

Plymouth County, IA

Risk-assessment baseline packet

County FIPS: 19149 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

Hazard Plain is an independent product built from public federal data. It is not a FEMA document and is not reviewed or endorsed by FEMA or any state agency.

Summary

Plan status as of 2026-09-30: Approved, expires 2031-04-27. Plan: Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), approved 2026-04-28.

Since the plan was approved on 2026-04-28: no new hazard declaration and 12 NOAA Storm Events records; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$6,416,262 a year), Tornado (\$3,833,132) and Hail (\$2,655,069).

The tables that follow are organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B (B1-a to B2-c); each heading says which item its tables support.

TERMS USED

EAL: expected annual loss: FEMA's modeled average yearly loss from a hazard.

NRI: FEMA's National Risk Index (version 1.20, December 2025).

NFIP: National Flood Insurance Program.

RL, SRL: repetitive loss and severe repetitive loss: flood-insured properties with repeated claims (definitions in B2-c).

FMA, HMGP: Flood Mitigation Assistance and Hazard Mitigation Grant Program, FEMA mitigation grants.

PA: FEMA Public Assistance: disaster aid to governments and some nonprofits.

Zone-level: NOAA logged the event for a National Weather Service forecast zone, which may include parts of neighboring counties.

County-coded: NOAA logged the event to this county.

FIPS: the federal code for a place; 19149 is this area.

D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).

F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.

kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.

CFR: Code of Federal Regulations.

A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).

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

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Plan clock

Status:	Approved, expires 2031-04-27	Plan:	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762)
Approved:	2026-04-28	Days to expiry:	1,670
What changed since your last plan (approved 2026-04-28)			
New federal declarations:	none	Storm Events records since approval:	12 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 1	Repeat-flood change:	this release sets the baseline count.
Sources: 1, 2, 4, 6 (numbered list at the end)			

Plan status for every jurisdiction listed in this county: 18 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Plymouth County	County	Approved, expires 2031-04-27	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762)	2026-04-28	2031-04-27	1,670		
Akron city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Hinton city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Kingsley city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Le Mars city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Merrill city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Oyens city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Remsen city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sioux City city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 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	Update underway	Notes
						<i>negative = days since expiry</i>		
Struble city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Westfield city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Akron-Westfield Community School District	School/School District	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Hinton Community School District	School/School District	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Kingsley-Pierson Community School District	School/School District	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Le Mars Community School District	School/School District	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Marcus-Meriden- Cleghorn Community School District	School/School District	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Remsen-Union Community School District	College/ University	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sioux City Community School District	School/School District	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762), pending adoption here	2026-04-28 by FEMA; not yet adopted here	2031-04-27 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Plan 111762 lists 40 other participants not on this page, 33 of them not covered by it yet (named in the Excel file).

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

- dam failure (incl. upstream dams)
- levee failure
- flash flood as its own subtype
- ice jams
- debris flows
- erosion (riverine and coastal)
- land subsidence and sinkholes
- expansive soils

The 18 National Risk Index hazards, ranked by expected annual loss (EAL)

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings	EAL agriculture	Cost of expected deaths and injuries	EAL total (see note)	Storm Events records, 1996 to 2026-06-30 count	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
				<i>modeled dollars per year</i>	<i>modeled dollars per year</i>	<i>FEMA's dollar value per year, not property damage</i>	<i>modeled dollars per year</i>			
1	Inland Flooding	Relatively Low	Relatively Low	\$6,269,113	\$142,150	\$4,998	\$6,416,262	139		
2	Tornado	Relatively Moderate	Relatively Moderate	\$2,319,155	\$12,209	\$1,501,769	\$3,833,132	20		
3	Hail	Relatively Moderate	Relatively Moderate	\$362,607	\$2,135,235	\$157,227	\$2,655,069	249		
4	Drought	Relatively Moderate	Relatively High	n/a	\$1,889,955	n/a	\$1,889,955	61		
5	Cold Wave	Relatively Low	Relatively Moderate	\$1,874	\$323,728	\$829,837	\$1,155,439	21		
6	Strong Wind	Relatively Low	Relatively Low	\$135,138	\$53,658	\$310,554	\$499,349	173		Includes 29 High Wind and 8 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
7	Heat Wave	Relatively Low	Relatively Low	\$8,758	\$18	\$269,011	\$277,788	28		
8	Ice Storm	Relatively Moderate	Relatively Moderate	\$106,148	n/a	\$144,566	\$250,713	4		
9	Wildfire	Relatively Low	Relatively Low	\$178,442	\$1,635	\$19,492	\$199,568	1		
10	Winter Weather	Relatively Moderate	Relatively Moderate	\$173,321	\$1,396	\$17,775	\$192,492	158		

