

Choctaw County, OK

Risk-assessment baseline packet

County FIPS: 40023 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: No approved plan on record.
Update: FEMA tracker shows a plan awaiting revisions.
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Tornado (\$2,336,748 a year), Drought (\$2,159,602) and Inland Flooding (\$1,781,793).
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; 40023 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:	No approved plan on record	Plan:	none
Approved:	none	Expires:	none
Update underway:	FEMA tracker shows a plan awaiting revisions		

FEMA's plan status data lists no approved plan for this jurisdiction.

What changed since your last plan

Not available. No approved plan on record, so there is no approval date to count from.

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
Choctaw County	County	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	
Boswell town	Town	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	
Fort Towson town	Town	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	
Hugo city	City	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	
Sawyer town	Town	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	
Soper town	Town	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	
Boswell Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	
Fort Towson Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	
Hugo Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	
Soper Public Schools	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	
Valliant Public Schools	School/School District	Plan 105037 approved 2023-03-22, pending adoption here; not yet eligible	McCurtain County (FEMA plan 105037), pending adoption here	2023-03-22 by FEMA; not yet adopted here	2028-03-21 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Kiamichi Technology Center	College/University	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	

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>	Storm Events coverage note
1	Tornado	Relatively Moderate	Relatively Moderate	\$509,105	\$900	\$1,826,743	\$2,336,748	14	
2	Drought	Relatively High	Relatively High	n/a	\$2,159,602	n/a	\$2,159,602	75	
3	Inland Flooding	Very Low	Very Low	\$1,605,289	\$21,839	\$154,665	\$1,781,793	32	
4	Heat Wave	Relatively Moderate	Relatively Low	\$428	\$383	\$1,173,158	\$1,173,969	32	
5	Ice Storm	Relatively High	Relatively High	\$516,951	n/a	\$3,263	\$520,214	7	
6	Cold Wave	Relatively Low	Relatively Low	\$3,347	\$48	\$425,501	\$428,896	2	
7	Hail	Relatively Low	Relatively Low	\$251,027	\$709	\$18,184	\$269,921	139	
8	Strong Wind	Relatively Low	Relatively Low	\$117,245	\$74	\$120,153	\$237,472	135	Includes 3 High Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
9	Earthquake	Very Low	Very Low	\$88,362	n/a	\$37,443	\$125,805		Storm Events does not record earthquakes.
10	Wildfire	Relatively Low	Very Low	\$43,866	\$375	\$24,738	\$68,979	9	
11	Lightning	Relatively Low	Very Low	\$6,171	n/a	\$46,156	\$52,326	4	
12	Winter Weather	Relatively Low	Relatively Low	\$18,959	\$361	\$10,263	\$29,583	19	

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
13	Hurricane	Very Low	Very Low	\$15,991	\$6,937	\$540	\$23,467	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$68	n/a	\$13	\$81	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

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

Local data needed: state and local landslide 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, tsunامي 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 9671 (Relatively Low, 69.7); tract 9672 (Relatively Low, 52.7); tract 9673 (Relatively Low, 50.4)
Hurricane	tract 9671 (Relatively Low, 52.1); tract 9673 (Very Low, 50.2); tract 9670 (Very Low, 50.0)
Landslide	tract 9669 (Very Low, 78.5); tract 9673 (Very Low, 73.1); tract 9670 (Very Low, 68.8)
Tornado	tract 9671 (Very High, 99.6); tract 9673 (Very High, 97.7); tract 9670 (Very High, 97.5)
Wildfire	tract 9673 (Relatively Moderate, 89.6); tract 9670 (Relatively Moderate, 88.6); tract 9671 (Relatively Low, 88.2)

