

St. Clair County, MI

Risk-assessment baseline packet

County FIPS: 26147 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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

Summary

Plan status as of 2026-09-30: Approved, expires 2027-08-29. Plan: St. Clair County Update (FEMA plan 108393), approved 2022-08-30.
Since the plan was approved on 2022-08-30: no new federal declaration.
NOAA Storm Events records since that date: 45 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$28,978,389 a year), Cold Wave (\$10,031,204) and Tornado (\$6,213,294).
Repetitive-loss flood properties now: FMA RL 1, SRL 4 (44 CFR 77.2); any definition: 73.
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; 26147 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 2022-08-30), 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 20
12. Supports FEMA checklist item B2-c: repetitive loss properties, page 21
13. Sources, what the plan adds, disclaimer and citation, page 23

Plan clock

Status:	Approved, expires 2027-08-29	Plan:	St. Clair County Update (FEMA plan 108393)
Approved:	2022-08-30	Days to expiry:	333
Update underway:	none recorded in FEMA's plan tracker		

What changed since your last plan (approved 2022-08-30)

New federal declarations:	none	Storm Events records since approval:	45 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 1, SRL 4 (44 CFR 77.2); any definition: 73	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: 33 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
St. Clair County	County	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-09-15
Algonac city	City	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-09-15
Capac village	Village	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-12-07
Emmett village	Village	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-18
Marine City city	City	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-05
Marysville city	City	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-09-15
Memphis city	City	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-05
Port Huron city	City	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-05
St. Clair city	City	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-27
Yale city	City	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-12-07
Berlin township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-27
Brockway township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-12-21
Burtchville township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-05
Casco township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-09-15
China township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-12-07
Clay township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-05
Clyde township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-05
Columbus township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-05
Cottrellville township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-12-07

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Notes
East China township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	
Emmett township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-12-07
Fort Gratiot charter township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-13
Grant township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-05
Greenwood township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-05
Ira township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-09-15
Kenockee township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-05
Kimball township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-09-30
Lynn township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-11-14
Mussey township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-18
Port Huron charter township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-05
Riley township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-11
St. Clair township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-10-05
Wales township	Township	Approved, expires 2027-08-29	St. Clair County Update (FEMA plan 108393)	2022-08-30	2027-08-29	333	this jurisdiction approved 2022-09-15

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	\$28,933,199	\$37,302	\$7,887	\$28,978,389	30	
2	Cold Wave	Relatively High	Relatively High	\$1,746	\$65,490	\$9,963,968	\$10,031,204	15	Includes 2 Frost/Freeze records (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	\$2,622,956	\$1,287	\$3,589,051	\$6,213,294	10	
4	Strong Wind	Relatively High	Relatively High	\$1,679,657	\$1,250	\$59,605	\$1,740,511	286	Includes 36 High Wind and 7 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
5	Heat Wave	Relatively Low	Relatively Low	\$6,282	\$1	\$727,021	\$733,303	13	
6	Ice Storm	Relatively High	Relatively High	\$695,707	n/a	\$9,558	\$705,264	6	
7	Earthquake	Very Low	Relatively Low	\$236,091	n/a	\$68,874	\$304,965		Storm Events does not record earthquakes.
8	Hail	Relatively Low	Relatively Low	\$225,090	\$17,084	\$13,486	\$255,660	87	
9	Lightning	Relatively Low	Relatively Low	\$64,016	n/a	\$135,426	\$199,442	7	
10	Winter Weather	Relatively Low	Relatively Moderate	\$70,818	\$442	\$16,456	\$87,717	75	
11	Coastal Flooding	Relatively Low	Relatively Low	\$51,470	n/a	\$5,720	\$57,190	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	Hurricane	Very Low	Very Low	\$14,421	\$9,006	\$174	\$23,601	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Wildfire	Very Low	Very Low	\$17,135	\$3	\$1,788	\$18,927	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$163	n/a	\$426	\$589	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	2	
	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 6250.01 (Relatively Low, 42.1); tract 6420 (Very Low, 40.2); tract 6200 (Very Low, 36.4)
Hurricane	tract 6551 (Very Low, 41.3); tract 6556 (Very Low, 40.0); tract 6572 (Very Low, 38.0)
Landslide	tract 6331 (Relatively Low, 81.9); tract 6556 (Very Low, 79.4); tract 6551 (Very Low, 76.5)
Tornado	tract 6200 (Relatively High, 82.9); tract 6572 (Relatively High, 81.6); tract 6350 (Relatively High, 77.5)
Tsunami	no tract has a National Risk Index rating for this hazard
Wildfire	tract 6470 (Relatively Low, 71.5); tract 6450 (Very Low, 67.0); tract 6480 (Very Low, 66.2)

