

Van Buren County, MI

Risk-assessment baseline packet

Unit **County area 26159** 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.

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).

Plan clock

Status	Expired on 2021-03-01	Plan	Van Buren County (FEMA plan 102083)
Approved	2016-03-01	Expires	2021-03-01
As of	2026-09-28	Days	2,037 days since expiry
Update underway	none in FEMA's plan tracker		

Generally not eligible for FEMA mitigation project grants (HMGP, FMA) until a new plan is approved, barring a 44 CFR 201.6(a)(3) exception. Planning grants are not affected.

What changed since your last plan (approved 2016-03-01)

New federal declarations	EM-3455-MI (non-natural, not counted), DR-4494-MI (non-natural, not counted) (2 declaration rows; 0 counted incidents)	Storm Events records since approval	73 (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: 30 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.

CONTENTS

1. Plan clock, page 1
2. What changed since your last plan (approved 2016-03-01), page 1
3. Supports B1-a: hazards, page 3
4. Supports B1-b: location, page 5
5. Supports B1-c: extent, page 5
6. Supports B1-d: previous occurrences, page 9
7. Supports B1-e: probability, page 12
8. Supports B1-f: variation across the planning area, page 15
9. Supports B2-a and B2-b: assets and impacts, page 18
10. Supports B2-a: context, page 20
11. Supports B2-c: repetitive loss, page 20
12. Sources and OpenFEMA disclaimer, page 23

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
Van Buren County	County	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Bangor city	City	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Bloomington village	Village	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Breedsville village	Village	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Decatur village	Village	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Gobles city	City	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Hartford city	City	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Lawrence village	Village	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Lawton village	Village	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Mattawan village	Village	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Paw Paw village	Village	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
South Haven city	City	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Almena township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Antwerp township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Arlington township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Bangor township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Bloomington township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Columbia township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Covert township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Decatur township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Geneva township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Hamilton township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Hartford township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Keeler township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Lawrence township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Paw Paw township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Pine Grove township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Porter township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
South Haven charter township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		
Waverly township	Township	Expired on 2021-03-01	Van Buren County (FEMA plan 102083)	2016-03-01	2021-03-01	-2,037		

SOURCE

FEMA, 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 (see note) <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 Low	Relatively Low	\$9,172,273	\$3,963	\$4,168	\$9,180,405	10		
2	Tornado	Relatively Moderate	Relatively Moderate	\$1,964,550	\$1,920	\$1,253,350	\$3,219,821	4		
3	Hail	Relatively High	Relatively High	\$2,980,812	\$40,364	\$6,755	\$3,027,930	40		
4	Strong Wind	Relatively High	Relatively High	\$1,363,716	\$52,444	\$863,586	\$2,279,745	143		Includes 14 High Wind records and 1 Strong Wind record, event types the NRI definition of this hazard leaves out.
5	Cold Wave	Relatively Low	Relatively Moderate	\$99	\$24,699	\$1,234,863	\$1,259,661	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
6	Ice Storm	Relatively High	Relatively High	\$47,674		\$489,286	\$536,960	3		
7	Earthquake	Very Low	Relatively Low	\$235,868		\$68,338	\$304,206			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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 (see note) <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
8	Heat Wave	Relatively Low	Relatively Low	\$3,341	\$2	\$263,700	\$267,043	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
9	Lightning	Relatively Low	Relatively Low	\$17,433		\$224,155	\$241,587	2		
10	Winter Weather	Relatively Low	Relatively Moderate	\$6,830	\$2,523	\$76,166	\$85,519	141		Includes 1 Sleet record, event types the NRI definition of this hazard leaves out.
11	Hurricane	Very Low	Very Low	\$8,863	\$3,724	\$6	\$12,593	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Wildfire	Very Low	Very Low	\$9,906	\$12	\$1,103	\$11,020	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	Very Low	Very Low	\$252		\$1,408	\$1,660	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	Coastal Flooding	Very Low	Very Low	\$1,087		\$167	\$1,255	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	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).
	Tsunami	Insufficient Data	Insufficient Data					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.
	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 22
Coastal 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.	5 of 22
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 22
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.	22 of 22
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22
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.	22 of 22
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22
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.	22 of 22
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.	22 of 22
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22
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.	22 of 22
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 22
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 22
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.	22 of 22
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	22 of 22

