

Marquette County, MI

Risk-assessment baseline packet

County FIPS: 26103 **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: Expired on 2026-01-24. Plan: Marquette County HMP Update (FEMA plan 106669), approved 2021-01-25.
Since the plan was approved on 2021-01-25: 1 new hazard declaration (1 incident): DR-4925-MI (Severe Storms, Tornadoes, and Flooding).
NOAA Storm Events records since that date: 229 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Cold Wave (\$12,704,279 a year), Inland Flooding (\$8,008,213) and Hail (\$3,349,152).
Repetitive-loss flood properties now: FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 2.
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; 26103 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:	Expired on 2026-01-24	Plan:	Marquette County HMP Update (FEMA plan 106669)
Approved:	2021-01-25	Days since expiry:	249
Update underway:	none recorded in FEMA's plan tracker		

Until a new plan is approved, FEMA mitigation project grants (HMGP, FMA) need a FEMA exception (44 CFR 201.6(a)(3)).

What changed since your last plan (approved 2021-01-25)

New federal declarations:	1 new hazard declaration (1 incident): DR-4925-MI (Severe Storms, Tornadoes, and Flooding)	Storm Events records since approval:	229 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 2	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: 23 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
Marquette County	County	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	
Ishpeming city	City	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-07-21
Marquette city	City	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	
Negaunee city	City	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-11-17
Champion township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-11-17
Chocolay charter township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-07-14
Ely township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-08-18
Ewing township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-07-21
Forsyth township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-07-21
Humboldt township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-07-14
Ishpeming township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-11-01
Marquette charter township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-07-21
Michigamme township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-08-18
Negaunee township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-07-21
Powell township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-07-21
Republic township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-07-21
Richmond township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-07-14
Sands township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-07-21
Skandia township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-11-01
Tilden township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2021-07-21

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Notes
Turin township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2023-03-20
Wells township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2022-06-16
West Branch township	Township	Expired on 2026-01-24	Marquette County HMP Update (FEMA plan 106669)	2021-01-25	2026-01-24	-249	this jurisdiction approved 2022-07-14

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Cold Wave	Relatively High	Relatively High	\$1,939	\$4,734	\$12,697,605	\$12,704,279	47	Includes 9 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
2	Inland Flooding	Relatively Low	Relatively Low	\$7,764,463	\$28	\$243,722	\$8,008,213	43	
3	Hail	Relatively High	Relatively High	\$3,341,878	\$634	\$6,640	\$3,349,152	195	
4	Strong Wind	Relatively Moderate	Relatively Low	\$155,438	\$33,427	\$344,794	\$533,660	250	Includes 26 High Wind and 14 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
5	Lightning	Relatively Moderate	Relatively Moderate	\$18,934	n/a	\$490,411	\$509,344	10	
6	Winter Weather	Relatively High	Relatively High	\$36,468	\$48	\$338,369	\$374,885	423	Includes 1 Sleet record (outside NRI's Winter Weather definition).

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
7	Tornado	Very Low	Very Low	\$103,230	\$46	\$140,880	\$244,157	7	
8	Wildfire	Relatively Low	Relatively Low	\$132,661	\$2	\$14,202	\$146,865	7	
9	Heat Wave	Very Low	Very Low	\$450	under \$1	\$70,949	\$71,399	8	
10	Ice Storm	Relatively Low	Relatively Low	\$59,462	n/a	\$2,658	\$62,120	7	
11	Coastal Flooding	Very Low	Very Low	\$6,927	n/a	\$301	\$7,228	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Drought	Very Low	Very Low	n/a	\$2,148	n/a	\$2,148	0	Declared 1 time; no Storm Events record of this type.
13	Earthquake	Very Low	Very Low	\$1,229	n/a	\$369	\$1,597		Storm Events does not record earthquakes.
14	Landslide	Very Low	Very Low	\$277	n/a	\$268	\$545	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Hurricane	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	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 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 12 (Very Low, 2.1); tract 26 (Very Low, 1.4); tract 25 (Very Low, 1.3)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 23 (Relatively Low, 87.4); tract 29.02 (Very Low, 79.8); tract 12 (Very Low, 78.7)
Tornado	tract 12 (Relatively Low, 37.0); tract 23 (Relatively Low, 31.1); tract 21 (Very Low, 27.1)
Tsunami	no tract has a National Risk Index rating for this hazard
Wildfire	tract 22 (Relatively Moderate, 92.0); tract 23 (Relatively Moderate, 88.5); tract 13 (Relatively Low, 87.0)

