

Genesee County, MI

Risk-assessment baseline packet

County FIPS: 26049 **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 2027-05-04. Plan: Genesee County HMP update (FEMA plan 107921), approved 2022-05-05.
Since the plan was approved on 2022-05-05: no new federal declaration.
NOAA Storm Events records since that date: 52 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$50,872,052 a year), Tornado (\$28,875,867) and Cold Wave (\$21,400,762).
Repetitive-loss flood properties now: FMA RL 0, SRL 5 (44 CFR 77.2); any definition: 44.
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; 26049 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 2027-05-04	Plan:	Genesee County HMP update (FEMA plan 107921)
Approved:	2022-05-05	Days to expiry:	216
Update underway:	none recorded in FEMA's plan tracker		

What changed since your last plan (approved 2022-05-05)

New federal declarations:	none	Storm Events records since approval:	52 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 5 (44 CFR 77.2); any definition: 44	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 negative = days since expiry	Notes
Genesee County	County	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Burton city	City	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Clio city	City	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Davison city	City	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Fenton city	City	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Flint city	City	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Flushing city	City	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Gaines village	Village	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Goodrich village	Village	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Grand Blanc city	City	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Lennon village	Village	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Linden city	City	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Montrose city	City	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Mount Morris city	City	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Otisville village	Village	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Otter Lake village	Village	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	Also approved under plan 107958 (Lapeer County, expires 2027-04-13). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.
Swartz Creek city	City	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Argentine township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Atlas township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Clayton charter township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Davison township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Fenton charter township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Flint charter township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Flushing charter township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Forest township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Notes
						negative = days since expiry	
Gaines township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Genesee charter township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Grand Blanc charter township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Montrose charter township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Mount Morris township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Mundy township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Richfield township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Thetford township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
Vienna charter township	Township	Approved, expires 2027-05-04	Genesee County HMP update (FEMA plan 107921)	2022-05-05	2027-05-04	216	
University of Michigan- Flint Campus	College/University	Expired on 2018-01-11	University of Michigan Flint Campus (FEMA plan 1721)	2013-01-11	2018-01-11	-3,184	

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	\$50,842,950	\$25,703	\$3,399	\$50,872,052	34	
2	Tornado	Relatively High	Relatively High	\$11,841,534	\$2,153	\$17,032,179	\$28,875,867	25	
3	Cold Wave	Relatively High	Very High	\$5,299	\$65,490	\$21,329,973	\$21,400,762	17	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	\$4,351,651	\$12,514	\$695,757	\$5,059,921	390	Includes 29 High Wind and 6 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
5	Heat Wave	Relatively Moderate	Relatively Moderate	\$16,675	\$1	\$2,039,623	\$2,056,298	14	
6	Hail	Relatively Moderate	Relatively Moderate	\$1,722,860	\$35,262	\$103,622	\$1,861,744	178	
7	Lightning	Relatively High	Relatively High	\$98,579	n/a	\$1,027,500	\$1,126,079	15	
8	Ice Storm	Relatively High	Relatively High	\$847,876	n/a	\$14,431	\$862,308	7	
9	Earthquake	Relatively Low	Relatively Low	\$608,823	n/a	\$206,070	\$814,893		Storm Events does not record earthquakes.
10	Winter Weather	Relatively Low	Relatively Moderate	\$83,536	\$341	\$1,108	\$84,985	65	
11	Hurricane	Very Low	Very Low	\$42,225	\$3,727	\$262	\$46,215	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	Wildfire	Very Low	Very Low	\$9,481	\$2	\$1,443	\$10,926	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Landslide	Very Low	Very Low	\$674	n/a	\$880	\$1,554	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Drought	No Rating	No Expected Annual Losses	n/a	\$0	n/a	\$0	2	

