

# Cheboygan County, MI

## Risk-assessment baseline packet

Unit **County area 26031**    Release **2026-10**    As of **2026-09-28**    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.**

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

### 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).

## Plan clock

|          |                              |         |                                                |
|----------|------------------------------|---------|------------------------------------------------|
| Status   | Approved, expires 2028-07-18 | Plan    | Cheboygan County HMP Update (FEMA plan 108112) |
| Approved | 2023-07-19                   | Expires | 2028-07-18                                     |
| As of    | 2026-09-28                   | Days    | 659 days to expiry                             |

### What changed since your last plan (approved 2023-07-19)

|                          |                                                                  |                                     |                                             |
|--------------------------|------------------------------------------------------------------|-------------------------------------|---------------------------------------------|
| New federal declarations | DR-4880-MI, DR-4925-MI (2 declaration rows; 2 counted incidents) | Storm Events records since approval | 22 (data through 2026-06-30)                |
| Repetitive loss now      | FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0                 | Repeat-flood change                 | First release: no prior release to compare. |

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

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

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

## CONTENTS

1. Plan clock, page 1
2. What changed since your last plan (approved 2023-07-19), page 1
3. Supports B1-a: hazards, page 3
4. Supports B1-b: location, page 5
5. Supports B1-c: extent, page 5
6. Supports B1-d: previous occurrences, page 8
7. Supports B1-e: probability, page 12
8. Supports B1-f: variation across the planning area, page 15
9. Supports B2-a and B2-b: assets and impacts, page 17
10. Supports B2-a: context, page 19
11. Supports B2-c: repetitive loss, page 19
12. Sources and OpenFEMA disclaimer, page 21

## Plan clock

### Plan status for every jurisdiction listed in this county

| Jurisdiction          | Type     | Status                       | Plan                                           | Approved   | Expires    | Days to expiry<br><i>negative = days since expiry</i> | Update underway                                       | Notes                                      |
|-----------------------|----------|------------------------------|------------------------------------------------|------------|------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| Cheboygan County      | County   | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |
| Cheboygan city        | City     | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       | member approved 2023-11-09                 |
| Mackinaw City village | Village  | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   | FEMA tracker shows a plan approvable pending adoption | Not yet eligible: adopt the approved plan. |
| Wolverine village     | Village  | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       | member approved 2024-04-01                 |
| Aloha township        | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |
| Beaugrand township    | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       | member approved 2023-11-09                 |
| Benton township       | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |
| Burt township         | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |
| Ellis township        | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |
| Forest township       | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |
| Grant township        | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |
| Hebron township       | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |
| Inverness township    | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       | member approved 2023-11-09                 |
| Koehler township      | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |
| Mackinaw township     | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |
| Mentor township       | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       | member approved 2024-03-14                 |
| Mullett township      | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |
| Munro township        | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |
| Nunda township        | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       | member approved 2023-11-09                 |
| Tuscarora township    | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                                                       |                                            |

| Jurisdiction     | Type     | Status                       | Plan                                           | Approved   | Expires    | Days to expiry<br><i>negative = days since expiry</i> | Update underway | Notes                      |
|------------------|----------|------------------------------|------------------------------------------------|------------|------------|-------------------------------------------------------|-----------------|----------------------------|
| Walker township  | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                 | member approved 2023-11-09 |
| Waverly township | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                 |                            |
| Wilmot township  | Township | Approved, expires 2028-07-18 | Cheboygan County HMP Update (FEMA plan 108112) | 2023-07-19 | 2028-07-18 | 659                                                   |                 | member approved 2024-04-01 |

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

## Supports B1-a: hazards

Hazards NRI does not cover: check locally

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

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

| Rank by EAL | Hazard          | NRI risk rating     | EAL rating          | EAL buildings<br><i>modeled dollars per year</i> | EAL agriculture<br><i>modeled dollars per year</i> | EAL population equivalence<br><i>statistical value of life and injury, \$13.7M per life, not property damage</i> | EAL total (see note)<br><i>modeled dollars per year</i> | Storm Events records since 1996<br><i>count</i> | Evidence for an omission<br><i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i> | Storm Events coverage note                                                                                        |
|-------------|-----------------|---------------------|---------------------|--------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1           | Inland Flooding | Relatively Moderate | Relatively Low      | \$12,970,148                                     | \$15                                               | \$167                                                                                                            | \$12,970,330                                            | 4                                               |                                                                                                             |                                                                                                                   |
| 2           | Cold Wave       | Relatively Moderate | Relatively Moderate | \$554                                            | \$3,977                                            | \$1,524,857                                                                                                      | \$1,529,388                                             | 8                                               |                                                                                                             |                                                                                                                   |
| 3           | Tornado         | Very Low            | Very Low            | \$126,861                                        | \$52                                               | \$152,360                                                                                                        | \$279,273                                               | 3                                               |                                                                                                             |                                                                                                                   |
| 4           | Lightning       | Relatively Low      | Relatively Low      | \$10,912                                         |                                                    | \$146,786                                                                                                        | \$157,697                                               | 3                                               |                                                                                                             |                                                                                                                   |
| 5           | Hail            | Relatively Low      | Very Low            | \$102,687                                        | \$1,259                                            | \$7,370                                                                                                          | \$111,316                                               | 18                                              |                                                                                                             |                                                                                                                   |
| 6           | Strong Wind     | Relatively Low      | Very Low            | \$51,025                                         | \$461                                              | \$56,893                                                                                                         | \$108,379                                               | 47                                              |                                                                                                             | Includes 10 High Wind records and 1 Strong Wind record, event types the NRI definition of this hazard leaves out. |
| 7           | Heat Wave       | Very Low            | Very Low            | \$553                                            | under \$1                                          | \$50,276                                                                                                         | \$50,829                                                | 2                                               |                                                                                                             |                                                                                                                   |
| 8           | Winter Weather  | Very Low            | Relatively Low      | \$2,006                                          | \$84                                               | \$13,738                                                                                                         | \$15,828                                                | 109                                             |                                                                                                             |                                                                                                                   |