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 6250.01 is Census Tract 6250.01). 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	13 records, 1996 to 2019 (13 zone-level)	1 day to 21 days (median 3 days); 13 with a recorded value	January 2003 (1 monthly summary record), zone-level	Cold/Wind Chill, 2007-02-03, \$25,000 property; \$0 crops, reported for the zone (2007 dollars)	Countywide (zone-level records).	Wind chill: in event narratives only (local data needed).
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	2 records, 2007 to 2012 (2 zone-level)		Frost/Freeze, 2012-04-27, \$1,300,000 crop damage (2012 dollars); NWS zone MIZ063		Countywide (zone-level records).	Temperature: in event narratives only (local data needed).
Drought	U.S. Drought Monitor scale (D0 to D4)	2 records, 2001 to 2002 (2 zone-level)	30 days to 31 days (median 30.5 days); 2 with a recorded value	31 days (1 month), 2001-07-01 to 2001-07-31, zone-level		Countywide (zone-level records).	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	95 records, 1970 to 2026	0.75 in to 2.75 in (median 0.88 in); 95 with a recorded value	2.75 in hail, 2000-07-14		Event records naming jurisdictions in the plan: Port Huron charter township (13 records), Port Huron city (13 records), Yale city (12 records), St. Clair city (10 records), St. Clair township (10 records), Capac village (7 records), Algonac city (5 records), Marysville city (4 records), Kimball township (3 records), Brockway township (1 record); and 3 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	13 records, 1999 to 2018 (13 zone-level)	1 day to 7 days (median 5 days); 9 with a recorded value	7 consecutive days, 2012-07-01 to 2012-07-07, zone-level		Countywide (zone-level records).	Heat index: in event narratives only (local data needed). Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	6 records, 1997 to 2023 (6 zone-level)		Ice Storm, 2003-04-03, \$10,000,000 property; crops not reported (2003 dollars); NWS zone MIZ063		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)	30 records, 1996 to 2022 (14 zone-level)		Flood, 2019-11-01, \$11,900,000 property; \$0 crops (2019 dollars)		Event records naming jurisdictions in the plan: Capac village (4 records), Yale city (2 records), Kimball township (1 record), Marysville city (1 record), Port Huron charter township (1 record), Port Huron city (1 record). Zone-level records (14) 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)	7 records, 1998 to 2023		Lightning, 2001-09-09, \$20,000 property; crops not reported (2001 dollars)		Event records naming jurisdictions in the plan: Port Huron charter township (3 records), Port Huron city (3 records), St. Clair city (1 record), St. Clair township (1 record), Yale 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)	43 records, 1996 to 2026 (43 zone-level)	35 kt (40 mph) to 70 kt (81 mph) (median 52 kt (60 mph)); 41 with a recorded value	70 kt (81 mph), measurement type not recorded, High Wind, 1997-04-06; NWS zone MIZ063	High Wind, 2017-03-08, \$25,000,000 property; \$0 crops, reported for the zone (2017 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	281 records, 1956 to 2026	43 kt (49 mph) to 78 kt (90 mph) (median 52 kt (60 mph)); 255 with a recorded value	78 kt (90 mph), measurement type not recorded, Thunderstorm Wind, 1975-06-04	Thunderstorm Wind, 2008-06-08, \$1,000,000 property; \$0 crops (2008 dollars)	Event records naming jurisdictions in the plan: Port Huron charter township (32 records), Port Huron city (32 records), Marine City city (30 records), Algonac city (24 records), Capac village (13 records), Yale city (12 records), St. Clair city (10 records), St. Clair township (10 records), Marysville city (9 records), Emmett township (8 records); and 4 more jurisdictions (see the Excel file).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Tornado	Enhanced Fujita (Fujita before Feb 2007)	23 records, 1953 to 2021	F/EF0 to F/EF4 (median F/EF1); 22 with a recorded value	F4 tornado, 1953-05-21, 10 mi path length (whole path, pre-1996), 1,760 yd wide, \$2,500,000 property; crops not recorded (1953 dollars), 2 direct deaths, 68 direct injuries	Tornado, 1983-05-02, \$25,000,000 property; crops not recorded (1983 dollars)	Event records naming jurisdictions in the plan: Yale city (2 records).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Tsunami	none (count and damage only)	0					Physical measure: in event narratives only (local data needed).
Wildfire	acres burned (local data)	0					Acres burned: in event narratives only (local data needed).
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	75 records, 1996 to 2026 (75 zone-level)		Winter Storm, 2018-04-14, \$1,000,000 property; \$0 crops (2018 dollars); NWS zone MIZ063		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.

