

Pierce County, NE

Risk-assessment baseline packet

County FIPS: 31139 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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Summary

Plan status as of 2026-09-30: Approved, expires 2030-08-11. Plan: Lower Elkhorn NRD (FEMA plan 110783), approved 2025-08-12.
Since the plan was approved on 2025-08-12: no new federal declaration.
NOAA Storm Events records since that date: 16 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$3,570,965 a year), Tornado (\$1,314,482) and Hail (\$1,265,419).
Repetitive-loss flood properties now: FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0.
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; 31139 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.

CONTENTS

1. Summary and terms used, page 1
2. Plan clock, page 2
3. What changed since your last plan (approved 2025-08-12), page 2
4. Supports FEMA checklist item B1-a: hazard identification, page 4
5. Supports FEMA checklist item B1-b: hazard location, page 5
6. Supports FEMA checklist item B1-c: hazard extent, page 6
7. Supports FEMA checklist item B1-d: previous occurrences, page 8
8. Supports FEMA checklist item B1-e: probability of future events, page 12
9. Supports FEMA checklist item B1-f: hazards that vary across jurisdictions, page 14
10. Supports FEMA checklist items B2-a and B2-b: vulnerability and potential impacts, page 15
11. Supports FEMA checklist item B2-a: vulnerability (county context), page 17
12. Supports FEMA checklist item B2-c: repetitive loss properties, page 17
13. Sources, what the plan adds, disclaimer and citation, page 18

Plan clock

Status:	Approved, expires 2030-08-11	Plan:	Lower Elkhorn NRD (FEMA plan 110783)
Approved:	2025-08-12	Days to expiry:	1,411

What changed since your last plan (approved 2025-08-12)

New federal declarations:	none	Storm Events records since approval:	16 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0	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

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Pierce County	County	Approved, expires 2030-08-11	Lower Elkhorn NRD (FEMA plan 110783)	2025-08-12	2030-08-11	1,411		this jurisdiction approved 2025-10-02
Hadar village	Village	Approved, expires 2030-08-11	Lower Elkhorn NRD (FEMA plan 110783)	2025-08-12	2030-08-11	1,411		this jurisdiction approved 2025-10-02
McLean village	Village	Approved, expires 2030-08-11	Lower Elkhorn NRD (FEMA plan 110783)	2025-08-12	2030-08-11	1,411		this jurisdiction approved 2025-10-02
Osmond city	City	Approved, expires 2030-08-11	Lower Elkhorn NRD (FEMA plan 110783)	2025-08-12	2030-08-11	1,411		this jurisdiction approved 2025-10-02
Pierce city	City	Approved, expires 2030-08-11	Lower Elkhorn NRD (FEMA plan 110783)	2025-08-12	2030-08-11	1,411		this jurisdiction approved 2025-10-02
Plainview city	City	Approved, expires 2030-08-11	Lower Elkhorn NRD (FEMA plan 110783)	2025-08-12	2030-08-11	1,411		this jurisdiction approved 2025-10-02
Neligh-Oakdale Schools	School/School District	Approved, expires 2028-10-24	Tri County NRD HMP (FEMA plan 109360)	2023-10-25	2028-10-24	755		this jurisdiction approved 2024-03-05
Norfolk Public Schools	School/School District	Approved, expires 2030-08-11	Lower Elkhorn NRD (FEMA plan 110783)	2025-08-12	2030-08-11	1,411		this jurisdiction approved 2025-10-02
Randolph Public Schools	School/School District	Approved, expires 2030-08-11	Lower Elkhorn NRD (FEMA plan 110783)	2025-08-12	2030-08-11	1,411		this jurisdiction approved 2025-10-02
Hadar Fire Department	Fire/EMS District	Plan 110783 approved 2025-08-12, pending adoption here; not yet eligible	Lower Elkhorn NRD (FEMA plan 110783), pending adoption here	2025-08-12 by FEMA; not yet adopted here	2030-08-11 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Northeast Nebraska Public Health Dept	Hospital/Medical Facility	Approved, expires 2030-08-11	Lower Elkhorn NRD (FEMA plan 110783)	2025-08-12	2030-08-11	1,411		this jurisdiction approved 2025-10-02
Pierce Fire Dept	Fire/EMS District	Plan 110783 approved 2025-08-12, pending adoption here; not yet eligible	Lower Elkhorn NRD (FEMA plan 110783), pending adoption here	2025-08-12 by FEMA; not yet adopted here	2030-08-11 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Plan 110783 lists 74 other participants not on this page, 8 of them not covered by it yet (named in the Excel file).

