

Clayton County, IA

Risk-assessment baseline packet

County FIPS: 19043 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 2026-10-18. Plan: Clayton County (FEMA plan 107656), approved 2021-10-18.

Since the plan was approved on 2021-10-18: 1 new hazard declaration (1 incident) and 79 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 (\$9,249,187 a year), Tornado (\$1,550,015) and Cold Wave (\$1,232,845).

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; 19043 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 2026-10-18	Plan:	Clayton County (FEMA plan 107656)
Approved:	2021-10-18	Days to expiry:	18
Update underway:	none recorded in FEMA's plan tracker		

What changed since your last plan (approved 2021-10-18)

New federal declarations:	1 new hazard declaration (1 incident): DR-4732-IA (Flooding)	Storm Events records since approval:	79 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 11	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: 23 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 negative = days since expiry	Notes
Clayton County	County	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2021-10-26
Clayton city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2021-10-26
Edgewood city	City	Approved, expires 2027-03-31	Delaware County (FEMA plan 108176)	2022-03-31	2027-03-31	182	this jurisdiction approved 2022-03-30
Elkader city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2021-10-26
Elkport city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2021-10-26
Farmersburg city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2022-02-02
Garber city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2021-10-26
Garnavillo city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2022-02-02
Guttenberg city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2021-10-26
Luana city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2021-10-26
Marquette city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2021-10-26
McGregor city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2021-10-26
Monona city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2021-10-26
North Buena Vista city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2022-02-02
Osterdock city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2022-02-02
St. Olaf city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2021-10-26
Strawberry Point city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2022-02-02
Volga city	City	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2021-10-26
Central Community School District	School/School District	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2022-02-02

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Notes
Clayton Ridge Community School District	School/School District	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2022-02-02
Edgewood-Colesburg Community School District	School/School District	Approved, expires 2027-03-31	Delaware County (FEMA plan 108176)	2022-03-31	2027-03-31	182	this jurisdiction approved 2022-03-30
MFL MarMac Community School District	School/School District	Approved, expires 2026-10-18	Clayton County (FEMA plan 107656)	2021-10-18	2026-10-18	18	this jurisdiction approved 2022-02-02
Western Dubuque County Community School District	School/School District	Approved, expires 2029-03-31	Dubuque County (FEMA plan 109761)	2024-04-01	2029-03-31	913	

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 <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Inland Flooding	Relatively Low	Relatively Low	\$8,062,708	\$1,150,322	\$36,157	\$9,249,187	185	
2	Tornado	Relatively Low	Relatively Low	\$847,321	\$2,219	\$700,475	\$1,550,015	7	
3	Cold Wave	Relatively Low	Relatively Moderate	\$281	\$152,176	\$1,080,387	\$1,232,845	22	Includes 1 Frost/Freeze record (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
4	Hail	Relatively Moderate	Relatively Moderate	\$552,919	\$528,782	\$26,100	\$1,107,801	123	

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
5	Strong Wind	Relatively Low	Relatively Low	\$232,410	\$65,138	\$174,576	\$472,124	139	Includes 9 High Wind and 2 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
6	Drought	Relatively Moderate	Relatively Moderate	n/a	\$414,078	n/a	\$414,078	21	
7	Heat Wave	Relatively Low	Relatively Low	\$1,314	\$6	\$283,020	\$284,341	15	
8	Landslide	Relatively Moderate	Relatively Low	\$3,814	n/a	\$66,953	\$70,767	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
9	Lightning	Very Low	Very Low	\$11,859	n/a	\$58,206	\$70,065	1	
10	Winter Weather	Relatively Low	Relatively Low	\$8,008	\$763	\$24,221	\$32,992	95	
11	Ice Storm	Very Low	Very Low	\$9,407	n/a	\$10,741	\$20,148	5	
12	Earthquake	Very Low	Very Low	\$13,479	n/a	\$3,335	\$16,814		Storm Events does not record earthquakes.
13	Wildfire	Very Low	Very Low	\$3,832	\$156	\$549	\$4,537	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Hurricane	Very Low	Very Low	\$944	\$3,009	under \$1	\$3,953	0	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 and wildfire records (Storm Events records these hazards only in part).

