

Woodbury County, IA

Risk-assessment baseline packet

County FIPS: 19193 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 42 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 (\$18,177,716 a year), Tornado (\$16,489,249) and Cold Wave (\$5,726,933).

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; 19193 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:	42 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: 21 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
Woodbury 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		this jurisdiction approved 2026-05-12
Anthon 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.
Bronson 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.
Correctionville city	City	Approved, expires 2031-04-27	Cherokee, Ida, Monona, Plymouth, Woodbury Counties HMP (FEMA plan 111762)	2026-04-28	2031-04-27	1,670		this jurisdiction approved 2026-04-30
Cushing 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.
Danbury 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.
Hornick 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.
Lawton 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.
Moville 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>		
Oto 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.
Pierson 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.
Salix 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.
Sergeant Bluff 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.
Sloan 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.
Smithland 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-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.
River Valley 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.
Sergeant Bluff-Luton 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.

Days to expiry <i>negative = days since expiry</i>								
Jurisdiction	Type	Status	Plan	Approved	Expires	Update underway	Notes	
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.	
Westwood 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 37 other participants not on this page, 31 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 modeled dollars per year	EAL agriculture modeled dollars per year	Cost of expected deaths and injuries FEMA's dollar value per year, not property damage	EAL total (see note) modeled dollars per year	Storm Events records, 1996 to 2026-06-30 count	Why this hazard can be left out NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
1	Inland Flooding	Relatively Moderate	Relatively Moderate	\$17,944,929	\$135,113	\$97,674	\$18,177,716	83		
2	Tornado	Relatively High	Relatively High	\$5,715,258	\$6,804	\$10,767,187	\$16,489,249	31		
3	Cold Wave	Relatively Moderate	Relatively High	\$6,413	\$243,243	\$5,477,277	\$5,726,933	19		
4	Hail	Relatively High	Relatively High	\$1,313,279	\$1,104,679	\$530,097	\$2,948,055	347		

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	Cost of expected deaths and injuries FEMA's dollar value per year, not property damage	EAL total (see note) modeled dollars per year	Storm Events records, 1996 to 2026-06-30 count	Why this hazard can be left out NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
5	Heat Wave	Relatively Moderate	Relatively Moderate	\$19,291	\$9	\$1,817,101	\$1,836,401	29		
6	Drought	Relatively Moderate	Relatively High	n/a	\$1,717,369	n/a	\$1,717,369	55		
7	Strong Wind	Relatively High	Relatively Moderate	\$1,046,901	\$55,141	\$463,265	\$1,565,307	313		Includes 42 High Wind and 8 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
8	Wildfire	Relatively Low	Relatively Moderate	\$842,118	\$3,396	\$86,334	\$931,847	2		
9	Ice Storm	Relatively High	Relatively High	\$295,716	n/a	\$335,035	\$630,751	4		
10	Winter Weather	Relatively High	Relatively High	\$245,555	\$678	\$47,197	\$293,430	153		
11	Lightning	Relatively Low	Relatively Low	\$55,531	n/a	\$194,691	\$250,222	4		
12	Earthquake	Very Low	Very Low	\$66,406	n/a	\$17,306	\$83,712			Storm Events does not record earthquakes.
13	Landslide	Relatively Low	Relatively Low	\$4,842	n/a	\$21,653	\$26,495	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	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 36 (Relatively Low, 55.3); tract 21.01 (Very Low, 23.4); tract 18.02 (Very Low, 18.1)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 35 (Relatively Moderate, 97.2); tract 31 (Relatively Moderate, 97.1); tract 5 (Relatively Moderate, 95.7)
Tornado	tract 36 (Very High, 99.8); tract 21.02 (Very High, 99.3); tract 31 (Very High, 98.9)
Wildfire	tract 33.02 (Relatively Moderate, 95.6); tract 5 (Relatively Moderate, 94.8); tract 4 (Relatively Moderate, 93.6)

