

Wayne County, MI

Risk-assessment baseline packet

Unit **County area 26163** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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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

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Plan clock

Status	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Plan	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here
Approved	2026-05-04 by FEMA; not yet adopted here	Expires	2031-05-03 once adopted
As of	2026-09-28	Update underway	FEMA tracker shows a plan approvable pending adoption

Not yet eligible: adopt the approved plan.

Not yet eligible: adopt the approved plan.

What changed since your last plan

Not available. Plan 111635 was approved by FEMA on 2026-05-04 but is not yet adopted here, so no since-plan counts are given.

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: 44 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, page 1
3. Supports B1-a: hazards, page 5
4. Supports B1-b: location, page 7
5. Supports B1-c: extent, page 8
6. Supports B1-d: previous occurrences, page 12
7. Supports B1-e: probability, page 16
8. Supports B1-f: variation across the planning area, page 19
9. Supports B2-a and B2-b: assets and impacts, page 24
10. Supports B2-a: context, page 26
11. Supports B2-c: repetitive loss, page 26
12. Sources and OpenFEMA disclaimer, page 29

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
Wayne County	County	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Allen Park city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Belleville city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		
Dearborn city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		
Dearborn Heights city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Detroit city	City	Approved, expires 2027-03-16	City of Detroit (FEMA plan 106309)	2022-03-17	2027-03-16	169		
Ecorse city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		member approved 2026-06-03
Flat Rock city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		
Garden City city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Gibraltar city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Grosse Pointe city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		member approved 2026-06-03

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Grosse Pointe Farms city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		member approved 2026-05-15
Grosse Pointe Park city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Grosse Pointe Woods city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		member approved 2026-05-11
Hamtramck city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Harper Woods city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Highland Park city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Inkster city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		member approved 2026-06-24
Lincoln Park city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		
Livonia city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		member approved 2026-06-03
Melvindale city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		member approved 2026-06-03
Northville city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		Also approved under plan 109566 (Oakland County HMP Update, expires 2029-02-26). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last. member approved 2026-06-10

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Plymouth city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
River Rouge city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Riverview city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		
Rockwood city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		member approved 2026-07-22
Romulus city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Southgate city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		
Taylor city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Trenton city	City	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		
Village of Grosse Pointe Shores city	Village	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Wayne city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Westland city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Woodhaven city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Wyandotte city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Brownstown charter township	Township	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		member approved 2026-06-03
Canton charter township	Township	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		
Grosse Ile township	Township	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Huron charter township	Township	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Northville township	Township	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		member approved 2026-05-11
Plymouth charter township	Township	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Redford charter township	Township	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sumpter township	Township	Approved, expires 2031-05-03	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635)	2026-05-04	2031-05-03	1,678		member approved 2026-05-11
Van Buren charter township	Township	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	Wayne County 2026 Hazard Mitigation Plan (FEMA plan 111635), pending adoption here	2026-05-04 by FEMA; not yet adopted here	2031-05-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

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 (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	Very High	Relatively High	\$236,707,312	\$112,753	\$480,043	\$237,300,108	114		
2	Cold Wave	Very High	Very High	\$1,805	\$11,468	\$59,783,807	\$59,797,080	21		Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
3	Tornado	Very High	Very High	\$20,712,867	\$221	\$23,057,966	\$43,771,053	14		
4	Heat Wave	Relatively High	Relatively High	\$762	under \$1	\$31,796,076	\$31,796,838	17		
5	Strong Wind	Very High	Very High	\$6,682,699	\$9,052	\$6,037,174	\$12,728,926	495		Includes 41 High Wind records and 5 Strong Wind records, event types the NRI definition of this hazard leaves out.
6	Earthquake	Relatively Moderate	Relatively Moderate	\$7,006,777		\$2,932,699	\$9,939,476			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
7	Ice Storm	Very High	Very High	\$2,111,850		\$677,644	\$2,789,494	5		
8	Lightning	Very High	Relatively High	\$139,040		\$2,348,571	\$2,487,611	21		
9	Winter Weather	Relatively High	Relatively High	\$457,155	\$100	\$33,291	\$490,547	57		
10	Hail	Relatively Low	Relatively Low	\$105,247	\$5,804	\$62,478	\$173,530	175		
11	Hurricane	Very Low	Very Low	\$117,136	\$1,320	\$1,433	\$119,889	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Coastal Flooding	Relatively Low	Relatively Low	\$79,985		\$10,319	\$90,305	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Wildfire	Very Low	Very Low	\$42,111	\$4	\$4,049	\$46,163	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	Landslide	Very Low	Very Low	\$1,464		\$357	\$1,821	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.