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
11	Lightning	Relatively Low	Relatively Low	\$37,473	n/a	\$124,526	\$161,999	2		
12	Landslide	Relatively Low	Relatively Low	\$296	n/a	\$19,883	\$20,179	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Earthquake	Very Low	Very Low	\$14,431	n/a	\$2,645	\$17,076			Storm Events does not record earthquakes.
	Hurricane	Not Applicable	Not Applicable					0	NRI rates hurricane Not Applicable for this county, and no counted federal declaration for this county names it (EM-3239-IA names it but is not counted as a local occurrence; see B1-d).	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

NRI risk rating combines expected annual loss with social vulnerability and community resilience; EAL rating rates expected annual loss alone. Both compare this county with all U.S. counties.

Local data needed: state and local landslide records (Storm Events records this hazard only in part).

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: avalanche, coastal flooding, tsunami and volcanic activity. That is the evidence for leaving them out of the plan.

The state hazard mitigation plan also lists hazards for this county; FEMA asks the plan to explain any hazard it leaves out.

Supports FEMA checklist item B1-b: hazard location

Affects the whole county (national data give no location within it): Cold Wave, Drought, Hail, Heat Wave, Ice Storm, Lightning, Strong Wind and Winter Weather.

Inland Flooding: The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (<https://msc.fema.gov>) for this county.

Hazards that vary within the county: highest-rated census tracts

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 9702 (Very Low, 13.5); tract 9703 (Very Low, 13.1); tract 9701 (Very Low, 12.3)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 9706 (Relatively Moderate, 98.4); tract 9703 (Relatively Low, 84.7); tract 9705 (Very Low, 80.2)
Tornado	tract 9701 (Very High, 99.5); tract 9705 (Very High, 97.8); tract 9706 (Very High, 96.5)
Wildfire	tract 9706 (Relatively Moderate, 95.7); tract 9703 (Relatively Low, 81.4); tract 9705 (Relatively Low, 80.3)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 9702 is Census Tract 9702). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	21 records, 1996 to 2025 (21 zone-level)	1 day to 5 days (median 2 days); 20 with a recorded value	5 consecutive days, 2024-01-12 to 2024-01-16, zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					
Drought	U.S. Drought Monitor scale (D0 to D4)	61 records, 1999 to 2026 (61 zone-level)	8 days to 582 days (median 122.5 days); 8 with a recorded value	582 days (about 19.1 months), 2022-03-15 to 2023-10-17, a run of 20 consecutive Storm Events drought records, zone-level	Drought, 2022-08-01, property not reported; \$12,370,000 crops (zone total, 2022 dollars)	Countywide (zone-level records).	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Hail	hail size (inches)	282 records, 1955 to 2026	0.75 in to 3.5 in (median 1 in); 282 with a recorded value	3.5 in hail, 1996-06-19	Hail, 2021-06-22, \$6,000 property; \$5,220,000 crops (2021 dollars)	Event records naming jurisdictions in the plan: Le Mars city (43 records), Remsen city (40 records), Kingsley city (35 records), Hinton city (30 records), Akron city (17 records), Merrill city (14 records), Oyens city (11 records), Westfield city (7 records), Struble city (3 records).	
Excessive Heat, Heat	heat index (in event narratives)	28 records, 1999 to 2026 (28 zone-level)	1 day to 7 days (median 2 days); 26 with a recorded value	7 consecutive days, 2012-07-18 to 2012-07-24, zone-level		Countywide (zone-level records).	
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	4 records, 1996 to 2023 (4 zone-level)		Ice Storm, 2010-01-20, \$200,000 property; \$0 crops (2010 dollars); NWS zone IAZ020		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	139 records, 1996 to 2026 (6 zone-level)		Flood, 2019-03-13, \$2,260,000 property; \$0 crops (2019 dollars)		Event records naming jurisdictions in the plan: Akron city (52 records), Westfield city (26 records), Merrill city (13 records), Struble city (12 records), Le Mars city (10 records), Hinton city (8 records), Kingsley city (4 records), Remsen city (1 record). Zone-level records (6) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	0					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	2 records, 2008 to 2010		Lightning, 2010-08-09, \$15,000 property; \$0 crops (2010 dollars)		Event records naming jurisdictions in the plan: Le Mars city (1 record), Remsen city (1 record).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	37 records, 1996 to 2026 (37 zone-level)	27 kt (31 mph) to 61 kt (70 mph) (median 50 kt (58 mph)); 36 with a recorded value	61 kt (70 mph) estimated gust, High Wind, 2005-05-26; NWS zone IAZ020	High Wind, 2001-04-07, \$50,000 property; crops not reported (zone total, 2001 dollars)	Countywide (zone-level records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Thunderstorm Wind	wind speed (kt and mph)	224 records, 1960 to 2025	50 kt (58 mph) to 83 kt (96 mph) (median 56 kt (64 mph)); 186 with a recorded value	83 kt (96 mph) estimated gust, Thunderstorm Wind, 2021-12-15	Thunderstorm Wind, 1994-06-12, \$500,000 property; \$5,000 crops (1994 dollars)	Event records naming jurisdictions in the plan: Le Mars city (36 records), Kingsley city (26 records), Remsen city (16 records), Akron city (13 records), Hinton city (9 records), Merrill city (5 records), Oyens city (3 records), Struble city (2 records), Westfield city (2 records), Sioux City city (1 record).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	54 records, 1951 to 2026	F/EF0 to F/EF3 (median F/EF1); 46 with a recorded value	F3 tornado, 1967-06-14, 6.2 mi path length (whole path, pre-1996), 500 yd wide, \$250,000 property; crops not recorded (1967 dollars), 3 direct injuries	Tornado, 1994-06-12, \$5,000,000 property; \$50,000 crops (1994 dollars)	Event records naming jurisdictions in the plan: Kingsley city (5 records), Hinton city (2 records), Le Mars city (2 records), Westfield city (2 records), Akron city (1 record), Merrill city (1 record), Remsen city (1 record), Struble city (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Wildfire	acres burned (local data)	1 record, 2022 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	158 records, 1996 to 2026 (158 zone- level)		Blizzard, 1998-11-10, \$22,730 property; crops not reported (1998 dollars); NWS zone IAZ020		Countywide (zone-level records).	