A monthly summary record covers most or all of a month; it does not count days at wave conditions.

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 12 declarations covering 8 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Notes
2020-03-27	2020-01-20	DR-4494-MI	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$5,324,728.86	
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	no Public Assistance recorded	
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	
2003-09-23	2003-08-14	EM-3189-MI	Emergency	Power Outage	Non-natural, not counted	\$119,955.97	
2001-01-10	2000-12-11	EM-3160-MI	Emergency	Snow	Winter Weather	\$230,538.21	
1996-07-23	1996-06-21	DR-1128-MI	Major disaster	Severe Storms and 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	
1976-03-19	1976-03-19	DR-495-MI	Major disaster	Severe Storms, Tornadoes, Icing & Flooding	Inland Flooding; Tornado	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.

Public Assistance filed under this county for declarations that do not list it: 1 row, \$5,312.25

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
EM-3137-MI	1999-01-27	Mi - Severe Weather 1/2 /99	Anchor Bay School District	\$5,312.25

FEMA's Public Assistance summaries file these applicants under this county, but FEMA's declaration rows for these disasters do not designate it (an electric cooperative or district serving several counties, for example). Not in any declaration row above and not counted.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	15	0	0	0	0	0	1996 to 2026-06-30	Includes 2 Frost/Freeze records.
Drought	2	0	0	0	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	95	8	0	8	0	0	1955 to 2026-06-30	
Heat Wave	13	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	6	1	0	1	0	0	1996 to 2026-06-30	
Inland Flooding	30	0	1	1	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	7	1	0	1	0	0	1996 to 2026-06-30	
Strong Wind	324	30	7	33	1	0	1955 to 2026-06-30	Includes 36 High Wind and 7 Strong Wind records.
Tornado	23	0	1	1	2	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

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
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	75	5	1	6	2	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	Why listed
2019-11-01	Flood		\$11,900,000 property; \$0 crops (2019 dollars)	0, 0	ANCHORVILLE to JEDDO	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2018-01-01	Cold/Wind Chill		\$0 property; \$0 crops, reported for the zone (2018 dollars)	1, 0	NWS zone MIZ063 (ST. CLAIR), zone-level	deaths or injuries recorded
2012-07-01	Heat		\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone MIZ063 (ST. CLAIR), zone-level	B1-c worst recorded: Excessive Heat, Heat
2012-04-27	Frost/Freeze		\$0 property; \$1,300,000 crops, reported for the zone (2012 dollars)	0, 0	NWS zone MIZ063 (ST. CLAIR), zone-level	B1-c worst recorded: Frost/Freeze
2010-06-27	Tornado	EF1, 2.91 mi within this county, 250 yd wide	\$700,000 property; \$0 crops (2010 dollars)	1, 4	THORNTON to WADNAMS	deaths or injuries recorded
2003-04-03	Ice Storm		\$10,000,000 property; crops not reported, reported for the zone (2003 dollars)	0, 0	NWS zone MIZ063 (ST. CLAIR), zone-level	B1-c worst recorded: Ice Storm
2003-01-10	Cold/Wind Chill		damage not reported	0, 0	NWS zone MIZ063 (ST. CLAIR), zone-level	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2001-09-09	Lightning		\$20,000 property; crops not reported (2001 dollars)	0, 0	ANCHORVILLE	B1-c worst recorded: Lightning
2000-07-14	Hail	2.75 in	\$125,000 property; crops not reported (2000 dollars)	0, 0	ALGONAC	B1-c worst recorded: Hail
1997-04-06	High Wind	70 kt (81 mph), measurement type not recorded	\$75,000 property; crops not reported, reported for the zone (1997 dollars)	0, 0	NWS zone MIZ063 (ST. CLAIR), zone-level	B1-c worst recorded: High Wind and Strong Wind
1975-06-04	Thunderstorm Wind	78 kt (90 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded	B1-c worst recorded: Thunderstorm Wind
1953-05-21	Tornado	F4, 10 mi path length (whole path, pre-1996), 1,760 yd wide	\$2,500,000 property; crops not recorded (1953 dollars)	2, 68	location not recorded	deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (590 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	0.0128	events per year at a location (modeled)	about 0.013 per year at a given location in the county		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Cold Wave	3	event-days per year	about 3 days per year	Likely (from Storm Events: 10 of 30 years)	event-days in 10 of 30 years, 1996 to 2025 (33.3%)	57	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	0	event-days per year	none modeled	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	0	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI models no drought event-days here (2000 to 2025, 25.25 years; D3 and D4 only); Storm Events has a record in 2 of 30 years. The descriptor comes from Storm Events, which counts D2 drought that NRI leaves out.
Earthquake	0.000703	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0703%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	1.66	events per year	about 1.66 per year	Highly likely	FEMA annualized frequency (modeled)	67.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	2.37	event-days per year	about 2.37 days per year	Likely (from Storm Events: 8 of 30 years)	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	36	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0164	events per year	about 1 in 61 years	Possible	FEMA annualized frequency (modeled)	6	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	1.9	event-days per year	about 1.9 days per year	Likely (from Storm Events: 6 of 30 years)	event-days in 6 of 30 years, 1996 to 2025 (20%)	122	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.04	event-days per year	about 1.04 days per year	Likely (from Storm Events: 13 of 30 years)	event-days in 13 of 30 years, 1996 to 2025 (43.3%)	29	1996 to 2023 (28 years)	see B1-f	