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
15	Drought	No Rating	No Expected Annual Losses		\$0		\$0	2		
	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 625
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.	41 of 625
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	625 of 625
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 625
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.	625 of 625
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	625 of 625
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	625 of 625
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.	625 of 625
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	625 of 625

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
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.	625 of 625
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.	508 of 625
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	625 of 625
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	625 of 625
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.	625 of 625
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 625
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 625
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.	419 of 625
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	625 of 625

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.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	20, 1996 to 2019 (20 zone-level)	1 day to 21 days (median 2 days); 18 with a recorded value	21 days, 2003-01-10 to 2003-01-30, from 3 records, 1 of them a monthly summary (a monthly summary record covers most or all of a month; it does not count days at wave conditions), 2 direct deaths, zone-level	Cold/Wind Chill, 1999-01-11, \$250,000 property; crops not reported, reported for the zone (1999 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	1, 2007 to 2007 (1 zone-level)		No crop damage reported in 1 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Temperature: 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
Drought	US Drought Monitor D-scale	2, 2001 to 2002 (2 zone-level)	1 day to 30 days (median 15.5 days); 2 with a recorded value	30 days (1 month), 2002-09-01 to 2002-09-30, zone-level	Drought, 2001-07-01, property not reported; \$150,000,000 crops, reported for the zone (2001 dollars) (as recorded; larger than this county's annual agriculture value in the National Risk Index; confirm with the county or the state extension service)	Zone-level records: applies countywide; national data do not locate these events within the county.	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)	223, 1955 to 2026	0.75 in to 4 in (median 0.88 in); 223 with a recorded value	4 in hail, 1955-11-13	Hail, 2010-06-04, \$5,000 property; \$0 crops (2010 dollars)	Event records naming member places: Detroit city (20 records), Wyandotte city (11 records), Westland city (9 records), Dearborn city (8 records), Northville city (8 records), Northville township (8 records), Woodhaven city (8 records), Plymouth charter township (7 records), Plymouth city (7 records), Riverview city (7 records); and 24 more member places (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	17, 1999 to 2026 (17 zone-level)	1 day to 7 days (median 4 days); 13 with a recorded value	7 consecutive days, 2012-07-01 to 2012-07-07, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required. Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's 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)	5, 1997 to 2023 (5 zone- level)		Ice Storm, 2023-02-22, \$16,000,000 property; \$0 crops, reported for the zone (2023 dollars); NWS zone MIZ076 (WAYNE), 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)	114, 1996 to 2025 (55 zone- level)		Flash Flood, 2014-08-11, \$1,100,000,000 property; \$0 crops (2014 dollars)		Event records naming member places: Northville city (12 records), Northville township (12 records), Detroit city (6 records), Livonia city (5 records), Redford charter township (5 records), Highland Park city (4 records), Allen Park city (2 records), Belleville city (2 records), Inkster city (2 records), Southgate city (2 records); and 7 more member places (see the XLSX file). Zone-level records (55) 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)	21, 1997 to 2015		Lightning, 2007-06-27, \$0 property; \$0 crops (2007 dollars), 1 direct death	Lightning, 2015-08-03, \$300,000 property; \$0 crops (2015 dollars)	Event records naming member places: Allen Park city (2 records), Detroit city (2 records), Westland city (2 records), Belleville city (1 record), Dearborn Heights city (1 record), Dearborn city (1 record), Gibraltar city (1 record), Highland Park city (1 record), Lincoln Park city (1 record), Livonia city (1 record); and 4 more member places (see the XLSX file).	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)	46, 1996 to 2026 (46 zone- level)	39 kt (45 mph) to 70 kt (81 mph) (median 52 kt (60 mph)); 46 with a recorded value	70 kt (81 mph), measurement type not recorded, High Wind, 1997-04-06, 1 direct injury (reported for the zone); NWS zone MIZ076 (WAYNE), zone-level: may include parts of neighboring counties	High Wind, 2017-03-08, \$25,000,000 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)	583, 1955 to 2026	43 kt (49 mph) to 90 kt (104 mph) (median 52 kt (60 mph)); 519 with a recorded value	90 kt (104 mph), measurement type not recorded, Thunderstorm Wind, 1960-07-22	Thunderstorm Wind, 1998-07-21, \$18,000,000 property; crops not reported (1998 dollars)	Event records naming member places: Detroit city (28 records), Dearborn city (21 records), Romulus city (21 records), Wyandotte city (21 records), Livonia city (18 records), Garden City city (15 records), Plymouth charter township (15 records), Plymouth city (15 records), Allen Park city (14 records), Redford charter township (13 records); and 21 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)	42, 1953 to 2026	F/EF0 to F/EF4 (median F/EF1); 42 with a recorded value	F4 tornado, 1956-05-12, 6.8 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 400 yd wide, \$250,000 property; crops not recorded (1956 dollars), 22 direct injuries	Tornado, 1997-07-02, \$90,000,000 property; crops not reported (1997 dollars)	Event records naming member places: Gibraltar city (3 records), Belleville city (2 records), Plymouth charter township (2 records), Plymouth city (2 records), Rockwood city (2 records), Detroit city (1 record), Hamtramck city (1 record), Highland Park city (1 record), Melvindale city (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)	57, 1996 to 2025 (57 zone- level)		Winter Storm, 2018-04-14, \$5,000,000 property; \$0 crops, reported for the zone (2018 dollars); NWS zone MIZ076 (WAYNE), 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

