

Liberty County, TX

Risk-assessment baseline packet

County FIPS: 48291 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

Hazard Plain is an independent product built from public federal data. It is not a FEMA document and is not reviewed or endorsed by FEMA or any state agency.

Summary

Plan status as of 2026-09-30: Approved, expires 2030-09-09. Plan: Liberty County (FEMA plan 110407), approved 2025-09-10.
Since the plan was approved on 2025-09-10: no new federal declaration.
NOAA Storm Events records since that date: 6 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$9,896,687 a year), Tornado (\$8,711,723) and Hurricane (\$6,063,826).
Repetitive-loss flood properties now: FMA RL 95, SRL 119 (44 CFR 77.2); any definition: 403.
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; 48291 is this area.
D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).
F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.
kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.
CFR: Code of Federal Regulations.
A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).
Dollars: nominal (as reported, labeled with the year), not adjusted for inflation.

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Plan clock

Status:	Approved, expires 2030-09-09	Plan:	Liberty County (FEMA plan 110407)
Approved:	2025-09-10	Days to expiry:	1,440

What changed since your last plan (approved 2025-09-10)

New federal declarations:	none	Storm Events records since approval:	6 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 95, SRL 119 (44 CFR 77.2); any definition: 403	Repeat-flood change:	this release sets the baseline count.

Sources: 1, 2, 4, 6 (numbered list at the end)

Plan status for every jurisdiction listed in this county: 17 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Notes
Liberty County	County	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
Ames city	City	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
Cleveland city	City	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
Daisetta city	City	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
Dayton city	City	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
Devers city	City	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
Hardin city	City	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
Kenefick town	Town	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
Liberty city	City	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
Mont Belvieu city	City	Approved, expires 2030-02-04	Chambers County (FEMA plan 109996)	2025-02-05	2030-02-04	1,223	this jurisdiction approved 2025-02-04
North Cleveland city	City	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
Old River-Winfree city	City	Approved, expires 2030-02-04	Chambers County (FEMA plan 109996)	2025-02-05	2030-02-04	1,223	this jurisdiction approved 2025-02-04
Plum Grove city	City	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
Chambers-Liberty Counties Navigational District	Special District	Approved, expires 2030-02-04	Chambers County (FEMA plan 109996)	2025-02-05	2030-02-04	1,223	this jurisdiction approved 2025-02-04
Liberty County Water Control Improvement Dist. #1	Water/Sewer Authority	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
Liberty County Water Control Improvement Dist. #5	Water/Sewer Authority	Approved, expires 2030-09-09	Liberty County (FEMA plan 110407)	2025-09-10	2030-09-09	1,440	
San Jacinto River Authority	Flood Control District	Approved, expires 2030-04-08	Waller County (FEMA plan 110285)	2025-04-09	2030-04-08	1,286	

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

- dam failure (incl. upstream dams)
- levee failure
- flash flood as its own subtype
- ice jams

- debris flows
- erosion (riverine and coastal)
- land subsidence and sinkholes
- expansive soils

The 18 National Risk Index hazards, ranked by expected annual loss (EAL)

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Inland Flooding	Relatively Low	Relatively Low	\$9,301,444	\$2,771	\$592,473	\$9,896,687	59	
2	Tornado	Relatively High	Relatively High	\$1,656,810	\$1,177	\$7,053,737	\$8,711,723	34	
3	Hurricane	Relatively Moderate	Relatively Moderate	\$5,242,614	\$296,764	\$524,448	\$6,063,826	8	
4	Cold Wave	Relatively Moderate	Relatively Moderate	\$9,253	\$15,034	\$2,613,008	\$2,637,294	1	
5	Lightning	Very High	Relatively High	\$15,220	n/a	\$1,820,614	\$1,835,835	1	
6	Heat Wave	Relatively Moderate	Relatively Moderate	\$110	\$157	\$1,495,177	\$1,495,445	13	
7	Drought	Relatively Moderate	Relatively Moderate	n/a	\$621,815	n/a	\$621,815	15	
8	Wildfire	Relatively Low	Relatively Low	\$369,357	\$785	\$107,286	\$477,428	0	Declared 5 times; no Storm Events record of this type.
9	Ice Storm	Relatively Moderate	Relatively Moderate	\$65,177	n/a	\$220,883	\$286,060	3	
10	Strong Wind	Relatively Low	Relatively Low	\$48,458	\$40,400	\$170,076	\$258,933	94	
11	Hail	Relatively Low	Relatively Low	\$39,617	\$32	\$117,104	\$156,753	67	
12	Earthquake	Very Low	Very Low	\$45,347	n/a	\$17,561	\$62,908		Storm Events does not record earthquakes.
13	Winter Weather	Relatively Low	Relatively Low	\$26,491	\$3	\$2,050	\$28,544	4	