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

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

Supports FEMA checklist item B1-b: hazard location

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

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

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

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 703 (Very Low, 14.7); tract 704 (Very Low, 13.0); tract 706 (Very Low, 12.8)
Hurricane	tract 706 (Very Low, 34.0); tract 703 (Very Low, 32.6); tract 705 (Very Low, 32.5)
Landslide	tract 705 (Relatively Moderate, 99.1); tract 701 (Relatively Moderate, 98.9); tract 703 (Relatively Moderate, 97.8)
Tornado	tract 706 (Relatively High, 84.6); tract 704 (Relatively High, 82.1); tract 703 (Relatively High, 81.5)
Wildfire	tract 706 (Relatively Low, 68.8); tract 701 (Very Low, 67.1); tract 705 (Very Low, 66.0)

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 703 is Census Tract 703). 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, 1997 to 2026 (21 zone-level)	1 day to 6 days (median 2 days); 20 with a recorded value	6 consecutive days, 2010-01-01 to 2010-01-06, zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	1 record, 2012 (1 zone-level)		No crop damage reported in 1 record.		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	21 records, 2012 to 2024 (21 zone-level)	15 days to 295 days (median 39.5 days); 6 with a recorded value	295 days (about 9.7 months), 2023-08-01 to 2024-05-21, a run of 10 consecutive Storm Events drought records, zone-level		Countywide (zone-level records).	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Hail	hail size (inches)	142 records, 1961 to 2026	0.75 in to 2.5 in (median 1 in); 142 with a recorded value	2.5 in hail, 2026-04-14	Hail, 2009-07-24, \$150,000 property; \$3,000,000 crops (2009 dollars)	Event records naming jurisdictions in the plan: Edgewood city (15 records), Elkader city (11 records), Garber city (8 records), Monona city (7 records), Volga city (7 records), Luana city (6 records), Garnavillo city (4 records), St. Olaf city (4 records), Clayton city (3 records), Elkport city (3 records); and 5 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	15 records, 1997 to 2026 (15 zone-level)	1 day to 13 days (median 3 days); 12 with a recorded value	13 consecutive days, 1999-07-19 to 1999-07-31, zone-level	Excessive Heat, 2011-07-17, \$25,000 property; \$0 crops (zone total, 2011 dollars)	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)	5 records, 1998 to 2024 (5 zone-level)		Ice Storm, 1998-01-04, \$4,000 property; crops not reported (1998 dollars), 1 direct injury (reported for the zone); NWS zone IAZ030		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	185 records, 1997 to 2025 (6 zone-level)		Flood, 2008-06-07, \$4,700,000 property; \$20,000,000 crops (2008 dollars)		Event records naming jurisdictions in the plan: Elkader city (34 records), Garber city (29 records), Marquette city (15 records), Edgewood city (8 records), Elkport city (5 records), Luana city (4 records), Clayton city (3 records), Farmersburg city (3 records), Monona city (3 records), North Buena Vista city (2 records); and 4 more jurisdictions (see the Excel file). 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)	1 record, 2005		Lightning, 2005-06-25, \$4,500 property; crops not reported (2005 dollars)		No event record names a jurisdiction in the plan.	Storm Events lists lightning with damage or casualties.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	11 records, 1996 to 2024 (11 zone-level)	37 kt (43 mph) to 61 kt (70 mph) (median 52 kt (60 mph)); 11 with a recorded value	61 kt (70 mph), measurement type not recorded, High Wind, 1998-11-10; NWS zone IAZ030		Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	167 records, 1959 to 2026	35 kt (40 mph) to 75 kt (86 mph) (median 52 kt (60 mph)); 148 with a recorded value	75 kt (86 mph), measurement type not recorded, Thunderstorm Wind, 1991-03-22	Thunderstorm Wind, 1994-05-23, \$500,000 property; crops not recorded (1994 dollars)	Event records naming jurisdictions in the plan: Monona city (17 records), Elkader city (13 records), Edgewood city (9 records), Garnavillo city (6 records), Luana city (6 records), Garber city (5 records), Volga city (4 records), Marquette city (3 records), Osterdock city (3 records), Elkport city (2 records); and 5 more jurisdictions (see the Excel file).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	17 records, 1953 to 2026	F/EF0 to F/EF3 (median between F/EF0 and F/EF1); 16 with a recorded value	F3 tornado, 1985-05-30, 20 mi path length (whole path, pre-1996), 500 yd wide, \$25,000,000 property; crops not recorded (1985 dollars), 2 direct deaths, 25 direct injuries		Event records naming jurisdictions in the plan: Edgewood city (2 records), Garber city (2 records), Clayton city (1 record), Garnavillo city (1 record), Monona city (1 record), Osterdock city (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Wildfire	acres burned (local data)	0					
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	95 records, 1996 to 2026 (95 zone-level)		Blizzard, 2010-12-11, \$33,500 property; \$0 crops (2010 dollars); NWS zone IAZ030		Countywide (zone-level records).	