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

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>	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Inland Flooding	Very Low	Very Low	\$3,557,069	\$13,508	\$389	\$3,570,965	20		
2	Tornado	Relatively Low	Relatively Low	\$685,208	\$10,801	\$618,473	\$1,314,482	10		
3	Hail	Relatively Moderate	Relatively Moderate	\$235,875	\$1,021,427	\$8,118	\$1,265,419	107		
4	Drought	Relatively Moderate	Relatively Moderate	n/a	\$852,371	n/a	\$852,371	22		
5	Strong Wind	Relatively Low	Relatively Low	\$196,482	\$175,790	\$100,763	\$473,035	79		Includes 25 High Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
6	Cold Wave	Very Low	Relatively Low	\$415	\$1,576	\$316,335	\$318,326	56		
7	Wildfire	Relatively Low	Relatively Low	\$194,794	\$354	\$5,315	\$200,463	1		
8	Ice Storm	Relatively Low	Relatively Moderate	\$83,800	n/a	\$51,962	\$135,762	2		
9	Winter Weather	Relatively Low	Relatively Moderate	\$48,866	\$485	\$54,568	\$103,920	84		
10	Lightning	Very Low	Very Low	\$5,494	n/a	\$56,445	\$61,939	2		
11	Heat Wave	Very Low	Very Low	\$13,759	\$4	\$44,627	\$58,390	12		

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
12	Earthquake	Very Low	Very Low	\$10,935	n/a	\$685	\$11,620			Storm Events does not record earthquakes.
13	Landslide	Very Low	Very Low	\$5	n/a	\$181	\$187	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-3245-NE 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 9792 (Very Low, 22.1); tract 9791 (Very Low, 16.6)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 9791 (Relatively Low, 81.6); tract 9792 (Very Low, 77.1)
Tornado	tract 9792 (Very High, 97.7); tract 9791 (Very High, 96.5)
Wildfire	tract 9792 (Relatively Moderate, 95.0); tract 9791 (Relatively Moderate, 93.9)