17

Counted incidents

13

Plan 111635 was approved by FEMA on 2026-05-04 but is not yet adopted here, so no since-plan counts are given.

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
2024-02-08	2023-08-24	DR-4757-MI	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding (primary); also designated: Tornado	PA not declared for this county	within last 5 years	
2021-07-15	2021-06-25	DR-4607-MI	Major disaster	SEVERE STORMS, FLOODING, AND TORNADOES	Inland Flooding; Tornado	\$26,522,723.33		
2020-03-27	2020-01-20	DR-4494-MI	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$359,970,686.03		
2020-03-13	2020-01-20	EM-3455-MI	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4494
2014-09-25	2014-08-11	DR-4195-MI	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	\$7,422,454.79		
2005-09-07	2005-08-29	EM-3225-MI	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	\$271,421.32		
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		
2003-09-23	2003-08-14	EM-3189-MI	Emergency	POWER OUTAGE	Non-natural, not counted	\$2,209,004.98		
2000-10-17	2000-09-10	DR-1346-MI	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	PA not declared for this county		
1999-01-27	1999-01-02	EM-3137-MI	Emergency	MI - SEVERE WEATHER 1/2 /99	Winter Weather	\$2,166,824.57		
1998-08-05	1998-07-21	DR-1237-MI	Major disaster	SEVERE STORMS AND HIGH WINDS	Strong Wind	none found		
1997-07-11	1997-07-02	DR-1181-MI	Major disaster	SEVERE STORMS, TORNADOES, AND FLOODING	Inland Flooding; Tornado	none found		
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		
1973-04-12	1973-04-12	DR-371-MI	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1972-12-01	1972-12-01	DR-363-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)

Public Assistance filed under this county for declarations that do not list it: 1 row, \$15,866.27

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
EM-3160-MI	2001-01-10	SNOW	Northville, City of (Oakland County)	\$15,866.27

FEMA's Public Assistance summaries file these applicants under this county, but FEMA's declaration rows for these disasters do not designate it (an electric cooperative or district serving several counties, for example). Not in any declaration row above and not counted.