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
14	Coastal Flooding	Very Low	Very Low	\$298	n/a	\$25	\$323	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Landslide	Very Low	Very Low	\$76	n/a	\$3	\$79	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 wildfire and landslide records (Storm Events records these hazards only in part).

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

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

Supports FEMA checklist item B1-b: hazard location

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

Coastal Flooding and 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 7012 (Very Low, 30.3); tract 7014 (Very Low, 28.6); tract 7001 (Very Low, 23.2)
Hurricane	tract 7014 (Relatively High, 95.0); tract 7012 (Relatively High, 94.7); tract 7010 (Relatively High, 90.5)
Landslide	tract 7006 (Very Low, 71.1); tract 7011 (Very Low, 66.1); tract 7005 (Very Low, 61.8)
Tornado	tract 7003.02 (Very High, 99.8); tract 7014 (Very High, 99.4); tract 7012 (Very High, 99.3)
Wildfire	tract 7014 (Relatively Moderate, 94.7); tract 7004 (Relatively Moderate, 94.5); tract 7007 (Relatively Moderate, 94.0)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 7012 is Census Tract 7012). 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
Coastal Flood, Storm Surge/ Tide	none in data (flood depth: FIRM)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	1 record, 2021 (1 zone-level)	2 days; 1 with a recorded value	2 consecutive days, 2021-02-15 to 2021-02-16, zone-level	Cold/Wind Chill, 2021-02-15, \$30,000 property; \$0 crops, reported for the zone (2021 dollars)	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)	15 records, 1996 to 2023 (15 zone-level)	7 days to 123 days (median 61 days); 7 with a recorded value	123 days (4 months), 1998-05-01 to 1998-08-31, a run of 4 consecutive Storm Events drought records, zone-level	Drought, 1998-08-01, \$1,000,000 property; \$7,300,000 crops, reported for the zone (1998 dollars)	Countywide (zone-level records).	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	87 records, 1974 to 2026	0.75 in to 4 in (median 1 in); 87 with a recorded value	4 in hail, 2011-05-25	Hail, 2004-08-21, \$50,000 property; crops not reported (2004 dollars)	Event records naming jurisdictions in the plan: Cleveland city (15 records), Hardin city (10 records), Dayton city (9 records), Liberty city (8 records), Plum Grove city (4 records), Devers city (3 records), Ames city (1 record), Daisetta city (1 record), Kenefick town (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	13 records, 1999 to 2023 (13 zone-level)	1 day to 31 days (median 5 days); 12 with a recorded value	August 1999 (1 monthly summary record), zone-level		Countywide (zone-level records).	Heat index: in event narratives only (local data needed).
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	8 records, 1998 to 2021 (8 zone-level)		Strongest recorded: Hurricane (Typhoon) record (NOAA's event type name), 2008-09-12 to 2008-09-13, category 2, \$220,000,000 property; crops not reported (2008 dollars); NWS zone TXZ200	Most damaging recorded: Tropical Storm, 2017-08-25, \$1,000,000,000 property; crops not reported, reported for the zone (2017 dollars)	Countywide (zone-level records).	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)	3 records, 1997 to 2011 (3 zone-level)		Ice Storm, 2007-01-16, \$2,000 property; \$0 crops (2007 dollars); NWS zone TXZ200		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)	59 records, 1996 to 2026 (2 zone-level)		Flash Flood, 2019-09-19, \$95,000,000 property; \$0 crops (2019 dollars)		Event records naming jurisdictions in the plan: Cleveland city (13 records), Liberty city (6 records), Dayton city (5 records), Hardin city (3 records), Plum Grove city (3 records), Ames city (2 records), Daisetta city (1 record), Kenefick town (1 record). Zone-level records (2) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	0					Physical measure: in event narratives only (local data needed).
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1 record, 2007		Lightning, 2007-11-21, \$8,000 property; \$0 crops (2007 dollars)		Event records naming jurisdictions in the plan: Hardin city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	0					
Thunderstorm Wind	wind speed (kt and mph)	138 records, 1963 to 2026	50 kt (58 mph) to 65 kt (75 mph) (median 52 kt (60 mph)); 64 with a recorded value	65 kt (75 mph), measurement type not recorded, Thunderstorm Wind, 1983-05-20; same speed and measurement basis also recorded on 1964-04-25	Thunderstorm Wind, 1999-03-13, \$100,000 property; crops not reported (1999 dollars)	Event records naming jurisdictions in the plan: Cleveland city (18 records), Dayton city (15 records), Liberty city (12 records), Devers city (6 records), Daisetta city (5 records), Kenefick town (5 records), Ames city (4 records), Hardin city (4 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	66 records, 1957 to 2026	F/EF0 to F/EF4 (median F/EF0); 62 with a recorded value	F4 tornado, 1992-11-21, 10 mi path length (whole path, pre-1996), 200 yd wide, \$250,000 property; crops not recorded (1992 dollars), 1 direct injury	Tornado, 1992-11-21, \$2,500,000 property; crops not recorded (1992 dollars)	Event records naming jurisdictions in the plan: Dayton city (8 records), Liberty city (5 records), Kenefick town (3 records), Cleveland city (2 records), Plum Grove city (2 records), Daisetta city (1 record), Devers city (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Wildfire	acres burned (local data)	0					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)	4 records, 2008 to 2025 (4 zone-level)		No damage reported in 4 records.		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.

