 records), Cudahy city (3 records); and 6 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	57 records, 1996 to 2026 (57 zone-level)	1 day to 6 days (median 2 days); 43 with a recorded value	6 consecutive days, 1997-10-03 to 1997-10-08, zone-level		Countywide (zone-level records).	Heat index: in event narratives only (local data needed). Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
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)	1 record, 2007 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	Ice thickness: in event narratives only (local data needed).
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	76 records, 1996 to 2026 (6 zone-level)		Flash Flood, 1997-06-21, \$78,700,000 property; \$18,000 crops (1997 dollars)		Event records naming jurisdictions in the plan: Milwaukee city (12 records), Franklin city (10 records), West Allis city (7 records), Wauwatosa city (6 records), Greenfield city (5 records), Brown Deer village (3 records), Glendale city (3 records), Hales Corners village (3 records), West Milwaukee village (2 records), Cudahy city (1 record); and 1 more jurisdiction (see the Excel file). Zone-level records (6) 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					Physical measure: in event narratives only (local data needed).
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	29 records, 1997 to 2018		Lightning, 1997-07-21, \$1,000,000 property; crops not reported (1997 dollars)		Event records naming jurisdictions in the plan: Milwaukee city (6 records), Brown Deer village (2 records), Franklin city (2 records), Greenfield city (2 records), Shorewood village (2 records), Wauwatosa city (2 records), West Allis city (2 records), Greendale village (1 record), Oak Creek city (1 record), South Milwaukee city (1 record); and 2 more jurisdictions (see the Excel file).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	73 records, 1997 to 2026 (72 zone-level)	29 kt (33 mph) to 67 kt (77 mph) (median 43 kt (49 mph)); 64 with a recorded value	67 kt (77 mph) measured gust, High Wind, 2026-04-27; NWS zone WIZ066	High Wind, 1998-11-10, \$1,000,000 property; crops not reported, reported for the zone (1998 dollars)	Event records naming jurisdictions in the plan: Glendale city (1 record). Zone-level records (72) apply countywide.	
Thunderstorm Wind	wind speed (kt and mph)	250 records, 1960 to 2026	39 kt (45 mph) to 87 kt (100 mph) (median 53 kt (61 mph)); 191 with a recorded value	87 kt (100 mph), measurement type not recorded, Thunderstorm Wind, 1998-05-31		Event records naming jurisdictions in the plan: Milwaukee city (26 records), West Allis city (15 records), Brown Deer village (13 records), Greenfield city (9 records), Wauwatosa city (9 records), Cudahy city (7 records), Oak Creek city (7 records), St. Francis city (5 records), Hales Corners village (4 records), Franklin city (3 records); and 9 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)	19 records, 1958 to 2026	F/EF0 to F/EF2 (median F/EF1); 18 with a recorded value	F2 tornado, 1958-08-07, 1 mi path length (whole path, pre-1996), 100 yd wide, \$25,000 property; crops not recorded (1958 dollars), 4 direct injuries	Tornado, 2000-03-08, \$4,570,000 property; crops not reported (2000 dollars)	Event records naming jurisdictions in the plan: West Allis city (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Tsunami	none (count and damage only)	0					Physical measure: in event narratives only (local data needed).
Wildfire	acres burned (local data)	0					Acres burned: in event narratives only (local data needed).
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	226 records, 1996 to 2026 (226 zone-level)		Winter Storm, 2024-01-12, \$80,000 property; \$0 crops (2024 dollars); NWS zone WIZ066		Countywide (zone-level records).	Snow depth: in event narratives only (local data needed).

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".

