

Jackson County, MI

Risk-assessment baseline packet

Unit **County area 26075** Release **2026-10** As of **2026-09-28** 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.

A starting point for the plan's risk assessment (FEMA Local Mitigation Plan Review Tool, Element B). It does not replace local data or FEMA review. Section headings say which FEMA review item each table supports; whether an item is satisfied is decided by the plan and its reviewers.

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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).

Plan clock

Status	Approved, expires 2027-10-04	Plan	Jackson County HMP Update (FEMA plan 106305)
Approved	2022-10-05	Expires	2027-10-04
As of	2026-09-28	Days	371 days to expiry

What changed since your last plan (approved 2022-10-05)

New federal declarations	none (0 declaration rows; 0 counted incidents)	Storm Events records since approval	25 (data through 2026-06-30)
Repetitive loss now	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 4	Repeat-flood change	First release: no prior release to compare.

SOURCES: FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API); FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API); NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>; FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

Plan status for every jurisdiction listed in this county: 26 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

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

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Plan clock

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Jackson County	County	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		
Brooklyn village	Village	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2024-02-26
Concord village	Village	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2024-02-26
Hanover village	Village	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	Jackson County HMP Update (FEMA plan 106305), pending adoption here	2022-10-05 by FEMA; not yet adopted here	2027-10-04 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Jackson city	City	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	Jackson County HMP Update (FEMA plan 106305), pending adoption here	2022-10-05 by FEMA; not yet adopted here	2027-10-04 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Parma village	Village	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2023-12-05
Springport village	Village	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2023-12-05
Blackman charter township	Township	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2025-12-10
Columbia township	Township	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	Jackson County HMP Update (FEMA plan 106305), pending adoption here	2022-10-05 by FEMA; not yet adopted here	2027-10-04 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Grass Lake charter township	Township	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2023-12-05
Hanover township	Township	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2024-02-26
Henrietta township	Township	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2025-12-03

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Leoni township	Township	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2024-01-03
Liberty township	Township	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	Jackson County HMP Update (FEMA plan 106305), pending adoption here	2022-10-05 by FEMA; not yet adopted here	2027-10-04 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Napoleon township	Township	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2023-11-09
Norvell township	Township	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2023-11-09
Parma township	Township	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2023-11-09
Pulaski township	Township	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	Jackson County HMP Update (FEMA plan 106305), pending adoption here	2022-10-05 by FEMA; not yet adopted here	2027-10-04 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Rives township	Township	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	Jackson County HMP Update (FEMA plan 106305), pending adoption here	2022-10-05 by FEMA; not yet adopted here	2027-10-04 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sandstone township	Township	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	Jackson County HMP Update (FEMA plan 106305), pending adoption here	2022-10-05 by FEMA; not yet adopted here	2027-10-04 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Spring Arbor township	Township	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2023-11-09
Springport township	Township	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2023-12-05
Summit township	Township	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2024-02-26
Tompkins township	Township	Approved, expires 2027-10-04	Jackson County HMP Update (FEMA plan 106305)	2022-10-05	2027-10-04	371		member approved 2023-11-09
Homer Community Schools	School/School District	Plan 110177 approved 2024-12-11, pending adoption here; not yet eligible	Calhoun County 2024 Hazard Mitigation Plan (FEMA plan 110177), pending adoption here	2024-12-11 by FEMA; not yet adopted here	2029-12-10 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Marshall Public Schools	School/School District	Approved, expires 2029-12-10	Calhoun County 2024 Hazard Mitigation Plan (FEMA plan 110177)	2024-12-11	2029-12-10	1,169		member approved 2025-04-14

SOURCEFEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Supports B1-a: hazards

Hazards NRI does not cover: check locally

- 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)