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 12 is Census Tract 12). 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	38 records, 1996 to 2026 (38 zone-level)	1 day to 7 days (median 2 days); 32 with a recorded value	7 consecutive days, 2019-01-26 to 2019-02-01, zone-level		Countywide (zone-level records).	Wind chill: in event narratives only (local data needed).
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	9 records, 2006 to 2013 (9 zone-level)		No crop damage reported in 9 records.		Countywide (zone-level records).	Temperature: in event narratives only (local data needed).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Drought	U.S. Drought Monitor scale (D0 to D4)	0					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)	219 records, 1956 to 2026	0.5 in to 3 in (median 1 in); 219 with a recorded value	3 in hail, 2007-06-20; same size also recorded on 2007-05-14	Hail, 2007-06-20, \$10,000,000 property; \$0 crops (2007 dollars)	Event records naming jurisdictions in the plan: Marquette charter township (22 records), Marquette city (22 records), Negaunee city (16 records), Negaunee township (16 records), Ishpeming city (11 records), Ishpeming township (11 records), Republic township (9 records), Skandia township (8 records), Champion township (4 records), Michigamme township (2 records); and 1 more jurisdiction (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	8 records, 2006 to 2026 (8 zone-level)	1 day to 2 days (median 1 day); 7 with a recorded value	2 consecutive days, 2023-09-03 to 2023-09-04, zone-level		Countywide (zone-level records).	Heat index: in event narratives only (local data needed).
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)	7 records, 2002 to 2026 (7 zone-level)		Ice Storm, 2019-02-04, \$30,000 property; \$0 crops (2019 dollars); NWS zone MIZ005		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)	43 records, 1996 to 2026 (11 zone-level)		Flood, 2003-05-15, \$14,000,000 property; crops not reported (2003 dollars); NWS zone MIZ005		Event records naming jurisdictions in the plan: Marquette charter township (11 records), Marquette city (11 records), Humboldt township (4 records), Ishpeming city (4 records), Ishpeming township (4 records), Republic township (2 records). Zone-level records (11) 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).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	10 records, 2008 to 2025		Lightning, 2024-10-05, \$50,000 property; \$0 crops (2024 dollars)		Event records naming jurisdictions in the plan: Marquette charter township (2 records), Marquette city (2 records), Ishpeming city (1 record), Ishpeming township (1 record), Negaunee city (1 record), Negaunee township (1 record).	