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records whose zone 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: 22 declarations covering 19 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	in the 12 months before plan approval; within last 5 years	
2020-04-04	2020-01-20	DR-4520-WI	Major disaster	COVID-19 Pandemic	Non-natural, not counted		\$88,463,138.54	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
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
2020-03-11	2020-01-10	DR-4477-WI	Major disaster	Severe Winter Storm and Flooding	Inland Flooding (primary); also designated: Winter Weather	\$726,536.70		
2011-04-05	2011-01-31	DR-1966-WI	Major disaster	Severe Winter Storm and Snowstorm	Winter Weather	\$2,028,172.57		
2010-08-11	2010-07-20	DR-1933-WI	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$10,265,645.65		
2008-06-14	2008-06-05	DR-1768-WI	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$4,509,477.41		
2008-03-19	2008-02-05	EM-3285-WI	Emergency	Record Snow and Near Record Snow	Winter Weather	\$1,938,126.46		
2005-09-13	2005-08-29	EM-3249-WI	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	\$834,028.58		
2004-06-18	2004-05-07	DR-1526-WI	Major disaster	Severe Storms and Flooding	Inland Flooding	\$3,532.95		FEMA's declaration record does not list Public Assistance, but FEMA's PA project summaries show obligations for this county
2001-01-24	2000-12-11	EM-3163-WI	Emergency	Snow	Winter Weather	\$1,426,253.13		
2000-06-24	2000-05-26	DR-1332-WI	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$529,766.97		
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		
1993-07-02	1993-06-07	DR-994-WI	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	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	no Public Assistance recorded		
1979-01-19	1979-01-19	EM-3069-WI	Emergency	Blizzards & Snowstorms	Winter Weather	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
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	64	1	7	10	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record.
Drought	17	0	0	0	0	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	212	5	9	57	0	0	1955 to 2026-06-30	
Heat Wave	57	2	1	9	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	1	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	76	4	6	21	15	1	1996 to 2026-06-30	
Landslide	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Lightning	29	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	323	6	6	38	1	0	1955 to 2026-06-30	Includes 21 High Wind and 52 Strong Wind records.
Tornado	19	1	0	2	5	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
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	226	12	7	45	6	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
2026-04-27	High Wind	67 kt (77 mph) measured gust	\$250,000 property; \$0 crops, reported for the zone (2026 dollars)	0, 0	NWS zone WIZ066 (MILWAUKEE), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2024-01-12	Cold/Wind Chill		\$0 property; \$0 crops, reported for the zone (2024 dollars)	4, 0	NWS zone WIZ066 (MILWAUKEE), zone-level	within last 5 years	deaths or injuries recorded
2024-01-12	Winter Storm		\$80,000 property; \$0 crops, reported for the zone (2024 dollars)	0, 0	NWS zone WIZ066 (MILWAUKEE), zone-level	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, reported for the zone (2017 dollars)	2, 0	NWS zone WIZ066 (MILWAUKEE), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2015-08-02	Hail	3 in	property not reported; \$0 crops (2015 dollars)	0, 0	ST MARTINS		B1-c worst recorded: Hail
1999-07-29	Heat		damage not reported	4, 0	NWS zone WIZ066 (MILWAUKEE), zone-level		deaths or injuries recorded
1998-05-31	Thunderstorm Wind	87 kt (100 mph), measurement type not recorded	\$19,200,000 property; crops not reported (1998 dollars)	0, 0	COUNTYWIDE		B1-c worst recorded: Thunderstorm Wind
1997-10-03	Heat		damage not reported	0, 0	NWS zone WIZ066 (MILWAUKEE), zone-level		B1-c worst recorded: Excessive Heat, Heat
1997-07-21	Lightning		\$1,000,000 property; crops not reported (1997 dollars)	0, 0	MILWAUKEE		B1-c worst recorded: Lightning
1997-06-21	Flash Flood		\$78,700,000 property; \$18,000 crops (1997 dollars)	0, 0	FOX PT		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1996-02-01	Cold/Wind Chill		damage not reported	4, 15	NWS zone WIZ066 (MILWAUKEE), zone-level		deaths or injuries recorded
1958-08-07	Tornado	F2, 1 mi path length (whole path, pre-1996), 100 yd wide	\$25,000 property; crops not recorded (1958 dollars)	0, 4	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,024 rows).