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 9792 is Census Tract 9792). 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	56 records, 1996 to 2026 (56 zone-level)	1 day to 5 days (median 2 days); 49 with a recorded value	5 consecutive days, 2024-01-12 to 2024-01-16, zone-level		Countywide (zone-level records).	Wind chill: in event narratives only (local data needed). Cold/ Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					Temperature: in event narratives only (local data needed).
Drought	U.S. Drought Monitor scale (D0 to D4)	22 records, 1999 to 2026 (22 zone-level)	22 days to 316 days (median 91 days); 5 with a recorded value	316 days (about 10.4 months), 2012-07-17 to 2013-05-28, a run of 11 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.
Hail	hail size (inches)	140 records, 1956 to 2026	0.75 in to 3.25 in (median 1 in); 140 with a recorded value	3.25 in hail, 2024-08-26	Hail, 1996-07-01, property not reported; \$1,000,000 crops (1996 dollars)	Event records naming jurisdictions in the plan: Pierce city (50 records), Plainview city (16 records), Osmond city (14 records), Hadar village (13 records).	
Excessive Heat, Heat	heat index (in event narratives)	12 records, 1999 to 2025 (12 zone-level)	1 day to 12 days (median 3 days); 12 with a recorded value	12 consecutive days, 1999-07-19 to 1999-07-30, zone-level		Countywide (zone-level records).	Heat index: in event narratives only (local data needed).
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)	2 records, 2007 to 2017 (2 zone-level)		No damage reported in 2 records.		Countywide (zone-level records).	Ice thickness: in event narratives only (local data needed).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	20 records, 1996 to 2021 (2 zone-level)		Flash Flood, 2019-03-13, \$475,000 property; \$0 crops (2019 dollars)		Event records naming jurisdictions in the plan: Pierce city (8 records), Osmond city (5 records), Plainview city (4 records), Hadar village (3 records). Zone-level records (2) 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					Physical measure: in event narratives only (local data needed).
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	2 records, 1997		Lightning, 1997-06-19, \$28,000 property; crops not reported (1997 dollars)		Event records naming jurisdictions in the plan: Pierce city (1 record), Plainview city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	25 records, 1996 to 2026 (25 zone-level)	42 kt (48 mph) to 56 kt (64 mph) (median 50 kt (58 mph)); 25 with a recorded value	56 kt (64 mph), measurement type not recorded, High Wind, 1997-11-02; NWS zone NEZ017	High Wind, 1996-10-26, \$5,000 property; crops not reported, reported for the zone (1996 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	89 records, 1957 to 2026	50 kt (58 mph) to 87 kt (100 mph) (median 55 kt (63 mph)); 66 with a recorded value	87 kt (100 mph), measurement type not recorded, Thunderstorm Wind, 1985-04-19	Thunderstorm Wind, 1994-04-25, \$500,000 property; crops not recorded (1994 dollars)	Event records naming jurisdictions in the plan: Pierce city (22 records), Plainview city (14 records), Osmond city (13 records), Hadar village (2 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	28 records, 1953 to 2017	F/EF0 to F/EF4 (median F/EF0); 26 with a recorded value	F4 tornado, 1975-05-06, 4.1 mi path length (whole path, pre-1996), 300 yd wide, damage not recorded (pre-1996 record)	Tornado, 1962-05-21, \$2,500,000 property; crops not recorded (1962 dollars)	Event records naming jurisdictions in the plan: Pierce city (6 records), Plainview city (3 records), Hadar village (1 record), Osmond 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).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Wildfire	acres burned (local data)	1 record, 2012 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	Acres burned: in event narratives only (local data needed).
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	84 records, 1996 to 2026 (84 zone-level)		Winter Storm, 2006-12-30, \$750,000 property; \$0 crops (2006 dollars); NWS zone NEZ017		Countywide (zone-level records).	Snow depth: in event narratives only (local data needed).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records whose zone 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: 17 declarations covering 14 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
2022-07-27	2022-05-12	DR-4662-NE	Major disaster	Severe Storms and Straight-Line Winds	Strong Wind	no Public Assistance recorded	within last 5 years	
2020-04-04	2020-01-20	DR-4521-NE	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$57,523.66		
2020-03-13	2020-01-20	EM-3483-NE	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4521
2019-03-21	2019-03-09	DR-4420-NE	Major disaster	Severe Winter Storm, Straight-Line Winds, and Flooding	Inland Flooding (primary); also designated: Strong Wind, Winter Weather	\$4,190,047.45		
2018-06-29	2018-04-13	DR-4375-NE	Major disaster	Severe Winter Storm and Straight- Line Winds	Winter Weather (primary); also designated: Strong Wind	no Public Assistance recorded		
2010-07-15	2010-06-01	DR-1924-NE	Major disaster	Severe Storms and Flooding	Inland Flooding	\$8,460.36		
2010-04-21	2010-03-06	DR-1902-NE	Major disaster	Severe Storms, Ice Jams, and Flooding	Inland Flooding	no Public Assistance recorded		
2010-02-25	2009-12-22	DR-1878-NE	Major disaster	Severe Winter Storms and Snowstorm	Winter Weather	no Public Assistance recorded		
2007-01-07	2006-12-19	DR-1674-NE	Major disaster	Severe Winter Storms	Winter Weather	\$87,672.35		
2006-01-26	2005-11-27	DR-1627-NE	Major disaster	Severe Winter Storm	Winter Weather	\$54,375.03		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2005-09-13	2005-08-29	EM-3245-NE	Emergency	Hurricane Katrina Evacuees	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2004-05-25	2004-05-20	DR-1517-NE	Major disaster	Severe Storms, Tornadoes and Flooding	Inland Flooding; Tornado	\$25,538.25		
2003-07-21	2003-06-09	DR-1480-NE	Major disaster	Severe Storms and Tornadoes	Tornado	no Public Assistance recorded		
1978-03-24	1978-03-24	DR-552-NE	Major disaster	Storms, Ice Jams, Snowmelt & Flooding	Inland Flooding	no Public Assistance recorded		
1971-07-07	1971-07-07	DR-308-NE	Major disaster	Floods	Inland Flooding	no Public Assistance recorded		
1971-02-23	1971-02-23	DR-303-NE	Major disaster	Floods	Inland Flooding	no Public Assistance recorded		
1967-07-18	1967-07-18	DR-228-NE	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		

