

Lenawee County, MI

Risk-assessment baseline packet

County FIPS: 26091 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 2028-08-24. Plan: Lenawee County HMP Update (FEMA plan 108924), approved 2023-08-25.
Since the plan was approved on 2023-08-25: no new federal declaration.
NOAA Storm Events records since that date: 21 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$14,801,906 a year), Tornado (\$5,369,295) and Cold Wave (\$4,695,248).
Repetitive-loss flood properties now: FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 7.
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; 26091 is this area.
D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).
F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.
kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.
CFR: Code of Federal Regulations.
A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).
Dollars: nominal (as reported, labeled with the year), not adjusted for inflation.

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Plan clock

Status:	Approved, expires 2028-08-24	Plan:	Lenawee County HMP Update (FEMA plan 108924)
Approved:	2023-08-25	Days to expiry:	694

What changed since your last plan (approved 2023-08-25)

New federal declarations:	none	Storm Events records since approval:	21 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 7	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: 35 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 <i>negative = days since expiry</i>	Update underway	Notes
Lenawee County	County	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		
Addison village	Village	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-03-14
Adrian city	City	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-03-14
Blissfield village	Village	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-05-02
Britton village	Village	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-06-28
Cement City village	Village	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Clayton village	Village	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Clinton village	Village	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-09-24
Deerfield village	Village	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-04-19
Hudson city	City	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-04-01
Morenci city	City	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Onsted village	Village	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Tecumseh city	City	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-05-02
Adrian township	Township	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-06-27
Blissfield township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Cambridge township	Township	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-04-01
Clinton township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Deerfield township	Township	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-04-01
Dover township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Fairfield township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Franklin township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Hudson township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Macon township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Madison charter township	Township	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-04-01
Medina township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Ogden township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Palmyra township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Raisin township	Township	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-05-02
Ridgeway township	Township	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-05-31
Riga township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Rollin township	Township	Approved, expires 2028-08-24	Lenawee County HMP Update (FEMA plan 108924)	2023-08-25	2028-08-24	694		this jurisdiction approved 2024-03-14
Rome township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Seneca township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Tecumseh township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Woodstock township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	Lenawee County HMP Update (FEMA plan 108924), pending adoption here	2023-08-25 by FEMA; not yet adopted here	2028-08-24 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

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 modeled dollars per year	EAL agriculture modeled dollars per year	Cost of expected deaths and injuries FEMA's dollar value per year, not property damage	EAL total (see note) modeled dollars per year	Storm Events records, 1996 to 2026-06-30 count	Storm Events coverage note
1	Inland Flooding	Relatively Low	Relatively Low	\$14,755,916	\$32,956	\$13,035	\$14,801,906	34	
2	Tornado	Relatively Moderate	Relatively Moderate	\$3,045,705	\$2,615	\$2,320,975	\$5,369,295	5	
3	Cold Wave	Relatively Moderate	Relatively High	\$1,919	\$117,390	\$4,575,938	\$4,695,248	16	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).
4	Strong Wind	Relatively High	Relatively High	\$1,375,545	\$130,544	\$733,191	\$2,239,280	286	Includes 29 High Wind and 4 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
5	Hail	Relatively Moderate	Relatively Moderate	\$1,007,017	\$94,579	\$51,153	\$1,152,748	111	

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
6	Earthquake	Relatively Low	Relatively Low	\$431,965	n/a	\$117,960	\$549,924		Storm Events does not record earthquakes.
7	Lightning	Relatively Moderate	Relatively Moderate	\$55,230	n/a	\$489,286	\$544,516	18	
8	Heat Wave	Relatively Low	Relatively Low	\$6,108	\$4	\$502,556	\$508,668	15	
9	Ice Storm	Relatively Moderate	Relatively Moderate	\$313,653	n/a	\$29,538	\$343,191	6	
10	Winter Weather	Relatively Low	Relatively Moderate	\$46,038	\$986	\$45,460	\$92,484	54	
11	Drought	Relatively Low	Relatively Low	n/a	\$50,847	n/a	\$50,847	2	
12	Hurricane	Very Low	Very Low	\$14,049	\$11,242	\$99	\$25,391	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Wildfire	Very Low	Very Low	\$7,960	\$9	\$807	\$8,776	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$344	n/a	\$1,737	\$2,081	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 and landslide 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, coastal flooding, tsunami 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.