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

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

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

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

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

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Coastal Flooding	0.0126	events per year at a location (modeled)	about 0.013 per year at a given location in the county		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Cold Wave	4.89	event-days per year	about 4.89 days per year	Likely (from Storm Events: 21 of 30 years)	event-days in 21 of 30 years, 1996 to 2025 (70%)	93	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	1.46	event-days per year	about 1.46 days per year	Likely (from Storm Events: 5 of 30 years)	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	91	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000656	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0656%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	2.71	events per year	about 2.71 per year	Highly likely	FEMA annualized frequency (modeled)	106.7 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	3.11	event-days per year	about 3.11 days per year	Likely (from Storm Events: 19 of 30 years)	event-days in 19 of 30 years, 1996 to 2025 (63.3%)	48	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.00575	events per year	about 1 in 174 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	0.469	event-days per year	about 0.469 days per year	Possible (from Storm Events: 1 of 30 years)	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	7	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	2.11	event-days per year	about 2.11 days per year	Likely (from Storm Events: 25 of 30 years)	event-days in 25 of 30 years, 1996 to 2025 (83.3%)	59	1996 to 2023 (28 years)	see B1-f	
Landslide	0.0466	events per year (modeled)	about 1 in 21 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	

Hazard	FEMA annualized frequency (modeled)	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
	<i>unit per row</i>								
Lightning	33.7	days per year with a strike	about 33.7 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	3.13	events per year	about 3.13 per year	Highly likely	FEMA annualized frequency (modeled)	26	1986 to 2023 (38 years)	countywide	
Tornado	0.399	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)			Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Wildfire	0.0000284	annual probability at a location	chance a given location in the county burns in a year: 0.00284%		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	15.8	event-days per year	about 15.8 days per year	Highly likely (from Storm Events: 29 of 30 years)	event-days in 29 of 30 years, 1996 to 2025 (96.7%)	301	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	76	30	2.53
Hail	2.00 in+	1996 to 2025	3	30	0.1
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	130	30	4.33
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	9	30	0.3
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	12	30	0.4
Tornado	EF0-1	1996 to 2025	3	30	0.1
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Coastal Flooding	44 of 301	68.0	71.4	79.2	Relatively Low 2, Very Low 42, No Rating 257
Cold Wave	301 of 301	16.1	96.3	99.7	Very High 176, Relatively High 121, Relatively Moderate 3, Very Low 1
Drought	40 of 301	66.8	67.6	76.3	Very Low 40, No Rating 261
Earthquake	301 of 301	3.5	15.0	62.3	Relatively Low 8, Very Low 293
Hail	301 of 301	12.1	34.9	64.6	Relatively Low 127, Very Low 174
Heat Wave	301 of 301	1.7	72.9	93.7	Relatively High 36, Relatively Moderate 220, Relatively Low 44, Very Low 1
Hurricane	301 of 301	10.6	12.8	18.6	Very Low 301
Ice Storm	301 of 301	1.8	9.7	42.4	Relatively Low 11, Very Low 290
Inland Flooding	301 of 301	0.8	15.2	97.6	Very High 1, Relatively High 4, Relatively Moderate 25, Relatively Low 121, Very Low 150
Landslide	273 of 301	8.7	24.4	69.5	Very Low 273, No Rating 28
Lightning	301 of 301	0.5	5.6	22.2	Relatively Low 1, Very Low 300
Strong Wind	301 of 301	6.5	30.1	68.7	Relatively Moderate 13, Relatively Low 249, Very Low 39
Tornado	301 of 301	11.2	58.1	90.8	Relatively High 25, Relatively Moderate 178, Relatively Low 96, Very Low 2
Tsunami	0 of 301				Insufficient Data 301
Wildfire	172 of 301	18.7	26.5	67.7	Very Low 172, No Rating 129
Winter Weather	301 of 301	16.3	49.7	78.5	Relatively Moderate 167, Relatively Low 133, Very Low 1