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total <i>(see note)</i> <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Relatively Moderate	Relatively Moderate	\$18,186,980	\$7,276	\$6,745	\$18,201,001	11		
2	Tornado	Relatively High	Relatively High	\$6,268,762	\$2,848	\$4,178,697	\$10,450,306	5		
3	Cold Wave	Relatively Moderate	Relatively Moderate	\$1,769	\$38,651	\$3,454,019	\$3,494,439	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
4	Strong Wind	Relatively High	Relatively High	\$1,582,657	\$18,929	\$371,207	\$1,972,793	160		Includes 12 High Wind records and 2 Strong Wind records, event types the NRI definition of this hazard leaves out.
5	Hail	Relatively Moderate	Relatively Moderate	\$1,487,892	\$29,977	\$25,887	\$1,543,756	40		
6	Earthquake	Relatively Low	Relatively Low	\$576,864		\$165,454	\$742,318			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
7	Heat Wave	Relatively Low	Relatively Low	\$6,731	\$1	\$545,986	\$552,718	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
8	Ice Storm	Relatively Moderate	Relatively Moderate	\$337,008		\$16,997	\$354,004	4		
9	Lightning	Relatively Moderate	Relatively Low	\$35,446		\$276,224	\$311,670	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
10	Winter Weather	Relatively Moderate	Relatively Moderate	\$33,540	\$484	\$107,518	\$141,541	63		Includes 1 Sleet record, event types the NRI definition of this hazard leaves out.
11	Hurricane	Very Low	Very Low	\$26,046	\$3,535	\$133	\$29,714	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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total <i>(see note) modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
12	Wildfire	Very Low	Very Low	\$16,033	\$6	\$2,020	\$18,059	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
13	Landslide	Relatively Low	Very Low	\$695		\$2,836	\$3,531	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
14	Drought	No Rating	No Expected Annual Losses		\$0		\$0	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Avalanche	Not Applicable	Not Applicable					0	NRI rates avalanche Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Coastal Flooding	Not Applicable	Not Applicable					0	NRI rates coastal flooding Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
 NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Check your state hazard mitigation plan's hazard list for this county; explain any hazard you drop.

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 46
Coastal Flooding	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 46
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	46 of 46
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 46
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	46 of 46
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	46 of 46
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	46 of 46
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	46 of 46
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	46 of 46
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.	46 of 46
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	46 of 46
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	46 of 46
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	46 of 46
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	46 of 46
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 46
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 46
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	43 of 46
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	46 of 46

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Supports B1-c: extent

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

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	0					Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	0					Temperature: in event narratives only; local data required.
Drought	US Drought Monitor D- scale	0					Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	62, 1958 to 2025	0.7 in to 4.25 in (median 1 in); 62 with a recorded value	4.25 in hail, 2004-06-09		Event records naming member places: Jackson city (5 records), Hanover township (3 records), Hanover village (3 records), Parma township (3 records), Parma village (3 records), Brooklyn village (2 records), Concord village (2 records), Grass Lake charter township (2 records), Napoleon township (2 records), Spring Arbor township (2 records); and 4 more member places (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	0					Heat index: in event narratives only; local data required.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.
Ice Storm	Sperry-Piltz (local data)	4, 1997 to 2023 (4 zone- level)		Ice Storm, 2023-02-22, \$1,000,000 property; \$0 crops, reported for the zone (2023 dollars); NWS zone MIZ074 (JACKSON), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	11, 1998 to 2013 (5 zone-level)		Flood, 2013-04-17, \$3,000,000 property; \$0 crops (2013 dollars)		Event records naming member places: Springport township (2 records), Springport village (2 records), Jackson city (1 record), Pulaski township (1 record). Zone-level records (5) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	0					Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	14, 1997 to 2021 (14 zone-level)	37 kt (43 mph) to 61 kt (70 mph) (median 51 kt (59 mph)); 13 with a recorded value	61 kt (70 mph) estimated gust, High Wind, 2013-11-17; NWS zone MIZ074 (JACKSON), zone-level: may include parts of neighboring counties	High Wind, 2017-03-08, \$10,000,000 property; \$0 crops, reported for the zone (2017 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	219, 1956 to 2026	50 kt (58 mph) to 83 kt (96 mph) (median 52 kt (60 mph)); 151 with a recorded value	83 kt (96 mph) measured gust, Thunderstorm Wind, 2025-03-30	Thunderstorm Wind, 2021-08-12, \$200,000 property; \$0 crops (2021 dollars)	Event records naming member places: Jackson city (30 records), Parma township (14 records), Parma village (14 records), Pulaski township (8 records), Springport township (8 records), Springport village (8 records), Brooklyn village (6 records), Napoleon township (6 records), Spring Arbor township (6 records), Hanover township (5 records); and 8 more member places (see the XLSX file).	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Tornado	Enhanced Fujita (F before Feb 2007)	19, 1954 to 2023	F/EF0 to F/EF3 (median F/EF1); 19 with a recorded value	F3 tornado, 1982-06-15, 10 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 500 yd wide, \$2,500,000 property; crops not recorded (1982 dollars), 1 direct death, 1 direct injury		Event records naming member places: Leoni township (1 record).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	0					Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	63, 1996 to 2025 (63 zone-level)		Winter Storm, 2011-11-29, \$1,000,000 property; \$0 crops, reported for the zone (2011 dollars); NWS zone MIZ074 (JACKSON), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