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)	40 records, 1998 to 2024 (40 zone-level)	30 kt (35 mph) to 65 kt (75 mph) (median 50 kt (58 mph)); 40 with a recorded value	65 kt (75 mph) estimated gust, High Wind, 2011-09-29; NWS zone MIZ005	High Wind, 2017-03-07, \$1,000,000 property; \$0 crops, reported for the zone (2017 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	240 records, 1958 to 2026	40 kt (46 mph) to 83 kt (96 mph) (median 55 kt (63 mph)); 224 with a recorded value	83 kt (96 mph) estimated gust, Thunderstorm Wind, 2017-04-10; same speed and measurement basis also recorded on 2017-04-10	Thunderstorm Wind, 2017-04-10, \$1,000,000 property; \$0 crops (2017 dollars)	Event records naming jurisdictions in the plan: Marquette charter township (30 records), Marquette city (30 records), Ishpeming city (9 records), Ishpeming township (9 records), Republic township (6 records), Negaunee city (5 records), Negaunee township (5 records), Michigamme township (4 records), Skandia township (3 records), Champion township (1 record); and 1 more jurisdiction (see the Excel file).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	11 records, 1973 to 2016	F/EF0 to F/EF1 (median F/EF0); 11 with a recorded value	EF1 tornado, 2016-05-24, 3.87 mi within this county, 200 yd wide, \$50,000 property; \$0 crops (2016 dollars)		Event records naming jurisdictions in the plan: Michigamme township (1 record), Republic township (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)	7 records, 1999 to 2011 (3 zone-level)		Wildfire, 2009-05-20, \$4,000,000 property; \$0 crops (2009 dollars); NWS zone MIZ005		Event records naming jurisdictions in the plan: Ishpeming city (1 record), Ishpeming township (1 record), Republic township (1 record). Zone-level records (3) apply countywide.	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)	423 records, 1996 to 2026 (423 zone-level)		Winter Storm, 2023-05-01, \$1,000,000 property; \$0 crops (2023 dollars); NWS zone MIZ005		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: 11 declarations covering 8 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	2026-04-10	DR-4925-MI	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding (primary); also designated: Tornado	\$36,850.81	new since last plan; within last 5 years	
2020-03-27	2020-01-20	DR-4494-MI	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$76,916.45	in the 12 months before plan approval	
2020-03-13	2020-01-20	EM-3455-MI	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded	in the 12 months before plan approval	same incident as DR-4494
2013-06-18	2013-04-16	DR-4121-MI	Major disaster	Flooding	Inland Flooding	\$193,990.84		
2005-09-07	2005-08-29	EM-3225-MI	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2002-05-06	2002-04-10	DR-1413-MI	Major disaster	Flooding	Inland Flooding	\$298,005.30		
1999-05-06	1999-05-05	FM-2261-MI	Fire management	Mi - Tower Lake Mountain Fire - 05/06/1999	Wildfire	no Public Assistance recorded		
1999-01-27	1999-01-02	EM-3137-MI	Emergency	Mi - Severe Weather 1/2 /99	Winter Weather	\$84,290.81		
1994-05-10	1994-01-10	DR-1028-MI	Major disaster	Severe Deep Freeze	Cold Wave	no Public Assistance recorded		
1978-01-27	1978-01-27	EM-3057-MI	Emergency	Blizzards & Snowstorms	Winter Weather	no Public Assistance recorded		
1977-03-02	1977-03-02	EM-3035-MI	Emergency	Drought	Drought	no Public Assistance recorded		