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 613.01 (Relatively Low, 58.6); tract 619 (Relatively Low, 52.8); tract 621 (Relatively Low, 52.4)
Hurricane	tract 605 (Very Low, 41.1); tract 604.01 (Very Low, 39.9); tract 620 (Very Low, 39.7)
Landslide	tract 603.02 (Relatively Low, 89.6); tract 603.01 (Relatively Low, 87.8); tract 604.01 (Relatively Low, 87.3)
Tornado	tract 624 (Relatively High, 86.8); tract 616 (Relatively High, 86.0); tract 604.01 (Relatively High, 84.9)
Wildfire	tract 604.01 (Very Low, 65.1); tract 603.01 (Very Low, 65.0); tract 603.02 (Very Low, 63.4)

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 613.01 is Census Tract 613.01). 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
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	14 records, 1996 to 2019 (14 zone-level)	1 day to 21 days (median 2.5 days); 14 with a recorded value	January 2003 (1 monthly summary record), zone-level	Cold/Wind Chill, 1999-01-11, \$1,000,000 property; crops not reported, reported for the zone (1999 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 MIZ082		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)	136 records, 1963 to 2026	0.75 in to 3 in (median 1 in); 136 with a recorded value	3 in hail, 2021-06-19	Hail, 1996-04-12, \$1,000,000 property; crops not reported (1996 dollars)	Event records naming jurisdictions in the plan: Adrian city (34 records), Adrian township (34 records), Tecumseh city (13 records), Tecumseh township (13 records), Hudson city (7 records), Hudson township (7 records), Morenci city (7 records), Clinton township (6 records), Clinton village (6 records), Deerfield township (6 records); and 11 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	15 records, 1999 to 2026 (15 zone-level)	1 day to 7 days (median 5 days); 11 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, 2011-02-20, \$1,500,000 property; \$0 crops (2011 dollars); NWS zone MIZ082		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)	34 records, 1996 to 2020 (21 zone-level)		Flood, 2009-03-10, \$200,000 property; \$0 crops (2009 dollars)		Event records naming jurisdictions in the plan: Adrian city (4 records), Adrian township (4 records), Addison village (3 records), Blissfield township (1 record), Blissfield village (1 record), Cement City village (1 record), Deerfield township (1 record), Deerfield village (1 record), Medina township (1 record), Palmyra township (1 record). Zone-level records (21) 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)	18 records, 1997 to 2007		Lightning, 2003-08-01, damage not reported, 1 direct death	Lightning, 2007-07-26, \$250,000 property; \$0 crops (2007 dollars)	Event records naming jurisdictions in the plan: Adrian city (7 records), Adrian township (7 records), Morenci city (3 records), Clayton village (2 records), Tecumseh city (2 records), Tecumseh township (2 records), Addison village (1 record), Britton village (1 record), Fairfield township (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	33 records, 1996 to 2026 (33 zone-level)	39 kt (45 mph) to 70 kt (81 mph) (median 52 kt (60 mph)); 32 with a recorded value	70 kt (81 mph), measurement type not recorded, High Wind, 1997-04-06; NWS zone MIZ082	High Wind, 2017-03-08, \$15,000,000 property; \$0 crops, reported for the zone (2017 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	318 records, 1962 to 2026	42 kt (48 mph) to 78 kt (90 mph) (median 54 kt (62 mph)); 262 with a recorded value	78 kt (90 mph), measurement type not recorded, Thunderstorm Wind, 1996-04-12	Thunderstorm Wind, 1996-04-12, \$1,000,000 property; crops not reported (1996 dollars)	Event records naming jurisdictions in the plan: Adrian city (58 records), Adrian township (58 records), Tecumseh city (25 records), Tecumseh township (25 records), Hudson city (15 records), Hudson township (15 records), Onsted village (15 records), Addison village (14 records), Morenci city (12 records), Britton village (9 records); and 16 more jurisdictions (see the Excel file).	Speeds under 20 kt (likely entry errors) are left out of the observed range.