SOURCES

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
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		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	21			0	0		1996 to 2026-06-30	Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
Drought	2			0	0		1996 to 2026-06-30	
Earthquake	0			0	0			No Storm Events record; local data required (e.g., USGS).
Hail	223			12	0		1955 to 2026-06-30	
Heat Wave	17			1	0		1996 to 2026-06-30	

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
Hurricane	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	5			1	0		1996 to 2026-06-30	
Inland Flooding	114			6	10		1996 to 2026-06-30	
Landslide	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	21			0	0		1996 to 2026-06-30	
Strong Wind	629			84	1		1955 to 2026-06-30	Includes 41 High Wind records and 5 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	42			7	5		1950 to 2026-06-30	
Tsunami	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		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	57			4	2		1996 to 2026-06-30	

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		\$16,000,000 property; \$0 crops, reported for the zone (2023 dollars)	0, 0	NWS zone MIZ076 (WAYNE), zone-level: may include parts of neighboring counties	within last 5 years	B1-c worst recorded: Ice Storm
2019-01-29	Cold/Wind Chill		\$0 property; \$0 crops, reported for the zone (2019 dollars)	2, 0	NWS zone MIZ076 (WAYNE), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2018-04-14	Winter Storm		\$5,000,000 property; \$0 crops, reported for the zone (2018 dollars)	0, 0	NWS zone MIZ076 (WAYNE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2014-08-11	Flash Flood		\$1,100,000,000 property; \$0 crops (2014 dollars)	0, 0	EAST ROCKWOOD to GROSSE PT SHRS		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2012-07-01	Heat		\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 25	NWS zone MIZ076 (WAYNE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2007-06-27	Lightning		\$0 property; \$0 crops (2007 dollars)	1, 0	DETROIT		B1-c worst recorded: Lightning
2003-01-10	Cold/Wind Chill		damage not reported	0, 0	NWS zone MIZ076 (WAYNE), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1998-07-21	Thunderstorm Wind	55 kt (63 mph), measurement type not recorded	\$825,000 property; crops not reported (1998 dollars)	2, 2	FLAT ROCK to GROSSE ILE NAS		deaths or injuries recorded
1997-07-02	Thunderstorm Wind	80 kt (92 mph), measurement type not recorded	\$10,000,000 property; crops not reported (1997 dollars)	5, 8	GROSSE PT FARMS		deaths or injuries recorded
1997-04-06	High Wind	70 kt (81 mph), measurement type not recorded	\$150,000 property; crops not reported, reported for the zone (1997 dollars)	0, 1	NWS zone MIZ076 (WAYNE), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
1960-07-22	Thunderstorm Wind	90 kt (104 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind
1956-05-12	Tornado	F4, 6.8 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 400 yd wide	\$250,000 property; crops not recorded (1956 dollars)	0, 22	location not recorded		B1-c worst recorded: Tornado

The full list is in the **XLSX** file, sheet "**B1-d Storm Events history**" (1,131 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	0.0146	events per year at a location (modeled)	about 0.015 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)
Cold Wave	2.68	event-days per year	about 2.68 days per year	Likely	event-days in 14 of 30 years, 1996 to 2025 (46.7%)	51	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 2.68 cold wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 14 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. Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	0	event-days per year	none modeled	Possible	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	0	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	NRI models no drought event-days here (2000 to 2025, 25.25 years; D3 and D4 only), but Storm Events has a record in 2 of 30 years. The descriptor comes from Storm Events, which records events NRI's definition leaves out, so the two use different thresholds; read them together.
Earthquake	0.000952	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.0952%			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	2.85	events per year	about 2.85 per year	Highly likely	FEMA annualized frequency (modeled)	110.6 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	4.32	event-days per year	about 4.32 days per year	Likely	event-days in 10 of 30 years, 1996 to 2025 (33.3%)	68	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 4.32 heat wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 10 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.