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

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records from zones that no NWS zone-county file places in this county (mostly before 2020) are not counted here (the Methods page explains the zone matching).

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 16 declarations covering 13 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2024-06-24	2024-06-16	DR-4796-IA	Major disaster	Severe Storms, Flooding, Straight-Line Winds, and Tornadoes	Inland Flooding; Strong Wind; Tornado	\$1,723,760.27	within last 5 years	
2020-03-23	2020-01-20	DR-4483-IA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$9,176.68		
2020-03-13	2020-01-20	EM-3480-IA	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4483

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Flags	Notes
						federal share obligated, nominal dollars			
2019-03-23	2019-03-12	DR-4421-IA	Major disaster	Severe Storms and Flooding	Inland Flooding	\$1,103,456.24			
2014-07-24	2014-06-14	DR-4184-IA	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding (primary); also designated: Strong Wind, Tornado	\$137,116.20			
2013-07-02	2013-05-19	DR-4126-IA	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$625,721.78			
2010-02-25	2009-12-23	DR-1877-IA	Major disaster	Severe Winter Storms and Snowstorm	Winter Weather	\$131,323.15			
2007-03-30	2007-02-28	EM-3275-IA	Emergency	Snow	Winter Weather	\$94,946.91			
2005-09-10	2005-08-29	EM-3239-IA	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded			
1996-08-21	1996-06-15	DR-1133-IA	Major disaster	Severe Storms, and Flooding	Inland Flooding	no Public Assistance recorded			
1993-07-09	1993-04-13	DR-996-IA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded			
1991-12-26	1991-10-31	DR-928-IA	Major disaster	Ice Storm	Ice Storm	no Public Assistance recorded			
1990-05-26	1990-05-18	DR-868-IA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded			
1977-03-31	1977-03-31	EM-3036-IA	Emergency	Drought	Drought	no Public Assistance recorded			
1969-04-25	1969-04-25	DR-259-IA	Major disaster	Flooding	Inland Flooding	no Public Assistance recorded			
1965-04-22	1965-04-22	DR-193-IA	Major disaster	Flooding	Inland Flooding	no Public Assistance recorded			

School districts and special districts in this county: \$4,511.33 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan participants in this county. They have no row of their own in the jurisdiction table, so their total is listed here. These dollars are already included in the county PA column of the declarations table (the FEMA record places each applicant in this county), so this line is not added to it.

