

Midland County, MI

Risk-assessment baseline packet

County FIPS: 26111 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 2031-02-10. Plan: Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951), approved 2026-02-11. Since the plan was approved on 2026-02-11: no new hazard declaration and 3 NOAA Storm Events records; details under "What changed since your last plan". Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$18,256,948 a year), Cold Wave (\$4,995,856) and Tornado (\$4,245,581). 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; 26111 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 2031-02-10	Plan:	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)
Approved:	2026-02-11	Days to expiry:	1,594

What changed since your last plan (approved 2026-02-11)

New federal declarations:	none	Storm Events records since approval:	3 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 13, SRL 5 (44 CFR 77.2); any definition: 121	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: 21 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
Midland County	County	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		
Coleman city	City	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		this jurisdiction approved 2026-02-19
Midland city	City	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		
Sanford village	Village	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		this jurisdiction approved 2026-02-19
Edenville township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		this jurisdiction approved 2026-05-04
Geneva township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		
Greendale township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		this jurisdiction approved 2026-05-04
Homer township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		this jurisdiction approved 2026-07-15
Hope township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		this jurisdiction approved 2026-02-19
Ingersoll township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		
Jasper township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		this jurisdiction approved 2026-05-04
Jerome township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		this jurisdiction approved 2026-05-04
Larkin charter township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		this jurisdiction approved 2026-02-19
Lee township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		this jurisdiction approved 2026-07-15
Lincoln township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		
Midland charter township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		this jurisdiction approved 2026-02-19
Mills township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Mount Haley township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		
Porter township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		
Warren township	Township	Approved, expires 2031-02-10	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951)	2026-02-11	2031-02-10	1,594		
Four Lakes Task Force	Special District	Plan 110951 approved 2026-02-11, pending adoption here; not yet eligible	Midland County 2025 Hazard Mitigation Plan (FEMA plan 110951), pending adoption here	2026-02-11 by FEMA; not yet adopted here	2031-02-10 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	EAL agriculture	Cost of expected deaths and injuries	EAL total (see note)	Storm Events records, 1996 to 2026-06-30	Storm Events coverage note
				<i>modeled dollars per year</i>	<i>modeled dollars per year</i>	<i>FEMA's dollar value per year, not property damage</i>	<i>modeled dollars per year</i>	<i>count</i>	
1	Inland Flooding	Relatively Moderate	Relatively Moderate	\$18,239,868	\$11,385	\$5,695	\$18,256,948	20	
2	Cold Wave	Relatively Moderate	Relatively High	\$1,397	\$65,489	\$4,928,969	\$4,995,856	15	Includes 1 Frost/Freeze record (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
3	Tornado	Relatively Moderate	Relatively Moderate	\$2,200,591	\$1,341	\$2,043,650	\$4,245,581	3	
4	Strong Wind	Relatively High	Relatively High	\$1,363,350	\$15,198	\$1,114,363	\$2,492,911	147	Includes 28 High Wind and 3 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
5	Hail	Relatively Moderate	Relatively Moderate	\$690,072	\$15,914	\$54,645	\$760,630	98	