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)	33 records, 1954 to 2021	F/EF0 to F/EF4 (median F/EF1); 33 with a recorded value	F4 tornado, 1965-04-11, 23.2 mi path length (whole path, pre-1996), 1,760 yd wide, \$25,000,000 property; crops not recorded (1965 dollars), 5 direct deaths, 42 direct injuries		Event records naming jurisdictions in the plan: Addison village (1 record), Blissfield township (1 record), Blissfield village (1 record), Riga township (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
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)	54 records, 1996 to 2023 (54 zone-level)		Heavy Snow, 2000-12-17, \$400,000 property; crops not reported (2000 dollars); NWS zone MIZ082		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: 6 declarations covering 3 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	\$128,113.37	
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	
1999-01-27	1999-01-02	EM-3137-MI	Emergency	Mi - Severe Weather 1/2 / 99	Winter Weather	\$54,563.80	
1978-01-27	1978-01-27	EM-3057-MI	Emergency	Blizzards & Snowstorms	Winter Weather	no Public Assistance recorded	
1965-04-14	1965-04-14	DR-190-MI	Major disaster	Tornadoes & Severe Storms	Tornado	no Public Assistance recorded	

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

Statewide declarations

Source: 2

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

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

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Cold Wave	16	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	136	2	3	5	0	0	1955 to 2026-06-30	
Heat Wave	15	1	0	1	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	0	1	1	0	0	1996 to 2026-06-30	
Inland Flooding	34	0	0	0	0	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	18	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	351	18	10	32	0	0	1955 to 2026-06-30	Includes 29 High Wind and 4 Strong Wind records.
Tornado	33	0	0	0	1	0	1950 to 2026-06-30	
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	54	0	2	2	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
2021-06-19	Hail	3 in	\$0 property; \$0 crops (2021 dollars)	0, 0	HUDSON	B1-c worst recorded: Hail
2012-07-01	Heat		\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone MIZ082 (LENAWEE), 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 MIZ082 (LENAWEE), zone-level	B1-c worst recorded: Frost/Freeze
2011-02-20	Ice Storm		\$1,500,000 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone MIZ082 (LENAWEE), zone-level	B1-c worst recorded: Ice Storm
2009-03-10	Flood		\$200,000 property; \$0 crops (2009 dollars)	0, 0	PALMYRA to BLISSFIELD	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2003-08-01	Lightning		damage not reported	1, 0	ADRIAN	deaths or injuries recorded
2003-01-10	Cold/Wind Chill		damage not reported	0, 0	NWS zone MIZ082 (LENAWEE), zone-level	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2000-12-17	Heavy Snow		\$400,000 property; crops not reported, reported for the zone (2000 dollars)	0, 0	NWS zone MIZ082 (LENAWEE), zone-level	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
1997-04-06	High Wind	70 kt (81 mph), measurement type not recorded	\$50,000 property; crops not reported, reported for the zone (1997 dollars)	0, 0	NWS zone MIZ082 (LENAWEE), zone-level	B1-c worst recorded: High Wind and Strong Wind
1996-04-12	Thunderstorm Wind	78 kt (90 mph), measurement type not recorded	\$7,500 property; crops not reported (1996 dollars)	0, 0	RIGA	B1-c worst recorded: Thunderstorm Wind
1965-04-11	Tornado	F4, 23.2 mi path length (whole path, pre-1996), 33 yd wide	damage not recorded (pre-1996 record)	4, 41	location not recorded	deaths or injuries recorded
1965-04-11	Tornado	F4, 23.2 mi path length (whole path, pre-1996), 1,760 yd wide	\$25,000,000 property; crops not recorded (1965 dollars)	5, 42	location not recorded	deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (665 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
Cold Wave	2.89	event-days per year	about 2.89 days per year	Likely (from Storm Events: 11 of 30 years)	event-days in 11 of 30 years, 1996 to 2025 (36.7%)	55	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	0.488	event-days per year	about 0.488 days per year	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	35	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00113	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.113%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	3.23	events per year	about 3.23 per year	Highly likely	FEMA annualized frequency (modeled)	122.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	3.58	event-days per year	about 3.58 days per year	Likely (from Storm Events: 9 of 30 years)	event-days in 9 of 30 years, 1996 to 2025 (30%)	53	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.00846	events per year	about 1 in 118 years	Unlikely	FEMA annualized frequency (modeled)	2	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	1.61	event-days per year	about 1.61 days per year	Likely (from Storm Events: 6 of 30 years)	event-days in 6 of 30 years, 1996 to 2025 (20%)	109	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1	event-day per year	about 1 day per year	Likely (from Storm Events: 15 of 30 years)	event-days in 15 of 30 years, 1996 to 2025 (50%)	28	1996 to 2023 (28 years)	see B1-f	
Landslide	0.147	events per year (modeled)	about 1 in 7 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	37.7	days per year with a strike	about 37.7 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	5.29	events per year	about 5.29 per year	Highly likely	FEMA annualized frequency (modeled)	202	1986 to 2023 (38 years)	countywide	