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

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
1962-09-05	1962-09-05	DR-133-IA	Major disaster	Floods	Inland Flooding
1961-03-31	1961-03-31	DR-111-IA	Major disaster	Floods	Inland Flooding
1958-07-05	1958-07-05	DR-86-IA	Major disaster	Floods	Inland Flooding
1954-06-23	1954-06-23	DR-17-IA	Major disaster	Flood	Inland Flooding
1953-06-11	1953-06-11	DR-8-IA	Major disaster	Flood	Inland Flooding

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

Public Assistance not placed in any Iowa county: 11 rows, \$7,881,708.52; listed on the Iowa state page.

Source: 3

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Cold Wave	21	0	1	9	0	0	1996 to 2026-06-30	
Drought	61	3	2	31	1	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	282	5	12	40	0	0	1955 to 2026-06-30	
Heat Wave	28	1	5	15	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	4	0	0	1	1	0	1996 to 2026-06-30	
Inland Flooding	139	1	1	14	9	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	261	0	13	50	2	0	1955 to 2026-06-30	Includes 29 High Wind and 8 Strong Wind records.
Tornado	54	2	0	6	3	0	1950 to 2026-06-30	
Wildfire	1	0	0	1	0	0	1996 to 2026-06-30	
Winter Weather	158	0	6	27	2	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2024-01-12	Extreme Cold/ Wind Chill		damage not reported	0, 0	NWS zone IAZ020 (PLYMOUTH), zone-level	within last 5 years	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2022-03-15	Drought		damage not reported	0, 0	NWS zone IAZ020 (PLYMOUTH), zone-level	within last 5 years	B1-c worst recorded: Drought
2021-12-15	Thunderstorm Wind	83 kt (96 mph) estimated gust	\$35,000 property; \$0 crops (2021 dollars)	0, 0	KINGSLEY	within last 5 years	B1-c worst recorded: Thunderstorm Wind
2019-03-13	Flood		\$2,260,000 property; \$0 crops (2019 dollars)	0, 0	JAMES to KINGSLEY		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2012-07-18	Excessive Heat		\$0 property; \$0 crops (zone total, 2012 dollars)	0, 0	NWS zone IAZ020 (PLYMOUTH), zone-level		B1-c worst recorded: Excessive Heat, Heat
2010-06-03	Thunderstorm Wind	74 kt (85 mph) estimated gust	\$25,000 property; \$0 crops (2010 dollars)	0, 2	AKRON		deaths or injuries recorded
2010-01-20	Ice Storm		\$200,000 property; \$0 crops (zone total, 2010 dollars)	0, 0	NWS zone IAZ020 (PLYMOUTH), zone-level		B1-c worst recorded: Ice Storm
2005-05-26	High Wind	61 kt (70 mph) estimated gust	damage not reported	0, 0	NWS zone IAZ020 (PLYMOUTH), zone-level		B1-c worst recorded: High Wind and Strong Wind
1998-11-10	Blizzard		\$22,730 property; crops not reported (zone total, 1998 dollars)	0, 0	NWS zone IAZ020 (PLYMOUTH), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
1996-06-19	Hail	3.5 in	\$100,000 property; \$100,000 crops (1996 dollars)	0, 0	HINTON		B1-c worst recorded: Hail
1967-06-14	Tornado	F3, 6.2 mi path length (whole path, pre-1996), 500 yd wide	\$250,000 property; crops not recorded (1967 dollars)	0, 3	location not recorded		deaths or injuries recorded
1963-06-09	Tornado	F2, 2 mi path length (whole path, pre-1996), 33 yd wide	\$25,000 property; crops not recorded (1963 dollars)	0, 2	location not recorded		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,011 rows).

Location is the place NOAA recorded, as written in its data; it need not be a jurisdiction in this plan.

Local data needed: state-declared emergencies, from your state emergency management agency (federal data do not include them).