Where a hazard names more than 10 jurisdictions, the table lists the 10 with the most records; every one is in the Excel file, sheet "B1-c Extent".

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: 27 declarations covering 24 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
2023-08-25	2023-04-24	DR-4732-IA	Major disaster	Flooding	Inland Flooding	\$201,331.61	new since last plan; within last 5 years	
2020-03-23	2020-01-20	DR-4483-IA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$594,193.71		
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
2019-03-23	2019-03-12	DR-4421-IA	Major disaster	Severe Storms and Flooding	Inland Flooding	\$486,706.19		
2017-08-27	2017-07-19	DR-4334-IA	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	\$1,181,496.36		
2016-10-31	2016-09-21	DR-4289-IA	Major disaster	Severe Storms and Flooding	Inland Flooding	\$35,490.62		
2016-09-29	2016-08-23	DR-4281-IA	Major disaster	Severe Storms, Straight-Line Winds, and Flooding	Inland Flooding (primary); also designated: Strong Wind	\$149,640.43		
2015-07-31	2015-06-20	DR-4234-IA	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	no Public Assistance recorded		
2013-07-31	2013-06-21	DR-4135-IA	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$240,618.06		
2013-07-02	2013-05-19	DR-4126-IA	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$157,563.20		
2010-07-29	2010-06-01	DR-1930-IA	Major disaster	Severe Storms, Flooding, and Tornadoes	Inland Flooding; Tornado	\$367,633.65		
2008-05-27	2008-05-25	DR-1763-IA	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$3,514,627.70		
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		
2004-05-25	2004-05-19	DR-1518-IA	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	\$916,076.63		
2002-06-19	2002-06-03	DR-1420-IA	Major disaster	Severe Storms and Flooding	Inland Flooding	\$337,359.33		
2001-05-02	2001-04-08	DR-1367-IA	Major disaster	Severe Storms, Tornadoes and Flooding	Inland Flooding; Tornado	\$306,679.73		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1999-07-22	1999-07-02	DR-1282-IA	Major disaster	Severe Storms and Flooding	Inland Flooding	\$211,849.03		
1999-05-21	1999-05-16	DR-1277-IA	Major disaster	Severe Storms, Flooding, and Tornadoes	Inland Flooding; Tornado	\$1,344,754.71		
1998-07-02	1998-06-13	DR-1230-IA	Major disaster	Severe Storms, Tornadoes and Flooding	Inland Flooding (primary); also designated: Tornado	no Public Assistance recorded		
1993-07-09	1993-04-13	DR-996-IA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1991-07-12	1991-06-01	DR-911-IA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1990-09-06	1990-07-25	DR-879-IA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1974-06-24	1974-06-24	DR-443-IA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1972-09-26	1972-09-26	DR-354-IA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1969-04-25	1969-04-25	DR-259-IA	Major disaster	Flooding	Inland Flooding	no Public Assistance recorded		
1968-08-04	1968-08-04	DR-248-IA	Major disaster	Heavy Rains & 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: \$85,776.39 (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	22	6	0	6	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record.
Drought	21	13	3	13	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	142	12	0	12	0	0	1955 to 2026-06-30	
Heat Wave	15	3	0	3	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	5	2	0	2	0	0	1996 to 2026-06-30	
Inland Flooding	185	15	2	15	24	1	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	1	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	178	15	2	15	3	0	1955 to 2026-06-30	Includes 9 High Wind and 2 Strong Wind records.