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

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
1956-04-05	1956-04-05	DR-53-MI	Major disaster	Tornado	Tornado
1953-06-09	1953-06-09	DR-6-MI	Major disaster	Tornado	Tornado
1953-06-02	1953-06-02	DR-4-MI	Major disaster	Tornado	Tornado

FEMA recorded these with designated area Statewide and no county, so they are listed on every county page in the state and not counted with county rows. Local data needed: whether each one affected this county.

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	47	11	1	9	1	0	1996 to 2026-06-30	Includes 9 Frost/Freeze records.
Drought	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)
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	219	49	2	37	0	0	1955 to 2026-06-30	
Heat Wave	8	7	0	7	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	7	3	0	3	0	0	1996 to 2026-06-30	
Inland Flooding	43	8	0	8	3	1	1996 to 2026-06-30	
Landslide	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	10	2	0	2	0	0	1996 to 2026-06-30	
Strong Wind	280	54	22	45	0	0	1955 to 2026-06-30	Includes 26 High Wind and 14 Strong Wind records.
Tornado	11	0	0	0	1	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	7	0	0	0	1	0	1996 to 2026-06-30	
Winter Weather	423	95	14	91	2	0	1996 to 2026-06-30	Includes 1 Sleet record.

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
2024-10-05	Lightning		\$50,000 property; \$0 crops (2024 dollars)	0, 0	MARQUETTE	new since last plan; within last 5 years	B1-c worst recorded: Lightning
2023-05-01	Winter Storm		\$1,000,000 property; \$0 crops, reported for the zone (2023 dollars)	0, 0	NWS zone MIZ005 (MARQUETTE), 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
2019-01-26	Cold/Wind Chill		\$0 property; \$0 crops, reported for the zone (2019 dollars)	0, 0	NWS zone MIZ005 (MARQUETTE), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2017-10-24	Lakeshore Flood		\$600,000 property; \$0 crops, reported for the zone (2017 dollars)	2, 0	NWS zone MIZ005 (MARQUETTE), zone-level		deaths or injuries recorded
2017-04-10	Thunderstorm Wind	83 kt (96 mph) estimated gust	\$100,000 property; \$0 crops (2017 dollars)	0, 0	GREENWOOD		B1-c worst recorded: Thunderstorm Wind
2016-05-24	Tornado	EF1, 3.87 mi within this county, 200 yd wide	\$50,000 property; \$0 crops (2016 dollars)	0, 0	CLARKSBURG to GREENWOOD		B1-c worst recorded: Tornado
2011-09-29	High Wind	65 kt (75 mph) estimated gust	\$70,000 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone MIZ005 (MARQUETTE), zone-level		B1-c worst recorded: High Wind and Strong Wind
2009-05-20	Wildfire		\$4,000,000 property; \$0 crops, reported for the zone (2009 dollars)	0, 0	NWS zone MIZ005 (MARQUETTE), zone-level		B1-c worst recorded: Wildfire
2007-10-09	Strong Wind	30 kt (35 mph) estimated gust	\$0 property; \$0 crops, reported for the zone (2007 dollars)	2, 0	NWS zone MIZ005 (MARQUETTE), zone-level		deaths or injuries recorded
2007-06-20	Hail	3 in	\$6,000,000 property; \$0 crops (2007 dollars)	0, 0	HARVEY		B1-c worst recorded: Hail
2003-05-15	Flood		\$14,000,000 property; crops not reported, reported for the zone (2003 dollars)	0, 0	NWS zone MIZ005 (MARQUETTE), zone-level		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1996-02-27	Heavy Snow		damage not reported	1, 0	NWS zone MIZ005 (MARQUETTE), zone-level		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,055 rows).

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

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	0.0127	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	4.63	event-days per year	about 4.63 days per year	Likely (from Storm Events: 17 of 30 years)	event-days in 17 of 30 years, 1996 to 2025 (56.7%)	48	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	2.86	event-days per year	about 2.86 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	77	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.000162	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0162%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.88	events per year	about 0.88 per year	Likely	FEMA annualized frequency (modeled)	34.7 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	0.368	event-days per year	about 0.368 days per year	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	3.82	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0029	events per year	about 1 in 345 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	0.056	event-days per year	about 0.056 days per year	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	3	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.11	event-days per year	about 1.11 days per year	Likely (from Storm Events: 16 of 30 years)	event-days in 16 of 30 years, 1996 to 2025 (53.3%)	31	1996 to 2023 (28 years)	see B1-f	
Landslide	1.13	events per year (modeled)	about 1.13 per year	Highly likely	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)				Location	Note
	<i>unit per row</i>						NRI period				
Lightning	23.2	days per year with a strike	about 23.2 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)			countywide	
Strong Wind	0.982	events per year	about 0.98 per year	Likely	FEMA annualized frequency (modeled)	22	1986 to 2023 (38 years)			countywide	
Tornado	0.166	events per year	about 1 in 6 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	0.00059	annual probability at a location	chance a given location in the county burns in a year: 0.059%	Likely (from Storm Events: 4 of 30 years)	Storm Events records in 4 of 30 years, 1996 to 2025 (13.3%)	not shown	modeled			see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	30.8	event-days per year	about 30.8 days per year	Highly likely (from Storm Events: 30 of 30 years)	event-days in 30 of 30 years, 1996 to 2025 (100%)	320	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.