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

Supports FEMA checklist item B1-e: probability of future events

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Cold Wave	6.58	event-days per year	about 6.58 days per year	Likely	Storm Events event- days in 12 of 30 years, 1996 to 2025 (40%)	125	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	27.8	event-days per year	about 27.8 days per year	Likely	Storm Events event- days in 10 of 30 years, 1996 to 2025 (33.3%)	917	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000491	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0491%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	6.23	events per year	about 6.23 per year	Highly likely	FEMA annualized frequency (modeled)	236.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	6.26	event-days per year	about 6.26 days per year	Likely	Storm Events event- days in 9 of 30 years, 1996 to 2025 (30%)	102	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane		events per year					1851 to 2024 (Atlantic)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Ice Storm	1.01	event-days per year	about 1.01 days per year	Likely	Storm Events event- days in 3 of 30 years, 1996 to 2025 (10%)	68	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	3.36	event-days per year	about 3.36 days per year	Likely	Storm Events event- days in 25 of 30 years, 1996 to 2025 (83.3%)	94	1996 to 2023 (28 years)	see B1-f	
Landslide	0.176	events per year (modeled)	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	40.1	days per year with a strike	about 40.1 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	4.24	events per year	about 4.24 per year	Highly likely	FEMA annualized frequency (modeled)	162	1986 to 2023 (38 years)	countywide	
Tornado	0.739	events per year	about 0.74 per year	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>	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
Wildfire	0.00141	annual probability at a location	chance a given location in the county burns in a year: 0.141%	Possible	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	
Winter Weather	15.3	event-days per year	about 15.3 days per year	Highly likely	Storm Events event- days in 30 of 30 years, 1996 to 2025 (100%)	290	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) is the National Risk Index v1.20 (December 2025) estimate of how often a hazard affects this county in a year; it is not recorded events divided by years, and its unit differs by hazard (events, event-days, or days with a lightning strike per year). For earthquake, wildfire, coastal flooding and tsunami the value is the chance (or number of events) at a location in the county, not across the county, so no "1 in N years" is given and the descriptor comes from Storm Events where it has a record (none for earthquake). The Methods page gives each hazard's method, from FEMA's National Risk Index Technical Documentation v1.20.

Where NRI gives event-days, the descriptor comes from the share of years with a Storm Events record; NRI's source records more events, so the two differ.

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

Unit	Descriptor	Definition
events per year	Highly likely	1 or more per year
events per year	Likely	about once in 1 to 10 years
events per year	Possible	about once in 10 to 100 years
events per year	Unlikely	less than once in 100 years
annual probability	Likely	10% to under 100% chance in a given year
annual probability	Possible	1% to under 10% chance in a given year
annual probability	Unlikely	under 1% chance in a given year
event-days (share of years)	Highly likely	event-days recorded in 90% or more of years
event-days (share of years)	Likely	event-days recorded in 10% to under 90% of years
event-days (share of years)	Possible	event-days recorded in some years but under 10% of years
lightning strike-days	Highly likely	cloud-to-ground strikes on 1 or more days per year

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	123	30	4.1
Hail	2.00 in+	1996 to 2025	15	30	0.5
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	115	30	3.83
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	20	30	0.667
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	1	30	0.0333
Tornado	EF0-1	1996 to 2025	16	30	0.533
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	2	30	0.0667

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Cold Wave	6 of 6	61.3	82.8	90.0	Relatively High 4, Relatively Moderate 2
Drought	6 of 6	88.3	97.9	99.0	Relatively High 4, Relatively Low 2
Earthquake	6 of 6	8.3	11.7	13.5	Very Low 6
Hail	6 of 6	86.1	98.2	99.7	Very High 3, Relatively High 2, Relatively Moderate 1
Heat Wave	6 of 6	30.1	49.5	79.0	Relatively Moderate 2, Relatively Low 4
Hurricane	0 of 6				Not Applicable 6
Ice Storm	6 of 6	84.0	91.5	96.0	Relatively High 4, Relatively Moderate 2
Inland Flooding	6 of 6	47.5	78.1	88.4	Relatively High 3, Relatively Moderate 2, Relatively Low 1
Landslide	6 of 6	42.4	74.0	98.4	Relatively Moderate 1, Relatively Low 1, Very Low 4
Lightning	6 of 6	54.4	72.9	92.8	Relatively High 1, Relatively Moderate 5
Strong Wind	6 of 6	75.6	87.5	94.7	Relatively High 4, Relatively Moderate 2

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	6 of 6	88.5	96.5	99.5	Very High 4, Relatively High 2
Wildfire	6 of 6	60.9	79.5	95.7	Relatively Moderate 1, Relatively Low 4, Very Low 1
Winter Weather	6 of 6	92.7	95.5	97.8	Very High 3, Relatively High 3

Drought: Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

Hail: Agriculture is 80% of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

Rated tracts only: No Rating (score 0.0), Not Applicable and Insufficient Data tracts are counted but not used for the minimum, median and maximum.