Tornado	17	2	0	2	10	0	1950 to 2026-06-30	
Wildfire	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	95	11	5	11	0	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
2026-04-14	Hail	2.5 in	\$225,000 property; \$0 crops (2026 dollars)	0, 0	MONONA	new since last plan; within last 5 years	B1-c worst recorded: Hail
2023-08-01	Drought		\$0 property; crops not reported (zone total, 2023 dollars)	0, 0	NWS zone IAZ030 (CLAYTON), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Drought
2017-07-19	Tornado	EF1, 5.78 mi within this county, 400 yd wide	\$840,000 property; \$0 crops (2017 dollars)	0, 2	GIARD to MC GREGOR		deaths or injuries recorded
2010-12-11	Blizzard		\$33,500 property; \$0 crops (zone total, 2010 dollars)	0, 0	NWS zone IAZ030 (CLAYTON), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2010-10-26	High Wind	52 kt (60 mph) estimated gust	\$18,000 property; \$0 crops (zone total, 2010 dollars)	0, 1	NWS zone IAZ030 (CLAYTON), zone-level		deaths or injuries recorded
2010-01-01	Cold/Wind Chill		\$0 property; \$0 crops (zone total, 2010 dollars)	0, 0	NWS zone IAZ030 (CLAYTON), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2008-06-07	Flood		\$4,700,000 property; \$20,000,000 crops (2008 dollars)	0, 0	STRAWBERRY PT to FARMERSBURG		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2005-06-25	Lightning		\$4,500 property; crops not reported (2005 dollars)	0, 0	STRAWBERRY PT		B1-c worst recorded: Lightning
1999-07-19	Heat		damage not reported	0, 0	NWS zone IAZ030 (CLAYTON), zone-level		B1-c worst recorded: Excessive Heat, Heat
1998-11-10	High Wind	61 kt (70 mph), measurement type not recorded	\$225,000 property; crops not reported (zone total, 1998 dollars)	0, 0	NWS zone IAZ030 (CLAYTON), zone-level		B1-c worst recorded: High Wind and Strong Wind
1991-03-22	Thunderstorm Wind	75 kt (86 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind
1985-05-30	Tornado	F3, 20 mi path length (whole path, pre-1996), 500 yd wide	\$25,000,000 property; crops not recorded (1985 dollars)	2, 25	location not recorded		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (681 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	7.32	event-days per year	about 7.32 days per year	Likely	Storm Events event- days in 11 of 30 years, 1996 to 2025 (36.7%)	139	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	10.1	event-days per year	about 10.1 days per year	Likely	Storm Events event- days in 4 of 30 years, 1996 to 2025 (13.3%)	385	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000504	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0504%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	4.2	events per year	about 4.2 per year	Highly likely	FEMA annualized frequency (modeled)	159.3 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	4.37	event-days per year	about 4.37 days per year	Likely	Storm Events event- days in 10 of 30 years, 1996 to 2025 (33.3%)	66	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.009	events per year	about 1 in 111 years	Unlikely	FEMA annualized frequency (modeled)	2	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	0.238	event-days per year	about 0.238 days per year	Likely	Storm Events event- days in 4 of 30 years, 1996 to 2025 (13.3%)	17	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	4.36	event-days per year	about 4.36 days per year	Likely	Storm Events event- days in 24 of 30 years, 1996 to 2025 (80%)	122	1996 to 2023 (28 years)	see B1-f	
Landslide	0.805	events per year (modeled)	about 0.81 per year	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	39	days per year with a strike	about 39 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	