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
Landslide	0.0989	events per year (modeled)	about 1 in 10 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	32.3	days per year with a strike	about 32.3 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	3.52	events per year	about 3.52 per year	Highly likely	FEMA annualized frequency (modeled)	125	1986 to 2023 (38 years)	countywide	
Tornado	0.207	events per year	about 1 in 5 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)			Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Wildfire	0.000155	annual probability at a location	chance a given location in the county burns in a year: 0.00155%		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	12.9	event-days per year	about 12.9 days per year	Highly likely (from Storm Events: 28 of 30 years)	event-days in 28 of 30 years, 1996 to 2025 (93.3%)	245	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	38	30	1.27
Hail	2.00 in+	1996 to 2025	1	30	0.0333
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	231	30	7.7
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	5	30	0.167
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	3	30	0.1
Tornado	EF0-1	1996 to 2025	9	30	0.3
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	28 of 50	68.1	76.0	90.2	Relatively Moderate 1, Relatively Low 12, Very Low 15, No Rating 22
Cold Wave	50 of 50	17.0	80.6	94.2	Relatively High 31, Relatively Moderate 18, Very Low 1
Drought	0 of 50				No Rating 50
Earthquake	50 of 50	7.7	17.8	42.1	Relatively Low 1, Very Low 49
Hail	50 of 50	20.3	41.2	61.2	Relatively Low 36, Very Low 14
Heat Wave	50 of 50	1.8	18.1	44.2	Relatively Low 29, Very Low 21
Hurricane	50 of 50	16.8	26.9	41.3	Very Low 50
Ice Storm	50 of 50	37.8	75.2	91.4	Relatively High 1, Relatively Moderate 33, Relatively Low 16
Inland Flooding	50 of 50	2.8	40.3	85.5	Relatively High 4, Relatively Moderate 15, Relatively Low 24, Very Low 7
Landslide	49 of 50	13.3	50.7	81.9	Relatively Low 1, Very Low 48, No Rating 1
Lightning	50 of 50	0.9	21.1	42.6	Relatively Low 28, Very Low 22
Strong Wind	50 of 50	27.3	67.5	88.0	Relatively High 5, Relatively Moderate 38, Relatively Low 7
Tornado	50 of 50	23.7	60.6	82.9	Relatively High 4, Relatively Moderate 36, Relatively Low 9, Very Low 1
Tsunami	0 of 50				Insufficient Data 50
Wildfire	49 of 50	22.6	53.7	71.5	Relatively Low 1, Very Low 48, No Rating 1
Winter Weather	50 of 50	20.7	39.9	62.4	Relatively Moderate 8, Relatively Low 42