A monthly summary record covers most or all of a month; it does not count days at wave conditions.

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 38 declarations covering 31 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2024-07-09	2024-07-05	DR-4798-TX	Major disaster	Hurricane Beryl	Hurricane	\$1,490,697.69	within last 5 years	
2024-05-17	2024-04-26	DR-4781-TX	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, and Flooding	Inland Flooding (primary); also designated: Strong Wind, Tornado	\$3,712,095.06	within last 5 years	
2021-02-19	2021-02-11	DR-4586-TX	Major disaster	Severe Winter Storms	Ice Storm	no Public Assistance recorded		
2021-02-14	2021-02-11	EM-3554-TX	Emergency	Severe Winter Storm	Ice Storm	no Public Assistance recorded		same incident as DR-4586
2020-08-24	2020-08-23	EM-3540-TX	Emergency	Tropical Storms Marco and Laura	Hurricane	no Public Assistance recorded		
2020-03-25	2020-01-20	DR-4485-TX	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$352,707.82		
2020-03-13	2020-01-20	EM-3458-TX	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4485
2019-10-04	2019-09-17	DR-4466-TX	Major disaster	Tropical Storm Imelda	Inland Flooding (primary); also designated: Hurricane	PA not declared for this county		
2017-08-25	2017-08-23	DR-4332-TX	Major disaster	Hurricane Harvey	Hurricane	\$4,681,615.43		
2016-06-11	2016-05-22	DR-4272-TX	Major disaster	Severe Storms and Flooding	Inland Flooding	\$658,963.29		
2016-04-25	2016-04-17	DR-4269-TX	Major disaster	Severe Storms and Flooding	Inland Flooding	\$924,907.58		
2015-11-25	2015-10-22	DR-4245-TX	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	\$322,441.88		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2015-05-29	2015-05-04	DR-4223-TX	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds and Flooding	Inland Flooding; Strong Wind; Tornado	\$2,675,258.60		
2008-09-13	2008-09-07	DR-1791-TX	Major disaster	Hurricane Ike	Hurricane (primary); also designated: Inland Flooding	\$34,032,221.78		
2008-09-10	2008-09-07	EM-3294-TX	Emergency	Hurricane Ike	Hurricane	no Public Assistance recorded		same incident as DR-1791
2008-08-29	2008-08-27	EM-3290-TX	Emergency	Hurricane Gustav	Hurricane	\$15,586.13		
2008-03-14	2008-03-14	EM-3284-TX	Emergency	Wildfires	Wildfire	no Public Assistance recorded		
2007-06-29	2007-06-16	DR-1709-TX	Major disaster	Severe Storms, Tornadoes, and Flooding	Inland Flooding; Tornado	PA not declared for this county		
2006-01-11	2005-11-27	DR-1624-TX	Major disaster	Extreme Wildfire Threat	Wildfire	\$5,872.37		
2005-09-24	2005-09-23	DR-1606-TX	Major disaster	Hurricane Rita	Hurricane	\$3,184,177.54		
2005-09-21	2005-09-20	EM-3261-TX	Emergency	Hurricane Rita	Hurricane	\$40,491.02		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	\$4,604.62		
2002-11-05	2002-10-24	DR-1439-TX	Major disaster	Severe Storms, Tornadoes and Flooding	Inland Flooding; Tornado	PA not declared for this county		
2001-06-09	2001-06-05	DR-1379-TX	Major disaster	Tx-Tropical Storm Allison-06-06-2001	Hurricane	\$237,199.78		
2000-09-04	2000-09-04	FM-2329-TX	Fire management	Tx - Stanley Mainline Fire - 09/04/00	Wildfire	no Public Assistance recorded		
1999-09-01	1999-08-01	EM-3142-TX	Emergency	Extreme Fire Hazards	Wildfire	no Public Assistance recorded		
1998-10-21	1998-10-17	DR-1257-TX	Major disaster	Tx-Flooding 10/18/98	Inland Flooding (primary); also designated: Tornado	\$452,092.93		
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		
1996-02-23	1996-02-23	EM-3117-TX	Emergency	Extreme Fire Hazard	Wildfire	no Public Assistance recorded		
1994-10-18	1994-10-14	DR-1041-TX	Major disaster	Severe Thunderstorms and Flooding	Inland Flooding	no Public Assistance recorded		
1992-03-20	1992-03-04	DR-937-TX	Major disaster	Severe Storms & Flooding	Inland Flooding	PA not declared for this county		
1991-12-26	1991-12-20	DR-930-TX	Major disaster	Severe Thunderstorms	Inland Flooding	no Public Assistance recorded		
1990-05-02	1990-04-15	DR-863-TX	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	PA not declared for this county		
1989-07-18	1989-06-25	DR-836-TX	Major disaster	Tropical Storm Allison	Inland Flooding (primary); also designated: Hurricane	no Public Assistance recorded		
1989-05-19	1989-05-04	DR-828-TX	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	no Public Assistance recorded		
1983-08-19	1983-08-18	DR-689-TX	Major disaster	Hurricane Alicia	Hurricane	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>		
1979-04-26	1979-04-26	DR-580-TX	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	no Public Assistance recorded		
1973-07-11	1973-07-11	DR-398-TX	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		