The score ranks a tract against all U.S. tracts (100 = highest). The rating is FEMA's category for the tract's risk value, computed differently, so the two can disagree.

Frequency data for cold wave, drought, hail, heat wave, ice storm, lightning, strong wind and winter weather are county-wide or coarse (49 km grid or NWS zone), the same for every jurisdiction; the tract range mostly reflects where buildings and people are (crop and livestock value where a line above names agriculture).

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Plymouth County	County	Approved, expires 2031-04-27	FMA RL 0, SRL 0; any 0	\$54,334.39	0 total; 0 since its plan	
Akron city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 1	\$191,984.37	83 total; no approved plan	
Hinton city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$171,390.99	49 total; no approved plan	
Kingsley city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$14,777.12	70 total; no approved plan	
Le Mars city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$1,215,060.32	92 total; no approved plan	Includes \$9,176.68 for declarations not counted as hazard incidents (DR-4483-IA).
Merrill city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$138,722.01	33 total; no approved plan	
Oyens city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	14 total; no approved plan	
Remsen city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$57,114.21	59 total; no approved plan	
Sioux City city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	1 total; no approved plan	

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
Struble city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$5,812.32	18 total; no approved plan	
Westfield city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$180,442.99	37 total; no approved plan	

Repetitive-loss counts are for whole NFIP communities, which can extend beyond this county (see the note in B2-c).

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

County Public Assistance in B1-d also includes applicants filed under the county that are not jurisdictions in this plan (for example state agencies, special districts and nonprofits), so the jurisdiction rows add up to less.

Supports FEMA checklist items B2-a and B2-b: vulnerability and potential impacts

Local data needed

The table below gives county-level starting figures; the plan describes impacts for each jurisdiction and its own assets.

- Critical facilities and lifelines per hazard
- A problem statement per jurisdiction per hazard
- Changes in development in hazard-prone areas since the last approval, or a statement of none (E1-a)
- Future assets

County-level starter: exposure, expected annual loss and damage since the plan

Sources: 1, 2, 3, 5, 6, 7

Hazard	Building exposure	Agriculture exposure	Population exposed	EAL buildings	EAL agriculture	Cost of expected deaths and injuries	EAL as % of exposure	Storm Events damage since 2026-04-28	Zone-level damage since plan	Public Assistance since plan	Note
	<i>modeled dollars</i>	<i>modeled dollars</i>	<i>people</i>	<i>modeled dollars per year</i>	<i>modeled dollars per year</i>	<i>FEMA's dollar value per year, not property damage</i>	<i>buildings; agriculture where noted</i>	<i>county-coded records, property plus crops, nominal dollars</i>	<i>property plus crops, reported for the zone</i>	<i>nominal dollars; see note</i>	
Cold Wave	\$8,482,359,885	\$950,572,490	25,687	\$1,874	\$323,728	\$829,837	under 0.0001%				
Drought	n/a	\$226,469,570	n/a	n/a	\$1,889,955	n/a	0.835% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$14,321,363,227	n/a	25,698	\$14,431	n/a	\$2,645	0.000101%				
Hail	\$8,482,388,247	\$950,572,490	25,687	\$362,607	\$2,135,235	\$157,227	0.00427%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2026-04-28 <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
Heat Wave	\$8,482,359,885	\$950,572,490	25,687	\$8,758	\$18	\$269,011	0.000103%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$8,482,359,885	n/a	25,687	\$106,148	n/a	\$144,566	0.00125%				
Inland Flooding	\$8,478,788,726	\$102,083,359	300	\$6,269,113	\$142,150	\$4,998	n/a (see note)	\$0			NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$106,515,898	n/a	449	\$296	n/a	\$19,883	0.000278%				
Lightning	\$8,482,388,247	n/a	25,687	\$37,473	n/a	\$124,526	0.000442%				
Strong Wind	\$8,482,388,247	\$950,572,490	25,687	\$135,138	\$53,658	\$310,554	0.00159%				
Tornado	\$8,482,388,247	\$950,572,490	25,687	\$2,319,155	\$12,209	\$1,501,769	0.0273%				
Wildfire	\$1,119,397,853	\$135,145,058	5,548	\$178,442	\$1,635	\$19,492	0.0159%				
Winter Weather	\$8,482,359,885	\$950,572,490	25,687	\$173,321	\$1,396	\$17,775	0.00204%				

Totals since 2026-04-28 (Storm Events through 2026-06-30): 8 county-coded records, 1 with a damage value recorded (including \$0), \$0; 4 zone-level records, 0 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: no counted declaration since the plan.