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
1964-07-20	1964-07-20	DR-174-NE	Major disaster	Severe Storms & Flooding	Inland Flooding
1963-07-17	1963-07-17	DR-156-NE	Major disaster	Heavy Rains & Flooding	Inland Flooding
1962-09-05	1962-09-05	DR-134-NE	Major disaster	Floods	Inland Flooding
1962-05-10	1962-05-10	DR-131-NE	Major disaster	Floods	Inland Flooding
1960-04-04	1960-04-04	DR-98-NE	Major disaster	Floods	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 Nebraska county: 7 rows, \$3,747,676.55; listed on the Nebraska 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	56	1	2	5	0	0	1996 to 2026-06-30	
Drought	22	5	3	8	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	140	3	6	16	0	0	1955 to 2026-06-30	
Heat Wave	12	0	3	4	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	2	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	20	0	0	0	8	0	1996 to 2026-06-30	
Landslide	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	2	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	114	6	3	16	3	0	1955 to 2026-06-30	Includes 25 High Wind records.
Tornado	28	0	0	0	2	0	1950 to 2026-06-30	
Wildfire	1	0	0	0	0	0	1996 to 2026-06-30	
Winter Weather	84	1	0	11	5	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2024-08-26	Hail	3.25 in	damage not reported	0, 0	OSMOND	in the 12 months before plan approval; within last 5 years	B1-c worst recorded: Hail
2024-01-12	Extreme Cold/ Wind Chill		damage not reported	0, 0	NWS zone NEZ017 (PIERCE), zone-level	within last 5 years	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2019-03-13	Flash Flood		\$475,000 property; \$0 crops (2019 dollars)	0, 0	PIERCE		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2012-07-17	Drought		\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone NEZ017 (PIERCE), zone-level		B1-c worst recorded: Drought
2006-12-30	Winter Storm		\$750,000 property; \$0 crops, reported for the zone (2006 dollars)	0, 0	NWS zone NEZ017 (PIERCE), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
1999-07-19	Heat		damage not reported	0, 0	NWS zone NEZ017 (PIERCE), zone-level		B1-c worst recorded: Excessive Heat, Heat
1997-11-02	High Wind	56 kt (64 mph), measurement type not recorded	damage not reported	0, 0	NWS zone NEZ017 (PIERCE), zone-level		B1-c worst recorded: High Wind and Strong Wind
1997-06-19	Lightning		\$28,000 property; crops not reported (1997 dollars)	0, 0	PLAINVIEW		B1-c worst recorded: Lightning
1985-04-19	Thunderstorm Wind	87 kt (100 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind
1975-05-06	Tornado	F4, 4.1 mi path length (whole path, pre-1996), 300 yd wide	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Tornado
1962-05-21	Tornado	F3, 28.5 mi path length (whole path, pre-1996), 500 yd wide	\$2,500,000 property; crops not recorded (1962 dollars)	0, 0	location not recorded		B1-c most damaging: Tornado
1953-06-07	Tornado	F2, 12.1 mi path length (whole path, pre-1996), 33 yd wide	\$25,000 property; crops not recorded (1953 dollars)	0, 2	location not recorded		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (481 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	6.26	event-days per year	about 6.26 days per year	Likely (from Storm Events: 22 of 30 years)	event-days in 22 of 30 years, 1996 to 2025 (73.3%)	119	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	34.9	event-days per year	about 34.9 days per year	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	973	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000611	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0611%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	5.83	events per year	about 5.83 per year	Highly likely	FEMA annualized frequency (modeled)	221.7 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	4.21	event-days per year	about 4.21 days per year	Likely (from Storm Events: 8 of 30 years)	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	72	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	0.974	event-days per year	about 0.974 days per year	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	66	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.607	event-days per year	about 0.607 days per year	Likely (from Storm Events: 14 of 30 years)	event-days in 14 of 30 years, 1996 to 2025 (46.7%)	17	1996 to 2023 (28 years)	see B1-f	
Landslide	0.0715	events per year (modeled)	about 1 in 14 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	40.7	days per year with a strike	about 40.7 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	3.04	events per year	about 3.04 per year	Highly likely	FEMA annualized frequency (modeled)	116	1986 to 2023 (38 years)	countywide	
Tornado	0.401	events per year	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	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	0.00104	annual probability at a location	chance a given location in the county burns in a year: 0.104%	Possible (from Storm Events: 1 of 30 years)	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	16.3	event-days per year	about 16.3 days per year	Highly likely (from Storm Events: 27 of 30 years)	event-days in 27 of 30 years, 1996 to 2025 (90%)	309	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	61	30	2.03
Hail	2.00 in+	1996 to 2025	10	30	0.333
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	47	30	1.57
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	6	30	0.2
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	10	30	0.333
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	2 of 2	75.3	76.8	78.2	Relatively High 1, Relatively Moderate 1
Drought	2 of 2	98.0	98.4	98.7	Relatively High 2
Earthquake	2 of 2	16.6	19.3	22.1	Very Low 2
Hail	2 of 2	98.3	99.0	99.7	Very High 2
Heat Wave	2 of 2	36.5	38.7	40.8	Relatively Low 2
Hurricane	0 of 2				Not Applicable 2
Ice Storm	2 of 2	94.7	95.0	95.3	Relatively High 2
Inland Flooding	2 of 2	88.5	90.7	92.9	Relatively High 2
Landslide	2 of 2	77.1	79.4	81.6	Relatively Low 1, Very Low 1
Lightning	2 of 2	78.1	79.4	80.7	Relatively High 2
Strong Wind	2 of 2	96.3	97.5	98.7	Very High 1, Relatively High 1