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
Hurricane	0.0109	events per year	about 1 in 91 years	Possible	FEMA annualized frequency (modeled)	4	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.
Ice Storm	1.88	event-days per year	about 1.88 days per year	Likely	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	120	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 1.88 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 5 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	3.14	event-days per year	about 3.14 days per year	Likely	event-days in 25 of 30 years, 1996 to 2025 (83.3%)	88	1996 to 2023 (28 years)	see B1-f	
Landslide	0.105	events per year (modeled)	about 1 in 10 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	36.6	days per year with a strike	about 36.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	5.1	events per year	about 5.1 per year	Highly likely	FEMA annualized frequency (modeled)	184	1986 to 2023 (38 years)	countywide	
Tornado	0.277	events per year	about 1 in 4 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)			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	0.0000194	annual probability at a location	chance a given location in the county burns in a year: 0.00194%		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
Winter Weather	10.2	event-days per year	about 10.2 days per year	Likely	event-days in 26 of 30 years, 1996 to 2025 (86.7%)	194	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	70	30	2.33
Hail	2.00 in+	1996 to 2025	3	30	0.1
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	424	30	14.1
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	13	30	0.433
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	3	30	0.1
Tornado	EF0-1	1996 to 2025	10	30	0.333
Tornado	EF2-3	1996 to 2025	2	30	0.0667
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 625				Not Applicable 625	
Coastal Flooding	41 of 625	69.6	75.7	90.6	Relatively Moderate 1, Relatively Low 14, Very Low 26, No Rating 584	
Cold Wave	625 of 625	15.4	68.5	92.0	Relatively High 115, Relatively Moderate 444, Relatively Low 23, Very Low 43	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 625				No Rating 625	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	625 of 625	0.3	36.0	77.7	Relatively Low 201, Very Low 424	
Hail	625 of 625	0.2	7.6	24.9	Very Low 625	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 <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Heat Wave	625 of 625	1.3	62.3	90.7	Relatively High 22, Relatively Moderate 382, Relatively Low 174, Very Low 47	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	625 of 625	9.4	23.3	36.3	Very Low 625	
Ice Storm	625 of 625	0.1	48.2	87.7	Relatively Moderate 31, Relatively Low 513, Very Low 81	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	625 of 625	0.1	27.3	98.1	Very High 3, Relatively High 16, Relatively Moderate 101, Relatively Low 342, Very Low 163	
Landslide	508 of 625	8.6	33.2	82.8	Relatively Low 1, Very Low 507, No Rating 117	
Lightning	625 of 625	0.1	25.2	57.7	Relatively Moderate 9, Relatively Low 416, Very Low 200	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	625 of 625	0.3	57.0	89.8	Relatively High 10, Relatively Moderate 343, Relatively Low 244, Very Low 28	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	625 of 625	0.5	53.2	85.9	Relatively High 9, Relatively Moderate 297, Relatively Low 287, Very Low 32	
Tsunami	0 of 625				Insufficient Data 625	
Volcanic Activity	0 of 625				Not Applicable 625	
Wildfire	419 of 625	18.5	31.2	75.2	Relatively Low 5, Very Low 414, No Rating 206	
Winter Weather	625 of 625	10.7	28.5	65.8	Relatively Moderate 15, Relatively Low 590, Very Low 20	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
Wayne County	County	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible		none found	0; no approved plan	No NFIP community ID on this member's plan row.

