

Johnson County, TX

Risk-assessment baseline packet

Unit **County area 48251** Release **2026-10** As of **2026-09-28** 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.

A starting point for the plan's risk assessment (FEMA Local Mitigation Plan Review Tool, Element B). It does not replace local data or FEMA review. Section headings say which FEMA review item each table supports; whether an item is satisfied is decided by the plan and its reviewers.

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).

Plan clock

Status	Approved, expires 2029-06-12	Plan	Johnson County (FEMA plan 107118)
Approved	2024-06-13	Expires	2029-06-12
As of	2026-09-28	Days	988 days to expiry

What changed since your last plan (approved 2024-06-13)

New federal declarations	none (0 declaration rows; 0 counted incidents)	Storm Events records since approval	80 (data through 2026-06-30)
Repetitive loss now	FMA RL 3, SRL 4 (44 CFR 77.2); any definition: 40	Repeat-flood change	First release: no prior release to compare.

SOURCES: FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API); FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API); NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>; FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Johnson County	County	Approved, expires 2029-06-12	Johnson County (FEMA plan 107118)	2024-06-13	2029-06-12	988		
Alvarado city	City	Plan 107118 approved 2024-06-13, pending adoption here; not yet eligible	Johnson County (FEMA plan 107118), pending adoption here	2024-06-13 by FEMA; not yet adopted here	2029-06-12 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Burleson city	City	Approved, expires 2029-06-12	Johnson County (FEMA plan 107118)	2024-06-13	2029-06-12	988		member approved 2024-09-17
Cleburne city	City	Plan 107118 approved 2024-06-13, pending adoption here; not yet eligible	Johnson County (FEMA plan 107118), pending adoption here	2024-06-13 by FEMA; not yet adopted here	2029-06-12 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>		
Cresson city	City	Expired on 2026-06-03	Hood County (FEMA plan 106010)	2021-06-04	2026-06-03	-117		
Crowley city	City	Approved, expires 2030-12-22	Tarrant County (FEMA plan 110401)	2025-12-23	2030-12-22	1,546		member approved 2026-02-11
Godley city	City	Plan 107118 approved 2024-06-13, pending adoption here; not yet eligible	Johnson County (FEMA plan 107118), pending adoption here	2024-06-13 by FEMA; not yet adopted here	2029-06-12 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Joshua city	City	Plan 107118 approved 2024-06-13, pending adoption here; not yet eligible	Johnson County (FEMA plan 107118), pending adoption here	2024-06-13 by FEMA; not yet adopted here	2029-06-12 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Keene city	City	Plan 107118 approved 2024-06-13, pending adoption here; not yet eligible	Johnson County (FEMA plan 107118), pending adoption here	2024-06-13 by FEMA; not yet adopted here	2029-06-12 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Mansfield city	City	Approved, expires 2030-12-22	Tarrant County (FEMA plan 110401)	2025-12-23	2030-12-22	1,546		member approved 2026-02-11

SOURCE: FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

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

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Supports B1-a: hazards

Hazards NRI does not cover: check locally

- 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)

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Tornado	Relatively High	Relatively High	\$7,174,820	\$3,911	\$20,855,716	\$28,034,453	42		
2	Inland Flooding	Relatively Moderate	Relatively Moderate	\$20,724,456	\$122,992	\$2,346,753	\$23,194,201	119		
3	Cold Wave	Relatively Moderate	Relatively High	\$70,504	\$48,816	\$6,871,567	\$6,990,887	7		
4	Heat Wave	Relatively Moderate	Relatively Moderate	\$699	\$339	\$4,450,095	\$4,451,132	61		
5	Wildfire	Relatively Moderate	Relatively Moderate	\$3,063,408	\$1,237	\$341,653	\$3,406,298	9		
6	Hail	Relatively Moderate	Relatively Moderate	\$1,124,630	\$3,093	\$306,645	\$1,434,368	254		
7	Strong Wind	Relatively Moderate	Relatively Moderate	\$786,249	\$2,644	\$579,883	\$1,368,775	196		Includes 2 High Wind records and 2 Strong Wind records, event types the NRI definition of this hazard leaves out.
8	Lightning	Relatively Moderate	Relatively Moderate	\$42,763		\$666,060	\$708,823	10		
9	Ice Storm	Relatively Moderate	Relatively High	\$17,490		\$489,286	\$506,776	6		
10	Earthquake	Very Low	Relatively Low	\$232,798		\$97,393	\$330,191			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
11	Hurricane	Very Low	Very Low	\$89,289	\$25,127	\$5,383	\$119,799	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Drought	Relatively Low	Relatively Low		\$60,128		\$60,128	81		
13	Winter Weather	Relatively Low	Relatively Low	\$48,610	\$87	\$1,422	\$50,119	25		
14	Landslide	Very Low	Very Low	\$65		\$7	\$72	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Avalanche	Not Applicable	Not Applicable					0	NRI rates avalanche Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Coastal Flooding	Not Applicable	Not Applicable					0	NRI rates coastal flooding Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Check your state hazard mitigation plan's hazard list for this county; explain any hazard you drop.