Where a hazard names more than 10 member places, the table lists the 10 with the most records; every place is in the XLSX 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 are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

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

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Supports B1-d: previous occurrences

Declaration rows 10 Counted incidents 7

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance federal share obligated, nominal dollars	Flags	Notes
2020-03-27	2020-01-20	DR-4494-MI	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$9,486.60		
2020-03-13	2020-01-20	EM-3455-MI	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4494
2005-09-07	2005-08-29	EM-3225-MI	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	none found		
2004-06-30	2004-05-20	DR-1527-MI	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	PA not declared for this county		
2001-01-10	2000-12-11	EM-3160-MI	Emergency	SNOW	Winter Weather	\$71,851.50		
1999-01-27	1999-01-02	EM-3137-MI	Emergency	MI - SEVERE WEATHER 1/2 /99	Winter Weather	\$47,610.22		
1980-09-08	1980-09-08	DR-631-MI	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1978-01-27	1978-01-27	EM-3057-MI	Emergency	BLIZZARDS & SNOWSTORMS	Winter Weather	none found		
1976-03-19	1976-03-19	DR-495-MI	Major disaster	SEVERE STORMS, TORNADOES, ICING & FLOODING	Inland Flooding; Tornado	none found		
1972-04-05	1972-04-05	DR-330-MI	Major disaster	SEVERE STORM & FREEZING	Winter Weather	none found		

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

SOURCES

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Statewide declarations

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
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. Listed on every county page in the state; not counted with county rows.

SOURCE

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval records	During plan review records	Last 5 years records	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Drought	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	62	1	0	1	0	0	1955 to 2026-06-30	
Heat Wave	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	4	1	0	1	0	0	1996 to 2026-06-30	
Inland Flooding	11	0	0	0	3	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	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Strong Wind	233	18	3	21	0	0	1955 to 2026-06-30	Includes 12 High Wind records and 2 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	19	2	0	2	2	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	63	3	2	5	4	0	1996 to 2026-06-30	Includes 1 Sleet record, event types the NRI definition of this hazard leaves out.

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2025-03-30	Thunderstorm Wind	83 kt (96 mph) measured gust	damage not reported	0, 0	(JXN)REYNOLDS FLD JA	new since last plan; within last 5 years	B1-c worst recorded: Thunderstorm Wind
2023-02-22	Ice Storm		\$1,000,000 property; \$0 crops, reported for the zone (2023 dollars)	0, 0	NWS zone MIZ074 (JACKSON), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: Ice Storm
2021-08-12	Thunderstorm Wind	52 kt (60 mph) estimated gust	\$200,000 property; \$0 crops (2021 dollars)	0, 0	JEFFERSON to NORVELL		B1-c most damaging: Thunderstorm Wind
2017-03-08	High Wind	54 kt (62 mph) measured gust	\$10,000,000 property; \$0 crops, reported for the zone (2017 dollars)	0, 0	NWS zone MIZ074 (JACKSON), zone-level: may include parts of neighboring counties		B1-c most damaging: High Wind and Strong Wind (outside NRI Strong Wind definition)
2013-11-17	High Wind	61 kt (70 mph) estimated gust	\$100,000 property; \$0 crops, reported for the zone (2013 dollars)	0, 0	NWS zone MIZ074 (JACKSON), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2013-04-17	Flood		\$3,000,000 property; \$0 crops (2013 dollars)	0, 0	SPRINGPORT to PULASKI		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2011-11-29	Winter Storm		\$1,000,000 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone MIZ074 (JACKSON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2004-06-09	Hail	4.25 in	\$50,000 property; \$50,000 crops (2004 dollars)	0, 0	RIVES JCT		B1-c worst recorded: Hail
1991-06-14	Tornado	F1, 1 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 30 yd wide	\$25,000 property; crops not recorded (1991 dollars)	0, 1	location not recorded		deaths or injuries recorded
1991-06-14	Thunderstorm Wind	52 kt (60 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 1	location not recorded		deaths or injuries recorded
1982-06-15	Tornado	F3, 10 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 500 yd wide	\$2,500,000 property; crops not recorded (1982 dollars)	1, 1	location not recorded		deaths or injuries recorded
1969-07-04	Tornado	F1, 0.3 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 27 yd wide	\$25,000 property; crops not recorded (1969 dollars)	0, 11	location not recorded		deaths or injuries recorded