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	Winter Weather	Relatively High	Relatively High	\$12,564	\$207	\$470,731	\$483,502	59	Includes 1 Sleet record (outside NRI's Winter Weather definition).
7	Heat Wave	Relatively Low	Relatively Low	\$3,425	under \$1	\$431,002	\$434,427	14	
8	Lightning	Relatively Low	Relatively Low	\$13,976	n/a	\$262,467	\$276,444	6	
9	Earthquake	Very Low	Very Low	\$96,363	n/a	\$29,743	\$126,105		Storm Events does not record earthquakes.
10	Ice Storm	Relatively Low	Relatively Low	\$122,061	n/a	\$1,108	\$123,169	8	
11	Hurricane	Very Low	Very Low	\$18,990	\$2,550	\$37	\$21,577	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Wildfire	Very Low	Very Low	\$15,056	\$8	\$2,778	\$17,842	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Landslide	Very Low	Very Low	\$36	n/a	\$284	\$320	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, 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 2906 (Relatively Low, 42.1); tract 2901 (Very Low, 30.3); tract 2904 (Very Low, 29.1)
Hurricane	tract 2906 (Very Low, 44.5); tract 2911.04 (Very Low, 40.8); tract 2912 (Very Low, 38.0)
Landslide	tract 2916.02 (Very Low, 79.8); tract 2914 (Very Low, 78.9); tract 2916.01 (Very Low, 77.1)
Tornado	tract 2906 (Very High, 95.0); tract 2912 (Relatively High, 88.3); tract 2911.04 (Relatively High, 85.7)
Wildfire	tract 2911.01 (Relatively Low, 75.4); tract 2911.03 (Relatively Low, 75.2); tract 2917 (Relatively Low, 73.9)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 2906 is Census Tract 2906). 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 2026 (14 zone-level)	1 day to 21 days (median 3 days); 14 with a recorded value	January 2003 (1 monthly summary record), zone-level	Cold/Wind Chill, 2007-02-03, \$25,000 property; \$0 crops (zone total, 2007 dollars)	Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	1 record, 2012 (1 zone-level)		Frost/Freeze, 2012-04-27, \$1,300,000 crop damage (2012 dollars); NWS zone MIZ047		Countywide (zone-level records).	
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.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Hail	hail size (inches)	103 records, 1970 to 2022	0.75 in to 3 in (median 1 in); 102 with a recorded value	3 in hail, 2014-07-27		Event records naming jurisdictions in the plan: Midland charter township (36 records), Midland city (36 records), Sanford village (11 records), Coleman city (9 records), Edenville township (5 records), Hope township (5 records), Larkin charter township (3 records), Porter township (2 records).	
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 records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.
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)	8 records, 1997 to 2020 (8 zone-level)		Ice Storm, 2019-12-01, \$50,000 property; \$0 crops (2019 dollars); NWS zone MIZ047		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	20 records, 1996 to 2020 (6 zone-level)		Flash Flood, 2017-06-22, \$116,400,000 property; \$0 crops (2017 dollars)		Event records naming jurisdictions in the plan: Coleman city (4 records), Sanford village (4 records), Edenville township (2 records), Hope township (1 record), Midland charter township (1 record), Midland city (1 record). Zone-level records (6) 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					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	6 records, 1997 to 2006		Lightning, 2006-05-30, \$50,000 property; crops not reported (2006 dollars)		Event records naming jurisdictions in the plan: Midland charter township (4 records), Midland city (4 records), Coleman city (1 record), Sanford village (1 record).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	31 records, 1996 to 2022 (31 zone-level)	35 kt (40 mph) to 70 kt (81 mph) (median 52 kt (60 mph)); 30 with a recorded value	70 kt (81 mph), measurement type not recorded, High Wind, 1997-04-06; NWS zone MIZ047	High Wind, 2017-03-08, \$7,000,000 property; \$0 crops (zone total, 2017 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	150 records, 1967 to 2026	50 kt (58 mph) to 71 kt (82 mph) (median 54 kt (62 mph)); 123 with a recorded value	71 kt (82 mph) measured gust, Thunderstorm Wind, 2011-05-31	Thunderstorm Wind, 2008-06-08, \$500,000 property; \$0 crops (2008 dollars)	Event records naming jurisdictions in the plan: Midland charter township (52 records), Midland city (52 records), Sanford village (16 records), Coleman city (8 records), Hope township (6 records), Larkin charter township (6 records), Edenville township (5 records).	

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)	10 records, 1951 to 2012	F/EF0 to F/EF2 (median F/EF1); 10 with a recorded value	F2 tornado, 1974-04-14, 2.5 mi path length (whole path, pre-1996), 30 yd wide, \$25,000 property; crops not recorded (1974 dollars), 1 direct injury	Tornado, 1999-05-31, \$150,000 property; crops not reported (1999 dollars)	Event records naming jurisdictions in the plan: Hope township (1 record), Midland charter township (1 record), Midland city (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					
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	59 records, 1997 to 2025 (59 zone-level)		Winter Storm, 2018-04-14, \$1,000,000 property; \$0 crops (2018 dollars); NWS zone MIZ047		Countywide (zone-level records).	