County Public Assistance: applicants the FEMA record places in this county, including any state agencies FEMA files there; statewide rows are listed on the state page; federal share obligated, nominal dollars.

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
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, 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.

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.

Public Assistance not placed in any Texas county: 1 row, \$902,084.65; listed on the Texas state page.

Source: 3

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
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	1	0	0	0	0	0	1996 to 2026-06-30	
Drought	15	0	0	6	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.

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
Hail	87	1	5	10	0	0	1955 to 2026-06-30	
Heat Wave	13	0	0	7	0	0	1996 to 2026-06-30	
Hurricane	8	0	0	0	10	0	1996 to 2026-06-30	
Ice Storm	3	0	0	0	1	0	1996 to 2026-06-30	
Inland Flooding	59	1	0	4	18	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	1	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	138	2	0	9	3	0	1955 to 2026-06-30	
Tornado	66	2	2	6	9	0	1950 to 2026-06-30	
Wildfire	0	0	0	0	5	0	1996 to 2026-06-30	No Storm Events records of this type; 5 federal declared incidents (see declarations table)
Winter Weather	4	0	1	1	0	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Why listed
2019-09-19	Flash Flood		\$95,000,000 property; \$0 crops (2019 dollars)	0, 0	MOSS BLUFF to COTTONWOOD	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2011-05-25	Hail	4 in	\$10,000 property; \$0 crops (2011 dollars)	0, 0	CLEVELAND	B1-c worst recorded: Hail
2008-09-12	Hurricane (Typhoon), NOAA's event type name	category 2	\$220,000,000 property; crops not reported, reported for the zone (2008 dollars)	0, 0	NWS zone TXZ200 (LIBERTY), zone-level	B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2007-11-21	Lightning		\$8,000 property; \$0 crops (2007 dollars)	0, 0	HARDIN	B1-c worst recorded: Lightning
2007-01-16	Ice Storm		\$2,000 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone TXZ200 (LIBERTY), zone-level	B1-c worst recorded: Ice Storm
2006-10-16	Flash Flood		\$10,000 property; \$0 crops (2006 dollars)	1, 0	COTTONWOOD	deaths or injuries recorded
2005-09-23	Hurricane (Typhoon), NOAA's event type name		\$7,000,000 property; crops not reported, reported for the zone (2005 dollars)	2, 0	NWS zone TXZ200 (LIBERTY), zone-level	deaths or injuries recorded
1999-08-01	Heat		damage not reported	0, 0	NWS zone TXZ200 (LIBERTY), zone-level	B1-c worst recorded: Excessive Heat, Heat
1998-05-01	Drought		damage not reported	0, 0	NWS zone TXZ200 (LIBERTY), zone-level	B1-c worst recorded: Drought
1995-05-18	Tornado	F1, 6.5 mi path length (whole path, pre-1996), 500 yd wide	\$750,000 property; \$10,000 crops (1995 dollars)	0, 12	Liberty	deaths or injuries recorded
1992-11-21	Tornado	F4, 10 mi path length (whole path, pre-1996), 200 yd wide	\$250,000 property; crops not recorded (1992 dollars)	0, 1	location not recorded	B1-c worst recorded: Tornado
1983-05-20	Thunderstorm Wind	65 kt (75 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded	B1-c worst recorded: Thunderstorm Wind

The full list is in the Excel file, sheet "B1-d Storm Events history" (395 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