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 39
Coastal Flooding	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 39
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	39 of 39
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	25 of 39
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	39 of 39
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	39 of 39
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	39 of 39
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	39 of 39
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	39 of 39
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.	39 of 39
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	38 of 39
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	39 of 39
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	39 of 39
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	39 of 39
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 39
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 39
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	39 of 39
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	39 of 39

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Supports B1-c: extent

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

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	7, 1997 to 2026 (7 zone-level)	1 day to 4 days (median 3 days); 7 with a recorded value	4 consecutive days, 2026-01-24 to 2026-01-27, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	0					Temperature: in event narratives only; local data required.
Drought	US Drought Monitor D-scale	81, 1996 to 2023 (81 zone-level)	6 days to 430 days (median 51.5 days); 20 with a recorded value	430 days (about 14.1 months), 2014-02-25 to 2015-04-30, a run of 15 consecutive Storm Events drought records, zone-level	Drought, 2006-10-01, \$500,000 property; \$500,000 crops, reported for the zone (2006 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	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					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	376, 1958 to 2026	0.75 in to 5 in (median 1 in); 376 with a recorded value	5 in hail, 1968-04-27	Hail, 2012-04-03, \$850,000 property; \$0 crops (2012 dollars)	Event records naming member places: Cleburne city (42 records), Godley city (33 records), Burleson city (30 records), Joshua city (26 records), Alvarado city (23 records), Keene city (8 records), Mansfield city (3 records).	
Excessive Heat, Heat	heat index (narratives)	61, 1998 to 2026 (61 zone-level)	1 day to 85 days (median 3 days); 37 with a recorded value	85 days, 2000-07-01 to 2000-09-23, from 3 monthly summary records (a monthly summary record covers most or all of a month; it does not count days at wave conditions), zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Ice Storm	Sperry-Piltz (local data)	6, 1998 to 2023 (6 zone- level)		Ice Storm, 2011-02-01, \$75,000 property; \$0 crops, reported for the zone (2011 dollars); NWS zone TXZ133 (JOHNSON), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: in event narratives only; local data required.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	119, 1996 to 2026		Flash Flood, 2015-05-29, \$1,500,000 property; \$0 crops (2015 dollars)		Event records naming member places: Cleburne city (30 records), Godley city (16 records), Mansfield city (13 records), Burleson city (11 records), Alvarado city (7 records), Joshua city (5 records), Keene city (2 records).	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	10, 1996 to 2024		Lightning, 2024-04-01, \$250,000 property; \$0 crops (2024 dollars)		Event records naming member places: Cleburne city (4 records), Burleson city (2 records), Keene city (2 records), Godley city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	4, 2006 to 2025 (4 zone- level)	40 kt (46 mph) to 54 kt (62 mph) (median 48.5 kt (56 mph)); 4 with a recorded value	54 kt (62 mph) measured gust, High Wind, 2022-05-13; NWS zone TXZ133 (JOHNSON), zone-level: may include parts of neighboring counties	Strong Wind, 2025-03-04, \$5,000 property; \$0 crops, reported for the zone (2025 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	292, 1955 to 2026	39 kt (45 mph) to 96 kt (110 mph) (median 55 kt (63 mph)); 209 with a recorded value	96 kt (110 mph) estimated sustained, Thunderstorm Wind, 2003-04-23		Event records naming member places: Cleburne city (34 records), Burleson city (29 records), Godley city (20 records), Alvarado city (19 records), Joshua city (11 records), Keene city (5 records), Mansfield city (3 records).	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Tornado	Enhanced Fujita (F before Feb 2007)	110, 1951 to 2026	F/EF0 to F/EF4 (median F/EF1); 110 with a recorded value	F4 tornado, 1976-05-26, 1.9 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 300 yd wide, \$2,500,000 property; crops not recorded (1976 dollars)	Tornado, 2013-05-15, \$124,000,000 property; \$0 crops (2013 dollars)	Event records naming member places: Godley city (7 records), Alvarado city (6 records), Cleburne city (3 records), Keene city (2 records), Mansfield city (2 records), Burleson city (1 record).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.
Wildfire	acres burned (local data)	9, 2005 to 2023 (9 zone-level)		Wildfire, 2005-11-27, \$850,000 property; crops not reported, reported for the zone (2005 dollars); NWS zone TXZ133 (JOHNSON), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	25, 1996 to 2026 (25 zone-level)		Winter Storm, 2013-12-05, \$400,000 property; \$0 crops, reported for the zone (2013 dollars); NWS zone TXZ133 (JOHNSON), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