The full list is in the **XLSX** file, sheet "B1-d Storm Events history" (392 rows).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
 FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

State-declared emergencies are not in federal data. Add them from your state emergency management agency.

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

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
Avalanche		events per year					1994 to 2023 (30 years)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Coastal Flooding		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Cold Wave	2.42	event-days per year	about 2.42 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	46	2005-11-12 to 2024-11-12 (19 years)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned. Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	0	event-days per year	none modeled		event-days in 0 of 30 years, 1996 to 2025 (0%)	0	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Earthquake	0.000971	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0971%			not shown	modeled	see B1-f	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.
Hail	3.04	events per year	about 3.04 per year	Highly likely	FEMA annualized frequency (modeled)	115.7 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	2.63	event-days per year	about 2.63 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	38	2005-11-12 to 2024-11-12 (19 years)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Hurricane	0.0118	events per year	about 1 in 85 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 counted separately in B1-d and need not match.

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
Ice Storm	1.78	event-days per year	about 1.78 days per year	Likely	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	120	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 1.78 ice storm event-days a year here (its annualized frequency over 67 years; not its event count divided by the years), but Storm Events has a record in only 4 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Inland Flooding	0.393	event-days per year	about 0.393 days per year	Likely	event-days in 7 of 30 years, 1996 to 2025 (23.3%)	11	1996 to 2023 (28 years)	see B1-f	
Landslide	0.18	events per year (modeled)	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	35.7	days per year with a strike	about 35.7 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	5.75	events per year	about 5.75 per year	Highly likely	FEMA annualized frequency (modeled)	219	1986 to 2023 (38 years)	countywide	
Tornado	0.372	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	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.0000196	annual probability at a location	chance a given location in the county burns in a year: 0.00196%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)
Winter Weather	16.1	event-days per year	about 16.1 days per year	Likely	event-days in 23 of 30 years, 1996 to 2025 (76.7%)	306	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the

number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county, which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Descriptor scale used in this packet (defined per unit)

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

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Intensity bands: historical frequency (Storm Events)

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	19	30	0.633
Hail	2.00 in+	1996 to 2025	3	30	0.1
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	120	30	4
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	5	30	0.167
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	19	30	0.633
Tornado	EF0-1	1996 to 2025	5	30	0.167
Tornado	EF2-3	1996 to 2025	0	30	0

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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.

SOURCE

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

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.

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	0 of 46				Not Applicable 46	
Coastal Flooding	0 of 46				Not Applicable 46	
Cold Wave	46 of 46	35.5	58.5	73.9	Relatively Moderate 42, Relatively Low 4	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	0 of 46				No Rating 46	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Earthquake	46 of 46	10.7	34.0	63.0	Relatively Low 14, Very Low 32	
Hail	46 of 46	47.8	76.6	88.8	Relatively High 1, Relatively Moderate 40, Relatively Low 5	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	46 of 46	5.1	15.1	30.3	Relatively Low 16, Very Low 30	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	46 of 46	20.0	30.7	37.1	Very Low 46	
Ice Storm	46 of 46	22.0	61.0	82.7	Relatively Moderate 11, Relatively Low 33, Very Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	46 of 46	1.7	30.2	78.6	Relatively Moderate 5, Relatively Low 30, Very Low 11	
Landslide	46 of 46	21.2	67.7	89.7	Relatively Low 11, Very Low 35	
Lightning	46 of 46	15.3	33.8	50.9	Relatively Moderate 1, Relatively Low 44, Very Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	46 of 46	42.9	74.2	89.8	Relatively High 8, Relatively Moderate 33, Relatively Low 5	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	46 of 46	55.6	75.9	92.6	Relatively High 28, Relatively Moderate 18	

