

Berrien County, MI

Risk-assessment baseline packet

County FIPS: 26021 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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

Summary

Plan status as of 2026-09-30: Approved, expires 2028-03-19. Plan: Berrien County HMP Update (FEMA plan 108731), approved 2023-03-20.
Since the plan was approved on 2023-03-20: no new federal declaration.
NOAA Storm Events records since that date: 68 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$27,140,037 a year), Cold Wave (\$6,271,371) and Tornado (\$4,686,073).
Repetitive-loss flood properties now: FMA RL 1, SRL 1 (44 CFR 77.2); any definition: 18.
The tables that follow are organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B (B1-a to B2-c); each heading says which item its tables support.

TERMS USED

EAL: expected annual loss: FEMA's modeled average yearly loss from a hazard.
NRI: FEMA's National Risk Index (version 1.20, December 2025).
NFIP: National Flood Insurance Program.
RL, SRL: repetitive loss and severe repetitive loss: flood-insured properties with repeated claims (definitions in B2-c).
FMA, HMGP: Flood Mitigation Assistance and Hazard Mitigation Grant Program, FEMA mitigation grants.
PA: FEMA Public Assistance: disaster aid to governments and some nonprofits.
Zone-level: NOAA logged the event for a National Weather Service forecast zone, which may include parts of neighboring counties.
County-coded: NOAA logged the event to this county.
FIPS: the federal code for a place; 26021 is this area.
D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).
F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.
kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.
CFR: Code of Federal Regulations.
A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).
Dollars: nominal (as reported, labeled with the year), not adjusted for inflation.

CONTENTS

1. Summary and terms used, page 1
2. Plan clock, page 2
3. What changed since your last plan (approved 2023-03-20), page 2
4. Supports FEMA checklist item B1-a: hazard identification, page 5
5. Supports FEMA checklist item B1-b: hazard location, page 6
6. Supports FEMA checklist item B1-c: hazard extent, page 7
7. Supports FEMA checklist item B1-d: previous occurrences, page 10
8. Supports FEMA checklist item B1-e: probability of future events, page 13
9. Supports FEMA checklist item B1-f: hazards that vary across jurisdictions, page 16
10. Supports FEMA checklist items B2-a and B2-b: vulnerability and potential impacts, page 19
11. Supports FEMA checklist item B2-a: vulnerability (county context), page 21
12. Supports FEMA checklist item B2-c: repetitive loss properties, page 21
13. Sources, what the plan adds, disclaimer and citation, page 24

Plan clock

Status:	Approved, expires 2028-03-19	Plan:	Berrien County HMP Update (FEMA plan 108731)
Approved:	2023-03-20	Days to expiry:	536
What changed since your last plan (approved 2023-03-20)			
New federal declarations:	none	Storm Events records since approval:	68 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 1, SRL 1 (44 CFR 77.2); any definition: 18	Repeat-flood change:	this release sets the baseline count.
Sources: 1, 2, 4, 6 (numbered list at the end)			

Plan status for every jurisdiction listed in this county: 40 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Notes
Berrien County	County	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Baroda village	Village	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Benton Harbor city	City	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Berrien Springs village	Village	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Bridgman city	City	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Buchanan city	City	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Coloma city	City	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Eau Claire village	Village	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Galien village	Village	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Grand Beach village	Village	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Michiana village	Village	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
New Buffalo city	City	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Niles city	City	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Shoreham village	Village	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
St. Joseph city	City	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Stevensville village	Village	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Three Oaks village	Village	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Watervliet city	City	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Bainbridge township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Baroda township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Benton charter township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Berrien township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Bertrand township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Buchanan township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Chikaming township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Coloma charter township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	this jurisdiction approved 2023-05-01
Galien township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Hagar township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Lake charter township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Lincoln charter township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Notes
New Buffalo township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Niles township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	this jurisdiction approved 2023-05-01
Oronoko charter township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	this jurisdiction approved 2023-05-01
Pipestone township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	this jurisdiction approved 2023-05-01
Royalton township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Sodus township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
St. Joseph charter township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Three Oaks township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Watervliet township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	
Weesaw township	Township	Approved, expires 2028-03-19	Berrien County HMP Update (FEMA plan 108731)	2023-03-20	2028-03-19	536	