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

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Supports B1-d: previous occurrences

Declaration rows

19

Counted incidents

10

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2021-02-19	2021-02-11	DR-4586-TX	Major disaster	SEVERE WINTER STORMS	Ice Storm	none found		
2021-02-14	2021-02-11	EM-3554-TX	Emergency	SEVERE WINTER STORM	Ice Storm	none found		same incident as DR-4586
2020-03-25	2020-01-20	DR-4485-TX	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$712,503.92		
2020-03-13	2020-01-20	EM-3458-TX	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4485
2015-05-29	2015-05-04	DR-4223-TX	Major disaster	SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS AND FLOODING	Inland Flooding; Strong Wind; Tornado	\$541,089.29		
2008-03-14	2008-03-14	EM-3284-TX	Emergency	WILDFIRES	Wildfire	none found		
2006-01-19	2006-01-17	FM-2621-TX	Fire management	HUNTINGTON BROOK FIRE	Wildfire	none found		same incident as DR-1624
2006-01-11	2005-11-27	DR-1624-TX	Major disaster	EXTREME WILDFIRE THREAT	Wildfire	\$11,022.15		
2005-09-24	2005-09-23	DR-1606-TX	Major disaster	HURRICANE RITA	Hurricane: evacuation support (county designated for sheltering evacuees, no Individual Assistance), not a local hazard event; not counted	\$12,692.78		
2005-09-21	2005-09-20	EM-3261-TX	Emergency	HURRICANE RITA	Hurricane: evacuation support (county designated for sheltering evacuees, no Individual Assistance), not a local hazard event; not counted	\$1,290.76		same incident as DR-1606
2005-09-02	2005-08-29	EM-3216-TX	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	\$57,391.37		
2003-02-01	2003-02-01	EM-3171-TX	Emergency	LOSS OF THE SPACE SHUTTLE COLUMBIA	Non-natural, not counted	\$12,090.74		
2001-01-05	2000-08-28	FM-2351-TX	Fire management	TX - ALSBURY FIRE - 08/29/00	Wildfire	none found		
1999-09-01	1999-08-01	EM-3142-TX	Emergency	EXTREME FIRE HAZARDS	Wildfire	none found		
1998-08-26	1998-08-22	DR-1239-TX	Major disaster	TROPICAL STORM CHARLEY	Hurricane; Inland Flooding: designated for Hazard Mitigation only (no Public or Individual Assistance for this county); not counted	PA not declared for this county		
1993-09-10	1993-08-30	EM-3113-TX	Emergency	EXTREME FIRE HAZARD	Drought (primary); also designated: Wildfire	none found		
1991-12-26	1991-12-20	DR-930-TX	Major disaster	SEVERE THUNDERSTORMS	Inland Flooding	PA not declared for this county		
1990-05-02	1990-04-15	DR-863-TX	Major disaster	SEVERE STORMS, TORNADOES & FLOODING	Inland Flooding; Tornado	PA not declared for this county		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	
						<i>federal share obligated, nominal dollars</i>	Flags Notes
1989-05-19	1989-05-04	DR-828-TX	Major disaster	SEVERE STORMS, TORNADOES & FLOODING	Inland Flooding; Tornado	none found	

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.