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
Strong Wind	4.6	events per year	about 4.6 per year	Highly likely	FEMA annualized frequency (modeled)	175	1986 to 2023 (38 years)	countywide	
Tornado	0.581	events per year	about 0.58 per year	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.000082	annual probability at a location	chance a given location in the county burns in a year: 0.0082%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Winter Weather	16.9	event-days per year	about 16.9 days per year	Highly likely	Storm Events event- days in 30 of 30 years, 1996 to 2025 (100%)	321	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	69	30	2.3
Hail	2.00 in+	1996 to 2025	1	30	0.0333
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	107	30	3.57
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	4	30	0.133
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	15	30	0.5
Tornado	EF0-1	1996 to 2025	6	30	0.2
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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	79.8	83.9	85.9	Relatively High 6
Drought	6 of 6	91.0	94.1	96.1	Relatively Moderate 5, Relatively Low 1
Earthquake	6 of 6	7.2	12.6	14.7	Very Low 6
Hail	6 of 6	92.8	95.8	97.0	Relatively High 6
Heat Wave	6 of 6	51.6	57.6	61.2	Relatively Moderate 5, Relatively Low 1
Hurricane	6 of 6	24.5	31.7	34.0	Very Low 6
Ice Storm	6 of 6	36.9	41.0	43.4	Relatively Low 6
Inland Flooding	6 of 6	61.5	91.7	96.2	Very High 1, Relatively High 4, Relatively Moderate 1
Landslide	6 of 6	91.6	97.2	99.1	Relatively Moderate 5, Relatively Low 1
Lightning	6 of 6	45.6	50.5	54.4	Relatively Moderate 5, Relatively Low 1
Strong Wind	6 of 6	84.0	86.9	90.3	Relatively High 6

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	6 of 6	77.5	81.5	84.6	Relatively High 6
Wildfire	6 of 6	55.2	65.3	68.8	Relatively Low 1, Very Low 5
Winter Weather	6 of 6	64.7	68.6	71.0	Relatively Moderate 6

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.

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
Clayton County	County	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 4	\$1,861,600.50	0 total; 0 since its plan	Includes \$47,234.78 for declarations not counted as hazard incidents (DR-4483-IA).
Clayton city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	\$47,413.73	8 total; 0 since its plan	
Edgewood city	City	Approved, expires 2027-03-31	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	34 total; 0 since its plan	
Elkader city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 5	\$1,709,344.54	58 total; 2 since its plan	
Elkport city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	\$47,716.56	10 total; 0 since its plan	
Farmersburg city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	\$5,089.22	5 total; 0 since its plan	
Garber city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 1	\$231,886.92	44 total; 4 since its plan	
Garnavillo city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	\$12,555.59	12 total; 1 since its plan	
Guttenberg city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	\$462,502.85	0 total; 0 since its plan	Includes \$3,651.88 for declarations not counted as hazard incidents (DR-4483-IA).
Luana city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	16 total; 3 since its plan	
Marquette city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	\$189,053.60	19 total; 5 since its plan	
McGregor city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 1	\$676,677.44	1 total; 0 since its plan	

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
Monona city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	\$11,140.50	28 total; 3 since its plan	
North Buena Vista city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	\$77,876.47	5 total; 1 since its plan	
Osterdock city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	9 total; 1 since its plan	
St. Olaf city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	\$5,681.40	7 total; 0 since its plan	
Strawberry Point city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	\$2,741.27	2 total; 0 since its plan	
Volga city	City	Approved, expires 2026-10-18	FMA RL 0, SRL 0; any 0	\$545,285.76	12 total; 0 since its plan	