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 36 is Census Tract 36). 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	19 records, 1996 to 2025 (19 zone-level)	1 day to 5 days (median 2 days); 18 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)	55 records, 1999 to 2026 (55 zone-level)	8 days to 596 days (median 90 days); 9 with a recorded value	596 days (about 19.6 months), 2022-03-15 to 2023-10-31, a run of 20 consecutive Storm Events drought records, zone-level	Drought, 2023-10-01, property not reported; \$33,070,000 crops (zone total, 2023 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)	385 records, 1962 to 2026	0.75 in to 4.5 in (median 1 in); 385 with a recorded value	4.5 in hail, 1996-06-19	Hail, 1998-05-28, \$1,400,000 property; \$1,000,000 crops (1998 dollars)	Event records naming jurisdictions in the plan: Sioux City city (78 records), Correctionville city (31 records), Salix city (27 records), Anthon city (24 records), Sergeant Bluff city (23 records), Merville city (20 records), Bronson city (17 records), Pierson city (17 records), Sloan city (13 records), Danbury city (12 records); and 5 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	29 records, 1999 to 2026 (29 zone-level)	1 day to 7 days (median 2 days); 27 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 2020 (4 zone-level)		Ice Storm, 1996-11-14, \$20,000 property; crops not reported (1996 dollars); NWS zone IAZ031		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	83 records, 1996 to 2024 (3 zone-level)		Flash Flood, 1999-07-02, \$8,000,000 property; crops not reported (1999 dollars), 2 direct injuries		Event records naming jurisdictions in the plan: Sioux City city (33 records), Sloan city (9 records), Correctionville city (7 records), Pierson city (7 records), Anthon city (6 records), Danbury city (3 records), Hornick city (3 records), Sergeant Bluff city (3 records), Lawton city (2 records), Merville city (2 records); and 3 more jurisdictions (see the Excel file). Zone-level records (3) 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)	4 records, 1999 to 2020		Lightning, 2020-07-14, \$25,000 property; \$0 crops (2020 dollars)		Event records naming jurisdictions in the plan: Sioux City city (3 records).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	50 records, 1996 to 2026 (50 zone-level)	35 kt (40 mph) to 61 kt (70 mph) (median 51 kt (59 mph)); 49 with a recorded value	61 kt (70 mph) measured gust, High Wind, 2025-12-09; NWS zone IAZ031	High Wind, 2005-03-10, \$50,000 property; crops not reported (zone total, 2005 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)	361 records, 1955 to 2026	50 kt (58 mph) to 85 kt (98 mph) (median 56 kt (64 mph)); 331 with a recorded value	85 kt (98 mph) measured, Thunderstorm Wind, 2001-08-02	Thunderstorm Wind, 2008-07-20, \$5,000,000 property; crops not reported (2008 dollars)	Event records naming jurisdictions in the plan: Sioux City city (55 records), Salix city (32 records), Merville city (22 records), Sergeant Bluff city (16 records), Correctionville city (15 records), Sloan city (13 records), Lawton city (12 records), Anthon city (9 records), Pierson city (9 records), Danbury city (8 records); and 5 more jurisdictions (see the Excel file).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	60 records, 1953 to 2026	F/EF0 to F/EF4 (median F/EF0); 53 with a recorded value	F4 tornado, 1986-07-28, 11.5 mi path length (whole path, pre-1996), 73 yd wide, \$250,000,000 property; crops not recorded (1986 dollars), 1 direct injury		Event records naming jurisdictions in the plan: Salix city (5 records), Sergeant Bluff city (5 records), Bronson city (4 records), Sloan city (4 records), Pierson city (3 records), Hornick city (2 records), Merville city (2 records), Sioux City city (2 records), Anthon city (1 record), Correctionville city (1 record); and 4 more jurisdictions (see the Excel file).	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)	2 records, 2020 to 2026 (2 zone-level)		Wildfire, 2020-10-11, \$300,000 property; \$20,000 crops (2020 dollars); NWS zone IAZ031		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	153 records, 1996 to 2026 (153 zone- level)		Blizzard, 1997-01-09, \$50,000 property; crops not reported (1997 dollars), 3 direct injuries (reported for the zone); NWS zone IAZ031		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: 18 declarations covering 15 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
2025-05-21	2025-03-19	DR-4870-IA	Major disaster	Severe Winter Storm	Winter Weather	no Public Assistance recorded	in the 12 months before plan approval; within last 5 years	
2024-06-24	2024-06-16	DR-4796-IA	Major disaster	Severe Storms, Flooding, Straight-Line Winds, and Tornadoes	Inland Flooding; Strong Wind; Tornado	\$4,655,424.66	within last 5 years	
2020-03-23	2020-01-20	DR-4483-IA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$25,104,545.16		
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	\$14,117,183.42		
2018-08-20	2018-06-06	DR-4386-IA	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	\$311,070		
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	\$2,182,871.92		
2011-06-27	2011-05-25	DR-1998-IA	Major disaster	Flooding	Inland Flooding	\$3,221,253.70		
2010-02-25	2009-12-23	DR-1877-IA	Major disaster	Severe Winter Storms and Snowstorm	Winter Weather	\$406,255.87		
2007-03-30	2007-02-28	EM-3275-IA	Emergency	Snow	Winter Weather	\$218,830.38		
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		
1999-07-22	1999-07-02	DR-1282-IA	Major disaster	Severe Storms and Flooding	Inland Flooding	\$223,166.93		
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		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1990-05-26	1990-05-18	DR-868-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		
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: \$560,128.61 (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	19	0	1	8	0	0	1996 to 2026-06-30	
Drought	55	0	2	28	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	385	16	2	41	0	0	1955 to 2026-06-30	