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 9671 is Census Tract 9671). 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	2 records, 1996 (2 zone-level)	3 days to 5 days (median 4 days); 2 with a recorded value	5 consecutive days, 1996-02-01 to 1996-02-05, zone-level		Countywide (zone-level records).	Wind chill: in event narratives only (local data needed).
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)	75 records, 1998 to 2026 (75 zone-level)	26 days to 308 days (median 137 days); 16 with a recorded value	308 days (about 10.1 months), 2012-06-19 to 2013-04-22, a run of 11 consecutive Storm Events drought records, zone-level	Drought, 1998-07-06, property not reported; \$500,000,000 crops, reported for the zone (1998 dollars) (as recorded; larger than this county's annual agriculture value in the National Risk Index (the county or state extension service keeps crop loss records))	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)	200 records, 1956 to 2026 (2 zone-level)	0.75 in to 3 in (median 1 in); 200 with a recorded value	3 in hail, 2008-03-31	Hail, 2026-04-18, \$50,000 property; \$0 crops (2026 dollars)	Event records naming jurisdictions in the plan: Hugo city (30 records), Boswell town (27 records), Soper town (11 records), Fort Towson town (10 records), Sawyer town (4 records). Zone-level records (2) apply countywide.	
Excessive Heat, Heat	heat index (in event narratives)	32 records, 1998 to 2024 (32 zone-level)	1 day to 28 days (median 3 days); 29 with a recorded value	28 consecutive days, 2011-07-14 to 2011-08-10, 1 direct death, 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.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Ice Storm	Sperry-Piltz ice scale (local data)	7 records, 1996 to 2014 (7 zone-level)		Ice Storm, 2013-12-05, \$1,100,000 property; \$0 crops (2013 dollars); NWS zone OKZ053		Countywide (zone-level records).	Ice thickness: in event narratives only (local data needed).
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	32 records, 1996 to 2026		Flash Flood, 2002-03-19, \$100,000 property; crops not reported (2002 dollars)		Event records naming jurisdictions in the plan: Hugo city (11 records), Soper town (4 records), Fort Towson town (2 records), Boswell town (1 record).	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)	4 records, 1997 to 2005		Lightning, 2005-09-28, \$75,000 property; crops not reported (2005 dollars)		Event records naming jurisdictions in the plan: Hugo city (2 records), Boswell town (1 record), Fort Towson town (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)	3 records, 1996 to 2008 (3 zone-level)	45 kt (52 mph) to 56 kt (64 mph) (median 50.5 kt (58 mph)); 2 with a recorded value	56 kt (64 mph) estimated gust, High Wind, 2008-01-29; NWS zone OKZ053		Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	164 records, 1966 to 2026 (2 zone-level)	50 kt (58 mph) to 74 kt (85 mph) (median 61 kt (70 mph)); 108 with a recorded value	74 kt (85 mph) estimated gust, Thunderstorm Wind, 2013-03-31	Thunderstorm Wind, 2008-06-14, \$480,000 property; \$0 crops (2008 dollars)	Event records naming jurisdictions in the plan: Hugo city (41 records), Boswell town (22 records), Fort Towson town (20 records), Soper town (7 records), Sawyer town (4 records). Zone-level records (2) apply countywide.	Speeds under 20 kt (likely entry errors) are left out of the observed range.
Tornado	Enhanced Fujita (Fujita before Feb 2007)	31 records, 1954 to 2026	F/EF0 to F/EF5 (median F/EF1); 27 with a recorded value	F5 tornado, 1982-04-02, 22 mi path length (whole path, pre-1996), 500 yd wide, \$2,500,000 property; crops not recorded (1982 dollars), 25 direct injuries	Tornado, 2016-05-09, \$3,000,000 property; \$0 crops (2016 dollars)	Event records naming jurisdictions in the plan: Hugo city (2 records), Soper town (2 records), Fort Towson town (1 record), Sawyer town (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)	9 records, 2005 to 2024 (9 zone-level)		Wildfire, 2005-12-27, \$500,000 property; crops not reported (2005 dollars), 2 direct injuries (reported for the zone); NWS zone OKZ053		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)	19 records, 1996 to 2026 (19 zone-level)		Winter Storm, 2007-01-12, \$162,000 property; \$0 crops (2007 dollars); NWS zone OKZ053		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: 22 declarations covering 17 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

No approved plan on record, so there is no approval date to count from.