Coastal Flooding	0.012	events per year at a location (modeled)	about 0.012 per year at a given location in the county		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Cold Wave	0.489	event-days per year	about 0.489 days per year	Possible (from Storm Events: 1 of 30 years)	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	9.3	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	19.1	event-days per year	about 19.1 days per year	Likely (from Storm Events: 5 of 30 years)	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	735	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000592	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0592%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	2.33	events per year	about 2.33 per year	Highly likely	FEMA annualized frequency (modeled)	88.6 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	14.5	event-days per year	about 14.5 days per year	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	248	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.17	events per year	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	60	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	0.835	event-days per year	about 0.835 days per year	Likely (from Storm Events: 3 of 30 years)	event-days in 3 of 30 years, 1996 to 2025 (10%)	57	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.5	event-days per year	about 1.5 days per year	Likely (from Storm Events: 21 of 30 years)	event-days in 21 of 30 years, 1996 to 2025 (70%)	42	1996 to 2023 (28 years)	see B1-f	
Landslide	0.139	events per year (modeled)	about 1 in 7 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	75.2	days per year with a strike	about 75.2 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Strong Wind	1.35	events per year	about 1.35 per year	Highly likely	FEMA annualized frequency (modeled)	52	1986 to 2023 (38 years)	countywide	
Tornado	0.994	events per year	about 0.99 per year	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.00401	annual probability at a location	chance a given location in the county burns in a year: 0.401%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Winter Weather	1.07	event-days per year	about 1.07 days per year	Likely (from Storm Events: 3 of 30 years)	event-days in 3 of 30 years, 1996 to 2025 (10%)	20.3	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	31	30	1.03
Hail	2.00 in+	1996 to 2025	3	30	0.1
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	59	30	1.97
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	34	30	1.13
Tornado	EF0-1	1996 to 2025	30	30	1
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	0	30	0

The bands show how often events of each severity were recorded in this county, to profile how severe events have been (FEMA's probability item asks for the range of intensities).

Hail smaller than 1 inch is not counted: on 2010-01-05 the National Weather Service raised its severe-hail threshold from 3/4 inch to 1 inch, so smaller reports became less common after 2009 (NWS Service Change Notice 09-52). NRI hail frequency uses a 0.75 inch threshold.

Optional: future conditions. Not a required item in the 2025 FEMA Local Mitigation Planning Policy Guide; some states ask for it. The federal Climate Mapping for Resilience and Adaptation (CMRA) site gives county exposure to future climate conditions (<https://resilience.climate.gov/>).