| Rank<br>by<br>EAL | Hazard               | NRI risk<br>rating   | EAL rating                      | EAL<br>buildings<br><i>modeled dollars<br/>per year</i> | EAL<br>agriculture<br><i>modeled<br/>dollars per<br/>year</i> | EAL population<br>equivalence<br><i>statistical value of life<br/>and injury, \$13.7M per<br/>life, not property<br/>damage</i> | EAL total<br>(see note)<br><i>modeled dollars<br/>per year</i> | Storm<br>Events<br>records<br>since 1996<br><i>count</i> | Evidence for an omission<br><i>NRI Not Applicable, no<br/>declaration and no Storm Events<br/>record since 1996</i> | Storm Events coverage note                                                                                                                                     |
|-------------------|----------------------|----------------------|---------------------------------|---------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9                 | Earthquake           | Very Low             | Very Low                        | \$6,948                                                 |                                                               | \$1,469                                                                                                                         | \$8,417                                                        |                                                          |                                                                                                                     | Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.                                                     |
| 10                | Coastal<br>Flooding  | Very Low             | Very Low                        | \$8,007                                                 |                                                               | \$309                                                                                                                           | \$8,315                                                        | 0                                                        |                                                                                                                     | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                                                       |
| 11                | Wildfire             | Very Low             | Very Low                        | \$7,351                                                 | \$1                                                           | \$558                                                                                                                           | \$7,910                                                        | 0                                                        |                                                                                                                     | No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk. |
| 12                | Hurricane            | Very Low             | Very Low                        | \$6,260                                                 | \$163                                                         | \$1                                                                                                                             | \$6,424                                                        | 0                                                        |                                                                                                                     | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                                                       |
| 13                | Landslide            | Relatively<br>Low    | Very Low                        | \$226                                                   |                                                               | \$3,053                                                                                                                         | \$3,279                                                        | 0                                                        |                                                                                                                     | No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk. |
| 14                | Ice Storm            | Very Low             | Very Low                        | \$1,684                                                 |                                                               | \$607                                                                                                                           | \$2,291                                                        | 5                                                        |                                                                                                                     |                                                                                                                                                                |
| 15                | Drought              | No Rating            | No Expected<br>Annual<br>Losses |                                                         | \$0                                                           |                                                                                                                                 | \$0                                                            | 2                                                        |                                                                                                                     |                                                                                                                                                                |
|                   | Avalanche            | Not<br>Applicable    | Not<br>Applicable               |                                                         |                                                               |                                                                                                                                 |                                                                | 0                                                        | NRI rates avalanche Not Applicable for this county, and no federal declaration for this county names it.            | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                                                       |
|                   | Tsunami              | Insufficient<br>Data | Insufficient<br>Data            |                                                         |                                                               |                                                                                                                                 |                                                                | 0                                                        |                                                                                                                     | No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk. |
|                   | Volcanic<br>Activity | Not<br>Applicable    | Not<br>Applicable               |                                                         |                                                               |                                                                                                                                 |                                                                | 0                                                        | NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.    | No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk. |

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

#### SOURCES

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

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

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

## Supports B1-b: location

### Where each hazard occurs

| Hazard            | Location                                                                                                                                                                                                  | Census tracts rated<br><small>rated of all tracts</small> |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Avalanche         | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 0 of 9                                                    |
| Coastal Flooding  | The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center ( <a href="https://msc.fema.gov">https://msc.fema.gov</a> ) for this county. | 6 of 9                                                    |
| Cold Wave         | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 9 of 9                                                    |
| Drought           | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 0 of 9                                                    |
| Earthquake        | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 9 of 9                                                    |
| Hail              | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 9 of 9                                                    |
| Heat Wave         | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 9 of 9                                                    |
| Hurricane         | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 9 of 9                                                    |
| Ice Storm         | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 9 of 9                                                    |
| Inland Flooding   | The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center ( <a href="https://msc.fema.gov">https://msc.fema.gov</a> ) for this county. | 9 of 9                                                    |
| Landslide         | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 9 of 9                                                    |
| Lightning         | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 9 of 9                                                    |
| Strong Wind       | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 9 of 9                                                    |
| Tornado           | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 9 of 9                                                    |
| Tsunami           | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 0 of 9                                                    |
| Volcanic Activity | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 0 of 9                                                    |
| Wildfire          | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 9 of 9                                                    |
| Winter Weather    | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 9 of 9                                                    |

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

## Supports B1-c: extent

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

| Hazard                           | Scale                         | Records<br><small>count, years</small> | Observed range | Worst recorded event | Most damaging<br><small>(when different)</small> | How it applies to members | Note                                                             |
|----------------------------------|-------------------------------|----------------------------------------|----------------|----------------------|--------------------------------------------------|---------------------------|------------------------------------------------------------------|
| Avalanche                        | none (count and damage)       | 0                                      |                |                      |                                                  |                           | Physical measure: in event narratives only; local data required. |
| Coastal Flood, Storm Surge/ Tide | none in data (FIRM for depth) | 0                                      |                |                      |                                                  |                           | Flood depth: see the FEMA Flood Insurance Rate Map.              |

| Hazard                                          | Scale                          | Records<br><i>count, years</i> | Observed range                                             | Worst recorded event                                                                               | Most damaging<br>(when different) | How it applies to members                                                                           | Note                                                                                                                                                                                                                                                      |
|-------------------------------------------------|--------------------------------|--------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cold/Wind Chill, Extreme Cold/Wind Chill        | wind chill                     | 8, 2007 to 2026 (8 zone-level) | 1 day to 3 days (median 2.5 days); 6 with a recorded value | 3 consecutive days, 2026-02-06 to 2026-02-08, zone-level                                           |                                   | Zone-level records: applies countywide; national data do not locate these events within the county. | Wind chill: in event narratives only; local data required.                                                                                                                                                                                                |
| Frost/Freeze (outside NRI Cold Wave definition) | crop damage                    | 0                              |                                                            |                                                                                                    |                                   |                                                                                                     | Temperature: in event narratives only; local data required.                                                                                                                                                                                               |
| Drought                                         | US Drought Monitor D-scale     | 2, 2007 to 2007 (2 zone-level) | 14 days; 1 with a recorded value                           | 14 days, 2007-08-28 to 2007-09-10, a run of 2 consecutive Storm Events drought records, zone-level |                                   | Zone-level records: applies countywide; national data do not locate these events within the county. | Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.                                                                                      |
| Earthquake                                      | Modified Mercalli (local data) | 0                              |                                                            |                                                                                                    |                                   |                                                                                                     | No Storm Events record; local data required (e.g., USGS).                                                                                                                                                                                                 |
| Hail                                            | hail size (inches)             | 22, 1992 to 2025               | 0.75 in to 2 in (median 0.75 in); 22 with a recorded value | 2 in hail, 2011-05-22                                                                              |                                   | Event records naming member places: Cheboygan city (6 records), Wolverine village (1 record).       |                                                                                                                                                                                                                                                           |
| Excessive Heat, Heat                            | heat index (narratives)        | 2, 2001 to 2018 (2 zone-level) | 1 day to 9 days (median 5 days); 2 with a recorded value   | 9 consecutive days, 2001-08-01 to 2001-08-09, zone-level                                           |                                   | Zone-level records: applies countywide; national data do not locate these events within the county. | Heat index: in event narratives only; local data required.                                                                                                                                                                                                |
| Hurricane, Tropical Storm, Tropical Depression  | Saffir-Simpson                 | 0                              |                                                            |                                                                                                    |                                   |                                                                                                     | Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns. |
| Ice Storm                                       | Sperry-Piltz (local data)      | 5, 1997 to 2025 (5 zone-level) |                                                            | No damage reported in 5 records.                                                                   |                                   | Zone-level records: applies countywide; national data do not locate these events within the county. | Ice thickness: in event narratives only; local data required.                                                                                                                                                                                             |