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

SOURCES

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Statewide declarations

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
1998-06-23	1998-06-04	EM-3127-TX	Emergency	FIRE	Wildfire		
1963-09-24	1963-09-24	DR-159-TX	Major disaster	HURRICANE CINDY	Hurricane (primary); also designated: Inland Flooding		
1961-09-16	1961-09-16	DR-118-TX	Major disaster	HURRICANE CARLA	Hurricane (primary); also designated: Inland Flooding		
1960-07-15	1960-07-15	DR-103-TX	Major disaster	HEAVY RAINS, HAIL, FLOODS & TORNADOES	Hail; Inland Flooding; Tornado		
1959-07-08	1959-07-08	DR-93-TX	Major disaster	FLOODS	Inland Flooding		
1958-06-06	1958-06-06	DR-85-TX	Major disaster	TORNADOES, RAIN, HAIL & FLOODS	Tornado (primary); also designated: Hail, Inland Flooding		
1957-04-29	1957-04-29	DR-72-TX	Major disaster	HURRICANE, RAIN, WIND, HAIL & FLOODS	Hurricane (primary); also designated: Hail, Inland Flooding		
1954-07-01	1954-07-01	DR-18-TX	Major disaster	FLOOD	Inland Flooding		
1953-06-19	1953-06-19	DR-9-TX	Major disaster	FLOOD	Inland Flooding		
1953-05-15	1953-05-15	DR-2-TX	Major disaster	TORNADO & HEAVY RAINFALL	Tornado		

FEMA recorded these with designated area Statewide and no county. Listed on every county page in the state; not counted with county rows.

91 Fire Management declarations (1988-03-12 to 2009-04-10) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

SOURCE

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

Public Assistance not placed in a county in this state: 1 row, \$902,084.65

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated	Why not placed
				<i>federal share obligated, nominal dollars</i>	
1791	2008-09-13	AOH/Houston Affordable Housing Corporation	Fulton County	\$902,084.65	county field is a county of another state and the applicant name does not identify a place in the declaring state

FEMA's Public Assistance summaries file these applicants under a county field that is not a county of this state (an Alaska school area, the former Valdez-Cordova Census Area, or another state's county), and the applicant name does not identify one place here. They are listed for the whole state and are not in any county total. Check whether any of them worked in your county.

SOURCE

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	7	4	0	4	0	0	1996 to 2026-06-30	
Drought	81	0	3	14	1	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	376	41	4	84	0	0	1955 to 2026-06-30	
Heat Wave	61	15	13	35	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	6	0	0	1	1	0	1996 to 2026-06-30	
Inland Flooding	119	7	4	12	4	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	10	0	1	1	0	0	1996 to 2026-06-30	
Strong Wind	296	9	6	29	1	0	1955 to 2026-06-30	Includes 2 High Wind records and 2 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	110	3	0	7	3	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	9	0	1	2	5	0	1996 to 2026-06-30	
Winter Weather	25	1	0	2	0	0	1996 to 2026-06-30	

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2026-01-24	Extreme Cold/ Wind Chill		\$0 property; \$0 crops, reported for the zone (2026 dollars)	0, 0	NWS zone TXZ133 (JOHNSON), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	B1-c worst recorded: Cold/ Wind Chill, Extreme Cold/Wind Chill
2024-05-05	Flash Flood		\$20,000 property; \$0 crops (2024 dollars)	1, 0	RETTA	during plan review, check whether your last plan included it; within last 5 years	deaths or injuries recorded
2024-04-01	Lightning		\$250,000 property; \$0 crops (2024 dollars)	0, 0	VENUS	during plan review, check whether your last plan included it; within last 5 years	B1-c worst recorded: Lightning
2023-08-01	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2023 dollars)	1, 0	NWS zone TXZ133 (JOHNSON), zone-level: may include parts of neighboring counties	during plan review, check whether your last plan included it; within last 5 years	deaths or injuries recorded
2022-05-13	High Wind	54 kt (62 mph) measured gust	\$0 property; \$0 crops, reported for the zone (2022 dollars)	0, 0	NWS zone TXZ133 (JOHNSON), zone-level: may include parts of neighboring counties	within last 5 years	B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2017-04-14	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2017 dollars)	1, 0	NWS zone TXZ133 (JOHNSON), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2015-05-29	Flash Flood		\$1,500,000 property; \$0 crops (2015 dollars)	0, 0	RETTA to LAKE PAT CLEBURNE		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2005-11-27	Wildfire		\$850,000 property; crops not reported, reported for the zone (2005 dollars)	0, 0	NWS zone TXZ133 (JOHNSON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Wildfire
2003-04-23	Thunderstorm Wind	96 kt (110 mph) estimated sustained	\$4,000,000 property; crops not reported (2003 dollars)	0, 0	LILLIAN		B1-c worst recorded: Thunderstorm Wind
2000-07-01	Heat		damage not reported	0, 0	NWS zone TXZ133 (JOHNSON), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
1976-05-26	Tornado	F4, 1.9 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 300 yd wide	\$2,500,000 property; crops not recorded (1976 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado