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Inland Flooding	Relatively Moderate	Relatively Moderate	\$27,049,517	\$44,320	\$46,201	\$27,140,037	37	
2	Cold Wave	Relatively Moderate	Relatively High	\$40	\$403,010	\$5,868,321	\$6,271,371	5	Includes 1 Frost/Freeze record (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
3	Tornado	Relatively Moderate	Relatively Moderate	\$2,342,462	\$1,434	\$2,342,177	\$4,686,073	8	
4	Strong Wind	Relatively High	Relatively High	\$256,449	\$53,921	\$2,734,700	\$3,045,069	272	Includes 17 High Wind and 3 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
5	Hail	Relatively Moderate	Relatively Moderate	\$1,493,411	\$57,331	\$117,790	\$1,668,531	76	
6	Earthquake	Relatively Low	Relatively Low	\$695,028	n/a	\$201,972	\$897,000		Storm Events does not record earthquakes.
7	Heat Wave	Relatively Low	Relatively Low	\$10,314	\$2	\$713,007	\$723,323	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
8	Lightning	Relatively Moderate	Relatively Moderate	\$55,834	n/a	\$288,855	\$344,689	3	
9	Winter Weather	Relatively Moderate	Relatively Moderate	\$1,732	\$1,670	\$165,816	\$169,218	155	
10	Ice Storm	Relatively Low	Relatively Low	\$16,709	n/a	\$60,130	\$76,839	5	
11	Hurricane	Very Low	Very Low	\$11,565	\$4,428	\$8	\$16,001	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
12	Coastal Flooding	Very Low	Very Low	\$12,973	n/a	\$305	\$13,278	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Wildfire	Very Low	Very Low	\$8,672	\$5	\$853	\$9,530	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$710	n/a	\$2,159	\$2,868	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Drought	No Rating	No Expected Annual Losses	n/a	\$0	n/a	\$0	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Tsunami	Insufficient Data	Insufficient Data	n/a	n/a	n/a	n/a	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

NRI risk rating combines expected annual loss with social vulnerability and community resilience; EAL rating rates expected annual loss alone. Both compare this county with all U.S. counties.

Local data needed: state and local wildfire, landslide and tsunami records (Storm Events records these hazards only in part).

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: avalanche and volcanic activity. That is the evidence for leaving them out of the plan.

The state hazard mitigation plan also lists hazards for this county; FEMA asks the plan to explain any hazard it leaves out.