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, tsunامي 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 28 (Relatively Low, 59.0); tract 110.10 (Relatively Low, 44.4); tract 31 (Relatively Low, 44.3)
Hurricane	tract 107 (Very Low, 34.2); tract 128.01 (Very Low, 34.2); tract 127.03 (Very Low, 34.2)
Landslide	tract 134.01 (Relatively Low, 87.2); tract 130.02 (Relatively Low, 81.1); tract 130.01 (Very Low, 78.2)
Tornado	tract 112.11 (Very High, 94.8); tract 127.02 (Very High, 94.8); tract 113.01 (Very High, 94.3)
Wildfire	tract 124.02 (Very Low, 58.9); tract 34 (Very Low, 56.2); tract 133.03 (Very Low, 51.3)

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 28 is Census Tract 28). 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	15 records, 1996 to 2026 (15 zone-level)	1 day to 21 days (median 3 days); 15 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 MIZ061		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)	215 records, 1961 to 2025	0.75 in to 3 in (median 0.88 in); 215 with a recorded value	3 in hail, 1994-05-25	Hail, 2023-07-20, \$20,000,000 property; \$0 crops (2023 dollars)	Event records naming jurisdictions in the plan: Grand Blanc charter township (23 records), Grand Blanc city (23 records), Flint charter township (20 records), Flint city (20 records), Burton city (12 records), Goodrich village (12 records), Otisville village (11 records), Clio city (10 records), Davison city (10 records), Davison township (10 records); and 17 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	14 records, 1999 to 2026 (14 zone-level)	1 day to 7 days (median 4.5 days); 10 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)	7 records, 1997 to 2023 (7 zone-level)		Ice Storm, 2013-12-21, \$3,000,000 property; \$0 crops (2013 dollars); NWS zone MIZ061		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 2025 (13 zone-level)		Flash Flood, 2012-05-04, \$7,100,000 property; \$0 crops (2012 dollars)		Event records naming jurisdictions in the plan: Flint charter township (3 records), Flint city (3 records), Goodrich village (3 records), Argentine township (2 records), Flushing charter township (2 records), Flushing city (2 records), Gaines township (2 records), Gaines village (2 records), Grand Blanc charter township (2 records), Grand Blanc city (2 records); and 9 more jurisdictions (see the Excel file). Zone-level records (13) 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)	15 records, 1996 to 2014		Lightning, 1999-07-23, damage not reported, 1 direct death, 1 direct injury	Lightning, 2007-05-15, \$75,000 property; \$0 crops (2007 dollars)	Event records naming jurisdictions in the plan: Fenton charter township (3 records), Fenton city (3 records), Flint charter township (3 records), Flint city (3 records), Davison city (2 records), Davison township (2 records), Mount Morris city (2 records), Mount Morris township (2 records), Atlas township (1 record), Flushing charter township (1 record); and 2 more jurisdictions (see the Excel file).	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)	35 records, 1996 to 2026 (35 zone-level)	35 kt (40 mph) to 72 kt (83 mph) (median 52 kt (60 mph)); 33 with a recorded value	72 kt (83 mph) measured gust, High Wind, 2003-11-12; NWS zone MIZ061	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)	459 records, 1956 to 2026	50 kt (58 mph) to 85 kt (98 mph) (median 52.5 kt (60 mph)); 394 with a recorded value	85 kt (98 mph), measurement type not recorded, Thunderstorm Wind, 1994-06-28		Event records naming jurisdictions in the plan: Flint charter township (56 records), Flint city (56 records), Mount Morris city (31 records), Mount Morris township (31 records), Grand Blanc charter township (22 records), Grand Blanc city (22 records), Flushing charter township (21 records), Flushing city (21 records), Davison city (20 records), Davison township (20 records); and 16 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)	51 records, 1953 to 2026	F/EF0 to F/EF5 (median F/EF1); 50 with a recorded value	F5 tornado, 1953-06-08, 9.6 mi path length (whole path, pre-1996), 833 yd wide, \$25,000,000 property; crops not recorded (1953 dollars), 116 direct deaths, 785 direct injuries		Event records naming jurisdictions in the plan: Montrose charter township (4 records), Montrose city (4 records), Clio city (3 records), Fenton charter township (3 records), Fenton city (3 records), Atlas township (2 records), Flushing charter township (2 records), Flushing city (2 records), Goodrich village (2 records), Grand Blanc charter township (2 records); and 8 more jurisdictions (see the Excel file).	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)	65 records, 1996 to 2023 (65 zone-level)		Heavy Snow, 2000-12-11, \$1,100,000 property; crops not reported (2000 dollars), 1 direct injury (reported for the zone); NWS zone MIZ061		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: 14 declarations covering 9 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Notes
2020-03-27	2020-01-20	DR-4494-MI	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$15,651,982.53	
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
2016-01-16	2014-04-25	EM-3375-MI	Emergency	Contaminated Water	Non-natural, not counted	no Public Assistance recorded	
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	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	
						<i>federal share obligated, nominal dollars</i>	Notes
2003-09-23	2003-08-14	EM-3189-MI	Emergency	Power Outage	Non-natural, not counted	\$37,378.71	
2001-01-10	2000-12-11	EM-3160-MI	Emergency	Snow	Winter Weather	\$496,371.38	
1997-07-11	1997-07-02	DR-1181-MI	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	PA not declared for this county	
1986-09-18	1986-09-10	DR-774-MI	Major disaster	Severe Storms & Flooding	Inland Flooding	PA not declared for this county	
1985-09-18	1985-09-05	DR-744-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	
1975-09-30	1975-09-30	DR-486-MI	Major disaster	Severe Storms, High Winds & Flooding	Inland Flooding (primary); also designated: Strong Wind	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	