In event narratives only (local data needed): wind chill, temperature, heat index, ice thickness, acres burned and snow depth; any physical measure of debris flow and lightning.

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records from zones that 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 10 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
2020-07-09	2020-05-16	DR-4547-MI	Major disaster	Severe Storms and Flooding	Dam/Levee Break (not an NRI hazard); also designated: Inland Flooding	\$27,602,655.98	
2020-05-21	2020-05-16	EM-3525-MI	Emergency	Severe Storms and Flooding	Dam/Levee Break (not an NRI hazard); also designated: Inland Flooding	no Public Assistance recorded	same incident as DR-4547
2020-03-27	2020-01-20	DR-4494-MI	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$2,661,062.11	
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
2017-08-02	2017-06-22	DR-4326-MI	Major disaster	Severe Storms and Flooding	Inland Flooding	PA not declared for this county	
2013-06-18	2013-04-16	DR-4121-MI	Major disaster	Flooding	Inland Flooding	\$198,643.69	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Notes
						<i>federal share obligated, nominal dollars</i>	
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	
2001-01-10	2000-12-11	EM-3160-MI	Emergency	Snow	Winter Weather	\$66,303.63	
1996-07-23	1996-06-21	DR-1128-MI	Major disaster	Severe Storms and Flooding	Inland Flooding	no Public Assistance recorded	
1986-09-18	1986-09-10	DR-774-MI	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded	
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	

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	15	0	1	1	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record.
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	103	0	0	1	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	8	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	20	0	0	0	8	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	6	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	181	2	3	12	1	0	1955 to 2026-06-30	Includes 28 High Wind and 3 Strong Wind records.
Tornado	10	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	59	0	1	6	2	0	1996 to 2026-06-30	Includes 1 Sleet record.