Supports FEMA checklist item B1-b: hazard location

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

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

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

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 21 (Relatively Low, 64.3); tract 213 (Relatively Low, 63.1); tract 24 (Relatively Low, 58.8)
Hurricane	tract 106 (Very Low, 35.7); tract 203 (Very Low, 35.1); tract 214 (Very Low, 35.0)
Landslide	tract 111.01 (Relatively Low, 92.1); tract 106 (Relatively Low, 87.1); tract 201 (Relatively Low, 84.4)
Tornado	tract 103 (Relatively Moderate, 70.9); tract 18 (Relatively Moderate, 69.1); tract 106 (Relatively Moderate, 68.0)
Tsunami	no tract has a National Risk Index rating for this hazard
Wildfire	tract 101 (Very Low, 64.4); tract 103 (Very Low, 63.4); tract 112.01 (Very Low, 61.9)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 21 is Census Tract 21). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Coastal Flood, Storm Surge/ Tide	none in data (flood depth: FIRM)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	4 records, 2014 to 2022 (4 zone-level)	1 day to 2 days (median 2 days); 4 with a recorded value	2 consecutive days, 2022-12-23 to 2022-12-24, zone-level		Countywide (zone-level records).	Wind chill: in event narratives only (local data needed).
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	1 record, 2012 (1 zone-level)		Frost/Freeze, 2012-04-12, \$8,000,000 crop damage (2012 dollars); NWS zone MIZ077		Countywide (zone-level records).	Temperature: in event narratives only (local data needed).
Drought	U.S. Drought Monitor scale (D0 to D4)	0					Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	109 records, 1955 to 2026	0.75 in to 2.25 in (median 1 in); 109 with a recorded value	2.25 in hail, 1997-07-02	Hail, 1997-07-02, property not reported; \$1,200,000 crops (1997 dollars)	Event records naming jurisdictions in the plan: Berrien Springs village (8 records), Stevensville village (8 records), St. Joseph charter township (7 records), St. Joseph city (7 records), Baroda township (6 records), Baroda village (6 records), Bridgman city (4 records), Buchanan city (4 records), Buchanan township (4 records), Niles city (4 records); and 10 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	0					Heat index: in event narratives only (local data needed).
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Ice Storm	Sperry-Piltz ice scale (local data)	5 records, 1997 to 2013 (5 zone-level)		Ice Storm, 2007-02-24, \$30,000 property; \$0 crops (2007 dollars); NWS zone MIZ077		Countywide (zone-level records).	Ice thickness: in event narratives only (local data needed).
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	37 records, 1996 to 2026 (8 zone-level)		Flood, 2018-02-20, \$8,400,000 property; \$0 crops (2018 dollars)		Event records naming jurisdictions in the plan: New Buffalo city (3 records), New Buffalo township (3 records), Bertrand township (2 records), Coloma charter township (2 records), Coloma city (2 records), Niles city (2 records), Niles township (2 records), Stevensville village (2 records), Watervliet city (2 records), Watervliet township (2 records); and 6 more jurisdictions (see the Excel file). Zone-level records (8) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	0					Physical measure: in event narratives only (local data needed).
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	3 records, 2001 to 2006		Lightning, 2001-06-12, \$800,000 property; crops not reported (2001 dollars)		Event records naming jurisdictions in the plan: Niles city (1 record), Niles township (1 record), St. Joseph charter township (1 record), St. Joseph city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	20 records, 1997 to 2026 (20 zone-level)	42 kt (48 mph) to 56 kt (64 mph) (median 51 kt (59 mph)); 17 with a recorded value	56 kt (64 mph) measured gust, High Wind, 2003-11-12; NWS zone MIZ077	Strong Wind, 2026-04-27, \$10,000 property; \$0 crops, reported for the zone (2026 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	333 records, 1955 to 2026	43 kt (49 mph) to 83 kt (96 mph) (median 55 kt (63 mph)); 238 with a recorded value	83 kt (96 mph) estimated gust, Thunderstorm Wind, 2010-06-05	Thunderstorm Wind, 1997-07-02, \$300,000 property; crops not reported (1997 dollars)	Event records naming jurisdictions in the plan: Niles city (24 records), Niles township (24 records), Buchanan city (19 records), Buchanan township (19 records), Berrien Springs village (18 records), St. Joseph charter township (17 records), St. Joseph city (17 records), Stevensville village (15 records), Galien township (12 records), Galien village (12 records); and 17 more jurisdictions (see the Excel file).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	32 records, 1956 to 2017	F/EF0 to F/EF2 (median F/EF1); 32 with a recorded value	F2 tornado, 1976-03-04, 20 mi path length (whole path, pre-1996), 100 yd wide, \$250,000 property; crops not recorded (1976 dollars), 9 direct injuries	Tornado, 1998-08-25, \$1,100,000 property; crops not reported (1998 dollars)	Event records naming jurisdictions in the plan: Niles city (3 records), Niles township (3 records), Baroda township (1 record), Baroda village (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Tsunami	none (count and damage only)	0					Physical measure: in event narratives only (local data needed).
Wildfire	acres burned (local data)	0					Acres burned: in event narratives only (local data needed).
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	155 records, 1996 to 2026 (155 zone-level)		Lake-Effect Snow, 2007-11-22, \$20,000 property; \$0 crops (2007 dollars); NWS zone MIZ077		Countywide (zone-level records).	Snow depth: in event narratives only (local data needed).