FEMA does not split Public Assistance by hazard. A declaration mapped to several hazards is listed under each of them with its full amount, so the per-hazard column does not add up to the total; the unit total counts each declaration once.

NRI computes earthquake exposure on its own basis, so it exceeds the county building value in B2-a.

Supports FEMA checklist item B2-a: vulnerability (county context)

County context

Source: 5

Measure	Value
Population	25,687
Building value (total, not at risk)	\$8,482,388,247
Agriculture value (total, not at risk)	\$950,572,490
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$14,166,739
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)	\$3,402,283
Social vulnerability rating	Relatively Low
Community resilience rating	Very High
NRI version	December 2025

FEMA's all-hazard expected annual loss adds buildings, agriculture and population equivalence; this table gives the property part and the population-equivalence part as separate rows.

Social vulnerability: higher means people are more likely to be harmed and slower to recover. Community resilience: lower means the community is less able to recover. High social vulnerability and low resilience both raise the NRI risk rating.

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	1	Severe repetitive loss, NFIP insurance definition	0

The state NFIP coordinator's list, the source FEMA's Handbook names, often uses the NFIP insurance definition (second row).

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	0	0	1	0	1	0	0
of which: Akron city	0	0	1	0	1	0	0
Statewide, no county in FEMA's file	0	0	1	0	1	0	0

The statewide row counts properties FEMA's file gives with no county in this state; they are listed for reference and are not in this county's counts.

Repeat-flood properties by jurisdiction in the plan (NFIP community)

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Plymouth County	190899	0	0	0	0	0	0	0
Akron city	190223	0	0	1	0	1	0	0
Hinton city	190224	0	0	0	0	0	0	0
Kingsley city	190477	0	0	0	0	0	0	0
Le Mars city	190225	0	0	0	0	0	0	0
Merrill city	190478	0	0	0	0	0	0	0
Oyens city	190479	0	0	0	0	0	0	0
Remsen city	190480	0	0	0	0	0	0	0
Sioux City city	190298	0	0	0	0	0	0	0
Struble city	190481	0	0	0	0	0	0	0
Westfield city	190482	0	0	0	0	0	0	0

Counts by occupancy group for each jurisdiction are in the Excel file, sheet "B2-c Jurisdictions".

Jurisdiction rows are whole NFIP communities and need not add up to the county total: a community that extends into another county is counted in full on each jurisdiction row, while the county table counts only its part in this county.

County repeat-flood properties by occupancy group

Sources: 1, 4

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

FEMA's occupancy groups have no institutional class; institutional properties are counted in non-residential or other residential in the table by occupancy group.

FMA RL and FMA SRL are the Flood Mitigation Assistance definitions (44 CFR 77.2), the ones the FEMA Local Mitigation Planning Policy Guide cites. NFIP repetitive loss (the FEMA insurance definition) is 2 or more claims over \$1,000 in 10 years, and a property can leave that group once it is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured. The Methods page gives the OpenFEMA field details.

Counts are aggregates of FEMA's public NFIP Multiple Loss Properties file (FEMA's data date 2026-08-02; file version 2026-08-04). No property is identified. County assignment is FEMA's geocode.

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 1 property is NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
 2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
 3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
 4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
 5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
 6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
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What this packet is and what the plan adds

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

The plan adds what only the community has: local data on assets, critical facilities, development and each jurisdiction's impacts; local hazard history, including state-declared emergencies; the mitigation strategy; and adoption.

How the federal data are built: National Risk Index values are FEMA's model, not counts of events. Storm Events is more complete from 1996; zone-level records are placed by forecast zone, not by location in the county. Public Assistance for a jurisdiction is matched by applicant name. The Methods page gives every rule and the known edge cases.

OpenFEMA disclaimer

This product uses the Federal Emergency Management Agency's OpenFEMA API, but is not endorsed by FEMA. The Federal Government or FEMA cannot vouch for the data or analyses derived from these data after the data have been retrieved from the Agency's website(s).

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