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

Statewide declarations

Source: 2

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

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

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval records	In the 12 months before plan approval records	Last 5 years records	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Cold Wave	17	1	0	1	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	215	10	2	11	0	0	1955 to 2026-06-30	

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
Heat Wave	14	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	7	1	0	1	0	0	1996 to 2026-06-30	
Inland Flooding	34	3	0	3	7	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	15	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	494	30	10	33	2	0	1955 to 2026-06-30	Includes 29 High Wind and 6 Strong Wind records.
Tornado	51	4	1	4	3	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	65	2	1	3	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
2013-12-21	Ice Storm		\$3,000,000 property; \$0 crops, reported for the zone (2013 dollars)	0, 0	NWS zone MIZ061 (GENESEE), zone-level	B1-c worst recorded: Ice Storm
2012-07-01	Heat		\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 5	NWS zone MIZ061 (GENESEE), zone-level	B1-c worst recorded: Excessive Heat, Heat
2012-05-04	Flash Flood		\$7,100,000 property; \$0 crops (2012 dollars)	0, 0	LENNON to GAINES	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2012-04-27	Frost/Freeze		\$0 property; \$1,300,000 crops, reported for the zone (2012 dollars)	0, 0	NWS zone MIZ061 (GENESEE), zone-level	B1-c worst recorded: Frost/Freeze
2003-11-12	High Wind	72 kt (83 mph) measured gust	\$2,000,000 property; crops not reported, reported for the zone (2003 dollars)	0, 0	NWS zone MIZ061 (GENESEE), zone-level	B1-c worst recorded: High Wind and Strong Wind
2003-01-10	Cold/Wind Chill		damage not reported	0, 0	NWS zone MIZ061 (GENESEE), zone-level	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2000-12-11	Heavy Snow		\$1,100,000 property; crops not reported, reported for the zone (2000 dollars)	0, 1	NWS zone MIZ061 (GENESEE), zone-level	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
1999-07-23	Lightning		damage not reported	1, 1	FENTON	deaths or injuries recorded
1994-06-28	Thunderstorm Wind	85 kt (98 mph), measurement type not recorded	\$5,000,000 property; crops not recorded (1994 dollars)	0, 0	Flint to Davison	B1-c worst recorded: Thunderstorm Wind
1994-05-25	Hail	3 in	property not recorded; \$5,000,000 crops (1994 dollars)	0, 0	Linden to Fenton	B1-c worst recorded: Hail
1956-05-12	Tornado	F4, 6.6 mi path length (whole path, pre-1996), 100 yd wide	\$2,500,000 property; crops not recorded (1956 dollars)	3, 116	location not recorded	deaths or injuries recorded
1953-06-08	Tornado	F5, 9.6 mi path length (whole path, pre-1996), 833 yd wide	\$25,000,000 property; crops not recorded (1953 dollars)	116, 785	location not recorded	deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (914 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	2.84	event-days per year	about 2.84 days per year	Likely (from Storm Events: 11 of 30 years)	event-days in 11 of 30 years, 1996 to 2025 (36.7%)	54	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	0.000682	