| Hazard                                                         | Scale                                                                              | Records<br><i>count, years</i>   | Observed range                                                                     | Worst recorded event                                                                                                                                                                                  | Most damaging<br>(when different)                                                                  | How it applies to members                                                                                                                                    | Note                                                                                                                                                                                                                            |
|----------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flash Flood, Flood, Lakeshore Flood                            | damage and flood days (FIRM for depth)                                             | 4, 2001 to 2024 (1 zone-level)   |                                                                                    | Flood, 2011-04-27, \$25,000 property; \$0 crops (2011 dollars)                                                                                                                                        |                                                                                                    | Event records naming member places: Cheboygan city (2 records). Zone-level records (1) apply countywide.                                                     | Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d. |
| Debris Flow                                                    | none (count and damage)                                                            | 0                                |                                                                                    |                                                                                                                                                                                                       |                                                                                                    |                                                                                                                                                              | Physical measure: in event narratives only; local data required.                                                                                                                                                                |
| Lightning                                                      | annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names) | 3, 2003 to 2015                  |                                                                                    | Lightning, 2003-08-26, \$75,000 property; crops not reported (2003 dollars)                                                                                                                           |                                                                                                    | Event records naming member places: Wolverine village (1 record).                                                                                            | Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.                                                                                                         |
| High Wind and Strong Wind (outside NRI Strong Wind definition) | wind speed (kt and mph)                                                            | 11, 1998 to 2025 (11 zone-level) | 50 kt (58 mph) to 60 kt (69 mph) (median 55 kt (63 mph)); 10 with a recorded value | 60 kt (69 mph) measured gust, High Wind, 2025-03-15; same speed and measurement basis also recorded on 2015-12-24; NWS zone MIZ017 (CHEBOYGAN), zone-level: may include parts of neighboring counties | High Wind, 2005-11-13, \$30,000 property; crops not reported, reported for the zone (2005 dollars) | Zone-level records: applies countywide; national data do not locate these events within the county.                                                          |                                                                                                                                                                                                                                 |
| Thunderstorm Wind                                              | wind speed (kt and mph)                                                            | 62, 1960 to 2025                 | 50 kt (58 mph) to 67 kt (77 mph) (median 52 kt (60 mph)); 40 with a recorded value | 67 kt (77 mph), measurement type not recorded, Thunderstorm Wind, 1995-07-14                                                                                                                          | Thunderstorm Wind, 2020-07-19, \$100,000 property; \$0 crops (2020 dollars)                        | Event records naming member places: Cheboygan city (9 records), Wolverine village (6 records), Mackinaw City village (2 records), Aloha township (1 record). |                                                                                                                                                                                                                                 |

| Hazard                                                                      | Scale                                   | Records<br><i>count, years</i>     | Observed range                                         | Worst recorded event                                                                                                                                                            | Most damaging<br>(when different) | How it applies to members                                                                           | Note                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------|-----------------------------------------|------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tornado                                                                     | Enhanced Fujita (F before Feb 2007)     | 7, 1955 to 2014                    | F/EF0 to F/EF1 (median F/EF0); 6 with a recorded value | EF1 tornado, 2007-10-18, 10.21 mi within this county, 215 yd wide, \$30,000 property; \$0 crops (2007 dollars)                                                                  |                                   | Event records naming member places: Wolverine village (1 record).                                   | From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes. |
| Tsunami                                                                     | none (count and damage)                 | 0                                  |                                                        |                                                                                                                                                                                 |                                   |                                                                                                     | Physical measure: in event narratives only; local data required.                                                                                                                                                                                                                                                                                                                                                              |
| Volcanic Ash, Volcanic Ashfall                                              | Volcanic Explosivity Index (local data) | 0                                  |                                                        |                                                                                                                                                                                 |                                   |                                                                                                     | Physical measure: in event narratives only; local data required.                                                                                                                                                                                                                                                                                                                                                              |
| Wildfire                                                                    | acres burned (local data)               | 0                                  |                                                        |                                                                                                                                                                                 |                                   |                                                                                                     | Acres burned: in event narratives only; local data required.                                                                                                                                                                                                                                                                                                                                                                  |
| Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet | none in data (snowfall local)           | 109, 1997 to 2026 (109 zone-level) |                                                        | Heavy Snow, 2012-03-02, \$200,000 property; \$0 crops, reported for the zone (2012 dollars); NWS zone MIZ017 (CHEBOYGAN), zone-level: may include parts of neighboring counties |                                   | Zone-level records: applies countywide; national data do not locate these events within the county. | Snow depth: in event narratives only; local data required.                                                                                                                                                                                                                                                                                                                                                                    |

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

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

SOURCES

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

Supports B1-d: previous occurrences

Declaration rows

8

Counted incidents

5

Federal disaster declarations for this county

| Declared   | Incident began | FEMA number | Type           | Title                                  | Mapped hazard                                                        | County Public Assistance                        | Flags                                    | Notes                    |
|------------|----------------|-------------|----------------|----------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------|--------------------------|
|            |                |             |                |                                        |                                                                      | <i>federal share obligated, nominal dollars</i> |                                          |                          |
| 2026-06-30 | 2026-04-10     | DR-4925-MI  | Major disaster | SEVERE STORMS, TORNADOES, AND FLOODING | Inland Flooding (primary); also designated: Tornado                  | \$69,026.47                                     | new since last plan; within last 5 years |                          |
| 2025-07-22 | 2025-03-28     | DR-4880-MI  | Major disaster | SEVERE WINTER STORM                    | Ice Storm (primary); also designated: Winter Weather                 | \$2,564,643.54                                  | 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                                             | \$5,400                                         |                                          |                          |
| 2020-03-13 | 2020-01-20     | EM-3455-MI  | Emergency      | COVID-19                               | Non-natural, not counted                                             | none found                                      |                                          | same incident as DR-4494 |
| 2005-09-07 | 2005-08-29     | EM-3225-MI  | Emergency      | HURRICANE KATRINA EVACUATION           | Hurricane: evacuation support, not a local hazard event; not counted | none found                                      |                                          |                          |
| 1994-05-10 | 1994-01-10     | DR-1028-MI  | Major disaster | SEVERE DEEP FREEZE                     | Cold Wave                                                            | none found                                      |                                          |                          |
| 1978-01-27 | 1978-01-27     | EM-3057-MI  | Emergency      | BLIZZARDS & SNOWSTORMS                 | Winter Weather                                                       | none found                                      |                                          |                          |
| 1977-03-02 | 1977-03-02     | EM-3035-MI  | Emergency      | DROUGHT                                | Drought                                                              | none found                                      |                                          |                          |

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

SOURCES

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

Statewide declarations

| Declared   | Incident began | FEMA number | Type           | Title   | Mapped hazard | Flags | Notes |
|------------|----------------|-------------|----------------|---------|---------------|-------|-------|
| 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. Listed on every county page in the state; not counted with county rows.