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
Allen Park city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 8	\$245,992.08	19; no approved plan	Includes \$79,432.98 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Belleville city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	\$3,986.42	21; 0	
Dearborn city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 1; any 1	\$5,502,973.01	31; 1	Includes \$1,491,878.23 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Dearborn Heights city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 2, SRL 1; any 58	\$1,848,240.99	14; no approved plan	Includes \$994,151.96 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Detroit city	City	Approved, expires 2027-03-16	FMA RL 0, SRL 0; any 68	\$55,435,222.55	57; 3	Includes \$46,189,720.30 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI, EM-3225-MI).
Ecorse city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 7	\$95,234.24	6; 0	Includes \$40,001.76 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Flat Rock city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	none found	10; 0	
Garden City city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$466,207.73	18; no approved plan	Includes \$27,822.17 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Gibraltar city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 1, SRL 2; any 5	\$7,353.55	5; no approved plan	Includes \$2,670.80 for declarations not counted as hazard incidents (EM-3189-MI).
Grosse Pointe city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	none found	2; 0	
Grosse Pointe Farms city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	none found	0; 0	
Grosse Pointe Park city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$1,055,142.78	0; no approved plan	
Grosse Pointe Woods city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	\$122,741.48	0; 0	Includes \$3,634.33 for declarations not counted as hazard incidents (EM-3189-MI).
Hamtramck city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$235,856.37	11; no approved plan	Includes \$13,993.63 for declarations not counted as hazard incidents (EM-3189-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
Harper Woods city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$104,327.74	9; no approved plan	
Highland Park city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$182,632.42	19; no approved plan	Includes \$26,965.84 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Inkster city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	\$282,265.80	17; 1	Includes \$11,330.31 for declarations not counted as hazard incidents (EM-3189-MI).
Lincoln Park city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 8	\$98,876.62	14; 0	Includes \$8,639.92 for declarations not counted as hazard incidents (EM-3189-MI).
Livonia city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	\$219,557.57	27; 1	Includes \$150,037.82 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Melvindale city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	\$30,714.68	3; 0	Includes \$18,603.74 for declarations not counted as hazard incidents (EM-3189-MI).
Northville city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	\$37,389.50	33; 0	Also approved under plan 109566 (Oakland County HMP Update, expires 2029-02-26). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last. Includes \$5,454.55 for declarations not counted as hazard incidents (EM-3189-MI).
Plymouth city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 1	\$58,393.60	24; no approved plan	Includes \$45,608.88 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
River Rouge city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$50,376.04	4; no approved plan	Includes \$15,770.12 for declarations not counted as hazard incidents (EM-3189-MI).
Riverview city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	\$130,584.58	19; 0	Includes \$92,519.23 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Rockwood city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	none found	4; 1	
Romulus city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 1	\$40,217.51	29; no approved plan	Includes \$12,131.63 for declarations not counted as hazard incidents (EM-3189-MI).
Southgate city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	\$220,061.25	8; 0	Includes \$47,322.84 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-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
Taylor city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 3	\$406,437.55	13; no approved plan	Includes \$199,083.89 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Trenton city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 2	\$21,894.91	4; 0	Includes \$10,092.01 for declarations not counted as hazard incidents (EM-3189-MI).
Village of Grosse Pointe Shores city	Village	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	0; no approved plan	
Wayne city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	8; no approved plan	
Westland city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 1	none found	22; no approved plan	
Woodhaven city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$66,975.41	13; no approved plan	Includes \$51,765.96 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Wyandotte city	City	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 1; any 2	\$208,272.77	32; no approved plan	Includes \$95,047.67 for declarations not counted as hazard incidents (EM-3189-MI).
Brownstown charter township	Township	Approved, expires 2031-05-03	FMA RL 0, SRL 1; any 5	\$21,530.65	0; 0	Includes \$12,341.01 for declarations not counted as hazard incidents (EM-3189-MI).
Canton charter township	Township	Approved, expires 2031-05-03	FMA RL 1, SRL 0; any 1	\$35,492.93	0; 0	Includes \$21,117.25 for declarations not counted as hazard incidents (EM-3189-MI).
Grosse Ile township	Township	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 4	\$6,034.50	0; no approved plan	Includes \$0 for declarations not counted as hazard incidents (DR-4494-MI).
Huron charter township	Township	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	0; no approved plan	
Northville township	Township	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	\$25,326.54	33; 0	Includes \$25,326.54 for declarations not counted as hazard incidents (DR-4494-MI).