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	98	30	3.27
Hail	2.00 in+	1996 to 2025	5	30	0.167
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	186	30	6.2
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	20	30	0.667
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	3	30	0.1
Tornado	EF0-1	1996 to 2025	7	30	0.233
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	11 of 26	70.0	72.6	83.7	Relatively Low 4, Very Low 7, No Rating 15
Cold Wave	26 of 26	85.2	95.0	99.5	Very High 12, Relatively High 14
Drought	11 of 26	67.5	70.0	79.8	Relatively Low 2, Very Low 9, No Rating 15
Earthquake	11 of 26	0.5	0.9	2.1	Very Low 11, No Rating 15
Hail	26 of 26	82.6	93.5	98.5	Very High 2, Relatively High 20, Relatively Moderate 4
Heat Wave	26 of 26	2.5	3.6	9.8	Very Low 26
Hurricane	0 of 26				No Rating 26
Ice Storm	26 of 26	15.4	30.0	60.2	Relatively Low 10, Very Low 16
Inland Flooding	26 of 26	2.5	14.0	84.9	Relatively High 1, Relatively Moderate 3, Relatively Low 8, Very Low 14
Landslide	26 of 26	12.5	51.9	87.4	Relatively Low 1, Very Low 25
Lightning	26 of 26	40.0	66.6	92.5	Relatively High 3, Relatively Moderate 21, Relatively Low 2
Strong Wind	26 of 26	34.2	54.9	85.3	Relatively High 1, Relatively Moderate 13, Relatively Low 12
Tornado	26 of 26	6.0	21.7	37.0	Relatively Low 2, Very Low 24
Tsunami	0 of 26				Insufficient Data 26
Wildfire	25 of 26	21.0	60.1	92.0	Relatively Moderate 2, Relatively Low 7, Very Low 16, No Rating 1
Winter Weather	26 of 26	73.9	87.7	97.5	Very High 1, Relatively High 24, Relatively Moderate 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
Marquette County	County	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	\$90,445.85	0 total; 0 since its plan	Includes \$76,916.45 for declarations not counted as hazard incidents (DR-4494-MI).
Ishpeming city	City	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	\$100,844.51	26 total; 0 since its plan	
Marquette city	City	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	\$27,668.25	65 total; 14 since its plan	
Negaunee city	City	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	\$32,967.25	22 total; 0 since its plan	
Champion township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	5 total; 1 since its plan	
Chocolay charter township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 2	no Public Assistance recorded	0 total; 0 since its plan	
Ely township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Ewing township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Forsyth township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	\$28,545.75	0 total; 0 since its plan	
Humboldt township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	4 total; 1 since its plan	
Ishpeming township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	26 total; 0 since its plan	
Marquette charter township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	65 total; 14 since its plan	
Michigamme township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	\$2,172.75	7 total; 0 since its plan	
Negaunee township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	22 total; 0 since its plan	
Powell township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Republic township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	\$1,896.93	19 total; 4 since its plan	
Richmond township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Sands township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	3 total; 1 since its plan	

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
Skandia township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	11 total; 1 since its plan	
Tilden township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Turin township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Wells township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
West Branch township	Township	Expired on 2026-01-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 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 2021-01-25 <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
Coastal Flooding	\$793,917,493	n/a	388	\$6,927	n/a	\$301	0.000873%				
Cold Wave	\$15,817,645,686	\$4,734,257	65,947	\$1,939	\$4,734	\$12,697,605	under 0.0001%		\$0		
Drought	n/a	\$1,051,516	n/a	n/a	\$2,148	n/a	0.204% (agriculture)				NRI has no building exposure for this hazard; agriculture shown