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)	69, 1970 to 2024	0.5 in to 3 in (median 1 in); 69 with a recorded value	3 in hail, 2006-08-24	Hail, 2010-04-05, \$50,000,000 property; crops not reported (2010 dollars)	Event records naming member places: Decatur township (6 records), Decatur village (6 records), Covert township (5 records), Paw Paw township (5 records), Paw Paw village (5 records), Bloomingdale township (3 records), Bloomingdale village (3 records), Gobles city (3 records), Hartford city (3 records), Hartford township (3 records); and 10 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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Ice Storm	Sperry-Piltz (local data)	3, 1997 to 2023 (3 zone- level)		Ice Storm, 2023-02-22, \$100,000 property; \$0 crops, reported for the zone (2023 dollars), 1 direct death (reported for the zone); NWS zone MIZ071 (VAN BUREN), 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.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	10, 1996 to 2013 (2 zone- level)		Flood, 2013-04-17, \$3,000,000 property; \$0 crops (2013 dollars)		Event records naming member places: South Haven charter township (2 records), South Haven city (2 records), Covert township (1 record), Lawton village (1 record). Zone-level records (2) 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)	2, 1997 to 2011		Lightning, 1997-09-19, \$200,000 property; crops not reported (1997 dollars)		Event records naming member places: South Haven charter township (1 record), South Haven city (1 record).	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)	15, 1997 to 2024 (15 zone- level)	42 kt (48 mph) to 67 kt (77 mph) (median 53 kt (61 mph)); 14 with a recorded value	67 kt (77 mph) measured gust, High Wind, 2013-11-17; NWS zone MIZ071 (VAN BUREN), 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)	184, 1958 to 2026	50 kt (58 mph) to 87 kt (100 mph) (median 52 kt (60 mph)); 120 with a recorded value	87 kt (100 mph) estimated gust, Thunderstorm Wind, 2020-06-26	Thunderstorm Wind, 2022-06-13, \$3,000,000 property; \$0 crops (2022 dollars)	Event records naming member places: Bangor city (18 records), Bangor township (18 records), Decatur township (15 records), Decatur village (15 records), Lawton village (15 records), Paw Paw township (14 records), Paw Paw village (14 records), Lawrence township (10 records), Lawrence village (10 records), South Haven charter township (10 records); and 11 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 2010	F/EF0 to F/EF3 (median F/EF2); 19 with a recorded value	F3 tornado, 1980-05-13, 21 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 300 yd wide, \$2,500,000 property; crops not recorded (1980 dollars), 15 direct injuries		Event records naming member places: Gobles city (1 record), Paw Paw township (1 record), Paw Paw village (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)	141, 1996 to 2026 (141 zone-level)		Winter Storm, 2016-02-24, \$25,000 property; \$0 crops, reported for the zone (2016 dollars); NWS zone MIZ071 (VAN BUREN), 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 rows13