SOURCE

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

Previous occurrences by hazard, with explicit no-event rows

| Hazard    | Storm Events records<br><i>full period</i> | Since plan approval<br><i>records</i> | During plan review<br><i>records</i> | Last 5 years<br><i>records</i> | Declared incidents<br><i>distinct incidents</i> | Declared since approval<br><i>distinct incidents</i> | Period             | Statement                                                      |
|-----------|--------------------------------------------|---------------------------------------|--------------------------------------|--------------------------------|-------------------------------------------------|------------------------------------------------------|--------------------|----------------------------------------------------------------|
| Avalanche | 0                                          | 0                                     | 0                                    | 0                              | 0                                               | 0                                                    | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events |

| <b>Hazard</b>     | <b>Storm Events<br/>records<br/><i>full period</i></b> | <b>Since plan<br/>approval<br/>records</b> | <b>During plan<br/>review<br/>records</b> | <b>Last 5<br/>years<br/>records</b> | <b>Declared<br/>incidents<br/><i>distinct incidents</i></b> | <b>Declared since<br/>approval<br/><i>distinct incidents</i></b> | <b>Period</b>      | <b>Statement</b>                                                                                                  |
|-------------------|--------------------------------------------------------|--------------------------------------------|-------------------------------------------|-------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------|
| 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         | 8                                                      | 5                                          | 0                                         | 5                                   | 1                                                           | 0                                                                | 1996 to 2026-06-30 |                                                                                                                   |
| Drought           | 2                                                      | 0                                          | 0                                         | 0                                   | 1                                                           | 0                                                                | 1996 to 2026-06-30 |                                                                                                                   |
| Earthquake        | 0                                                      | 0                                          | 0                                         | 0                                   | 0                                                           | 0                                                                |                    | No Storm Events record; local data required (e.g., USGS).                                                         |
| Hail              | 22                                                     | 1                                          | 0                                         | 1                                   | 0                                                           | 0                                                                | 1955 to 2026-06-30 |                                                                                                                   |
| Heat Wave         | 2                                                      | 0                                          | 0                                         | 0                                   | 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         | 5                                                      | 1                                          | 0                                         | 1                                   | 1                                                           | 1                                                                | 1996 to 2026-06-30 |                                                                                                                   |
| Inland Flooding   | 4                                                      | 1                                          | 0                                         | 1                                   | 1                                                           | 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         | 3                                                      | 0                                          | 0                                         | 0                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 |                                                                                                                   |
| Strong Wind       | 73                                                     | 3                                          | 0                                         | 4                                   | 0                                                           | 0                                                                | 1955 to 2026-06-30 | Includes 10 High Wind records and 1 Strong Wind record, event types the NRI definition of this hazard leaves out. |
| Tornado           | 7                                                      | 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                                                    |
| Volcanic Activity | 0                                                      | 0                                          | 0                                         | 0                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                                                    |
| Wildfire          | 0                                                      | 0                                          | 0                                         | 0                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                                                    |
| Winter Weather    | 109                                                    | 11                                         | 4                                         | 16                                  | 2                                                           | 1                                                                | 1996 to 2026-06-30 |                                                                                                                   |

**SOURCES**

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

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

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

## Notable Storm Events records

| Date       | Event type        | Magnitude or extent                           | Damage<br><i>nominal dollars</i>                                    | Direct<br>deaths,<br>injuries<br><i>indirect not<br/>counted</i> | Location                                                                           | Flags                                    | Why listed                                                                                       |
|------------|-------------------|-----------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------|
| 2026-02-06 | Cold/Wind Chill   |                                               | damage not reported                                                 | 0, 0                                                             | NWS zone MIZ017 (CHEBOYGAN), zone-level: may include parts of neighboring counties | new since last plan; within last 5 years | B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill                                    |
| 2025-03-15 | High Wind         | 60 kt (69 mph) measured gust                  | damage not reported                                                 | 0, 0                                                             | NWS zone MIZ017 (CHEBOYGAN), zone-level: may include parts of neighboring counties | new since last plan; within last 5 years | B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)              |
| 2015-08-02 | Lightning         |                                               | \$0 property; \$0 crops (2015 dollars)                              | 0, 2                                                             | ATTON                                                                              |                                          | deaths or injuries recorded                                                                      |
| 2012-03-02 | Heavy Snow        |                                               | \$200,000 property; \$0 crops, reported for the zone (2012 dollars) | 0, 0                                                             | NWS zone MIZ017 (CHEBOYGAN), zone-level: may include parts of neighboring counties |                                          | B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet |
| 2011-05-22 | Hail              | 2 in                                          | \$0 property; \$0 crops (2011 dollars)                              | 0, 0                                                             | INDIAN RIVER                                                                       |                                          | B1-c worst recorded: Hail                                                                        |
| 2011-04-27 | Flood             |                                               | \$25,000 property; \$0 crops (2011 dollars)                         | 0, 0                                                             | CHEBOYGAN to CHEBOYGAN CITY CO AR                                                  |                                          | B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood                                         |
| 2007-10-18 | Tornado           | EF1, 10.21 mi within this county, 215 yd wide | \$30,000 property; \$0 crops (2007 dollars)                         | 0, 0                                                             | TOWER to BLACK LAKE                                                                |                                          | B1-c worst recorded: Tornado                                                                     |
| 2007-08-28 | Drought           |                                               | \$0 property; \$0 crops, reported for the zone (2007 dollars)       | 0, 0                                                             | NWS zone MIZ017 (CHEBOYGAN), zone-level: may include parts of neighboring counties |                                          | B1-c worst recorded: Drought                                                                     |
| 2007-05-14 | Lightning         |                                               | \$0 property; \$0 crops (2007 dollars)                              | 0, 1                                                             | INDIAN RIVER                                                                       |                                          | deaths or injuries recorded                                                                      |
| 2003-08-26 | Lightning         |                                               | \$75,000 property; crops not reported (2003 dollars)                | 0, 0                                                             | WOLVERINE                                                                          |                                          | B1-c worst recorded: Lightning                                                                   |
| 2001-08-01 | Heat              |                                               | damage not reported                                                 | 0, 0                                                             | NWS zone MIZ017 (CHEBOYGAN), zone-level: may include parts of neighboring counties |                                          | B1-c worst recorded: Excessive Heat, Heat                                                        |
| 1995-07-14 | Thunderstorm Wind | 67 kt (77 mph), measurement type not recorded | damage not recorded (pre-1996 record)                               | 0, 0                                                             | Mackinaw City                                                                      |                                          | B1-c worst recorded: Thunderstorm Wind                                                           |