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2023-07-19	2023-06-14	DR-4721-OK	Major disaster	Severe Storms, Straight-Line Winds, and Tornadoes	Strong Wind; Tornado	no Public Assistance recorded	within last 5 years	
2021-02-24	2021-02-08	DR-4587-OK	Major disaster	Severe Winter Storms	Ice Storm	no Public Assistance recorded		
2021-02-17	2021-02-08	EM-3555-OK	Emergency	Severe Winter Storm	Ice Storm	no Public Assistance recorded		same incident as DR-4587
2020-04-05	2020-01-20	DR-4530-OK	Major disaster	COVID-19 Pandemic	Non-natural, not counted	no Public Assistance recorded		
2020-03-13	2020-01-20	EM-3462-OK	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4530
2015-05-26	2015-05-05	DR-4222-OK	Major disaster	Severe Storms, Tornadoes, Straight- Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	\$485,700.43		
2014-01-30	2013-12-05	DR-4164-OK	Major disaster	Severe Winter Storm	Winter Weather	\$524,336.66		
2011-02-02	2011-01-31	EM-3316-OK	Emergency	Severe Winter Storm	Winter Weather	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>		
2010-01-30	2010-01-28	EM-3308-OK	Emergency	Severe Winter Storm	Winter Weather	no Public Assistance recorded		
2008-07-09	2008-06-03	DR-1775-OK	Major disaster	Severe Storms and Flooding	Inland Flooding	no Public Assistance recorded		
2007-12-10	2007-12-08	EM-3280-OK	Emergency	Severe Winter Storms	Ice Storm	no Public Assistance recorded		
2007-07-07	2007-06-10	DR-1712-OK	Major disaster	Severe Storms, Flooding, and Tornadoes	Inland Flooding; Tornado	\$139,817.97		
2007-01-14	2007-01-12	EM-3272-OK	Emergency	Severe Winter Storms and Flooding	Ice Storm	no Public Assistance recorded		
2006-01-10	2005-11-27	DR-1623-OK	Major disaster	Extreme Wildfire Threat	Wildfire	\$16,664.27		
2005-09-05	2005-08-29	EM-3219-OK	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2001-06-29	2001-05-27	DR-1384-OK	Major disaster	Severe Storms, Flooding, and Tornadoes	Inland Flooding; Tornado	\$40,717.61		
2001-01-05	2000-12-25	DR-1355-OK	Major disaster	Severe Winter Ice Storm	Ice Storm	\$631,837.10		
2000-12-28	2000-12-25	EM-3158-OK	Emergency	Severe Winter and Ice Storm	Ice Storm	no Public Assistance recorded		same incident as DR-1355
1990-05-18	1990-04-14	DR-866-OK	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	no Public Assistance recorded		
1973-06-13	1973-06-13	DR-392-OK	Major disaster	Severe Storms, Flooding, & Tornadoes	Inland Flooding; Tornado	no Public Assistance recorded		
1972-01-14	1972-01-14	DR-317-OK	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1968-05-29	1968-05-29	DR-241-OK	Major disaster	Heavy Rains & 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
1995-04-19	1995-04-19	EM-3115-OK	Emergency	Explosion at Federal Courthouse in Oklahoma City	Non-natural, not counted
1960-07-15	1960-07-15	DR-104-OK	Major disaster	Heavy Rains, Hail, Floods & Tornadoes	Hail; Inland Flooding; Tornado
1959-11-09	1959-11-09	DR-95-OK	Major disaster	Heavy Rains & Floods	Inland Flooding
1959-07-08	1959-07-08	DR-92-OK	Major disaster	Flood	Inland Flooding
1957-05-18	1957-05-18	DR-74-OK	Major disaster	Flood	Inland Flooding
1956-04-07	1956-04-07	DR-54-OK	Major disaster	Tornadoes	Tornado
1955-06-01	1955-06-01	DR-35-OK	Major disaster	Flood & Tornado	Inland Flooding (primary); also designated: Tornado

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.

13 Fire Management declarations (1971-04-08 to 2012-07-30) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

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	2			0	0		1996 to 2026-06-30	
Drought	75			28	0		1996 to 2026-06-30	
Earthquake	0			0	0			Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	200			7	0		1955 to 2026-06-30	
Heat Wave	32			11	0		1996 to 2026-06-30	
Hurricane	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	7			0	4		1996 to 2026-06-30	
Inland Flooding	32			2	8		1996 to 2026-06-30	
Landslide	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	4			0	0		1996 to 2026-06-30	
Strong Wind	167			22	2		1955 to 2026-06-30	Includes 3 High Wind records.