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

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records whose zone no NWS zone-county file places in this county (mostly before 2020) are not counted here (the Methods page explains the zone matching).

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 12 declarations covering 9 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Notes
2020-03-27	2020-01-20	DR-4494-MI	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$393,601.68	
2020-03-13	2020-01-20	EM-3455-MI	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded	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	\$3,812.66	
2004-06-30	2004-05-20	DR-1527-MI	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	PA not declared for this county	
2001-01-10	2000-12-11	EM-3160-MI	Emergency	Snow	Winter Weather	\$162,962.50	
1999-01-27	1999-01-02	EM-3137-MI	Emergency	Mi - Severe Weather 1/2 /99	Winter Weather	\$163,499.79	
1982-03-29	1982-03-29	DR-654-MI	Major disaster	Flooding	Inland Flooding	PA not declared for this county	
1980-09-08	1980-09-08	DR-631-MI	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded	
1978-01-27	1978-01-27	EM-3057-MI	Emergency	Blizzards & Snowstorms	Winter Weather	no Public Assistance recorded	
1975-04-26	1975-04-26	DR-465-MI	Major disaster	Severe Storms, High Winds & Flooding	Inland Flooding (primary); also designated: Strong Wind	no Public Assistance recorded	
1973-04-12	1973-04-12	DR-371-MI	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded	
1972-12-01	1972-12-01	DR-363-MI	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded	

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

Statewide declarations

Source: 2

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

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

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval records	In the 12 months before plan approval records	Last 5 years records	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	5	0	1	1	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record.
Drought	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	109	8	2	10	0	0	1955 to 2026-06-30	
Heat Wave	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
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	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	37	8	0	8	6	0	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	353	37	14	59	1	0	1955 to 2026-06-30	Includes 17 High Wind and 3 Strong Wind records.
Tornado	32	0	0	0	1	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	155	15	6	27	3	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2022-12-23	Cold/Wind Chill		\$0 property; \$0 crops, reported for the zone (2022 dollars)	0, 0	NWS zone MIZ277 (SOUTHERN BERRIEN COUNTY), zone-level	in the 12 months before plan approval; within last 5 years	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2018-02-20	Flood		\$8,400,000 property; \$0 crops (2018 dollars)	0, 0	MICHIANA SHRS to BERTRAND		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2012-04-12	Frost/Freeze		\$0 property; \$8,000,000 crops, reported for the zone (2012 dollars)	0, 0	NWS zone MIZ077 (BERRIEN), zone-level		B1-c worst recorded: Frost/Freeze
2011-09-30	High Wind	55 kt (63 mph) estimated gust	\$0 property; \$0 crops, reported for the zone (2011 dollars)	1, 0	NWS zone MIZ077 (BERRIEN), zone-level		deaths or injuries recorded
2010-06-05	Thunderstorm Wind	83 kt (96 mph) estimated gust	\$30,000 property; \$120,000 crops (2010 dollars)	0, 0	ARDEN to BERRIEN CENTER		B1-c worst recorded: Thunderstorm Wind
2007-11-22	Lake-Effect Snow		\$20,000 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone MIZ077 (BERRIEN), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2004-05-21	Thunderstorm Wind	60 kt (69 mph) estimated gust	\$10,000 property; crops not reported (2004 dollars)	1, 0	COLOMA		deaths or injuries recorded
2003-11-12	High Wind	56 kt (64 mph) measured gust	\$0 property; crops not reported, reported for the zone (2003 dollars)	0, 0	NWS zone MIZ077 (BERRIEN), zone-level		B1-c worst recorded: High Wind and Strong Wind
2001-06-12	Lightning		\$800,000 property; crops not reported (2001 dollars)	0, 0	BENTON CENTER		B1-c worst recorded: Lightning
1997-07-02	Hail	2.25 in	property not reported; \$100,000 crops (1997 dollars)	0, 0	HOLLYWOOD		B1-c worst recorded: Hail
1988-07-16	Thunderstorm Wind	speed not recorded	damage not recorded (pre-1996 record)	1, 4	location not recorded		deaths or injuries recorded
1976-03-04	Tornado	F2, 20 mi path length (whole path, pre-1996), 100 yd wide	\$250,000 property; crops not recorded (1976 dollars)	0, 9	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (699 rows).