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

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
Milwaukee County	County	Approved, expires 2030-11-16		\$5,065,807.90	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row. Includes \$4,773,109.15 for declarations not counted as hazard incidents (DR-4520-WI).
Bayside village	Village	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 2	\$112,437.46	2 total; 0 since its plan	
Brown Deer village	Village	Approved, expires 2030-11-16	FMA RL 6, SRL 1; any 7	\$86,533.37	26 total; 0 since its plan	
Cudahy city	City	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	\$217,252.06	11 total; 0 since its plan	Includes \$12,669.46 for declarations not counted as hazard incidents (DR-4520-WI).
Fox Point village	Village	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	\$313,841.42	1 total; 0 since its plan	
Franklin city	City	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	\$292,434.30	19 total; 1 since its plan	
Glendale city	City	Approved, expires 2030-11-16	FMA RL 1, SRL 0; any 14	\$173,186.32	6 total; 0 since its plan	
Greendale village	Village	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	\$301,315.31	12 total; 0 since its plan	
Greenfield city	City	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 1	\$298,229.53	28 total; 2 since its plan	
Hales Corners village	Village	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	\$154,809.55	10 total; 1 since its plan	
Milwaukee city	City	Approved, expires 2030-11-16	FMA RL 4, SRL 5; any 231	\$9,113,983.56	55 total; 0 since its plan	Includes \$2,891,563.41 for declarations not counted as hazard incidents (DR-4520-WI).
Oak Creek city	City	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 2	\$674,662	15 total; 0 since its plan	
River Hills village	Village	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 5	\$64,134.87	6 total; 1 since its plan	
Shorewood village	Village	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	\$294,723.78	5 total; 0 since its plan	
South Milwaukee city	City	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	\$448,591.94	11 total; 0 since its plan	
St. Francis city	City	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	9 total; 0 since its plan	
Wauwatosa city	City	Approved, expires 2030-11-16	FMA RL 1, SRL 2; any 8	\$279,021.87	30 total; 1 since its plan	

			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
Jurisdiction	Type	Plan status				
West Allis city	City	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 3	\$354,222.34	47 total; 1 since its plan	Includes \$24,851.52 for declarations not counted as hazard incidents (DR-4520-WI).
West Milwaukee village	Village	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	\$14,164.09	6 total; 1 since its plan	
Whitefish Bay village	Village	Approved, expires 2030-11-16	FMA RL 0, SRL 0; any 0	\$536,329.36	1 total; 0 since its plan	

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

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2025-11-17 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Coastal Flooding	\$5,543,312,258	n/a	11,556	\$6,919	n/a	\$478	0.000125%				
Cold Wave	\$152,796,602,222	\$8,752,659	939,336	\$2,236	\$5	\$176,513,158	under 0.0001%		\$0		
Drought	n/a	\$8,039,266	n/a	n/a	\$1,319	n/a	0.0164% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$268,388,265,743	n/a	939,489	\$1,121,545	n/a	\$413,188	0.000418%				
Hail	\$152,796,602,222	\$8,752,659	939,336	\$1,092,355	\$977	\$31,374	0.000715%	\$0			
Heat Wave	\$152,796,602,222	\$8,752,659	939,336	\$854	under \$1	\$25,037,349	under 0.0001%		\$0		
Hurricane	\$152,238,757,919	\$8,752,659	937,082	\$4,580	\$61	\$1	under 0.0001%				
Ice Storm	\$152,536,269,260	n/a	937,266	\$206,117	n/a	\$80,910	0.000135%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2025-11-17 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Inland Flooding	\$152,703,366,292	\$757,823	5,235	\$100,635,652	\$12,868	\$707,767	n/a (see note)	\$65,000		no Public Assistance recorded (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.
Landslide	\$793,049,676	n/a	3,867	\$168	n/a	\$122	under 0.0001%				
Lightning	\$152,796,602,222	n/a	939,336	\$159,454	n/a	\$149,539	0.000104%				
Strong Wind	\$152,796,602,222	\$8,752,659	939,336	\$1,167,159	\$3,408	\$1,443,392	0.000764%	\$55,000	\$300,000		Storm Events damage since the plan includes 2 zone-level High Wind records (\$300,000): a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition.
Tornado	\$152,796,602,222	\$8,752,659	939,336	\$10,424,350	\$202	\$22,055,663	0.00682%	\$105,000		no Public Assistance recorded (1 declaration)	
Tsunami	n/a	n/a	n/a	n/a	n/a	n/a					NRI publishes no building exposure for this county