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	2 of 2	96.5	97.1	97.7	Very High 2
Wildfire	2 of 2	93.9	94.4	95.0	Relatively Moderate 2
Winter Weather	2 of 2	98.0	98.2	98.5	Very High 2

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

Hail: Agriculture is 81% 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).

This county has 2 census tracts; the minimum, median and maximum come from those 2.

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place
			<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>
Pierce County	County	Approved, expires 2030-08-11	FMA RL 0, SRL 0; any 0	\$2,829,218.55	0 total; 0 since its plan
Hadar village	Village	Approved, expires 2030-08-11	FMA RL 0, SRL 0; any 0	\$165,799.08	19 total; 3 since its plan
McLean village	Village	Approved, expires 2030-08-11	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan
Osmond city	City	Approved, expires 2030-08-11	FMA RL 0, SRL 0; any 0	\$500,248.04	33 total; 1 since its plan
Pierce city	City	Approved, expires 2030-08-11	FMA RL 0, SRL 0; any 0	\$689,084.49	87 total; 0 since its plan
Plainview city	City	Approved, expires 2030-08-11	FMA RL 0, SRL 0; any 0	\$175,121.82	38 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 2025-08-12 <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	\$2,502,947,636	\$328,889,239	7,312	\$415	\$1,576	\$316,335	under 0.0001%		\$0		
Drought	n/a	\$117,240,204	n/a	n/a	\$852,371	n/a	0.727% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$4,123,444,860	n/a	7,317	\$10,935	n/a	\$685	0.000265%				
Hail	\$2,502,947,636	\$328,889,239	7,312	\$235,875	\$1,021,427	\$8,118	0.00942%	\$0			
Heat Wave	\$2,502,947,636	\$328,889,239	7,312	\$13,759	\$4	\$44,627	0.00055%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$2,502,947,636	n/a	7,312	\$83,800	n/a	\$51,962	0.00335%				
Inland Flooding	\$2,502,166,528	\$21,351,313	95	\$3,557,069	\$13,508	\$389	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	\$4,825,336	n/a	14	\$5	n/a	\$181	0.000113%				
Lightning	\$2,502,947,636	n/a	7,312	\$5,494	n/a	\$56,445	0.00022%				
Strong Wind	\$2,502,947,636	\$328,889,239	7,312	\$196,482	\$175,790	\$100,763	0.00785%	\$0	\$0		
Tornado	\$2,502,947,636	\$328,889,239	7,312	\$685,208	\$10,801	\$618,473	0.0274%				
Wildfire	\$645,511,328	\$82,598,576	1,996	\$194,794	\$354	\$5,315	0.0302%				
Winter Weather	\$2,502,947,636	\$328,889,239	7,312	\$48,866	\$485	\$54,568	0.00195%		\$0		

Totals since 2025-08-12 (Storm Events through 2026-06-30): 4 county-coded records, 4 with a damage value recorded (including \$0), \$0; 12 zone-level records, 12 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	7,312
Building value (total, not at risk)	\$2,502,947,636
Agriculture value (total, not at risk)	\$328,889,239
NRI risk rating (all hazards)	Very Low
Expected annual loss, buildings and agriculture, all hazards	\$7,109,019
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)	\$1,257,860
Social vulnerability rating	Very Low
Community resilience rating	Relatively Moderate
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	0	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	0	0	0	0	0
Statewide, no county in FEMA's file	0	0	2	0	2	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>
Pierce County	310466	0	0	0	0	0	0	0
Hadar village	315281	0	0	0	0	0	0	0
McLean village	315538	0	0	0	0	0	0	0
Osmond city	310395	0	0	0	0	0	0	0
Pierce city	310174	0	0	0	0	0	0	0
Plainview city	310175	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: 0 in every occupancy group.

Sources: 1, 4

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 0 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):

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3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
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What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment, organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B. Each section heading names the item its tables support; the plan and FEMA's review decide whether the 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.

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

Hazard Plain release 2026-10. As of 2026-09-30; Storm Events data through 2026-06-30. Automated baseline.