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
Tornado	0.377	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.0000136	annual probability at a location	chance a given location in the county burns in a year: 0.00136%		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	8.95	event-days per year	about 8.95 days per year	Likely (from Storm Events: 23 of 30 years)	event-days in 23 of 30 years, 1996 to 2025 (76.7%)	170	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	54	30	1.8
Hail	2.00 in+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	240	30	8
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	6	30	0.2
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	2	30	0.0667
Tornado	EF0-1	1996 to 2025	5	30	0.167
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Cold Wave	25 of 25	58.7	81.8	88.9	Relatively High 19, Relatively Moderate 6
Drought	3 of 25	80.8	86.3	93.1	Relatively Moderate 1, Relatively Low 2, No Rating 22
Earthquake	25 of 25	22.7	41.4	58.6	Relatively Low 14, Very Low 11
Hail	25 of 25	65.6	81.8	87.4	Relatively Moderate 23, Relatively Low 2
Heat Wave	25 of 25	9.3	29.9	42.7	Relatively Low 22, Very Low 3
Hurricane	25 of 25	24.0	33.6	41.1	Very Low 25
Ice Storm	25 of 25	46.4	77.1	86.0	Relatively Moderate 20, Relatively Low 5
Inland Flooding	25 of 25	10.7	45.9	73.3	Relatively Moderate 12, Relatively Low 11, Very Low 2
Landslide	25 of 25	21.4	73.5	89.6	Relatively Low 8, Very Low 17
Lightning	25 of 25	39.9	71.0	82.7	Relatively High 5, Relatively Moderate 19, Relatively Low 1
Strong Wind	25 of 25	68.0	89.4	94.4	Relatively High 21, Relatively Moderate 4

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	25 of 25	51.8	76.6	86.8	Relatively High 15, Relatively Moderate 9, Relatively Low 1
Wildfire	25 of 25	18.6	54.1	65.1	Very Low 25
Winter Weather	25 of 25	35.9	59.1	69.3	Relatively Moderate 21, Relatively Low 4

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

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

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

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

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Lenawee County	County	Approved, expires 2028-08-24		\$135,977.63	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row. Includes \$128,113.37 for declarations not counted as hazard incidents (DR-4494-MI).
Addison village	Village	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	21 total; 0 since its plan	
Adrian city	City	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 1	\$14,665.78	103 total; 1 since its plan	
Blissfield village	Village	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 4	\$5,092.94	9 total; 0 since its plan	
Britton village	Village	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 0	\$1,238.24	15 total; 2 since its plan	
Cement City village	Village	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	8 total; no approved plan	
Clayton village	Village	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	12 total; no approved plan	
Clinton village	Village	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 0	\$4,617.41	11 total; 1 since its plan	
Deerfield village	Village	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	13 total; 0 since its plan	
Hudson city	City	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	22 total; 1 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>	
Morenci city	City	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$2,135.06	22 total; no approved plan	
Onsted village	Village	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	20 total; no approved plan	
Tecumseh city	City	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 0	\$6,728.03	40 total; 1 since its plan	
Adrian township	Township	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	103 total; 1 since its plan	
Blissfield township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	9 total; no approved plan	
Cambridge township	Township	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Clinton township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	11 total; no approved plan	
Deerfield township	Township	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	13 total; 0 since its plan	
Dover township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; no approved plan	
Fairfield township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	4 total; no approved plan	
Franklin township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; no approved plan	
Hudson township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	22 total; no approved 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>	
Macon township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	5 total; no approved plan	
Madison charter township	Township	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Medina township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	5 total; no approved plan	
Ogden township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; no approved plan	
Palmyra township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	6 total; no approved plan	
Raisin township	Township	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Ridgeway township	Township	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	5 total; 0 since its plan	
Riga township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	4 total; no approved plan	
Rollin township	Township	Approved, expires 2028-08-24	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	3 total; 0 since its plan	
Rome township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; no approved plan	
Seneca township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	3 total; no approved 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>	
Tecumseh township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	40 total; no approved plan	
Woodstock township	Township	Plan 108924 approved 2023-08-25, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; no approved 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 2023-08-25 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Cold Wave	\$22,066,090,101	\$334,652,576	99,376	\$1,919	\$117,390	\$4,575,938	under 0.0001%				
Drought	n/a	\$8,960,597	n/a	n/a	\$50,847	n/a	0.567% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$38,192,615,531	n/a	99,423	\$431,965	n/a	\$117,960	0.00113%				
Hail	\$22,066,092,351	\$334,652,576	99,376	\$1,007,017	\$94,579	\$51,153	0.00456%	\$0			
Heat Wave	\$22,066,090,101	\$334,652,576	99,376	\$6,108	\$4	\$502,556	under 0.0001%		\$0		