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2025-11-17 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Wildfire	\$7,937,420,940	\$1,590,190	43,934	\$10,391	\$1	\$1,447	0.000131%				
Winter Weather	\$152,796,602,222	\$8,752,659	939,336	\$192,301	\$46	\$626,620	0.000126%		\$0		

Totals since 2025-11-17 (Storm Events through 2026-06-30): 14 county-coded records, 14 with a damage value recorded (including \$0), \$225,000; 17 zone-level records, 17 with a damage value recorded (including \$0), \$300,000 reported for the zone; Public Assistance: none recorded on the 1 counted declaration.

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	939,336
Building value (total, not at risk)	\$152,796,602,222
Agriculture value (total, not at risk)	\$8,752,659
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$115,042,968
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)	\$227,061,010
Social vulnerability rating	Relatively High
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)	12	Severe repetitive loss, FMA definition (44 CFR 77.2)	8
Repetitive loss, NFIP insurance definition	262	Severe repetitive loss, NFIP insurance definition	4

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	12	8	262	4	273	10	16
of which: Bayside village	0	0	2	0	2	0	0
of which: Brown Deer village	6	1	1	0	7	6	1
of which: Glendale city	1	0	13	0	14	0	5
of which: Greenfield city	0	0	1	0	1	0	0
of which: Milwaukee city	4	5	229	4	231	2	9
of which: Oak Creek city	0	0	2	0	2	0	0
of which: River Hills village	0	0	5	0	5	0	1
of which: Wauwatosa city	1	2	6	0	8	2	0
of which: West Allis city	0	0	3	0	3	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>
Bayside village	550270	0	0	2	0	2	0	0
Brown Deer village	550271	6	1	1	0	7	6	1
Cudahy city	550272	0	0	0	0	0	0	0
Fox Point village	550274	0	0	0	0	0	0	0
Franklin city	550273	0	0	0	0	0	0	0
Glendale city	550275	1	0	13	0	14	0	5

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>
Greendale village	550276	0	0	0	0	0	0	0
Greenfield city	550277	0	0	1	0	1	0	0
Hales Corners village	550524	0	0	0	0	0	0	0
Milwaukee city	550278	4	5	229	4	231	2	9
Oak Creek city	550279	0	0	2	0	2	0	0
River Hills village	550280	0	0	5	0	5	0	1
Shorewood village	550282	0	0	0	0	0	0	0
South Milwaukee city	550283	0	0	0	0	0	0	0
St. Francis city	550281	0	0	0	0	0	0	0
Wauwatosa city	550284	1	2	6	0	8	2	0
West Allis city	550285	0	0	3	0	3	0	0
West Milwaukee village	550561	0	0	0	0	0	0	0
Whitefish Bay village	550286	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	12	6	219	4	228	8	15
2 to 4 unit residential	0	0	38	0	38	0	1
other residential	0	0	0	0	0	0	0
non-residential	0	2	5	0	7	2	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 9 properties are FMA repetitive loss but not NFIP repetitive loss, and 259 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)
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What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment, organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B. Each section heading names the item its tables support; the plan and FEMA's review decide whether the 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

This product uses the Federal Emergency Management Agency's OpenFEMA API, but is not endorsed by FEMA. The Federal Government or FEMA cannot vouch for the data or analyses derived from these data after the data have been retrieved from the Agency's website(s).

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Milwaukee County, WI: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 55079). Automated baseline. <https://hazardplain.org/wi/55079/> Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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

Hazard Plain release 2026-10. As of 2026-09-30; Storm Events data through 2026-06-30. Automated baseline.