The full list is in the **XLSX** file, sheet "**B1-d Storm Events history**" (235 rows).

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

### SOURCES

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

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

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

## Supports B1-e: probability

### Probability: FEMA annualized frequency and descriptor per hazard

| Hazard              | FEMA<br>annualized<br>frequency<br>(modeled)<br><i>unit per row</i> | Unit                                          | In plain terms                                                                                                | Descriptor | Descriptor<br>basis                                               | NRI events or days in<br>its record period (hail,<br>wind and tornado are<br>area-weighted, so can<br>be fractional) | NRI period                                          | Location   | Note                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|---------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche           |                                                                     | events per year                               |                                                                                                               |            |                                                                   |                                                                                                                      | 1994 to 2023<br>(30 years)                          | see B1-f   | Not Applicable in NRI for this county; no descriptor.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Coastal<br>Flooding | 0.0125                                                              | events per year<br>at a location<br>(modeled) | about 0.013 per<br>year at a given<br>location in the<br>county                                               |            | Storm Events<br>records in 0 of<br>30 years, 1996<br>to 2025 (0%) | not shown                                                                                                            | modeled                                             | see B1-f   | No Storm Events record of this hazard, 1996 to 2025;<br>descriptor not assigned (the NRI value is the chance at a<br>location in the county, not how often the hazard affects<br>the county)                                                                                                                                                                                                                                                                                               |
| Cold Wave           | 2                                                                   | event-days per<br>year                        | about 2 days per<br>year                                                                                      | Possible   | event-days in 2<br>of 30 years,<br>1996 to 2025<br>(6.67%)        | 38                                                                                                                   | 2005-11-12 to<br>2024-11-12<br>(19 years)           | countywide | NRI gives about 2 cold wave event-days a year here (its<br>annualized frequency over 19 years; not its event count<br>divided by the years), but Storm Events has a record in<br>only 2 of 30 years. NRI counts from a different source<br>that records far more events than Storm Events, so this<br>descriptor reads much lower than NRI's frequency; read<br>the two together. Frost/Freeze records are not counted<br>in this descriptor: they record crop freezes, not cold<br>waves. |
| Drought             | 0                                                                   | event-days per<br>year                        | none modeled                                                                                                  | Possible   | event-days in 1<br>of 30 years,<br>1996 to 2025<br>(3.33%)        | 0                                                                                                                    | 2000 to 2025<br>(25.25 years;<br>D3 and D4<br>only) | countywide | NRI models no drought event-days here (2000 to 2025,<br>25.25 years; D3 and D4 only), but Storm Events has a<br>record in 1 of 30 years. The descriptor comes from<br>Storm Events, which records events NRI's definition<br>leaves out, so the two use different thresholds; read<br>them together.                                                                                                                                                                                       |
| Earthquake          | 0.000207                                                            | annual<br>probability at a<br>location        | chance a given<br>location in the<br>county has at<br>least minor-<br>damage shaking<br>in a year:<br>0.0207% |            |                                                                   | not shown                                                                                                            | modeled                                             | see B1-f   | Descriptor not assigned: the NRI value is the chance at<br>a location in the county, not how often the hazard<br>affects the county, and Storm Events does not record<br>earthquakes.                                                                                                                                                                                                                                                                                                      |
| Hail                | 0.682                                                               | events per year                               | about 0.68 per<br>year                                                                                        | Likely     | FEMA<br>annualized<br>frequency<br>(modeled)                      | 25.7 (modeled)                                                                                                       | 1986 to 2023<br>(38 years)                          | countywide |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Heat Wave           | 0.684                                                               | event-days per<br>year                        | about 0.684 days<br>per year                                                                                  | Possible   | event-days in 2<br>of 30 years,<br>1996 to 2025<br>(6.67%)        | 11                                                                                                                   | 2005-11-12 to<br>2024-11-12<br>(19 years)           | countywide |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Hazard               | FEMA<br>annualized<br>frequency<br>(modeled)<br><i>unit per row</i> | Unit                                                                                             | In plain terms                                                           | Descriptor       | Descriptor<br>basis                                               | NRI events or days in<br>its record period (hail,<br>wind and tornado are<br>area-weighted, so can<br>be fractional) | NRI period                                         | Location   | Note                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hurricane            | 0.01                                                                | events per year                                                                                  | about 1 in 100<br>years                                                  | Possible         | FEMA<br>annualized<br>frequency<br>(modeled)                      | 0                                                                                                                    | 1851 to 2024<br>(Atlantic)                         | see B1-f   | NRI counts hurricane and tropical storm tracks passing<br>within storm-force wind range; federal declarations are<br>counted separately in B1-d and need not match.                          |
| Ice Storm            | 0.0447                                                              | event-days per<br>year                                                                           | about 0.0447<br>days per year                                            | Likely           | event-days in 5<br>of 30 years,<br>1996 to 2025<br>(16.7%)        | 3                                                                                                                    | 1946-12-31 to<br>2014-02-12<br>(67 years)          | countywide |                                                                                                                                                                                              |
| Inland<br>Flooding   | 0.107                                                               | event-days per<br>year                                                                           | about 0.107 days<br>per year                                             | Likely           | event-days in 4<br>of 30 years,<br>1996 to 2025<br>(13.3%)        | 3                                                                                                                    | 1996 to 2023<br>(28 years)                         | see B1-f   |                                                                                                                                                                                              |
| Landslide            | 0.144                                                               | events per year<br>(modeled)                                                                     | about 1 in 7 years                                                       | Likely           | FEMA<br>annualized<br>frequency<br>(modeled)                      | not shown                                                                                                            | modeled                                            | see B1-f   |                                                                                                                                                                                              |
| Lightning            | 22.6                                                                | days per year<br>with a strike                                                                   | about 22.6 days<br>per year                                              | Highly<br>likely | FEMA<br>annualized<br>frequency<br>(modeled)                      | not shown                                                                                                            | 1995 to 2023<br>(29 years;<br>CONUS)               | countywide |                                                                                                                                                                                              |
| Strong<br>Wind       | 0.61                                                                | events per year                                                                                  | about 0.61 per<br>year                                                   | Likely           | FEMA<br>annualized<br>frequency<br>(modeled)                      | 21                                                                                                                   | 1986 to 2023<br>(38 years)                         | countywide |                                                                                                                                                                                              |
| Tornado              | 0.0932                                                              | events per year                                                                                  | about 1 in 11<br>years                                                   | Possible         | FEMA<br>annualized<br>frequency<br>(modeled)                      | not shown                                                                                                            | 1950 to 2023<br>(EF2+); 1986<br>to 2023<br>(EF0-1) | see B1-f   |                                                                                                                                                                                              |
| Tsunami              |                                                                     | annual<br>probability at the<br>most exposed<br>location (used in<br>place of a county<br>value) |                                                                          |                  | Storm Events<br>records in 0 of<br>30 years, 1996<br>to 2025 (0%) | not shown                                                                                                            | modeled                                            | see B1-f   | No Storm Events record of this hazard, 1996 to 2025;<br>descriptor not assigned (the NRI value is the chance at a<br>location in the county, not how often the hazard affects<br>the county) |
| Volcanic<br>Activity |                                                                     | annual<br>probability                                                                            |                                                                          |                  |                                                                   | not shown                                                                                                            | modeled                                            | see B1-f   | Not Applicable in NRI for this county; no descriptor.                                                                                                                                        |
| Wildfire             | 0.0000444                                                           | annual<br>probability at a<br>location                                                           | chance a given<br>location in the<br>county burns in a<br>year: 0.00444% |                  | Storm Events<br>records in 0 of<br>30 years, 1996<br>to 2025 (0%) | not shown                                                                                                            | modeled                                            | see B1-f   | No Storm Events record of this hazard, 1996 to 2025;<br>descriptor not assigned (the NRI value is the chance at a<br>location in the county, not how often the hazard affects<br>the county) |
| Winter<br>Weather    | 27.6                                                                | event-days per<br>year                                                                           | about 27.6 days<br>per year                                              | Highly<br>likely | event-days in<br>27 of 30 years,<br>1996 to 2025<br>(90%)         | 524                                                                                                                  | 2005-11-12 to<br>2024-11-12<br>(19 years)          | countywide |                                                                                                                                                                                              |