Hazard	Tracts rated of all	Risk score min NRI score, 0 to 100	Median	Max	Tracts by rating	Note
Tsunami	0 of 46				Not Applicable 46	
Volcanic Activity	0 of 46				Not Applicable 46	
Wildfire	43 of 46	21.9	55.7	67.3	Very Low 43, No Rating 3	
Winter Weather	46 of 46	33.4	52.0	67.5	Relatively Moderate 35, Relatively Low 11	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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.

SOURCE

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat- flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Jackson County	County	Approved, expires 2027-10-04		\$24,277.59	0; 0	No NFIP community ID on this member's plan row.
Brooklyn village	Village	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	\$5,988.35	8; 0	
Concord village	Village	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	6; 0	
Hanover village	Village	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	8; no approved plan	
Jackson city	City	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 2	\$54,440.03	36; no approved plan	
Parma village	Village	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	17; 0	
Springport village	Village	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	11; 1	
Blackman charter township	Township	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	0; 0	
Columbia township	Township	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	0; no approved plan	

Member	Type	Plan status	Repetitive loss	Public Assistance matched	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>federal share obligated, nominal dollars</i>	<i>all years; since the member's plan</i>	
Grass Lake charter township	Township	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	5; 0	
Hanover township	Township	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	8; 1	
Henrietta township	Township	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	2; 1	
Leoni township	Township	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	3; 0	
Liberty township	Township	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	3; no approved plan	
Napoleon township	Township	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 1	none found	8; 0	
Norvell township	Township	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	1; 0	
Parma township	Township	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	17; 0	
Pulaski township	Township	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	9; no approved plan	
Rives township	Township	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	0; no approved plan	
Sandstone township	Township	Plan 106305 approved 2022-10-05, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	3; no approved plan	
Spring Arbor township	Township	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	8; 0	
Springport township	Township	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	11; 1	
Summit township	Township	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 1	none found	0; 0	
Tompkins township	Township	Approved, expires 2027-10-04	FMA RL 0, SRL 0; any 0	none found	0; 0	

Member 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 member row, while the county table counts only its part in this county.

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

SOURCES

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Supports B2-a and B2-b: assets and impacts

Local data required

County-level starter. The plan must describe impacts for each participant and its own assets.

- Critical facilities and lifelines per hazard
 - A problem statement per participant 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

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-10-05 <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
Avalanche											Not Applicable in NRI for this county
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$33,074,168,141	\$91,140,327	160,309	\$1,769	\$38,651	\$3,454,019	under 0.0001%				
Drought		\$0			\$0						agriculture exposure is 0 in NRI
Earthquake	\$58,202,474,090		160,366	\$576,864		\$165,454	0.000991%				
Hail	\$33,074,176,925	\$91,140,327	160,309	\$1,487,892	\$29,977	\$25,887	0.0045%				
Heat Wave	\$33,074,168,141	\$91,140,327	160,309	\$6,731	\$1	\$545,986	under 0.0001%				
Hurricane	\$32,672,925,883	\$88,434,164	158,187	\$26,046	\$3,535	\$133	under 0.0001%				
Ice Storm	\$33,074,168,141		160,309	\$337,008		\$16,997	0.00102%		\$1,000,000		
Inland Flooding	\$32,973,067,382	\$1,232,394	2,647	\$18,186,980	\$7,276	\$6,745	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. EAL as % of exposure: n/a.
Landslide	\$244,150,847		1,168	\$695		\$2,836	0.000284%				
Lightning	\$33,074,176,925		160,309	\$35,446		\$276,224	0.000107%				
Strong Wind	\$33,074,176,925	\$91,140,327	160,309	\$1,582,657	\$18,929	\$371,207	0.00479%	\$47,000			