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
2018-04-14	Winter Storm		\$1,000,000 property; \$0 crops (zone total, 2018 dollars)	0, 0	NWS zone MIZ047 (MIDLAND), zone-level	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2017-06-22	Flash Flood		\$116,400,000 property; \$0 crops (2017 dollars)	0, 0	COLEMAN to PLEASANT VLY	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2014-07-27	Hail	3 in	\$5,000,000 property; \$0 crops (2014 dollars)	0, 0	MIDLAND	B1-c worst recorded: Hail
2012-07-01	Heat		\$0 property; \$0 crops (zone total, 2012 dollars)	0, 0	NWS zone MIZ047 (MIDLAND), zone-level	B1-c worst recorded: Excessive Heat, Heat
2012-04-27	Frost/Freeze		\$0 property; \$1,300,000 crops (zone total, 2012 dollars)	0, 0	NWS zone MIZ047 (MIDLAND), zone-level	B1-c worst recorded: Frost/Freeze
2011-05-31	Thunderstorm Wind	71 kt (82 mph) measured gust	\$3,000 property; \$0 crops (2011 dollars)	0, 0	LARKIN	B1-c worst recorded: Thunderstorm Wind
2007-02-03	Cold/Wind Chill		\$25,000 property; \$0 crops (zone total, 2007 dollars)	0, 10	NWS zone MIZ047 (MIDLAND), zone-level	deaths or injuries recorded
2006-05-29	Heat		damage not reported	0, 3	NWS zone MIZ047 (MIDLAND), zone-level	deaths or injuries recorded
2003-01-10	Cold/Wind Chill		damage not reported	0, 0	NWS zone MIZ047 (MIDLAND), zone-level	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1997-04-06	High Wind	70 kt (81 mph), measurement type not recorded	\$50,000 property; crops not reported (zone total, 1997 dollars)	0, 0	NWS zone MIZ047 (MIDLAND), zone-level	B1-c worst recorded: High Wind and Strong Wind
1986-09-11	Thunderstorm Wind	speed not recorded	damage not recorded (pre-1996 record)	0, 12	location not recorded	deaths or injuries recorded
1974-04-14	Tornado	F2, 2.5 mi path length (whole path, pre-1996), 30 yd wide	\$25,000 property; crops not recorded (1974 dollars)	0, 1	location not recorded	B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (418 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	Storm Events event-days in 10 of 30 years, 1996 to 2025 (33.3%)	55	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	0	event-days per year	none modeled	Possible	Storm Events 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	0.000532	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0532%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	1.96	events per year	about 1.96 per year	Highly likely	FEMA annualized frequency (modeled)	74.5 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	2.16	event-days per year	about 2.16 days per year	Likely	Storm Events event-days in 8 of 30 years, 1996 to 2025 (26.7%)	36	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0158	events per year	about 1 in 63 years	Possible	FEMA annualized frequency (modeled)	6	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	0.772	event-days per year	about 0.772 days per year	Likely	Storm Events event-days in 8 of 30 years, 1996 to 2025 (26.7%)	52	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.679	event-days per year	about 0.679 days per year	Likely	Storm Events event-days in 10 of 30 years, 1996 to 2025 (33.3%)	19	1996 to 2023 (28 years)	see B1-f	
Landslide	0.0651	events per year (modeled)	about 1 in 15 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Lightning	30.6	days per year with a strike	about 30.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	3.11	events per year	about 3.11 per year	Highly likely	FEMA annualized frequency (modeled)	118	1986 to 2023 (38 years)	countywide	
Tornado	0.189	events per year	about 1 in 5 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.000159	annual probability at a location	chance a given location in the county burns in a year: 0.0159%		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	10.4	event-days per year	about 10.4 days per year	Likely	Storm Events event-days in 23 of 30 years, 1996 to 2025 (76.7%)	198	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	53	30	1.77
Hail	2.00 in+	1996 to 2025	8	30	0.267
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	106	30	3.53
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	8	30	0.267
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	2	30	0.0667
Tornado	EF2-3	1996 to 2025	1	30	0.0333
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Cold Wave	21 of 21	56.6	85.6	92.8	Relatively High 17, Relatively Moderate 4
Drought	0 of 21				No Rating 21
Earthquake	21 of 21	7.7	17.4	42.1	Relatively Low 1, Very Low 20
Hail	21 of 21	56.1	75.6	91.9	Relatively High 1, Relatively Moderate 16, Relatively Low 4
Heat Wave	21 of 21	6.9	29.5	45.7	Relatively Low 18, Very Low 3
Hurricane	21 of 21	23.2	33.4	44.5	Very Low 21
Ice Storm	21 of 21	22.2	50.8	83.9	Relatively Moderate 2, Relatively Low 17, Very Low 2
Inland Flooding	21 of 21	12.1	64.5	92.8	Relatively High 6, Relatively Moderate 8, Relatively Low 6, Very Low 1
Landslide	21 of 21	17.9	44.0	79.8	Very Low 21
Lightning	21 of 21	21.7	52.7	70.2	Relatively Moderate 14, Relatively Low 7
Strong Wind	21 of 21	73.1	92.5	98.8	Very High 3, Relatively High 15, Relatively Moderate 3