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

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

Descriptor scale used in this packet (defined per unit)

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

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

Intensity bands: historical frequency (Storm Events)

| Hazard                                  | Band                      | Years        | Events<br><i>county-coded records</i> | Years in period | Events per year<br><i>events / years</i> |
|-----------------------------------------|---------------------------|--------------|---------------------------------------|-----------------|------------------------------------------|
| Hail                                    | 1.00-1.99 in              | 1996 to 2025 | 5                                     | 30              | 0.167                                    |
| Hail                                    | 2.00 in+                  | 1996 to 2025 | 1                                     | 30              | 0.0333                                   |
| Strong Wind (Thunderstorm Wind records) | 50-64 kt                  | 1996 to 2025 | 36                                    | 30              | 1.2                                      |
| Strong Wind (Thunderstorm Wind records) | 65 kt+                    | 1996 to 2025 | 0                                     | 30              | 0                                        |
| Strong Wind (Thunderstorm Wind records) | unmeasured or below 50 kt | 1996 to 2025 | 0                                     | 30              | 0                                        |

| Hazard  | Band          | Years        | Events<br><i>county-coded records</i> | Years in period | Events per year<br><i>events / years</i> |
|---------|---------------|--------------|---------------------------------------|-----------------|------------------------------------------|
| 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                                        |

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

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

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

## Supports B1-f: variation across the planning area

### Range of census tract risk within the county

| Hazard           | Tracts<br><i>rated of all</i> | Risk score<br>min<br><i>NRI score, 0 to 100</i> | Median | Max  | Tracts by rating                                           | Note                                                                                                                                                                                                                                 |
|------------------|-------------------------------|-------------------------------------------------|--------|------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche        | 0 of 9                        |                                                 |        |      | Not Applicable 9                                           |                                                                                                                                                                                                                                      |
| Coastal Flooding | 6 of 9                        | 74.3                                            | 78.1   | 83.9 | Relatively Low 4, Very Low 2, No Rating 3                  |                                                                                                                                                                                                                                      |
| Cold Wave        | 9 of 9                        | 66.7                                            | 82.7   | 91.2 | Relatively High 8, Relatively Moderate 1                   | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Drought          | 0 of 9                        |                                                 |        |      | No Rating 9                                                | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Earthquake       | 9 of 9                        | 3.1                                             | 5.8    | 11.7 | Very Low 9                                                 |                                                                                                                                                                                                                                      |
| Hail             | 9 of 9                        | 50.4                                            | 63.6   | 70.7 | Relatively Moderate 3, Relatively Low 6                    | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Heat Wave        | 9 of 9                        | 4.2                                             | 8.2    | 15.1 | Very Low 9                                                 | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Hurricane        | 9 of 9                        | 29.8                                            | 33.5   | 35.9 | Very Low 9                                                 |                                                                                                                                                                                                                                      |
| Ice Storm        | 9 of 9                        | 1.7                                             | 2.2    | 9.1  | Very Low 9                                                 | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Inland Flooding  | 9 of 9                        | 76.8                                            | 92.7   | 98.5 | Very High 1, Relatively High 7, Relatively Moderate 1      |                                                                                                                                                                                                                                      |
| Landslide        | 9 of 9                        | 40.1                                            | 80.1   | 95.3 | Relatively Low 4, Very Low 5                               |                                                                                                                                                                                                                                      |
| Lightning        | 9 of 9                        | 45.0                                            | 70.1   | 82.8 | Relatively High 2, Relatively Moderate 6, Relatively Low 1 | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |

| Hazard            | Tracts<br>rated of<br>all | Risk score<br>min<br>NRI score, 0<br>to 100 |      | Median | Max                                     | Tracts by rating | Note                                                                                                                                                                                                                                 |
|-------------------|---------------------------|---------------------------------------------|------|--------|-----------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                           |                                             |      |        |                                         |                  |                                                                                                                                                                                                                                      |
| Strong Wind       | 9 of 9                    | 26.9                                        | 44.9 | 58.9   | Relatively Moderate 2, Relatively Low 7 |                  | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Tornado           | 9 of 9                    | 25.4                                        | 38.6 | 53.2   | Relatively Low 8, Very Low 1            |                  |                                                                                                                                                                                                                                      |
| Tsunami           | 0 of 9                    |                                             |      |        | Insufficient Data 9                     |                  |                                                                                                                                                                                                                                      |
| Volcanic Activity | 0 of 9                    |                                             |      |        | Not Applicable 9                        |                  |                                                                                                                                                                                                                                      |
| Wildfire          | 9 of 9                    | 55.3                                        | 65.7 | 73.8   | Relatively Low 2, Very Low 7            |                  |                                                                                                                                                                                                                                      |
| Winter Weather    | 9 of 9                    | 32.6                                        | 46.0 | 56.6   | Relatively Moderate 4, Relatively Low 5 |                  | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |