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
St. Clair County	County	Approved, expires 2027-08-29		\$26,478.27	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row. Includes \$16,903.02 for declarations not counted as hazard incidents (EM-3189-MI).
Algonac city	City	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 8	\$6,292.08	29 total; 0 since its plan	Includes \$1,613.43 for declarations not counted as hazard incidents (EM-3189-MI).
Capac village	Village	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	\$9,114.88	24 total; 3 since its plan	Includes \$2,047.91 for declarations not counted as hazard incidents (EM-3189-MI).
Emmett village	Village	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	9 total; 1 since its plan	
Marine City city	City	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 6	\$2,300.10	31 total; 6 since its plan	Includes \$2,300.10 for declarations not counted as hazard incidents (EM-3189-MI).
Marysville city	City	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	\$46,799.62	14 total; 2 since its plan	Includes \$31,178.62 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Memphis city	City	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Port Huron city	City	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 4	\$223,309.71	49 total; 4 since its plan	Includes \$180,177.96 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
St. Clair city	City	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	\$12,792.09	21 total; 1 since its plan	Includes \$1,494.50 for declarations not counted as hazard incidents (EM-3189-MI).
Yale city	City	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	\$3,794.33	29 total; 1 since its plan	
Berlin township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Brockway township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	6 total; 0 since its plan	
Burtchville township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 1; any 1	no Public Assistance recorded	0 total; 0 since its plan	
Casco township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
China township	Township	Approved, expires 2027-08-29	FMA RL 1, SRL 0; any 3	no Public Assistance recorded	0 total; 0 since its plan	
Clay township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 2; any 18	no Public Assistance recorded	0 total; 0 since its plan	
Clyde township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Columbus township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	7 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>	
Cottrellville township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 2	no Public Assistance recorded	0 total; 0 since its plan	
East China township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 16	\$1,891.54	0 total; 0 since its plan	Includes \$1,891.54 for declarations not counted as hazard incidents (EM-3189-MI).
Emmett township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	9 total; 1 since its plan	
Fort Gratiot charter township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 6	no Public Assistance recorded	0 total; 0 since its plan	
Grant township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Greenwood township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Ira township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 1; any 8	\$6,223.75	0 total; 0 since its plan	Includes \$4,875.44 for declarations not counted as hazard incidents (EM-3189-MI).
Kenockee township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Kimball township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 1	\$1,526.01	7 total; 1 since its plan	Includes \$1,526.01 for declarations not counted as hazard incidents (EM-3189-MI).
Lynn township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Mussey township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Port Huron charter township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	49 total; 4 since its plan	
Riley township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
St. Clair township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	21 total; 1 since its plan	
Wales township	Township	Approved, expires 2027-08-29	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	

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

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-08-30 <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	\$6,175,182,323	n/a	12,313	\$51,470	n/a	\$5,720	0.000834%				
Cold Wave	\$34,294,624,496	\$104,159,716	160,353	\$1,746	\$65,490	\$9,963,968	under 0.0001%				
Drought	n/a	\$0	n/a	n/a	\$0	n/a					agriculture exposure is 0 in NRI
Earthquake	\$59,008,584,275	n/a	160,383	\$236,091	n/a	\$68,874	0.0004%				
Hail	\$34,294,624,496	\$104,159,716	160,353	\$225,090	\$17,084	\$13,486	0.000656%	\$0			
Heat Wave	\$34,294,624,496	\$104,159,716	160,353	\$6,282	\$1	\$727,021	under 0.0001%				
Hurricane	\$34,264,537,593	\$102,025,116	160,041	\$14,421	\$9,006	\$174	under 0.0001%				
Ice Storm	\$34,237,082,543	n/a	159,915	\$695,707	n/a	\$9,558	0.00203%		\$0		
Inland Flooding	\$34,188,445,862	\$3,744,555	9,072	\$28,933,199	\$37,302	\$7,887	n/a (see note)				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	\$108,961,453	n/a	448	\$163	n/a	\$426	0.000149%				
Lightning	\$34,294,624,496	n/a	160,353	\$64,016	n/a	\$135,426	0.000187%	\$0			
Strong Wind	\$34,294,624,496	\$104,159,716	160,353	\$1,679,657	\$1,250	\$59,605	0.0049%	\$77,000	\$100,000		Storm Events damage since the plan includes 1 zone-level High Wind record (\$100,000): a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition.
Tornado	\$34,294,624,496	\$104,159,716	160,353	\$2,622,956	\$1,287	\$3,589,051	0.00765%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-08-30 <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
Tsunami	n/a	n/a	n/a	n/a	n/a	n/a					NRI publishes no building exposure for this county
Wildfire	\$12,924,474,606	\$29,695,705	63,513	\$17,135	\$3	\$1,788	0.000133%				
Winter Weather	\$34,294,624,496	\$104,159,716	160,353	\$70,818	\$442	\$16,456	0.000206%		\$0		