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

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

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

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

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Coastal Flooding	0.0145	events per year at a location (modeled)	about 0.015 per year at a given location in the county		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Cold Wave	2.26	event-days per year	about 2.26 days per year	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	39.8	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	0	event-days per year	none modeled		event-days in 0 of 30 years, 1996 to 2025 (0%)	0	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.00101	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.101%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	2.34	events per year	about 2.34 per year	Highly likely	FEMA annualized frequency (modeled)	90.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	3.53	event-days per year	about 3.53 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	47.1	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events heat wave record, 1996 to 2025
Hurricane	0.0106	events per year	about 1 in 95 years	Possible	FEMA annualized frequency (modeled)	2	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	1.19	event-days per year	about 1.19 days per year	Likely (from Storm Events: 5 of 30 years)	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	30	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.714	event-days per year	about 0.714 days per year	Likely (from Storm Events: 12 of 30 years)	event-days in 12 of 30 years, 1996 to 2025 (40%)	20	1996 to 2023 (28 years)	see B1-f	
Landslide	0.163	events per year (modeled)	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	

Hazard	FEMA annualized frequency (modeled)	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area- weighted, so can be fractional)				Location	Note
	<i>unit per row</i>						NRI period				
Lightning	37.8	days per year with a strike	about 37.8 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)			countywide	
Strong Wind	4.21	events per year	about 4.21 per year	Highly likely	FEMA annualized frequency (modeled)	61	1986 to 2023 (38 years)			countywide	
Tornado	0.679	events per year	about 0.68 per year	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)			see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)			Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled			see B1-f	No descriptor: no Storm Events record 1996 to 2025
Wildfire	0.0000181	annual probability at a location	chance a given location in the county burns in a year: 0.00181%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled			see B1-f	No descriptor: no Storm Events record 1996 to 2025
Winter Weather	23	event-days per year	about 23 days per year	Highly likely (from Storm Events: 30 of 30 years)	event-days in 30 of 30 years, 1996 to 2025 (100%)	415	2005-11-12 to 2024-11-12 (19 years)			countywide	

FEMA annualized frequency (modeled) is the National Risk Index v1.20 (December 2025) estimate of how often a hazard affects this county in a year; it is not recorded events divided by years, and its unit differs by hazard (events, event-days, or days with a lightning strike per year). For earthquake, wildfire, coastal flooding and tsunami the value is the chance (or number of events) at a location in the county, not across the county, so no "1 in N years" is given and the descriptor comes from Storm Events where it has a record (none for earthquake). The Methods page gives each hazard's method, from FEMA's National Risk Index Technical Documentation v1.20.

Where NRI gives event-days, the descriptor comes from the share of years with a Storm Events record; NRI's source records more events, so the two differ.