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
Heat Wave	29	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	0	1	0	1996 to 2026-06-30	
Inland Flooding	83	0	0	9	11	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	4	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	411	22	22	101	3	0	1955 to 2026-06-30	Includes 42 High Wind and 8 Strong Wind records.
Tornado	60	3	0	8	3	0	1950 to 2026-06-30	
Wildfire	2	0	1	1	0	0	1996 to 2026-06-30	
Winter Weather	153	0	5	27	3	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
2025-12-09	High Wind	61 kt (70 mph) measured gust	damage not reported	0, 0	NWS zone IAZ031 (WOODBURY), zone-level	in the 12 months before plan approval; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2024-01-12	Extreme Cold/ Wind Chill		damage not reported	0, 0	NWS zone IAZ031 (WOODBURY), 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 IAZ031 (WOODBURY), zone-level	within last 5 years	B1-c worst recorded: Drought
2020-10-11	Wildfire		\$300,000 property; \$20,000 crops (zone total, 2020 dollars)	0, 0	NWS zone IAZ031 (WOODBURY), zone-level		B1-c worst recorded: Wildfire
2019-06-30	Heat		\$0 property; \$0 crops (zone total, 2019 dollars)	1, 0	NWS zone IAZ031 (WOODBURY), zone-level		deaths or injuries recorded
2012-07-18	Excessive Heat		\$0 property; \$0 crops (zone total, 2012 dollars)	0, 0	NWS zone IAZ031 (WOODBURY), zone-level		B1-c worst recorded: Excessive Heat, Heat
2001-08-02	Thunderstorm Wind	85 kt (98 mph) measured	\$5,000,000 property; crops not reported (2001 dollars)	0, 0	SIOUX CITY		B1-c worst recorded: Thunderstorm Wind
1999-07-02	Flash Flood		\$8,000,000 property; crops not reported (1999 dollars)	0, 2	SIOUX CITY		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1996-06-19	Hail	4.5 in	\$200,000 property; \$200,000 crops (1996 dollars)	0, 0	CUSHING		B1-c worst recorded: Hail
1986-07-28	Tornado	F4, 11.5 mi path length (whole path, pre-1996), 73 yd wide	\$250,000,000 property; crops not recorded (1986 dollars)	0, 1	location not recorded		B1-c worst recorded: Tornado
1986-07-24	Thunderstorm Wind	53 kt (61 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 16	location not recorded		deaths or injuries recorded
1973-06-18	Tornado	F2, 2 mi path length (whole path, pre-1996), 400 yd wide	\$250,000 property; crops not recorded (1973 dollars)	2, 10	location not recorded		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,205 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	6.47	event-days per year	about 6.47 days per year	Likely	Storm Events event- days in 12 of 30 years, 1996 to 2025 (40%)	123	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	34.8	event-days per year	about 34.8 days per year	Likely	Storm Events event- days in 10 of 30 years, 1996 to 2025 (33.3%)	1,232	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000517	