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 2023-08-25 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Hurricane	\$22,053,093,056	\$330,993,246	99,328	\$14,049	\$11,242	\$99	under 0.0001%				
Ice Storm	\$22,066,062,159	n/a	99,375	\$313,653	n/a	\$29,538	0.00142%				
Inland Flooding	\$22,030,788,080	\$2,599,110	1,232	\$14,755,916	\$32,956	\$13,035	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	\$147,940,956	n/a	611	\$344	n/a	\$1,737	0.000232%				
Lightning	\$22,066,092,351	n/a	99,376	\$55,230	n/a	\$489,286	0.00025%				
Strong Wind	\$22,066,092,351	\$334,652,576	99,376	\$1,375,545	\$130,544	\$733,191	0.00623%	\$1,000	\$25,000		Storm Events damage since the plan includes 1 zone-level High Wind record (\$25,000): a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition.
Tornado	\$22,066,092,351	\$334,652,576	99,376	\$3,045,705	\$2,615	\$2,320,975	0.0138%				
Wildfire	\$7,430,376,624	\$84,109,474	34,248	\$7,960	\$9	\$807	0.000107%				
Winter Weather	\$22,066,090,101	\$334,652,576	99,376	\$46,038	\$986	\$45,460	0.000209%				

Totals since 2023-08-25 (Storm Events through 2026-06-30): 19 county-coded records, 19 with a damage value recorded (including \$0), \$1,000; 2 zone-level records, 2 with a damage value recorded (including \$0), \$25,000 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	99,376
Building value (total, not at risk)	\$22,066,092,351
Agriculture value (total, not at risk)	\$334,652,576
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$21,502,619
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)	\$8,881,736
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)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	7	Severe repetitive loss, NFIP insurance definition	0

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	0	0	7	0	7	0	2
of which: Adrian city	0	0	1	0	1	0	0
of which: Blissfield village	0	0	4	0	4	0	2
of which: Deerfield village	0	0	1	0	1	0	0
of which: Deerfield 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>
Addison village	261098	0	0	0	0	0	0	0
Adrian city	260115	0	0	1	0	1	0	0
Blissfield village	260339	0	0	4	0	4	0	2
Britton village	261099	0	0	0	0	0	0	0
Cement City village	261100	0	0	0	0	0	0	0
Clayton village	261101	0	0	0	0	0	0	0
Clinton village	260437	0	0	0	0	0	0	0
Deerfield village	260438	0	0	1	0	1	0	0
Hudson city	260116	0	0	0	0	0	0	0
Morenci city	261088	0	0	0	0	0	0	0
Onsted village	261102	0	0	0	0	0	0	0
Tecumseh city	260117	0	0	0	0	0	0	0
Adrian township	260732	0	0	0	0	0	0	0
Blissfield township	261078	0	0	0	0	0	0	0
Cambridge township	261079	0	0	0	0	0	0	0
Clinton township	261080	0	0	0	0	0	0	0
Deerfield township	260717	0	0	1	0	1	0	0
Dover township	261081	0	0	0	0	0	0	0
Fairfield township	261082	0	0	0	0	0	0	0
Franklin township	261083	0	0	0	0	0	0	0
Hudson township	261084	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>
Macon township	261085	0	0	0	0	0	0	0
Madison charter township	261086	0	0	0	0	0	0	0
Medina township	261087	0	0	0	0	0	0	0
Ogden township	261089	0	0	0	0	0	0	0
Palmyra township	260737	0	0	0	0	0	0	0
Raisin township	261090	0	0	0	0	0	0	0
Ridgeway township	261091	0	0	0	0	0	0	0
Riga township	261092	0	0	0	0	0	0	0
Rollin township	261093	0	0	0	0	0	0	0
Rome township	261094	0	0	0	0	0	0	0
Seneca township	261095	0	0	0	0	0	0	0
Tecumseh township	261096	0	0	0	0	0	0	0
Woodstock township	261097	0	0	0	0	0	0	0

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

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

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	0	0	7	0	7	0	2
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	0	0	0	0	0	0
not reported	0	0	0	0	0	0	0

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

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

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

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 7 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):

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 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)
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 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_scscd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scscd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)
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What this packet is and what the plan adds

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

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

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

OpenFEMA disclaimer

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

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Lenawee County, MI: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 26091). Automated baseline. <https://hazardplain.org/mi/26091/> 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.