					Direct deaths, injuries		
Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	<i>indirect not counted</i>	Location	Flags	Why listed
1968-04-27	Hail	5 in	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Hail

The full list is in the XLSX file, sheet "B1-d Storm Events history" (1,100 rows).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

State-declared emergencies are not in federal data. Add them from your state emergency management agency.

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

	FEMA annualized frequency (modeled)					NRI events or days in its record period (hail, wind and tornado are area- weighted, so can be			
Hazard	<i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	fractional)	NRI period	Location	Note
Avalanche		events per year					1994 to 2023 (30 years)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Coastal Flooding		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Cold Wave	0.842	event-days per year	about 0.842 days per year	Likely	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	16	2005-11-12 to 2024-11-12 (19 years)	countywide	Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	44.5	event-days per year	about 44.5 days per year	Likely	event-days in 15 of 30 years, 1996 to 2025 (50%)	1,561	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00068	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 0.068%			not shown	modeled	see B1-f	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.

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
Hail	8.61	events per year	about 8.61 per year	Highly likely	FEMA annualized frequency (modeled)	326.9 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	16.7	event-days per year	about 16.7 days per year	Likely	event-days in 13 of 30 years, 1996 to 2025 (43.3%)	272	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 16.7 heat wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 13 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Hurricane	0.0227	events per year	about 1 in 44 years	Possible	FEMA annualized frequency (modeled)	8	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.
Ice Storm	0.992	event-days per year	about 0.992 days per year	Likely	event-days in 6 of 30 years, 1996 to 2025 (20%)	67	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	2.5	event-days per year	about 2.5 days per year	Likely	event-days in 23 of 30 years, 1996 to 2025 (76.7%)	70	1996 to 2023 (28 years)	see B1-f	
Landslide	0.101	events per year (modeled)	about 1 in 10 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	53	days per year with a strike	about 53 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	3.81	events per year	about 3.81 per year	Highly likely	FEMA annualized frequency (modeled)	145	1986 to 2023 (38 years)	countywide	
Tornado	0.68	events per year	about 0.68 per year	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.

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	0.00377	annual probability at a location	chance a given location in the county burns in a year: 0.377%	Likely	Storm Events records in 7 of 30 years, 1996 to 2025 (23.3%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Winter Weather	3.58	event-days per year	about 3.58 days per year	Likely	event-days in 17 of 30 years, 1996 to 2025 (56.7%)	68	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county, which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Descriptor scale used in this packet (defined per unit)

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

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Intensity bands: historical frequency (Storm Events)

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	153	30	5.1
Hail	2.00 in+	1996 to 2025	23	30	0.767
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	139	30	4.63
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	30	30	1
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	21	30	0.7
Tornado	EF0-1	1996 to 2025	36	30	1.2
Tornado	EF2-3	1996 to 2025	3	30	0.1
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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.

SOURCE
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

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.

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	0 of 39				Not Applicable 39	
Coastal Flooding	0 of 39				Not Applicable 39	
Cold Wave	39 of 39	62.2	81.4	88.8	Relatively High 23, Relatively Moderate 16	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	25 of 39	69.8	79.4	87.3	Relatively Low 15, Very Low 10, No Rating 14	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally.
Earthquake	39 of 39	10.7	23.2	45.0	Relatively Low 2, Very Low 37	
Hail	39 of 39	65.9	76.3	87.6	Relatively Moderate 31, Relatively Low 8	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Heat Wave	39 of 39	60.0	82.8	90.0	Relatively High 15, Relatively Moderate 24	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	39 of 39	34.0	43.6	49.6	Very Low 39	
Ice Storm	39 of 39	56.0	75.9	84.8	Relatively Moderate 28, Relatively Low 11	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	39 of 39	17.0	45.2	80.8	Relatively High 2, Relatively Moderate 14, Relatively Low 23	
Landslide	38 of 39	9.1	25.4	72.4	Very Low 38, No Rating 1	
Lightning	39 of 39	40.9	64.7	78.5	Relatively High 2, Relatively Moderate 33, Relatively Low 4	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	39 of 39	49.5	68.3	83.9	Relatively High 2, Relatively Moderate 33, Relatively Low 4	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	39 of 39	87.3	98.2	99.7	Very High 34, Relatively High 5	
Tsunami	0 of 39				Not Applicable 39	
Volcanic Activity	0 of 39				Not Applicable 39	
Wildfire	39 of 39	21.5	92.4	98.5	Relatively High 4, Relatively Moderate 22, Relatively Low 8, Very Low 5	
Winter Weather	39 of 39	24.0	33.8	51.5	Relatively Moderate 3, Relatively Low 36	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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.