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0517%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	6.02	events per year	about 6.02 per year	Highly likely	FEMA annualized frequency (modeled)	228.9 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	6.53	event-days per year	about 6.53 days per year	Likely	Storm Events event- days in 9 of 30 years, 1996 to 2025 (30%)	107	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	0.906	event-days per year	about 0.906 days per year	Likely	Storm Events event- days in 4 of 30 years, 1996 to 2025 (13.3%)	61	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	2.21	event-days per year	about 2.21 days per year	Likely	Storm Events event- days in 24 of 30 years, 1996 to 2025 (80%)	62	1996 to 2023 (28 years)	see B1-f	
Landslide	0.448	events per year (modeled)	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	41.9	days per year with a strike	about 41.9 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	4.2	events per year	about 4.2 per year	Highly likely	FEMA annualized frequency (modeled)	160	1986 to 2023 (38 years)	countywide	
Tornado	0.707	events per year	about 0.71 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	0.00314	annual probability at a location	chance a given location in the county burns in a year: 0.314%	Possible	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	
Winter Weather	14.8	event-days per year	about 14.8 days per year	Highly likely	Storm Events event- days in 30 of 30 years, 1996 to 2025 (100%)	282	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	169	30	5.63
Hail	2.00 in+	1996 to 2025	10	30	0.333
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	211	30	7.03
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	30	30	1
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	23	30	0.767
Tornado	EF2-3	1996 to 2025	2	30	0.0667
Tornado	EF4-5	1996 to 2025	1	30	0.0333
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	29 of 29	16.0	84.0	91.0	Relatively High 21, Relatively Moderate 7, Very Low 1
Drought	18 of 29	67.7	80.4	98.9	Relatively High 3, Relatively Moderate 1, Relatively Low 7, Very Low 7, No Rating 11
Earthquake	29 of 29	0.3	7.0	55.3	Relatively Low 1, Very Low 28
Hail	29 of 29	25.5	84.7	99.4	Very High 2, Relatively High 7, Relatively Moderate 19, Very Low 1
Heat Wave	29 of 29	1.6	68.7	79.9	Relatively Moderate 23, Relatively Low 5, Very Low 1
Hurricane	0 of 29				Not Applicable 29
Ice Storm	29 of 29	1.8	84.9	94.9	Relatively High 2, Relatively Moderate 25, Relatively Low 1, Very Low 1
Inland Flooding	29 of 29	0.2	37.6	98.4	Very High 1, Relatively High 2, Relatively Moderate 8, Relatively Low 14, Very Low 4
Landslide	29 of 29	9.3	75.7	97.2	Relatively Moderate 3, Relatively Low 10, Very Low 16
Lightning	29 of 29	0.3	42.8	62.2	Relatively Moderate 6, Relatively Low 21, Very Low 2
Strong Wind	29 of 29	6.0	77.0	97.0	Very High 1, Relatively High 8, Relatively Moderate 19, Very Low 1