Totals since 2022-08-30 (Storm Events through 2026-06-30): 38 county-coded records, 38 with a damage value recorded (including \$0), \$77,000; 7 zone-level records, 7 with a damage value recorded (including \$0), \$100,000 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	160,353
Building value (total, not at risk)	\$34,294,624,496
Agriculture value (total, not at risk)	\$104,159,716
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$34,750,616
Expected annual loss, population equivalence, all hazards (NRI values each statistical life at \$13.7M; a modeled value of expected deaths and injuries, not property damage)	\$14,599,440
Social vulnerability rating	Relatively Low
Community resilience rating	Very High
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	1	Severe repetitive loss, FMA definition (44 CFR 77.2)	4
Repetitive loss, NFIP insurance definition	73	Severe repetitive loss, NFIP insurance definition	4

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	1	4	73	4	73	1	18
of which: Algonac city	0	0	8	0	8	0	2
of which: Burtchville township	0	1	1	1	1	0	0
of which: Clay township	0	2	18	2	18	1	5
of which: Cottrellville township	0	0	2	0	2	0	0
of which: East China charter township	0	0	16	0	16	0	8
of which: Fort Gratiot charter township	0	0	6	0	6	0	0
of which: Ira township	0	1	8	1	8	0	1
of which: Marine City city	0	0	6	0	6	0	2
of which: China charter township	1	0	3	0	3	0	0
of which: Port Huron city	0	0	4	0	4	0	0
of which: Kimball 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>
Algonac city	260191	0	0	8	0	8	0	2
Capac village	260615	0	0	0	0	0	0	0
Emmett village	260539	0	0	0	0	0	0	0
Marine City city	260200	0	0	6	0	6	0	2

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Marysville city	260201	0	0	0	0	0	0	0
Memphis city	260202	0	0	0	0	0	0	0
Port Huron city	260204	0	0	4	0	4	0	0
St. Clair city	260279	0	0	0	0	0	0	0
Yale city	260329	0	0	0	0	0	0	0
Berlin township	260192	0	0	0	0	0	0	0
Brockway township	260505	0	0	0	0	0	0	0
Burtchville township	260193	0	1	1	1	1	0	0
Casco township	260506	0	0	0	0	0	0	0
China township	260203	1	0	3	0	3	0	0
Clay township	260194	0	2	18	2	18	1	5
Clyde township	260195	0	0	0	0	0	0	0
Columbus township	260507	0	0	0	0	0	0	0
Cottrellville township	260196	0	0	2	0	2	0	0
East China township	260197	0	0	16	0	16	0	8
Emmett township	260619	0	0	0	0	0	0	0
Fort Gratiot charter township	260198	0	0	6	0	6	0	0
Grant township	260488	0	0	0	0	0	0	0
Greenwood township	260324	0	0	0	0	0	0	0
Ira township	260199	0	1	8	1	8	0	1
Kenockee township	260915	0	0	0	0	0	0	0
Kimball township	260594	0	0	1	0	1	0	0
Lynn township	260592	0	0	0	0	0	0	0
Mussey township	260620	0	0	0	0	0	0	0
Port Huron charter township	260672	0	0	0	0	0	0	0
Riley township	260621	0	0	0	0	0	0	0
St. Clair township	260205	0	0	0	0	0	0	0
Wales township	260508	0	0	0	0	0	0	0

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

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

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	1	4	59	4	59	1	17
2 to 4 unit residential	0	0	1	0	1	0	0
other residential	0	0	8	0	8	0	0
non-residential	0	0	5	0	5	0	1
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 72 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). St. Clair County, MI: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 26147). Automated baseline. <https://hazardplain.org/mi/26147/> 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.