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	37	30	1.23
Hail	2.00 in+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	196	30	6.53
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	7	30	0.233
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	45	30	1.5
Tornado	EF0-1	1996 to 2025	7	30	0.233
Tornado	EF2-3	1996 to 2025	1	30	0.0333
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Coastal Flooding	29 of 53	68.0	74.3	84.0	Relatively Low 5, Very Low 24, No Rating 24
Cold Wave	53 of 53	52.3	68.5	86.2	Relatively High 12, Relatively Moderate 41
Drought	0 of 53				No Rating 53
Earthquake	53 of 53	18.6	34.2	64.3	Relatively Low 17, Very Low 36
Hail	53 of 53	49.4	76.6	85.5	Relatively Moderate 41, Relatively Low 12
Heat Wave	53 of 53	8.5	16.6	40.2	Relatively Low 26, Very Low 27
Hurricane	53 of 53	14.8	24.2	35.7	Very Low 53
Ice Storm	53 of 53	5.4	15.9	40.9	Relatively Low 6, Very Low 47
Inland Flooding	53 of 53	1.9	39.8	84.2	Relatively High 2, Relatively Moderate 15, Relatively Low 27, Very Low 9
Landslide	53 of 53	17.5	60.3	92.1	Relatively Low 7, Very Low 46
Lightning	53 of 53	17.3	31.5	54.9	Relatively Moderate 4, Relatively Low 47, Very Low 2
Strong Wind	53 of 53	61.8	79.5	93.0	Relatively High 20, Relatively Moderate 33
Tornado	53 of 53	35.9	55.0	70.9	Relatively Moderate 32, Relatively Low 21
Tsunami	0 of 53				Insufficient Data 53
Wildfire	52 of 53	25.3	41.0	64.4	Very Low 52, No Rating 1
Winter Weather	53 of 53	40.1	52.0	72.9	Relatively Moderate 42, Relatively Low 11

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

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

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

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Berrien County	County	Approved, expires 2028-03-19		\$3,736.75	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Baroda village	Village	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	15 total; 3 since its plan	
Benton Harbor city	City	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	\$12,304.18	12 total; 1 since its plan	Includes \$3,812.66 for declarations not counted as hazard incidents (EM-3225-MI).
Berrien Springs village	Village	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	\$2,046	26 total; 4 since its plan	
Bridgman city	City	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	\$8,294.18	11 total; 1 since its plan	
Buchanan city	City	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	\$12,518.44	23 total; 4 since its plan	
Coloma city	City	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	11 total; 1 since its plan	
Eau Claire village	Village	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	5 total; 0 since its plan	
Galien village	Village	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	15 total; 1 since its plan	
Grand Beach village	Village	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	5 total; 0 since its plan	
Michiana village	Village	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
New Buffalo city	City	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	\$3,374.85	17 total; 4 since its plan	
Niles city	City	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 2	\$37,238.68	34 total; 2 since its plan	
Shoreham village	Village	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	3 total; 1 since its plan	
St. Joseph city	City	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	\$32,055.45	26 total; 2 since its plan	Includes \$9,548.68 for declarations not counted as hazard incidents (DR-4494-MI).
Stevensville village	Village	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	\$2,706.75	25 total; 2 since its plan	
Three Oaks village	Village	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	15 total; 1 since its plan	
Watervliet city	City	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	4 total; 2 since its plan	

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
Bainbridge township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Baroda township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	15 total; 3 since its plan	
Benton charter township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Berrien township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Bertrand township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	5 total; 0 since its plan	
Buchanan township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	23 total; 4 since its plan	
Chikaming township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Coloma charter township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 4	no Public Assistance recorded	11 total; 1 since its plan	
Galien township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	15 total; 1 since its plan	
Hagar township	Township	Approved, expires 2028-03-19	FMA RL 1, SRL 1; any 1	no Public Assistance recorded	0 total; 0 since its plan	
Lake charter township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Lincoln charter township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
New Buffalo township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	17 total; 4 since its plan	
Niles township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	34 total; 2 since its plan	
Oronoko charter township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	0 total; 0 since its plan	
Pipestone township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Royalton township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 5	no Public Assistance recorded	0 total; 0 since its plan	
Sodus township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	1 total; 0 since its plan	
St. Joseph charter township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 2	no Public Assistance recorded	26 total; 2 since its plan	