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	21 of 21	51.8	74.7	95.0	Very High 1, Relatively High 10, Relatively Moderate 9, Relatively Low 1
Wildfire	20 of 21	18.9	56.2	75.4	Relatively Low 7, Very Low 13, No Rating 1
Winter Weather	21 of 21	71.8	93.9	97.2	Very High 4, Relatively High 16, Relatively Moderate 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
Midland County	County	Approved, expires 2031-02-10		\$1,767,698.65	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Coleman city	City	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	22 total; 0 since its plan	
Midland city	City	Approved, expires 2031-02-10	FMA RL 8, SRL 2; any 107	\$4,250,740.17	94 total; 1 since its plan	
Sanford village	Village	Approved, expires 2031-02-10	FMA RL 5, SRL 3; any 7	\$2,749,707.80	32 total; 0 since its plan	
Edenville township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	\$25,534.37	12 total; 0 since its plan	
Geneva township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Greendale township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Homer township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 5	no Public Assistance recorded	0 total; 0 since its plan	
Hope township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	13 total; 0 since its plan	
Ingersoll township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Jasper township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Jerome township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	\$28,518.28	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>	
Larkin charter township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	9 total; 0 since its plan	
Lee township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Lincoln township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Midland charter township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 2	no Public Assistance recorded	94 total; 1 since its plan	
Mills township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Mount Haley township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Porter township	Township	Approved, expires 2031-02-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	2 total; 0 since its plan	
Warren township	Township	Approved, expires 2031-02-10	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 2026-02-11 <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	\$20,525,486,147	\$60,389,988	83,456	\$1,397	\$65,489	\$4,928,969	under 0.0001%				
Drought	n/a	\$0	n/a	n/a	\$0	n/a					agriculture exposure is 0 in NRI
Earthquake	\$36,165,856,861	n/a	83,494	\$96,363	n/a	\$29,743	0.000266%				
Hail	\$20,525,486,147	\$60,389,988	83,456	\$690,072	\$15,914	\$54,645	0.00336%				
Heat Wave	\$20,525,486,147	\$60,389,988	83,456	\$3,425	under \$1	\$431,002	under 0.0001%		\$0		
Hurricane	\$20,424,924,955	\$59,396,781	83,113	\$18,990	\$2,550	\$37	under 0.0001%				
Ice Storm	\$20,523,837,919	n/a	83,449	\$122,061	n/a	\$1,108	0.000595%				
Inland Flooding	\$20,492,794,330	\$1,199,441	2,031	\$18,239,868	\$11,385	\$5,695	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	\$35,167,098	n/a	146	\$36	n/a	\$284	0.000103%				
Lightning	\$20,525,486,147	n/a	83,456	\$13,976	n/a	\$262,467	under 0.0001%				
Strong Wind	\$20,525,486,147	\$60,389,988	83,456	\$1,363,350	\$15,198	\$1,114,363	0.00664%	\$0			
Tornado	\$20,525,486,147	\$60,389,988	83,456	\$2,200,591	\$1,341	\$2,043,650	0.0107%				

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 2026-02-11 <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
Wildfire	\$1,046,965,914	\$6,484,428	9,307	\$15,056	\$8	\$2,778	0.00144%				
Winter Weather	\$20,525,486,147	\$60,389,988	83,456	\$12,564	\$207	\$470,731	under 0.0001%				

Totals since 2026-02-11 (Storm Events through 2026-06-30): 2 county-coded records, 2 with a damage value recorded (including \$0), \$0; 1 zone-level records, 1 with a damage value recorded (including \$0), \$0 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	83,456
Building value (total, not at risk)	\$20,525,486,147
Agriculture value (total, not at risk)	\$60,389,988
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$22,889,842
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)	\$9,345,471
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)	13	Severe repetitive loss, FMA definition (44 CFR 77.2)	5
Repetitive loss, NFIP insurance definition	120	Severe repetitive loss, NFIP insurance definition	3

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	13	5	120	3	121	0	54
of which: Midland city	8	2	106	1	107	0	51
of which: Midland township	0	0	2	0	2	0	1
of which: Sanford village	5	3	7	2	7	0	0
of which: Homer township	0	0	5	0	5	0	2
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>
Coleman city	260861	0	0	0	0	0	0	0
Midland city	260140	8	2	106	1	107	0	51
Sanford village	260859	5	3	7	2	7	0	0
Edenville township	260850	0	0	0	0	0	0	0
Geneva township	260869	0	0	0	0	0	0	0
Greendale township	260870	0	0	0	0	0	0	0
Homer township	260989	0	0	5	0	5	0	2
Hope township	260871	0	0	0	0	0	0	0
Ingersoll township	260851	0	0	0	0	0	0	0
Jasper township	260852	0	0	0	0	0	0	0
Jerome township	260853	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>
Larkin charter township	260854	0	0	0	0	0	0	0
Lee township	260855	0	0	0	0	0	0	0
Lincoln township	260856	0	0	0	0	0	0	0
Midland charter township	260857	0	0	2	0	2	0	1
Mills township	260872	0	0	0	0	0	0	0
Mount Haley township	260873	0	0	0	0	0	0	0
Porter township	260858	0	0	0	0	0	0	0
Warren township	260874	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	12	3	90	3	90	0	51
2 to 4 unit residential	1	1	4	0	4	0	2
other residential	0	0	25	0	25	0	1
non-residential	0	1	1	0	2	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 107 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

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

What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment (the summary on page 1 says how it is organized); the plan and FEMA's review decide whether each 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).

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