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0682%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	2.79	events per year	about 2.79 per year	Highly likely	FEMA annualized frequency (modeled)	106.2 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	2.63	event-days per year	about 2.63 days per year	Likely (from Storm Events: 8 of 30 years)	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	42	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.00971	events per year	about 1 in 103 years	Unlikely	FEMA annualized frequency (modeled)	4	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	1.25	event-days per year	about 1.25 days per year	Likely (from Storm Events: 7 of 30 years)	event-days in 7 of 30 years, 1996 to 2025 (23.3%)	84	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.929	event-days per year	about 0.929 days per year	Likely (from Storm Events: 18 of 30 years)	event-days in 18 of 30 years, 1996 to 2025 (60%)	26	1996 to 2023 (28 years)	see B1-f	
Landslide	0.115	events per year (modeled)	about 1 in 9 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	32.7	days per year with a strike	about 32.7 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	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
Strong Wind	5.57	events per year	about 5.57 per year	Highly likely	FEMA annualized frequency (modeled)	212	1986 to 2023 (38 years)	countywide	
Tornado	0.286	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	0.0000268	annual probability at a location	chance a given location in the county burns in a year: 0.00268%		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	11.4	event-days per year	about 11.4 days per year	Likely (from Storm Events: 24 of 30 years)	event-days in 24 of 30 years, 1996 to 2025 (80%)	217	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	76	30	2.53
Hail	2.00 in+	1996 to 2025	5	30	0.167
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	331	30	11
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	19	30	0.633
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	18	30	0.6
Tornado	EF2-3	1996 to 2025	6	30	0.2
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	134 of 134	15.6	77.2	92.9	Relatively High 63, Relatively Moderate 68, Relatively Low 1, Very Low 2
Drought	0 of 134				No Rating 134
Earthquake	134 of 134	4.5	18.7	59.0	Relatively Low 3, Very Low 131
Hail	134 of 134	29.2	60.1	80.3	Relatively Moderate 23, Relatively Low 110, Very Low 1
Heat Wave	134 of 134	1.6	20.7	49.0	Relatively Low 91, Very Low 43
Hurricane	134 of 134	15.7	26.0	34.2	Very Low 134
Ice Storm	134 of 134	11.7	54.5	84.1	Relatively Moderate 23, Relatively Low 101, Very Low 10
Inland Flooding	134 of 134	1.0	23.8	96.0	Very High 1, Relatively High 2, Relatively Moderate 19, Relatively Low 75, Very Low 37
Landslide	127 of 134	10.1	49.6	87.2	Relatively Low 2, Very Low 125, No Rating 7
Lightning	134 of 134	0.5	39.8	67.6	Relatively Moderate 32, Relatively Low 97, Very Low 5
Strong Wind	134 of 134	22.1	69.6	91.7	Relatively High 22, Relatively Moderate 91, Relatively Low 21

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	134 of 134	26.1	75.4	94.8	Very High 3, Relatively High 69, Relatively Moderate 61, Very Low 1
Wildfire	125 of 134	18.7	36.3	58.9	Very Low 125, No Rating 9
Winter Weather	134 of 134	16.2	25.2	43.9	Relatively Low 133, Very Low 1