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>	
Plymouth charter township	Township	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 2	\$49,362.52	24; no approved plan	Includes \$29,878.87 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Redford charter township	Township	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 7	\$79,811.49	24; no approved plan	Includes \$2,884.58 for declarations not counted as hazard incidents (EM-3189-MI).
Sumpter township	Township	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	\$33,554.18	9; 0	Includes \$33,554.18 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).
Van Buren charter township	Township	Plan 111635 approved 2026-05-04, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$51,955.52	0; no approved plan	Includes \$51,955.52 for declarations not counted as hazard incidents (DR-4494-MI, EM-3189-MI).

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.

Plan 111635 was approved by FEMA on 2026-05-04 but is not yet adopted here, so no since-plan counts are given.

- 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 plan <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	\$14,364,530,375		66,947	\$79,985		\$10,319	0.000557%				
Cold Wave	\$356,401,791,919	\$29,782,147	1,792,549	\$1,805	\$11,468	\$59,783,807	under 0.0001%				
Drought		\$0			\$0						agriculture exposure is 0 in NRI
Earthquake	\$625,001,264,039		1,793,561	\$7,006,777		\$2,932,699	0.00112%				
Hail	\$356,401,791,919	\$29,782,147	1,792,549	\$105,247	\$5,804	\$62,478	under 0.0001%				
Heat Wave	\$356,401,791,919	\$29,782,147	1,792,549	\$762	under \$1	\$31,796,076	under 0.0001%				
Hurricane	\$356,105,974,230	\$29,782,147	1,790,131	\$117,136	\$1,320	\$1,433	under 0.0001%				
Ice Storm	\$356,385,909,406		1,792,483	\$2,111,850		\$677,644	0.000593%				
Inland Flooding	\$356,251,301,865	\$3,090,708	40,235	\$236,707,312	\$112,753	\$480,043	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	\$920,218,989		2,955	\$1,464		\$357	0.000159%				
Lightning	\$356,401,791,919		1,792,549	\$139,040		\$2,348,571	under 0.0001%				
Strong Wind	\$356,401,791,919	\$29,782,147	1,792,549	\$6,682,699	\$9,052	\$6,037,174	0.00188%				
Tornado	\$356,401,791,919	\$29,782,147	1,792,549	\$20,712,867	\$221	\$23,057,966	0.00581%				
Tsunami											NRI publishes no building exposure for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$33,872,892,936	\$14,503,614	158,369	\$42,111	\$4	\$4,049	0.000124%				
Winter Weather	\$356,401,791,919	\$29,782,147	1,792,549	\$457,155	\$100	\$33,291	0.000128%				

Totals since the plan: not available. Plan 111635 was approved by FEMA on 2026-05-04 but is not yet adopted here, so no since-plan counts are given.

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	1,792,549
Building value (total, not at risk)	\$356,401,791,919
Agriculture value (total, not at risk)	\$29,782,147
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$274,306,935
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)	\$127,225,906
Social vulnerability rating	Relatively High
Community resilience rating	Relatively Moderate
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)	4	Severe repetitive loss, FMA definition (44 CFR 77.2)	6
Repetitive loss, NFIP insurance definition	183	Severe repetitive loss, NFIP insurance definition	5