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2022-10-05 <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
Tornado	\$33,074,176,925	\$91,140,327	160,309	\$6,268,762	\$2,848	\$4,178,697	0.019%	\$210,000			
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$12,825,802,992	\$35,556,671	66,228	\$16,033	\$6	\$2,020	0.000125%				
Winter Weather	\$33,074,168,141	\$91,140,327	160,309	\$33,540	\$484	\$107,518	0.000101%		\$0		

Totals since 2022-10-05 (Storm Events through 2026-06-30): 21 county-coded records, 10 with a damage value recorded (including \$0), \$257,000; 4 zone-level records, 3 with a damage value recorded (including \$0), \$1,000,000 reported for the zone; Public Assistance on counted declarations none found (0 declarations, 0 with PA).

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

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 must not be added up; the unit total counts each declaration once.

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

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Supports B2-a: context

County context

Measure	Value
Population	160,309
Building value (total, not at risk)	\$33,074,176,925
Agriculture value (total, not at risk)	\$91,140,327
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$28,662,129
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)	\$9,153,723
Social vulnerability rating	Relatively Low
Community resilience rating	Very High
NRI version	December 2025

FEMA's all-hazard expected annual loss total adds buildings, agriculture and population equivalence; the two parts are shown separately so the property figure is not read as including the statistical value of life.

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	4	Severe repetitive loss, NFIP insurance definition	0

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

SOURCES
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties: county and state-level rows

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	0	0	4	0	4	0	1
JACKSON, CITY OF	0	0	2	0	2	0	0
SUMMIT, TOWNSHIP OF	0	0	1	0	1	0	0
NAPOLEON, TOWNSHIP OF	0	0	1	0	1	0	1
State level, not in this county: county not reported	0	0	4	0	4	0	0

SOURCES
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties by plan member (NFIP community)

Member	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>	Note
Brooklyn village	260335	0	0	0	0	0	0	0	
Concord village	260423	0	0	0	0	0	0	0	
Hanover village	261058	0	0	0	0	0	0	0	
Jackson city	260273	0	0	2	0	2	0	0	
Parma village	260425	0	0	0	0	0	0	0	
Springport village	261077	0	0	0	0	0	0	0	
Blackman charter township	260714	0	0	0	0	0	0	0	
Columbia township	261061	0	0	0	0	0	0	0	

Member	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>	Note
Grass Lake charter township	261062	0	0	0	0	0	0	0	
Hanover township	261063	0	0	0	0	0	0	0	
Henrietta township	261064	0	0	0	0	0	0	0	
Leoni township	260930	0	0	0	0	0	0	0	
Liberty township	261065	0	0	0	0	0	0	0	
Napoleon township	261066	0	0	1	0	1	0	1	
Norvell township	260424	0	0	0	0	0	0	0	
Parma township	261076	0	0	0	0	0	0	0	
Pulaski township	261067	0	0	0	0	0	0	0	
Rives township	261068	0	0	0	0	0	0	0	
Sandstone township	261069	0	0	0	0	0	0	0	
Spring Arbor township	261070	0	0	0	0	0	0	0	
Springport township	261459	0	0	0	0	0	0	0	
Summit township	260575	0	0	1	0	1	0	0	
Tompkins township	261073	0	0	0	0	0	0	0	

Per-member types: XLSX sheet 'B2-c Members'.

Member 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 member row, while the county table counts only its part in this county.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

County repeat-flood properties by occupancy group

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	0	0	2	0	2	0	1
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	0	2	0	2	0	0
not reported	0	0	0	0	0	0	0

Institutional properties cannot be separated in this data: FEMA's occupancy groups have no institutional class, so they fall in non-residential or other residential in the table by occupancy group.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

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; OpenFEMA's fmaRI field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRI) is 2 or more claims over \$1,000 in 10 years and can drop to false when a property is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured.

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

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

Counts may differ from your state NFIP coordinator's list, which is the source the Handbook names.

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 4 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

Every table above lists its own sources. The full list, for the plan's bibliography (FEMA review item A4-a):

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <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 2026-09-28, 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 2026-09-28, <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 2026-09-28, <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 2026-09-28, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

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Cite this: Hazard Plain (2026). Jackson County, MI: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 26075). Preview: automated baseline. 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: to be added

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_MI_26075. Preview: automated baseline.