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 2021-01-25 <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
Earthquake	\$27,710,224,071	n/a	66,017	\$1,229	n/a	\$369	under 0.0001%				
Hail	\$15,817,645,686	\$4,734,257	65,947	\$3,341,878	\$634	\$6,640	0.0211%	\$6,000			
Heat Wave	\$15,817,645,686	\$4,734,257	65,947	\$450	under \$1	\$70,949	under 0.0001%		\$0		
Hurricane	\$15,817,028,073	\$4,734,257	65,940	\$0	\$0	\$0	0%				
Ice Storm	\$15,662,584,816	n/a	65,041	\$59,462	n/a	\$2,658	0.00038%		\$10,000		
Inland Flooding	\$15,790,545,893	\$1,858	327	\$7,764,463	\$28	\$243,722	n/a (see note)	\$11,176,500		\$36,850.81	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	\$430,417,290	n/a	1,605	\$277	n/a	\$268	under 0.0001%				
Lightning	\$15,817,645,686	n/a	65,947	\$18,934	n/a	\$490,411	0.00012%	\$65,000			
Strong Wind	\$15,817,645,686	\$4,734,257	65,947	\$155,438	\$33,427	\$344,794	0.000983%	\$168,000	\$143,000		Storm Events damage since the plan includes 4 zone-level High Wind records (\$138,000) and 1 zone-level Strong Wind record (\$5,000); NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition.
Tornado	\$15,817,645,686	\$4,734,257	65,947	\$103,230	\$46	\$140,880	0.000653%			\$36,850.81	
Tsunami	n/a	n/a	n/a	n/a	n/a	n/a					NRI publishes no building exposure for this county
Wildfire	\$2,487,306,606	\$1,148,153	14,837	\$132,661	\$2	\$14,202	0.00533%				
Winter Weather	\$15,817,645,686	\$4,734,257	65,947	\$36,468	\$48	\$338,369	0.000231%		\$1,235,000		

Totals since 2021-01-25 (Storm Events through 2026-06-30): 107 county-coded records, 104 with a damage value recorded (including \$0), \$11,415,500; 122 zone-level records, 109 with a damage value recorded (including \$0), \$1,388,000 reported for the zone; Public Assistance: \$36,850.81 on 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	65,947
Building value (total, not at risk)	\$15,817,645,686
Agriculture value (total, not at risk)	\$4,734,257
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$11,664,424
Expected annual loss, population equivalence, all hazards (NRI values each statistical life at \$13.7M; a modeled value of expected deaths and injuries, not property damage)	\$14,351,168
Social vulnerability rating	Relatively Moderate
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)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	2	Severe repetitive loss, NFIP insurance definition	0

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	0	0	2	0	2	0	2
of which: Chocolay charter township	0	0	2	0	2	0	2
Statewide, no county in FEMA's file	0	0	4	0	4	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>
Marquette County	261815	0	0	0	0	0	0	0
Ishpeming city	260133	0	0	0	0	0	0	0
Marquette city	260716	0	0	0	0	0	0	0
Negaunee city	261291	0	0	0	0	0	0	0
Champion township	261285	0	0	0	0	0	0	0
Chocolay charter township	260448	0	0	2	0	2	0	2
Ely township	260449	0	0	0	0	0	0	0
Ewing township	260957	0	0	0	0	0	0	0
Forsyth township	260450	0	0	0	0	0	0	0
Humboldt township	261286	0	0	0	0	0	0	0
Ishpeming township	261390	0	0	0	0	0	0	0
Marquette charter township	260758	0	0	0	0	0	0	0
Michigamme township	260451	0	0	0	0	0	0	0
Negaunee township	261225	0	0	0	0	0	0	0
Powell township	260452	0	0	0	0	0	0	0
Republic township	260453	0	0	0	0	0	0	0
Richmond township	261288	0	0	0	0	0	0	0
Sands township	261284	0	0	0	0	0	0	0
Skandia township	260987	0	0	0	0	0	0	0
Tilden township	261287	0	0	0	0	0	0	0
Turin township	261289	0	0	0	0	0	0	0
Wells township	261290	0	0	0	0	0	0	0
West Branch township	260993	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	0	0	2	0	2	0	2
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	0	0	0	0	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 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 2 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_Gaz_cousubs_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_Gaz_unsd_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_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, 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). Marquette County, MI: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 26103). Automated baseline. <https://hazardplain.org/mi/26103/> 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.