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
Genesee County	County	Approved, expires 2027-05-04		\$26,015.22	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row. Includes \$3,548.97 for declarations not counted as hazard incidents (EM-3189-MI).
Burton city	City	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 8	\$22,017.11	31 total; 2 since its plan	Includes \$3,344.36 for declarations not counted as hazard incidents (EM-3189-MI).
Clio city	City	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	\$5,841	26 total; 3 since its plan	
Davison city	City	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	\$6,792.75	33 total; 7 since its plan	
Fenton city	City	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	\$7,796.58	34 total; 3 since its plan	Includes \$919.08 for declarations not counted as hazard incidents (EM-3189-MI).
Flint city	City	Approved, expires 2027-05-04	FMA RL 0, SRL 2; any 22	\$309,031.27	83 total; 4 since its plan	Includes \$249,332.77 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Flushing city	City	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	\$11,313	33 total; 1 since its plan	Includes \$0 for declarations not counted as hazard incidents (EM-3189-MI).
Gaines village	Village	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	\$0	14 total; 0 since its plan	
Goodrich village	Village	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	\$2,322.75	25 total; 1 since its plan	
Grand Blanc city	City	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 2	\$22,248.31	49 total; 5 since its plan	Includes \$22,248.31 for declarations not counted as hazard incidents (DR-4494-MI).
Lennon village	Village	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	8 total; 2 since its plan	
Linden city	City	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	\$3,221.25	28 total; 1 since its plan	

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Montrose city	City	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	\$3,737.62	21 total; 2 since its plan	Includes \$781.87 for declarations not counted as hazard incidents (EM-3189-MI).
Mount Morris city	City	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	\$5,837.24	44 total; 2 since its plan	Includes \$2,506.49 for declarations not counted as hazard incidents (EM-3189-MI).
Otisville village	Village	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	\$1,939.50	28 total; 0 since its plan	
Otter Lake village	Village	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	2 total; 0 since its plan	Also approved under plan 107958 (Lapeer County, expires 2027-04-13). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.
Swartz Creek city	City	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	25 total; 1 since its plan	
Argentine township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	\$8,398.78	16 total; 1 since its plan	Includes \$6,778.78 for declarations not counted as hazard incidents (DR-4494-MI).
Atlas township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	11 total; 2 since its plan	
Clayton charter township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Davison township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 1	\$823.50	33 total; 7 since its plan	
Fenton charter township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	34 total; 3 since its plan	
Flint charter township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	83 total; 4 since its plan	
Flushing charter township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 1; any 2	no Public Assistance recorded	33 total; 1 since its plan	
Forest township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Gaines township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	14 total; 0 since its plan	
Genesee charter township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 1; any 2	no Public Assistance recorded	6 total; 0 since its plan	
Grand Blanc charter township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 1; any 3	\$30,877.29	49 total; 5 since its plan	Includes \$23,714.04 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Montrose charter township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	21 total; 2 since its plan	
Mount Morris township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	44 total; 2 since its plan	
Mundy township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	0 total; 0 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>	
Richfield township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Thetford township	Township	Approved, expires 2027-05-04	FMA RL 0, SRL 0; any 0	\$2,372.25	0 total; 0 since its plan	
Vienna charter township	Township	Approved, expires 2027-05-04	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).

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

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 2022-05-05 <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	\$81,933,332,064	\$90,683,525	406,019	\$5,299	\$65,490	\$21,329,973	under 0.0001%		\$0		
Drought	n/a	\$0	n/a	n/a	\$0	n/a					agriculture exposure is 0 in NRI
Earthquake	\$142,540,155,708	n/a	406,211	\$608,823	n/a	\$206,070	0.000427%				
Hail	\$81,933,337,377	\$90,683,525	406,019	\$1,722,860	\$35,262	\$103,622	0.0021%	\$20,000,000			
Heat Wave	\$81,933,332,064	\$90,683,525	406,019	\$16,675	\$1	\$2,039,623	under 0.0001%		\$0		
Hurricane	\$81,865,638,712	\$89,787,859	405,596	\$42,225	\$3,727	\$262	under 0.0001%				
Ice Storm	\$81,931,120,787	n/a	406,007	\$847,876	n/a	\$14,431	0.00103%		\$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 2022-05-05 <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
Inland Flooding	\$81,839,516,671	\$2,031,304	4,983	\$50,842,950	\$25,703	\$3,399	n/a (see note)	\$0			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	\$372,406,471	n/a	1,547	\$674	n/a	\$880	0.000181%				
Lightning	\$81,933,337,377	n/a	406,019	\$98,579	n/a	\$1,027,500	0.00012%				
Strong Wind	\$81,933,337,377	\$90,683,525	406,019	\$4,351,651	\$12,514	\$695,757	0.00531%	\$0	\$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	\$81,933,337,377	\$90,683,525	406,019	\$11,841,534	\$2,153	\$17,032,179	0.0145%	\$1,035,000			
Wildfire	\$6,660,229,229	\$7,801,056	37,037	\$9,481	\$2	\$1,443	0.000142%				
Winter Weather	\$81,933,332,064	\$90,683,525	406,019	\$83,536	\$341	\$1,108	0.000102%		\$0		