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
Tornado	31			3	6		1950 to 2026-06-30	
Wildfire	9			5	1		1996 to 2026-06-30	
Winter Weather	19			3	3		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	Why listed
2015-05-20	Flood		\$0 property; \$0 crops (2015 dollars)	1, 0	FALLON to HUGO	deaths or injuries recorded
2013-12-05	Ice Storm		\$1,100,000 property; \$0 crops, reported for the zone (2013 dollars)	0, 0	NWS zone OKZ053 (CHOCTAW), zone-level	B1-c worst recorded: Ice Storm
2013-03-31	Thunderstorm Wind	74 kt (85 mph) estimated gust	\$0 property; \$0 crops (2013 dollars)	0, 0	GRANT	B1-c worst recorded: Thunderstorm Wind
2012-06-19	Drought		\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone OKZ053 (CHOCTAW), zone-level	B1-c worst recorded: Drought
2011-08-01	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2011 dollars)	1, 0	NWS zone OKZ053 (CHOCTAW), zone-level	deaths or injuries recorded
2011-07-14	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone OKZ053 (CHOCTAW), zone-level	B1-c worst recorded: Excessive Heat, Heat
2008-03-31	Hail	3 in	property not reported; \$0 crops (2008 dollars)	0, 0	BOSWELL	B1-c worst recorded: Hail
2008-01-29	High Wind	56 kt (64 mph) estimated gust	\$5,000 property; \$0 crops, reported for the zone (2008 dollars)	0, 0	NWS zone OKZ053 (CHOCTAW), zone-level	B1-c worst recorded: High Wind and Strong Wind
2002-03-19	Flash Flood		\$100,000 property; crops not reported (2002 dollars)	0, 0	COUNTYWIDE	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1998-07-06	Heat		damage not reported	1, 0	NWS zone OKZ053 (CHOCTAW), zone-level	deaths or injuries recorded
1996-02-01	Cold/Wind Chill		damage not reported	0, 0	NWS zone OKZ053 (CHOCTAW), zone-level	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1982-04-02	Tornado	F5, 22 mi path length (whole path, pre-1996), 500 yd wide	\$2,500,000 property; crops not recorded (1982 dollars)	0, 25	location not recorded	B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (578 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	0.684	event-days per year	about 0.684 days per year	Possible (from Storm Events: 1 of 30 years)	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	13	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	41.7	event-days per year	about 41.7 days per year	Likely (from Storm Events: 15 of 30 years)	event-days in 15 of 30 years, 1996 to 2025 (50%)	1,330	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00147	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.147%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	5.03	events per year	about 5.03 per year	Highly likely	FEMA annualized frequency (modeled)	190.7 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	23.3	event-days per year	about 23.3 days per year	Likely (from Storm Events: 16 of 30 years)	event-days in 16 of 30 years, 1996 to 2025 (53.3%)	339	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0105	events per year	about 1 in 95 years	Possible	FEMA annualized frequency (modeled)	6	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	1.27	event-days per year	about 1.27 days per year	Likely (from Storm Events: 6 of 30 years)	event-days in 6 of 30 years, 1996 to 2025 (20%)	86	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.893	event-days per year	about 0.893 days per year	Likely (from Storm Events: 13 of 30 years)	event-days in 13 of 30 years, 1996 to 2025 (43.3%)	25	1996 to 2023 (28 years)	see B1-f	
Landslide	0.223	events per year (modeled)	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	59.6	days per year with a strike	about 59.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	2.93	events per year	about 2.93 per year	Highly likely	FEMA annualized frequency (modeled)	112	1986 to 2023 (38 years)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Tornado	0.533	events per year	about 0.53 per year	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.00231	annual probability at a location	chance a given location in the county burns in a year: 0.231%	Likely (from Storm Events: 5 of 30 years)	Storm Events records in 5 of 30 years, 1996 to 2025 (16.7%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	5	event-days per year	about 5 days per year	Likely (from Storm Events: 15 of 30 years)	event-days in 15 of 30 years, 1996 to 2025 (50%)	95	2005-11-12 to 2024-11-12 (19 years)	countywide	