Counted incidents9

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2020-03-27	2020-01-20	DR-4494-MI	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$5,100	new since last plan	
2020-03-13	2020-01-20	EM-3455-MI	Emergency	COVID-19	Non-natural, not counted	none found	new since last plan	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: designated for Hazard Mitigation only (no Public or Individual Assistance for this county); not counted	PA not declared for this county		
2001-01-10	2000-12-11	EM-3160-MI	Emergency	SNOW	Winter Weather	\$22,979.06		
1999-01-27	1999-01-02	EM-3137-MI	Emergency	MI - SEVERE WEATHER 1/2 / 99	Winter Weather	\$15,796.88		
1986-09-18	1986-09-10	DR-774-MI	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	PA not declared for this county		
1980-09-08	1980-09-08	DR-631-MI	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1980-05-16	1980-05-16	DR-621-MI	Major disaster	SEVERE STORMS & TORNADOES	Tornado	none found		
1978-01-27	1978-01-27	EM-3057-MI	Emergency	BLIZZARDS & SNOWSTORMS	Winter Weather	none found		
1977-02-05	1977-02-05	EM-3030-MI	Emergency	SNOWSTORMS	Winter Weather	none found		
1975-04-26	1975-04-26	DR-465-MI	Major disaster	SEVERE STORMS, HIGH WINDS & FLOODING	Inland Flooding (primary); also designated: Strong Wind	none found		
1973-04-12	1973-04-12	DR-371-MI	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	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	69	9	0	5	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	3	1	0	1	0	0	1996 to 2026-06-30	
Inland Flooding	10	0	0	0	4	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	2	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	199	45	1	30	1	0	1955 to 2026-06-30	Includes 14 High Wind records and 1 Strong Wind record, event types the NRI definition of this hazard leaves out.
Tornado	19	0	0	0	1	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
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	141	18	5	11	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
2023-02-22	Ice Storm		\$100,000 property; \$0 crops, reported for the zone (2023 dollars)	1, 0	NWS zone MIZ071 (VAN BUREN), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	deaths or injuries recorded
2020-06-26	Thunderstorm Wind	87 kt (100 mph) estimated gust	\$1,000,000 property; \$0 crops (2020 dollars)	0, 0	FOREST DUNES to PAW PAW	new since last plan	B1-c worst recorded: Thunderstorm Wind
2017-03-08	High Wind	61 kt (70 mph) estimated gust	\$10,000,000 property; \$0 crops, reported for the zone (2017 dollars)	0, 0	NWS zone MIZ071 (VAN BUREN), zone-level: may include parts of neighboring counties	new since last plan	B1-c most damaging: High Wind and Strong Wind (outside NRI Strong Wind definition)
2016-02-24	Winter Storm		\$25,000 property; \$0 crops, reported for the zone (2016 dollars)	0, 0	NWS zone MIZ071 (VAN BUREN), zone-level: may include parts of neighboring counties	during plan review, check whether your last plan included it	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2013-11-17	High Wind	67 kt (77 mph) measured gust	\$100,000 property; \$0 crops, reported for the zone (2013 dollars)	0, 0	NWS zone MIZ071 (VAN BUREN), 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	SOUTH HAVEN to COVERT		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2012-04-16	Strong Wind	48 kt (55 mph) estimated gust	\$10,000 property; \$0 crops, reported for the zone (2012 dollars)	1, 0	NWS zone MIZ071 (VAN BUREN), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2010-04-05	Hail	1.25 in	\$50,000,000 property; crops not reported (2010 dollars)	0, 0	LAWTON to MATTAWAN ARPK		B1-c most damaging: Hail

					Direct deaths, injuries		
Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	<i>indirect not counted</i>	Location	Flags	Why listed
2006-08-24	Hail	3 in	\$25,000 property; \$10,000 crops (2006 dollars)	0, 0	GRAND JCT		B1-c worst recorded: Hail
1997-09-19	Lightning		\$200,000 property; crops not reported (1997 dollars)	0, 0	SOUTH HAVEN		B1-c worst recorded: Lightning
1984-05-18	Thunderstorm Wind	speed not recorded	damage not recorded (pre-1996 record)	1, 2	location not recorded		deaths or injuries recorded
1980-05-13	Tornado	F3, 21 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 300 yd wide	\$2,500,000 property; crops not recorded (1980 dollars)	0, 15	location not recorded		B1-c worst recorded: Tornado

The full list is in the XLSX file, sheet "B1-d Storm Events history" (443 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

FEMA annualized frequency (modeled) <i>unit per row</i>		NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)				NRI period	Location	Note
Hazard	Unit	In plain terms	Descriptor	Descriptor basis				
Avalanche	events per year					1994 to 2023 (30 years)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Coastal Flooding	0.0131 events per year at a location (modeled)	about 0.013 per year at a given location in the county		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No 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)

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	1.26	event-days per year	about 1.26 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	24	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	0.000993	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0993%			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	1.86	events per year	about 1.86 per year	Highly likely	FEMA annualized frequency (modeled)	71.0 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	2.68	event-days per year	about 2.68 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	39	2005-11-12 to 2024-11-12 (19 years)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Hurricane	0.00699	events per year	about 1 in 143 years	Unlikely	FEMA annualized frequency (modeled)	2	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.
Ice Storm	0.963	event-days per year	about 0.963 days per year	Likely	event-days in 3 of 30 years, 1996 to 2025 (10%)	38	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.357	event-days per year	about 0.357 days per year	Likely	event-days in 7 of 30 years, 1996 to 2025 (23.3%)	10	1996 to 2023 (28 years)	see B1-f	
Landslide	0.141	events per year (modeled)	about 1 in 7 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	35.9	days per year with a strike	about 35.9 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	3.66	events per year	about 3.66 per year	Highly likely	FEMA annualized frequency (modeled)	81	1986 to 2023 (38 years)	countywide	
Tornado	0.399	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	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>		NRI events or days in its record period (hail, wind and tornado are area- weighted, so can be fractional)			NRI period	Location	Note
	Unit	In plain terms	Descriptor	Descriptor basis				
Tsunami		annual probability at the most exposed location (used in place of a county value)		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No 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)
Volcanic Activity		annual probability			not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.0000137	annual probability at a location	chance a given location in the county burns in a year: 0.00137%	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	28.9	event-days per year	about 28.9 days per year	Highly likely	event-days in 28 of 30 years, 1996 to 2025 (93.3%)	550	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