Totals since 2022-05-05 (Storm Events through 2026-06-30): 46 county-coded records, 46 with a damage value recorded (including \$0), \$21,035,000; 6 zone-level records, 6 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	406,019
Building value (total, not at risk)	\$81,933,337,377
Agriculture value (total, not at risk)	\$90,683,525
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$70,617,356
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)	\$42,456,247
Social vulnerability rating	Relatively Moderate
Community resilience rating	Relatively 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)	5
Repetitive loss, NFIP insurance definition	44	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	0	5	44	4	44	0	9
of which: Flint city	0	2	22	1	22	0	1
of which: Genesee township	0	1	2	1	2	0	0
of which: Grand Blanc township	0	1	3	1	3	0	2
of which: Grand Blanc city	0	0	2	0	2	0	1

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>
of which: Genesee County (unincorporated area) (community ID not in plan data)	0	0	1	0	1	0	0
of which: Burton city	0	0	8	0	8	0	2
of which: Gaines township	0	0	1	0	1	0	1
of which: Flint township	0	0	1	0	1	0	0
of which: Flushing township	0	1	2	1	2	0	0
of which: Mundy township	0	0	1	0	1	0	1
of which: Davison township	0	0	1	0	1	0	1
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>
Burton city	260287	0	0	8	0	8	0	2
Clio city	260667	0	0	0	0	0	0	0
Davison city	260074	0	0	0	0	0	0	0
Fenton city	260075	0	0	0	0	0	0	0
Flint city	260076	0	2	22	1	22	0	1
Flushing city	260077	0	0	0	0	0	0	0
Gaines village	260294	0	0	0	0	0	0	0
Goodrich village	260397	0	0	0	0	0	0	0
Grand Blanc city	260255	0	0	2	0	2	0	1
Lennon village	260866	0	0	0	0	0	0	0
Lennon village	261183	0	0	0	0	0	0	0
Linden city	260398	0	0	0	0	0	0	0
Montrose city	260864	0	0	0	0	0	0	0
Mount Morris city	260626	0	0	0	0	0	0	0
Otisville village	260865	0	0	0	0	0	0	0
Otter Lake village	261003	0	0	0	0	0	0	0
Swartz Creek city	260080	0	0	0	0	0	0	0
Argentine township	260392	0	0	0	0	0	0	0
Atlas township	260393	0	0	0	0	0	0	0
Clayton charter township	260663	0	0	0	0	0	0	0
Davison township	260664	0	0	1	0	1	0	1
Fenton charter township	260394	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>
Flint charter township	260395	0	0	1	0	1	0	0
Flushing charter township	260396	0	1	2	1	2	0	0
Forest township	260863	0	0	0	0	0	0	0
Gaines township	260293	0	0	1	0	1	0	1
Genesee charter township	260078	0	1	2	1	2	0	0
Grand Blanc charter township	260079	0	1	3	1	3	0	2
Montrose charter township	260399	0	0	0	0	0	0	0
Mount Morris township	260400	0	0	0	0	0	0	0
Mundy township	260401	0	0	1	0	1	0	1
Richfield township	260402	0	0	0	0	0	0	0
Thetford township	260683	0	0	0	0	0	0	0
Vienna charter township	260665	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	3	27	3	27	0	8
2 to 4 unit residential	0	0	2	0	2	0	0
other residential	0	0	13	0	13	0	0
non-residential	0	2	2	1	2	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 44 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). Genesee County, MI: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 26049). Automated baseline. <https://hazardplain.org/mi/26049/> 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.