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

#### SOURCE

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

#### Per-member block (Starter, confirm locally)

| Member                | Type     | Plan status                     | Repetitive<br>loss<br><i>FMA RL and<br/>SRL (44 CFR<br/>77.2); repeat-<br/>flood, any<br/>definition</i> | Public Assistance<br>matched<br><i>federal share obligated,<br/>nominal dollars</i> | Event records<br>naming this<br>place<br><i>all years; since the<br/>member's plan</i> | Notes                                                                           |
|-----------------------|----------|---------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|                       |          |                                 |                                                                                                          |                                                                                     |                                                                                        |                                                                                 |
| Cheboygan County      | County   | Approved, expires<br>2028-07-18 | FMA RL 0,<br>SRL 0; any 0                                                                                | \$951,662.49                                                                        | 0; 0                                                                                   | Includes \$5,400 for declarations not counted as hazard incidents (DR-4494-MI). |
| Cheboygan city        | City     | Approved, expires<br>2028-07-18 | FMA RL 0,<br>SRL 0; any 0                                                                                | \$547,913.75                                                                        | 17; 0                                                                                  |                                                                                 |
| Mackinaw City village | Village  | Approved, expires<br>2028-07-18 | FMA RL 0,<br>SRL 0; any 0                                                                                | \$52,366.45                                                                         | 2; 0                                                                                   |                                                                                 |
| Wolverine village     | Village  | Approved, expires<br>2028-07-18 | FMA RL 0,<br>SRL 0; any 0                                                                                | none found                                                                          | 9; 0                                                                                   |                                                                                 |
| Aloha township        | Township | Approved, expires<br>2028-07-18 | FMA RL 0,<br>SRL 0; any 0                                                                                | none found                                                                          | 1; 0                                                                                   |                                                                                 |
| Beaugrand township    | Township | Approved, expires<br>2028-07-18 | FMA RL 0,<br>SRL 0; any 0                                                                                | none found                                                                          | 0; 0                                                                                   |                                                                                 |
| Benton township       | Township | Approved, expires<br>2028-07-18 | FMA RL 0,<br>SRL 0; any 0                                                                                | none found                                                                          | 0; 0                                                                                   |                                                                                 |
| Burt township         | Township | Approved, expires<br>2028-07-18 | FMA RL 0,<br>SRL 0; any 0                                                                                | none found                                                                          | 0; 0                                                                                   |                                                                                 |
| Ellis township        | Township | Approved, expires<br>2028-07-18 | FMA RL 0,<br>SRL 0; any 0                                                                                | none found                                                                          | 0; 0                                                                                   |                                                                                 |
| Forest township       | Township | Approved, expires<br>2028-07-18 | FMA RL 0,<br>SRL 0; any 0                                                                                | none found                                                                          | 0; 0                                                                                   |                                                                                 |

| Member             | Type     | Plan status                  | Repetitive loss<br><i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i> | Public Assistance matched<br><i>federal share obligated, nominal dollars</i> | Event records naming this place<br><i>all years; since the member's plan</i> | Notes |
|--------------------|----------|------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------|
| Grant township     | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | \$21,351                                                                     | 0; 0                                                                         |       |
| Hebron township    | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | none found                                                                   | 0; 0                                                                         |       |
| Inverness township | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | none found                                                                   | 0; 0                                                                         |       |
| Koehler township   | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | none found                                                                   | 0; 0                                                                         |       |
| Mackinaw township  | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | none found                                                                   | 0; 0                                                                         |       |
| Mentor township    | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | none found                                                                   | 0; 0                                                                         |       |
| Mullett township   | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | \$27,758.34                                                                  | 0; 0                                                                         |       |
| Munro township     | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | none found                                                                   | 0; 0                                                                         |       |
| Nunda township     | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | none found                                                                   | 0; 0                                                                         |       |
| Tuscarora township | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | \$73,020.51                                                                  | 0; 0                                                                         |       |
| Walker township    | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | none found                                                                   | 0; 0                                                                         |       |
| Waverly township   | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | none found                                                                   | 0; 0                                                                         |       |
| Wilmot township    | Township | Approved, expires 2028-07-18 | FMA RL 0, SRL 0; any 0                                                               | none found                                                                   | 0; 0                                                                         |       |