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Johnson County	County	Approved, expires 2029-06-12	FMA RL 3, SRL 2; any 21	\$347,841.78	0; 0	Includes \$18,431.60 for declarations not counted as hazard incidents (EM-3171-TX, EM-3216-TX).
Alvarado city	City	Plan 107118 approved 2024-06-13, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 1	none found	55; no approved plan	

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Burleson city	City	Approved, expires 2029-06-12	FMA RL 0, SRL 0; any 8	\$724,758.79	73; 3	Includes \$724,758.79 for declarations not counted as hazard incidents (DR-1606-TX, DR-4485-TX, EM-3216-TX, EM-3261-TX).
Cleburne city	City	Plan 107118 approved 2024-06-13, pending adoption here; not yet eligible	FMA RL 0, SRL 1; any 7	\$243,781.51	113; no approved plan	Includes \$48,725.28 for declarations not counted as hazard incidents (DR-1606-TX, EM-3216-TX).
Cresson city	City	Expired on 2026-06-03	FMA RL 0, SRL 0; any 0	none found	0; 0	
Crowley city	City	Approved, expires 2030-12-22	FMA RL 0, SRL 0; any 0	none found	0; 0	
Godley city	City	Plan 107118 approved 2024-06-13, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	none found	77; no approved plan	
Joshua city	City	Plan 107118 approved 2024-06-13, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$1,199.91	42; no approved plan	Includes \$1,199.91 for declarations not counted as hazard incidents (DR-1606-TX).
Keene city	City	Plan 107118 approved 2024-06-13, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 1	\$0	19; no approved plan	
Mansfield city	City	Approved, expires 2030-12-22	FMA RL 8, SRL 6; any 20	none found	21; 0	Whole community, including the part in Tarrant County; in-county portion (county table): FMA RL 0, FMA SRL 1, NFIP RL 2, NFIP SRL 1, any category 2.

Member 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 member row, while the county table counts only its part in this county.

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

SOURCES

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Supports B2-a and B2-b: assets and impacts

Local data required

County-level starter. The plan must describe impacts for each participant and its own assets.

- Critical facilities and lifelines per hazard
- A problem statement per participant 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

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2024-06-13 <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
Avalanche											Not Applicable in NRI for this county
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$32,047,863,218	\$74,480,513	179,719	\$70,504	\$48,816	\$6,871,567	0.00022%		\$0		
Drought		\$17,874,851			\$60,128		0.336% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$56,829,057,778		179,927	\$232,798		\$97,393	0.00041%				
Hail	\$32,047,863,218	\$74,480,513	179,719	\$1,124,630	\$3,093	\$306,645	0.00351%	\$400,000			
Heat Wave	\$32,047,863,218	\$74,480,513	179,719	\$699	\$339	\$4,450,095	under 0.0001%		\$0		
Hurricane	\$31,966,091,504	\$73,964,075	179,385	\$89,289	\$25,127	\$5,383	0.000279%				
Ice Storm	\$32,047,863,218		179,719	\$17,490		\$489,286	under 0.0001%				
Inland Flooding	\$32,024,212,392	\$5,790,072	5,521	\$20,724,456	\$122,992	\$2,346,753	n/a (see note)	\$11,000			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. EAL as % of exposure: n/a.
Landslide	\$68,296,059		274	\$65		\$7	under 0.0001%				
Lightning	\$32,047,863,218		179,719	\$42,763		\$666,060	0.000133%				
Strong Wind	\$32,047,863,218	\$74,480,513	179,719	\$786,249	\$2,644	\$579,883	0.00245%	\$66,000	\$5,000		Storm Events damage since the plan includes 1 zone-level Strong Wind record (\$5,000), an event type the NRI definition of this hazard leaves out.
Tornado	\$32,047,863,218	\$74,480,513	179,719	\$7,174,820	\$3,911	\$20,855,716	0.0224%	\$51,000			
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$8,749,746,850	\$43,501,833	72,475	\$3,063,408	\$1,237	\$341,653	0.035%				
Winter Weather	\$32,047,863,218	\$74,480,513	179,719	\$48,610	\$87	\$1,422	0.000152%		\$0		