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	4	6	183	5	184	1	101
ALLEN PARK, CITY OF	0	0	8	0	8	0	2
BROWNSTOWN, CHARTER TOWNSHIP OF	0	1	5	1	5	0	0
CANTON, TOWNSHIP OF	1	0	1	0	1	0	1
DEARBORN, CITY OF	0	1	1	1	1	0	1
DEARBORN HEIGHTS, CITY OF	2	1	58	1	58	0	31
DETROIT, CITY OF	0	0	68	0	68	0	44
ECORSE, CITY OF	0	0	7	0	7	0	2
GIBRALTAR, CITY OF	1	2	5	2	5	0	2
GROSSE ILE, TOWNSHIP OF	0	0	4	0	4	0	1
LINCOLN PARK, CITY OF	0	0	8	0	8	0	5
PLYMOUTH, CITY OF	0	0	1	0	1	0	1
PLYMOUTH, CHARTER TOWNSHIP OF	0	0	2	0	2	0	1
REDFORD, TOWNSHIP OF	0	0	7	0	7	0	6
TRENTON, CITY OF	0	0	2	0	2	0	0
WYANDOTTE, CITY OF	0	1	1	0	2	1	0
ROMULUS, CITY OF	0	0	1	0	1	0	1
TAYLOR, CITY OF	0	0	3	0	3	0	3
WESTLAND, CITY OF	0	0	1	0	1	0	0
State level, not in this county: county not reported	0	0	4	0	4	0	0

SOURCESFEMA, 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
Allen Park city	260217	0	0	8	0	8	0	2	
Belleville city	260544	0	0	0	0	0	0	0	
Dearborn city	260220	0	1	1	1	1	0	1	
Dearborn Heights city	260221	2	1	58	1	58	0	31	
Detroit city	260222	0	0	68	0	68	0	44	
Ecorse city	260223	0	0	7	0	7	0	2	
Flat Rock city	260224	0	0	0	0	0	0	0	
Garden City city	260225	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
Gibraltar city	260226	1	2	5	2	5	0	2	
Grosse Pointe city	260228	0	0	0	0	0	0	0	
Grosse Pointe Farms city	260229	0	0	0	0	0	0	0	
Grosse Pointe Park city	260230	0	0	0	0	0	0	0	
Grosse Pointe Woods city	260231	0	0	0	0	0	0	0	
Hamtramck city	260308	0	0	0	0	0	0	0	
Harper Woods city	260214	0	0	0	0	0	0	0	
Highland Park city	260295	0	0	0	0	0	0	0	
Inkster city	260232	0	0	0	0	0	0	0	
Lincoln Park city	260234	0	0	8	0	8	0	5	
Livonia city	260233	0	0	0	0	0	0	0	
Melvindale city	260310	0	0	0	0	0	0	0	
Northville city	260235	0	0	0	0	0	0	0	
Plymouth city	260236	0	0	1	0	1	0	1	
River Rouge city	260239	0	0	0	0	0	0	0	
Riverview city	260240	0	0	0	0	0	0	0	
Rockwood city	260241	0	0	0	0	0	0	0	
Romulus city	260381	0	0	1	0	1	0	1	
Southgate city	260242	0	0	0	0	0	0	0	
Taylor city	260728	0	0	3	0	3	0	3	
Trenton city	260244	0	0	2	0	2	0	0	
Village of Grosse Pointe Shores city	260250	0	0	0	0	0	0	0	
Wayne city	260245	0	0	0	0	0	0	0	
Westland city	260739	0	0	1	0	1	0	0	
Woodhaven city	260730	0	0	0	0	0	0	0	
Wyandotte city	260246	0	1	1	0	2	1	0	
Brownstown charter township	260218	0	1	5	1	5	0	0	
Canton charter township	260219	1	0	1	0	1	0	1	
Grosse Ile township	260227	0	0	4	0	4	0	1	
Huron charter township	260545	0	0	0	0	0	0	0	
Northville township	260669	0	0	0	0	0	0	0	
Plymouth charter township	260237	0	0	2	0	2	0	1	
Redford charter township	260238	0	0	7	0	7	0	6	
Sumpter township	260243	0	0	0	0	0	0	0	
Van Buren charter township	260546	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	4	4	172	4	172	0	98
2 to 4 unit residential	0	1	4	0	5	1	2
other residential	0	1	2	1	2	0	1
non-residential	0	0	5	0	5	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 179 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_Gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx

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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_26163. Preview: automated baseline.