Unit	Descriptor	Definition
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	20	30	0.667
Hail	2.00 in+	1996 to 2025	3	30	0.1
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	97	30	3.23
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	6	30	0.2
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	19	30	0.633
Tornado	EF0-1	1996 to 2025	4	30	0.133
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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 22				Not Applicable 22	
Coastal Flooding	5 of 22	68.2	74.9	77.1	Relatively Low 1, Very Low 4, No Rating 17	
Cold Wave	22 of 22	34.7	55.0	67.0	Relatively Moderate 16, Relatively Low 6	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.

Hazard	Tracts rated of all	Risk score min NRI score, 0 to 100	Median	Max	Tracts by rating	Note
Drought	0 of 22				No Rating 22	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	22 of 22	14.5	31.2	57.0	Relatively Low 5, Very Low 17	
Hail	22 of 22	81.8	93.9	97.5	Relatively High 19, Relatively Moderate 3	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	22 of 22	6.4	18.4	29.9	Relatively Low 12, Very Low 10	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	22 of 22	22.4	29.5	36.8	Very Low 22	
Ice Storm	22 of 22	68.5	88.0	93.0	Relatively High 4, Relatively Moderate 17, Relatively 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.
Inland Flooding	22 of 22	6.5	35.1	66.3	Relatively Moderate 4, Relatively Low 15, Very Low 3	
Landslide	22 of 22	49.9	75.7	89.9	Relatively Low 5, Very Low 17	
Lightning	22 of 22	26.8	50.9	65.4	Relatively Moderate 11, 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.
Strong Wind	22 of 22	72.8	92.0	96.8	Very High 1, Relatively High 19, Relatively Moderate 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.
Tornado	22 of 22	47.2	68.4	81.9	Relatively High 6, Relatively Moderate 15, Relatively Low 1	
Tsunami	0 of 22				Insufficient Data 22	
Volcanic Activity	0 of 22				Not Applicable 22	
Wildfire	22 of 22	47.3	60.0	70.4	Relatively Low 1, Very Low 21	
Winter Weather	22 of 22	40.8	61.2	73.2	Relatively Moderate 21, Relatively 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.

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
Van Buren County	County	Expired on 2021-03-01		\$6,461.25	0; 0	No NFIP community ID on this member's plan row. Includes \$5,100 for declarations not counted as hazard incidents (DR-4494-MI).

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
Bangor city	City	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	\$5,563.51	19; 4	
Bloomington village	Village	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	\$5,433.91	8; 0	
Breedsville village	Village	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	\$989.06	4; 2	
Decatur village	Village	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	\$6,081.10	21; 10	
Gobles city	City	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	\$2,533.50	7; 0	
Hartford city	City	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	6; 1	
Lawrence village	Village	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	11; 1	
Lawton village	Village	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	\$3,392.09	19; 7	
Mattawan village	Village	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	3; 0	
Paw Paw village	Village	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	20; 3	
South Haven city	City	Expired on 2021-03-01	FMA RL 0, SRL 0; any 2	none found	15; 4	
Almena township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	0; 0	
Antwerp township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	0; 0	
Arlington township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	0; 0	
Bangor township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	19; 4	
Bloomington township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	8; 0	
Columbia township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	0; 0	
Covert township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 1	none found	10; 0	
Decatur township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 1	none found	21; 10	