Totals since 2024-06-13 (Storm Events through 2026-06-30): 59 county-coded records, 59 with a damage value recorded (including \$0), \$528,000; 21 zone-level records, 21 with a damage value recorded (including \$0), \$5,000 reported for the zone; Public Assistance on counted declarations none found (0 declarations, 0 with PA).

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

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 must not be added up; the unit total counts each declaration once.

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

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Texas A&M Forest Service TxWRAP for wildfire risk; Texas State Hazard Mitigation Plan hazard list for B1-a exclusions.

Supports B2-a: context

County context

Measure	Value
Population	179,719
Building value (total, not at risk)	\$32,047,863,218
Agriculture value (total, not at risk)	\$74,480,513
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$33,644,155
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)	\$37,011,862
Social vulnerability rating	Relatively Low
Community resilience rating	Relatively Moderate
NRI version	December 2025

FEMA's all-hazard expected annual loss total adds buildings, agriculture and population equivalence; the two parts are shown separately so the property figure is not read as including the statistical value of life.

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	3	Severe repetitive loss, FMA definition (44 CFR 77.2)	4
Repetitive loss, NFIP insurance definition	40	Severe repetitive loss, NFIP insurance definition	4

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties: county and state-level rows

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	3	4	40	4	40	0	16
ALVARADO, CITY OF	0	0	1	0	1	0	1
MANSFIELD, CITY OF	0	1	2	1	2	0	0
JOHNSON COUNTY*	3	2	21	2	21	0	9
KEENE, CITY OF	0	0	1	0	1	0	0
BURLESON, CITY OF	0	0	8	0	8	0	4
CLEBURNE, CITY OF	0	1	7	1	7	0	2
State level, not in this county: county not reported	3	8	12	7	13	1	9

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties by plan member (NFIP community)

Member	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>	Note
Johnson County	480879	3	2	21	2	21	0	9	
Alvarado city	480397	0	0	1	0	1	0	1	
Burleson city	485459	0	0	8	0	8	0	4	
Cleburne city	485462	0	1	7	1	7	0	2	
Cresson city	480177	0	0	0	0	0	0	0	
Crowley city	480591	0	0	0	0	0	0	0	
Godley city	480880	0	0	0	0	0	0	0	
Joshua city	480882	0	0	0	0	0	0	0	
Keene city	481107	0	0	1	0	1	0	0	
Mansfield city	480606	8	6	12	4	20	6	4	Whole community, including the part in Tarrant County; in-county portion (county table): FMA RL 0, FMA SRL 1, NFIP RL 2, NFIP SRL 1, any category 2.

Per-member types: XLSX sheet 'B2-c Members'.

Member 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 member row, while the county table counts only its part in this county.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

County repeat-flood properties by occupancy group

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	3	4	37	4	37	0	15
2 to 4 unit residential	0	0	1	0	1	0	0
other residential	0	0	1	0	1	0	0
non-residential	0	0	1	0	1	0	1
not reported	0	0	0	0	0	0	0

Institutional properties cannot be separated in this data: FEMA's occupancy groups have no institutional class, so they fall in non-residential or other residential in the table by occupancy group.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

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; OpenFEMA's fmaRI field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRI) is 2 or more claims over \$1,000 in 10 years and can drop to false when a property is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured.

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

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

Counts may differ from your state NFIP coordinator's list, which is the source the Handbook names.

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 37 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

Every table above lists its own sources. The full list, for the plan's bibliography (FEMA review item A4-a):

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <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 2026-09-28, 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 2026-09-28, <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 2026-09-28, <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 2026-09-28, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip

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

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Corrections: to report an error, name the packet, the table and what your records show. Contact: to be added

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_TX_48251. Preview: automated baseline.