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	29 of 29	5.0	96.8	99.8	Very High 23, Relatively High 5, Very Low 1
Wildfire	25 of 29	21.6	90.5	95.6	Relatively Moderate 16, Relatively Low 5, Very Low 4, No Rating 4
Winter Weather	29 of 29	16.3	78.5	97.7	Very High 1, Relatively High 13, Relatively Moderate 14, Very Low 1

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
Woodbury County	County	Approved, expires 2031-04-27	FMA RL 0, SRL 0; any 0	\$136,662.89	0 total; 0 since its plan	
Anthon city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$298,801.17	40 total; no approved plan	
Bronson city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$71,234.29	28 total; no approved plan	
Correctionville city	City	Approved, expires 2031-04-27	FMA RL 0, SRL 0; any 1	\$1,967,456.01	54 total; 5 since its plan	
Cushing city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$1,128.19	2 total; no approved plan	
Danbury city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$93,317.58	24 total; no approved plan	
Hornick city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$2,216,629.37	22 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>	
Lawton city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$65,335.35	24 total; no approved plan	
Moville city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$8,252.60	46 total; no approved plan	
Oto 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	21 total; no approved plan	
Pierson city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$3,994.46	36 total; no approved plan	
Salix city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$5,516.63	65 total; no approved plan	
Sergeant Bluff city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$229,355.47	47 total; no approved plan	Includes \$30,999.31 for declarations not counted as hazard incidents (DR-4483-IA).
Sioux City city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$13,890,341.36	171 total; no approved plan	Includes \$74,514.99 for declarations not counted as hazard incidents (DR-4483-IA).
Sloan city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$6,641.41	39 total; no approved plan	
Smithland city	City	Plan 111762 approved 2026-04-28, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$427,849.94	18 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 <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
Cold Wave	\$21,683,935,266	\$474,823,500	105,852	\$6,413	\$243,243	\$5,477,277	under 0.0001%				
Drought	n/a	\$133,305,474	n/a	n/a	\$1,717,369	n/a	1.29% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$38,173,282,834	n/a	105,941	\$66,406	n/a	\$17,306	0.000174%				
Hail	\$21,684,081,302	\$474,823,500	105,853	\$1,313,279	\$1,104,679	\$530,097	0.00606%				
Heat Wave	\$21,683,935,266	\$474,823,500	105,852	\$19,291	\$9	\$1,817,101	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$21,682,426,287	n/a	105,836	\$295,716	n/a	\$335,035	0.00136%				
Inland Flooding	\$21,666,133,867	\$74,500,859	1,796	\$17,944,929	\$135,113	\$97,674	n/a (see note)				NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$685,952,814	n/a	4,029	\$4,842	n/a	\$21,653	0.000706%				
Lightning	\$21,684,081,302	n/a	105,853	\$55,531	n/a	\$194,691	0.000256%				
Strong Wind	\$21,684,081,302	\$474,823,500	105,853	\$1,046,901	\$55,141	\$463,265	0.00483%				
Tornado	\$21,684,081,302	\$474,823,500	105,853	\$5,715,258	\$6,804	\$10,767,187	0.0264%				

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
Wildfire	\$2,497,600,782	\$125,130,501	13,990	\$842,118	\$3,396	\$86,334	0.0337%				
Winter Weather	\$21,683,935,266	\$474,823,500	105,852	\$245,555	\$678	\$47,197	0.00113%				

Totals since 2026-04-28 (Storm Events through 2026-06-30): 41 county-coded records, 0 with a damage value recorded (including \$0), \$0; 1 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	105,853
Building value (total, not at risk)	\$21,684,081,302
Agriculture value (total, not at risk)	\$474,823,500
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$30,822,670
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)	\$19,854,818
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: Correctionville 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>
Woodbury County	190536	0	0	0	0	0	0	0
Anthon city	190286	0	0	0	0	0	0	0
Bronson city	190287	0	0	0	0	0	0	0
Correctionville city	190288	0	0	1	0	1	0	0
Cushing city	190289	0	0	0	0	0	0	0
Danbury city	190290	0	0	0	0	0	0	0
Hornick city	190291	0	0	0	0	0	0	0
Lawton city	190292	0	0	0	0	0	0	0
Moville city	190293	0	0	0	0	0	0	0
Oto city	190294	0	0	0	0	0	0	0
Pierson city	190295	0	0	0	0	0	0	0
Salix city	190296	0	0	0	0	0	0	0
Sergeant Bluff city	190297	0	0	0	0	0	0	0
Sioux City city	190298	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>
Sloan city	190299	0	0	0	0	0	0	0
Smithland city	190300	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/>
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_Gazetteer/2024_Gaz_cousubs_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (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). Woodbury County, IA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 19193). Automated baseline. <https://hazardplain.org/ia/19193/> 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