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
Geneva township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	0; 0	
Hamilton township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	0; 0	
Hartford township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	6; 1	
Keeler township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	8; 2	
Lawrence township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	11; 1	
Paw Paw township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	20; 3	
Pine Grove township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	1; 0	
Porter township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	0; 0	
South Haven charter township	Township	Expired on 2021-03-01	FMA RL 0, SRL 0; any 0	none found	15; 4	
Waverly township	Township	Expired on 2021-03-01	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 2016-03-01 <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	\$439,114,890		728	\$1,087		\$167	0.000248%				
Cold Wave	\$16,093,650,972	\$264,638,959	75,550	\$99	\$24,699	\$1,234,863	under 0.0001%				
Drought		\$0			\$0						agriculture exposure is 0 in NRI
Earthquake	\$28,077,882,096		75,587	\$235,868		\$68,338	0.00084%				
Hail	\$16,093,650,972	\$264,638,959	75,550	\$2,980,812	\$40,364	\$6,755	0.0185%	\$40,000			
Heat Wave	\$16,093,650,972	\$264,638,959	75,550	\$3,341	\$2	\$263,700	under 0.0001%				
Hurricane	\$16,032,446,726	\$262,048,775	75,272	\$8,863	\$3,724	\$6	under 0.0001%				
Ice Storm	\$16,093,650,972		75,550	\$47,674		\$489,286	0.000296%		\$100,000		
Inland Flooding	\$16,067,664,724	\$617,967	711	\$9,172,273	\$3,963	\$4,168	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	\$163,765,627		662	\$252		\$1,408	0.000154%				
Lightning	\$16,093,650,972		75,550	\$17,433		\$224,155	0.000108%				
Strong Wind	\$16,093,650,972	\$264,638,959	75,550	\$1,363,716	\$52,444	\$863,586	0.00847%	\$4,786,000	\$13,010,000		Storm Events damage since the plan includes 3 zone-level High Wind records (\$13,010,000), an event type the NRI definition of this hazard leaves out.
Tornado	\$16,093,650,972	\$264,638,959	75,550	\$1,964,550	\$1,920	\$1,253,350	0.0122%				
Tsunami											NRI publishes no building exposure for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$7,994,933,762	\$113,538,591	42,236	\$9,906	\$12	\$1,103	0.000124%				
Winter Weather	\$16,093,650,972	\$264,638,959	75,550	\$6,830	\$2,523	\$76,166	under 0.0001%		\$0		

Totals since 2016-03-01 (Storm Events through 2026-06-30): 50 county-coded records, 32 with a damage value recorded (including \$0), \$4,826,000; 23 zone-level records, 18 with a damage value recorded (including \$0), \$13,110,000 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	75,550
Building value (total, not at risk)	\$16,093,650,972
Agriculture value (total, not at risk)	\$264,638,959
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$15,942,354
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)	\$4,487,050
Social vulnerability rating	Relatively Moderate
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	2
SOUTH HAVEN, CITY OF	0	0	2	0	2	0	1
COVERT, TOWNSHIP OF	0	0	1	0	1	0	0
DECATUR, 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
Bangor city	260529	0	0	0	0	0	0	0	
Bloomington village	261150	0	0	0	0	0	0	0	
Breedsville village	260530	0	0	0	0	0	0	0	
Decatur village	261153	0	0	0	0	0	0	0	
Gobles city	261143	0	0	0	0	0	0	0	
Hartford city	260532	0	0	0	0	0	0	0	
Lawrence village	261152	0	0	0	0	0	0	0	
Lawton village	260533	0	0	0	0	0	0	0	
Mattawan village	261151	0	0	0	0	0	0	0	
Paw Paw village	260598	0	0	0	0	0	0	0	
South Haven city	260211	0	0	2	0	2	0	1	
South Haven city	261523	0	0	0	0	0	0	0	
Almena township	260528	0	0	0	0	0	0	0	
Antwerp township	261139	0	0	0	0	0	0	0	
Arlington township	260705	0	0	0	0	0	0	0	
Bangor township	260210	0	0	0	0	0	0	0	
Bloomington township	261140	0	0	0	0	0	0	0	
Columbia township	260531	0	0	0	0	0	0	0	
Covert township	260259	0	0	1	0	1	0	0	
Decatur township	261141	0	0	1	0	1	0	1	
Geneva township	261142	0	0	0	0	0	0	0	
Hamilton township	261144	0	0	0	0	0	0	0	
Hartford township	261145	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
Keeler township	261146	0	0	0	0	0	0	0	
Lawrence township	261147	0	0	0	0	0	0	0	
Paw Paw township	261149	0	0	0	0	0	0	0	
Pine Grove township	260534	0	0	0	0	0	0	0	
Porter township	261148	0	0	0	0	0	0	0	
South Haven charter township	260212	0	0	0	0	0	0	0	
Waverly township	260678	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	3	0	3	0	1
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	1	0	1	0	1
non-residential	0	0	0	0	0	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_scscd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scscd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx
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Cite this: Hazard Plain (2026). Van Buren County, MI: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 26159). 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_26159. Preview: automated baseline.