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Three Oaks township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	15 total; 1 since its plan	
Watervliet township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	4 total; 2 since its plan	
Weesaw township	Township	Approved, expires 2028-03-19	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	0 total; 0 since its plan	

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

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year; not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2023-03-20 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Coastal Flooding	\$2,253,579,205	n/a	3,570	\$12,973	n/a	\$305	0.000576%				
Cold Wave	\$37,831,618,834	\$220,637,714	154,234	\$40	\$403,010	\$5,868,321	under 0.0001%				
Drought	n/a	\$0	n/a	n/a	\$0	n/a					agriculture exposure is 0 in NRI
Earthquake	\$66,064,233,166	n/a	154,316	\$695,028	n/a	\$201,972	0.00105%				
Hail	\$37,831,618,834	\$220,637,714	154,234	\$1,493,411	\$57,331	\$117,790	0.00395%	\$7,500			
Heat Wave	\$37,831,618,834	\$220,637,714	154,234	\$10,314	\$2	\$713,007	under 0.0001%				
Hurricane	\$37,333,282,743	\$220,468,264	152,733	\$11,565	\$4,428	\$8	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2023-03-20 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Ice Storm	\$37,818,670,332	n/a	154,181	\$16,709	n/a	\$60,130	under 0.0001%				
Inland Flooding	\$37,796,043,779	\$4,858,339	2,653	\$27,049,517	\$44,320	\$46,201	n/a (see note)	\$37,000			NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$501,186,211	n/a	1,711	\$710	n/a	\$2,159	0.000142%				
Lightning	\$37,831,618,834	n/a	154,234	\$55,834	n/a	\$288,855	0.000148%				
Strong Wind	\$37,831,618,834	\$220,637,714	154,234	\$256,449	\$53,921	\$2,734,700	0.000678%	\$210,500	\$10,000		Storm Events damage since the plan includes 1 zone-level Strong Wind record (\$10,000): a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition.
Tornado	\$37,831,618,834	\$220,637,714	154,234	\$2,342,462	\$1,434	\$2,342,177	0.00619%				
Tsunami	n/a	n/a	n/a	n/a	n/a	n/a					NRI publishes no building exposure for this county
Wildfire	\$6,084,922,367	\$36,058,001	28,422	\$8,672	\$5	\$853	0.000143%				
Winter Weather	\$37,831,618,834	\$220,637,714	154,234	\$1,732	\$1,670	\$165,816	under 0.0001%		\$0		

Totals since 2023-03-20 (Storm Events through 2026-06-30): 51 county-coded records, 51 with a damage value recorded (including \$0), \$255,000; 17 zone-level records, 17 with a damage value recorded (including \$0), \$10,000 reported for the zone; Public Assistance: no counted declaration since the plan.

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

NRI computes earthquake exposure on its own basis, so it exceeds the county building value in B2-a.

Supports FEMA checklist item B2-a: vulnerability (county context)

County context

Source: 5

Measure	Value
Population	154,234
Building value (total, not at risk)	\$37,831,618,834
Agriculture value (total, not at risk)	\$220,637,714
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$32,521,536
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)	\$12,542,292
Social vulnerability rating	Relatively Moderate
Community resilience rating	Very High
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	1	Severe repetitive loss, FMA definition (44 CFR 77.2)	1
Repetitive loss, NFIP insurance definition	18	Severe repetitive loss, NFIP insurance definition	1

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	1	1	18	1	18	0	3
of which: Coloma charter township	0	0	4	0	4	0	0
of which: Hagar township	1	1	1	1	1	0	0
of which: Niles city	0	0	2	0	2	0	0
of which: Oronoko charter township	0	0	1	0	1	0	1
of which: Royalton township	0	0	5	0	5	0	1
of which: St. Joseph charter township	0	0	2	0	2	0	1
of which: Watervliet city	0	0	1	0	1	0	0
of which: Weesaw township	0	0	1	0	1	0	0
of which: Baroda township	0	0	1	0	1	0	0
Statewide, no county in FEMA's file	0	0	4	0	4	0	0

The statewide row counts properties FEMA's file gives with no county in this state; they are listed for reference and are not in this county's counts.