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

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

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	69	30	2.3
Hail	2.00 in+	1996 to 2025	4	30	0.133
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	75	30	2.5
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	22	30	0.733
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	28	30	0.933
Tornado	EF0-1	1996 to 2025	8	30	0.267
Tornado	EF2-3	1996 to 2025	2	30	0.0667
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	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	5 of 5	69.6	72.1	81.6	Relatively High 1, Relatively Moderate 4
Drought	3 of 5	97.3	99.6	99.7	Relatively High 2, Relatively Moderate 1, No Rating 2
Earthquake	5 of 5	46.8	50.4	69.7	Relatively Low 5
Hail	5 of 5	85.1	87.1	94.3	Relatively High 1, Relatively Moderate 4
Heat Wave	5 of 5	94.7	95.3	96.9	Very High 1, Relatively High 4
Hurricane	5 of 5	47.8	50.0	52.1	Relatively Low 1, Very Low 4
Ice Storm	5 of 5	97.5	98.2	99.7	Very High 4, Relatively High 1
Inland Flooding	5 of 5	27.8	40.7	69.6	Relatively Moderate 2, Relatively Low 3
Landslide	5 of 5	22.0	68.8	78.5	Very Low 5
Lightning	5 of 5	55.2	57.7	73.2	Relatively Moderate 5
Strong Wind	5 of 5	83.2	84.0	92.7	Relatively High 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	5 of 5	97.1	97.5	99.6	Very High 5
Wildfire	5 of 5	84.6	88.2	89.6	Relatively Moderate 2, Relatively Low 3
Winter Weather	5 of 5	75.5	76.7	89.1	Relatively High 1, Relatively Moderate 4

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	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>
Choctaw County	County	No approved plan on record	FMA RL 0, SRL 0; any 0	\$1,290,293.12	0 total; no approved plan
Boswell town	Town	No approved plan on record	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	51 total; no approved plan
Fort Towson town	Town	No approved plan on record	FMA RL 0, SRL 0; any 0	\$97,894.21	34 total; no approved plan
Hugo city	City	No approved plan on record	FMA RL 0, SRL 0; any 0	\$365,592.56	86 total; no approved plan
Sawyer town	Town	No approved plan on record	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	9 total; no approved plan
Soper town	Town	No approved plan on record	FMA RL 0, SRL 0; any 0	\$58,472.80	24 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.

No approved plan on record, so there is no approval date to count from.

- 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 plan <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Cold Wave	\$2,315,400,639	\$60,503,021	14,133	\$3,347	\$48	\$425,501	0.000145%				
Drought	n/a	\$5,076,807	n/a	n/a	\$2,159,602	n/a	42.5% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$4,062,315,952	n/a	14,204	\$88,362	n/a	\$37,443	0.00218%				
Hail	\$2,315,404,200	\$60,503,021	14,133	\$251,027	\$709	\$18,184	0.0108%				
Heat Wave	\$2,315,400,639	\$60,503,021	14,133	\$428	\$383	\$1,173,158	under 0.0001%				
Hurricane	\$2,295,888,877	\$56,574,152	14,076	\$15,991	\$6,937	\$540	0.000696%				
Ice Storm	\$2,315,392,147	n/a	14,133	\$516,951	n/a	\$3,263	0.0223%				
Inland Flooding	\$2,314,128,385	\$3,419,590	144	\$1,605,289	\$21,839	\$154,665	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	\$5,620,829	n/a	44	\$68	n/a	\$13	0.00122%				
Lightning	\$2,315,404,200	n/a	14,133	\$6,171	n/a	\$46,156	0.000267%				
Strong Wind	\$2,315,404,200	\$60,503,021	14,133	\$117,245	\$74	\$120,153	0.00506%				
Tornado	\$2,315,404,200	\$60,503,021	14,133	\$509,105	\$900	\$1,826,743	0.022%				

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 plan <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Wildfire	\$209,985,570	\$23,113,973	3,979	\$43,866	\$375	\$24,738	0.0209%				
Winter Weather	\$2,315,400,639	\$60,503,021	14,133	\$18,959	\$361	\$10,263	0.000819%				

Totals since the plan: not available. No approved plan on record, so there is no approval date to count from.

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	14,133
Building value (total, not at risk)	\$2,315,404,200
Agriculture value (total, not at risk)	\$60,503,021
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$5,368,038
Expected annual loss, population equivalence, all hazards (NRI values each statistical life at \$13.7M; a modeled value of expected deaths and injuries, not property damage)	\$3,840,819
Social vulnerability rating	Very High
Community resilience rating	Very Low
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 total and NFIP communities

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

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>
Choctaw County	400470	0	0	0	0	0	0	0
Boswell town	400038	0	0	0	0	0	0	0
Fort Towson town	400039	0	0	0	0	0	0	0
Hugo city	400040	0	0	0	0	0	0	0
Sawyer town	400570	0	0	0	0	0	0	0
Soper town	400507	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)
 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_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_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_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_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scscd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scscd_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)
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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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Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Choctaw County, OK: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 40023). Automated baseline. <https://hazardplain.org/ok/40023/> 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

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