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

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

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2021-10-18 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Cold Wave	\$5,575,760,208	\$469,050,942	17,028	\$281	\$152,176	\$1,080,387	under 0.0001%		\$0		
Drought	n/a	\$91,733,613	n/a	n/a	\$414,078	n/a	0.451% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$9,387,021,594	n/a	17,043	\$13,479	n/a	\$3,335	0.000144%				
Hail	\$5,575,760,208	\$469,050,942	17,028	\$552,919	\$528,782	\$26,100	0.00992%	\$225,000			
Heat Wave	\$5,575,760,208	\$469,050,942	17,028	\$1,314	\$6	\$283,020	under 0.0001%		\$0		
Hurricane	\$5,575,760,208	\$466,425,779	17,028	\$944	\$3,009	under \$1	under 0.0001%				
Ice Storm	\$5,575,760,208	n/a	17,028	\$9,407	n/a	\$10,741	0.000169%		\$0		
Inland Flooding	\$5,565,886,160	\$20,548,865	552	\$8,062,708	\$1,150,322	\$36,157	n/a (see note)	\$596,000		\$201,331.61	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	\$300,307,614	n/a	1,083	\$3,814	n/a	\$66,953	0.00127%				
Lightning	\$5,575,760,208	n/a	17,028	\$11,859	n/a	\$58,206	0.000213%				
Strong Wind	\$5,575,760,208	\$469,050,942	17,028	\$232,410	\$65,138	\$174,576	0.00417%	\$117,000	\$55,000		Storm Events damage since the plan includes 1 zone-level High Wind record (\$25,000) and 1 zone-level Strong Wind record (\$30,000): NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition.
Tornado	\$5,575,760,208	\$469,050,942	17,028	\$847,321	\$2,219	\$700,475	0.0152%	\$0			

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 2021-10-18 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Wildfire	\$2,364,735,608	\$224,708,170	7,366	\$3,832	\$156	\$549	0.000162%				
Winter Weather	\$5,575,760,208	\$469,050,942	17,028	\$8,008	\$763	\$24,221	0.000144%		\$0		

Totals since 2021-10-18 (Storm Events through 2026-06-30): 42 county-coded records, 42 with a damage value recorded (including \$0), \$938,000; 37 zone-level records, 37 with a damage value recorded (including \$0), \$55,000 reported for the zone; Public Assistance: \$201,331.61 on 1 counted declaration.

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	17,028
Building value (total, not at risk)	\$5,575,760,208
Agriculture value (total, not at risk)	\$469,050,942
NRI risk rating (all hazards)	Very Low
Expected annual loss, buildings and agriculture, all hazards	\$12,064,944
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)	\$2,464,723
Social vulnerability rating	Relatively Low
Community resilience rating	Relatively 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	11	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	11	0	11	0	3
of which: Elkader city	0	0	5	0	5	0	2
of which: Garber city	0	0	1	0	1	0	0
of which: Clayton County (unincorporated area)	0	0	4	0	4	0	1
of which: McGregor 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>
Clayton County	190858	0	0	4	0	4	0	1
Clayton city	190072	0	0	0	0	0	0	0
Edgewood city	190573	0	0	0	0	0	0	0
Elkader city	190073	0	0	5	0	5	0	2
Elkport city	190074	0	0	0	0	0	0	0
Farmersburg city	190075	0	0	0	0	0	0	0
Garber city	190076	0	0	1	0	1	0	0
Garnavillo city	190580	0	0	0	0	0	0	0
Guttenberg city	190077	0	0	0	0	0	0	0
Luana city	190767	0	0	0	0	0	0	0
Marquette city	195182	0	0	0	0	0	0	0

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
McGregor city	195183	0	0	1	0	1	0	0
Monona city	190620	0	0	0	0	0	0	0
North Buena Vista city	190082	0	0	0	0	0	0	0
Osterdock city	190083	0	0	0	0	0	0	0
St. Olaf city	190084	0	0	0	0	0	0	0
Strawberry Point city	190662	0	0	0	0	0	0	0
Volga city	190085	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	5	0	5	0	1
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	0	6	0	6	0	2
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 11 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

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

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

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

4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

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

What this packet is and what the plan adds

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

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

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

OpenFEMA disclaimer

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

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Clayton County, IA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 19043). Automated baseline. <https://hazardplain.org/ia/19043/> Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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