Repeat-flood properties by jurisdiction in the plan (NFIP community)

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Baroda village	261105	0	0	0	0	0	0	0
Benton Harbor city	260032	0	0	0	0	0	0	0
Berrien Springs village	260330	0	0	0	0	0	0	0
Bridgman city	260033	0	0	0	0	0	0	0
Buchanan city	260554	0	0	0	0	0	0	0
Coloma city	260556	0	0	0	0	0	0	0
Eau Claire village	260999	0	0	0	0	0	0	0
Galien village	261107	0	0	0	0	0	0	0
Grand Beach village	260268	0	0	0	0	0	0	0
Michiana village	260275	0	0	0	0	0	0	0
New Buffalo city	260038	0	0	0	0	0	0	0
Niles city	260040	0	0	2	0	2	0	0
Shoreham village	260280	0	0	0	0	0	0	0
St. Joseph city	260044	0	0	0	0	0	0	0
Stevensville village	260557	0	0	0	0	0	0	0
Three Oaks village	261110	0	0	0	0	0	0	0

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Watervliet city	260047	0	0	1	0	1	0	0
Bainbridge township	261103	0	0	0	0	0	0	0
Baroda township	261106	0	0	1	0	1	0	0
Benton charter township	260031	0	0	0	0	0	0	0
Berrien township	260733	0	0	0	0	0	0	0
Bertrand township	261109	0	0	0	0	0	0	0
Buchanan township	260555	0	0	0	0	0	0	0
Chikaming township	260258	0	0	0	0	0	0	0
Coloma charter township	260034	0	0	4	0	4	0	0
Galien township	261108	0	0	0	0	0	0	0
Hagar township	260035	1	1	1	1	1	0	0
Lake charter township	260036	0	0	0	0	0	0	0
Lincoln charter township	260037	0	0	0	0	0	0	0
New Buffalo township	260039	0	0	0	0	0	0	0
Niles township	260041	0	0	0	0	0	0	0
Oronoko charter township	260042	0	0	1	0	1	0	1
Pipestone township	261104	0	0	0	0	0	0	0
Royalton township	260043	0	0	5	0	5	0	1
Sodus township	260046	0	0	0	0	0	0	0
St. Joseph charter township	260045	0	0	2	0	2	0	1
Three Oaks township	261111	0	0	0	0	0	0	0
Watervliet township	260048	0	0	0	0	0	0	0
Weesaw township	260049	0	0	1	0	1	0	0

Counts by occupancy group for each jurisdiction are in the Excel file, sheet "B2-c Jurisdictions".

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

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	1	1	17	1	17	0	3
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	1	0	1	0	0
not reported	0	0	0	0	0	0	0

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

FMA RL and FMA SRL are the Flood Mitigation Assistance definitions (44 CFR 77.2), the ones the FEMA Local Mitigation Planning Policy Guide cites. NFIP repetitive loss (the FEMA insurance definition) is 2 or more claims over \$1,000 in 10 years, and a property can leave that group once it is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured. The Methods page gives the OpenFEMA field details.

Counts are aggregates of FEMA's public NFIP Multiple Loss Properties file (FEMA's data date 2026-08-02; file version 2026-08-04). No property is identified. County assignment is FEMA's geocode.

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 17 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)

What this packet is and what the plan adds

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

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

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

OpenFEMA disclaimer

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

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Berrien County, MI: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 26021). Automated baseline. <https://hazardplain.org/mi/26021/> Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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

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