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

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

#### SOURCES

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

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

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

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

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

Local data required

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

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

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

| Hazard            | Building exposure<br><i>modeled dollars</i> | Agriculture exposure<br><i>modeled dollars</i> | Population exposed<br><i>people</i> | EAL buildings<br><i>modeled dollars per year</i> | EAL agriculture<br><i>modeled dollars per year</i> | EAL population equivalence<br><i>statistical value of life and injury, \$13.7M per life, not property damage</i> | EAL as % of exposure<br><i>buildings; agriculture where noted</i> | Storm Events damage since 2023-07-19<br><i>county-coded records, property plus crops, nominal dollars</i> | Zone-level damage since plan<br><i>property plus crops, reported for the zone</i> | Public Assistance since plan<br><i>nominal dollars; see note</i> | Note                                                                                                                                                                                                 |
|-------------------|---------------------------------------------|------------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche         |                                             |                                                |                                     |                                                  |                                                    |                                                                                                                  |                                                                   |                                                                                                           |                                                                                   |                                                                  | Not Applicable in NRI for this county                                                                                                                                                                |
| Coastal Flooding  | \$2,101,320,020                             |                                                | 507                                 | \$8,007                                          |                                                    | \$309                                                                                                            | 0.000381%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Cold Wave         | \$10,450,207,166                            | \$9,199,525                                    | 25,564                              | \$554                                            | \$3,977                                            | \$1,524,857                                                                                                      | under 0.0001%                                                     |                                                                                                           | \$0                                                                               |                                                                  |                                                                                                                                                                                                      |
| Drought           |                                             | \$0                                            |                                     |                                                  | \$0                                                |                                                                                                                  |                                                                   |                                                                                                           |                                                                                   |                                                                  | agriculture exposure is 0 in NRI                                                                                                                                                                     |
| Earthquake        | \$17,327,187,995                            |                                                | 25,579                              | \$6,948                                          |                                                    | \$1,469                                                                                                          | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Hail              | \$10,450,207,166                            | \$9,199,525                                    | 25,564                              | \$102,687                                        | \$1,259                                            | \$7,370                                                                                                          | 0.000983%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Heat Wave         | \$10,450,207,166                            | \$9,199,525                                    | 25,564                              | \$553                                            | under \$1                                          | \$50,276                                                                                                         | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Hurricane         | \$10,450,207,166                            | \$9,199,525                                    | 25,564                              | \$6,260                                          | \$163                                              | \$1                                                                                                              | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Ice Storm         | \$10,450,207,166                            |                                                | 25,564                              | \$1,684                                          |                                                    | \$607                                                                                                            | under 0.0001%                                                     |                                                                                                           |                                                                                   | \$2,564,643.54                                                   |                                                                                                                                                                                                      |
| Inland Flooding   | \$10,390,762,168                            | \$10,602                                       | 432                                 | \$12,970,148                                     | \$15                                               | \$167                                                                                                            | n/a (see note)                                                    | \$1,000                                                                                                   |                                                                                   | \$69,026.47                                                      | NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. EAL as % of exposure: n/a. |
| Landslide         | \$104,224,806                               |                                                | 247                                 | \$226                                            |                                                    | \$3,053                                                                                                          | 0.000217%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Lightning         | \$10,450,207,166                            |                                                | 25,564                              | \$10,912                                         |                                                    | \$146,786                                                                                                        | 0.000104%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Strong Wind       | \$10,450,207,166                            | \$9,199,525                                    | 25,564                              | \$51,025                                         | \$461                                              | \$56,893                                                                                                         | 0.000488%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Tornado           | \$10,450,207,166                            | \$9,199,525                                    | 25,564                              | \$126,861                                        | \$52                                               | \$152,360                                                                                                        | 0.00121%                                                          |                                                                                                           |                                                                                   | \$69,026.47                                                      |                                                                                                                                                                                                      |
| Tsunami           |                                             |                                                |                                     |                                                  |                                                    |                                                                                                                  |                                                                   |                                                                                                           |                                                                                   |                                                                  | NRI publishes no building exposure for this county                                                                                                                                                   |
| Volcanic Activity |                                             |                                                |                                     |                                                  |                                                    |                                                                                                                  |                                                                   |                                                                                                           |                                                                                   |                                                                  | Not Applicable in NRI for this county                                                                                                                                                                |
| Wildfire          | \$2,456,551,804                             | \$2,223,201                                    | 7,571                               | \$7,351                                          | \$1                                                | \$558                                                                                                            | 0.000299%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Winter Weather    | \$10,450,207,166                            | \$9,199,525                                    | 25,564                              | \$2,006                                          | \$84                                               | \$13,738                                                                                                         | under 0.0001%                                                     |                                                                                                           | \$0                                                                               | \$2,564,643.54                                                   |                                                                                                                                                                                                      |

Totals since 2023-07-19 (Storm Events through 2026-06-30): 3 county-coded records, 1 with a damage value recorded (including \$0), \$1,000; 19 zone-level records, 4 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance on counted declarations \$2,633,670.01 (2 declarations, 2 with PA).

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

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

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

**SOURCES**  
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_Counties.zip](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](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip) (download, 635 MB)  
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>  
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>  
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)  
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)  
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

## Supports B2-a: context

### County context

| Measure                                                                                                                                                                       | Value            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Population                                                                                                                                                                    | 25,564           |
| Building value (total, not at risk)                                                                                                                                           | \$10,450,207,166 |
| Agriculture value (total, not at risk)                                                                                                                                        | \$9,199,525      |
| NRI risk rating (all hazards)                                                                                                                                                 | Relatively Low   |
| Expected annual loss, buildings and agriculture, all hazards                                                                                                                  | \$13,301,231     |
| 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) | \$1,958,444      |
| Social vulnerability rating                                                                                                                                                   | Very High        |
| Community resilience rating                                                                                                                                                   | Relatively High  |
| NRI version                                                                                                                                                                   | December 2025    |

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

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

## Supports B2-c: repetitive loss

### Repetitive loss in this county, both definitions

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

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

**SOURCES**FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)**Repeat-flood properties: county and state-level rows**

| Scope                                                | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> |
|------------------------------------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|
| County total                                         | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| State level, not in this county: county not reported | 0                            | 0                             | 4                             | 0                              | 4                                 | 0                              | 0                                      |

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

| Member                | NFIP community ID | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> | Note |
|-----------------------|-------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|------|
| Cheboygan County      | 261884            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Cheboygan city        | 260058            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Mackinaw City village | 260675            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Wolverine village     | 261373            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Aloha township        | 261363            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Beaugrand township    | 260646            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Benton township       | 261507            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Burt township         | 261505            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Ellis township        | 261364            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Forest township       | 260373            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Grant township        | 260610            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Hebron township       | 261365            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Inverness township    | 261366            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Koehler township      | 261398            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Mackinaw township     | 260674            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Mentor township       | 261399            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Mullett township      | 261508            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Munro township        | 261367            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Nunda township        | 261368            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Tuscarora township    | 261369            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Walker township       | 261370            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Waverly township      | 261506            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Wilmot township       | 261372            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |

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

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

SOURCES

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

County repeat-flood properties by occupancy group

| Occupancy group           | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> |
|---------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|
| single-family residential | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| 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                                      |

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

SOURCES

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

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

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

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

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

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

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_Counties.zip](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](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip) (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-28, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_counties\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_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_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_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_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_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/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/codes2020/national_place_by_county2020.txt), [https://www2.census.gov/geo/docs/reference/ct\\_change/ct\\_cou\\_to\\_cousub\\_crosswalk.xlsx](https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx)

---

## 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).

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.

---

## Reuse, citation and corrections

Reuse and citation: Hazard Plain text and tables are licensed under Creative Commons Attribution 4.0 International (CC BY 4.0, <https://creativecommons.org/licenses/by/4.0/>); credit Hazard Plain and the release. The underlying federal data are public domain; OpenFEMA data are also subject to the OpenFEMA terms and conditions.

Cite this: Hazard Plain (2026). Cheboygan County, MI: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 26031). Preview: automated baseline. 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: to be added

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain\_2026-10\_MI\_26031. Preview: automated baseline.