Supports FEMA checklist item B1-f: hazards that vary across jurisdictions

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Coastal Flooding	4 of 17	69.5	69.8	76.1	Very Low 4, No Rating 13
Cold Wave	17 of 17	61.3	79.7	95.8	Very High 1, Relatively High 9, Relatively Moderate 7
Drought	10 of 17	68.6	84.2	97.3	Relatively Moderate 4, Relatively Low 3, Very Low 3, No Rating 7
Earthquake	17 of 17	10.0	14.5	30.3	Very Low 17
Hail	17 of 17	44.8	56.6	75.1	Relatively Moderate 1, Relatively Low 16
Heat Wave	17 of 17	55.0	78.2	94.7	Relatively High 3, Relatively Moderate 13, Relatively Low 1
Hurricane	17 of 17	83.7	87.4	95.0	Relatively High 5, Relatively Moderate 12
Ice Storm	17 of 17	70.3	81.8	92.3	Relatively High 3, Relatively Moderate 14
Inland Flooding	17 of 17	19.3	49.0	90.2	Relatively High 2, Relatively Moderate 7, Relatively Low 8
Landslide	15 of 17	24.2	49.3	71.1	Very Low 15, No Rating 2
Lightning	17 of 17	93.2	98.8	99.9	Very High 16, Relatively High 1

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	17 of 17	32.5	46.9	75.4	Relatively Moderate 6, Relatively Low 11
Tornado	17 of 17	84.2	96.2	99.8	Very High 11, Relatively High 6
Wildfire	17 of 17	63.3	88.6	94.7	Relatively Moderate 10, Relatively Low 6, Very Low 1
Winter Weather	17 of 17	33.1	43.3	63.1	Relatively Moderate 4, Relatively Low 13

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

Rated tracts only: No Rating (score 0.0), Not Applicable and Insufficient Data tracts are counted but not used for the minimum, median and maximum.

The score ranks a tract against all U.S. tracts (100 = highest). The rating is FEMA's category for the tract's risk value, computed differently, so the two can disagree.

Frequency data for cold wave, drought, hail, heat wave, ice storm, lightning, strong wind and winter weather are county-wide or coarse (49 km grid or NWS zone), the same for every jurisdiction; the tract range mostly reflects where buildings and people are (crop and livestock value where a line above names agriculture).

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Liberty County	County	Approved, expires 2030-09-09	FMA RL 56, SRL 67; any 252	\$28,209,269.06	0 total; 0 since its plan	Includes \$3,321.48 for declarations not counted as hazard incidents (EM-3216-TX).
Ames city	City	Approved, expires 2030-09-09	FMA RL 2, SRL 1; any 5	\$126,545.01	7 total; 0 since its plan	
Cleveland city	City	Approved, expires 2030-09-09	FMA RL 1, SRL 4; any 20	\$2,021,210.71	48 total; 2 since its plan	
Daisetta city	City	Approved, expires 2030-09-09	FMA RL 1, SRL 0; any 1	\$64,407.93	8 total; 0 since its plan	
Dayton city	City	Approved, expires 2030-09-09	FMA RL 10, SRL 14; any 40	\$1,562,067.37	37 total; 1 since its plan	
Devers city	City	Approved, expires 2030-09-09	FMA RL 0, SRL 0; any 0	\$83,424.14	10 total; 0 since its plan	
Hardin city	City	Approved, expires 2030-09-09	FMA RL 0, SRL 0; any 1	\$41,728.56	18 total; 0 since its plan	
Kenefick town	Town	Approved, expires 2030-09-09	FMA RL 1, SRL 0; any 1	\$42,319.45	10 total; 0 since its plan	
Liberty city	City	Approved, expires 2030-09-09	FMA RL 22, SRL 32; any 67	\$11,456,617.93	31 total; 0 since its plan	Includes \$41,857.75 for declarations not counted as hazard incidents (DR-4485-TX, EM-3216-TX).
Mont Belvieu city	City	Approved, expires 2030-02-04	FMA RL 0, SRL 0; any 5	no Public Assistance recorded	0 total; 0 since its plan	Whole community, including the part in Chambers County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 1, NFIP SRL 0, any category 1.

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
North Cleveland city	City	Approved, expires 2030-09-09	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	0 total; 0 since its plan	
Old River-Winfree city	City	Approved, expires 2030-02-04	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	0 total; 0 since its plan	
Plum Grove city	City	Approved, expires 2030-09-09	FMA RL 1, SRL 0; any 7	\$841,740.44	9 total; 2 since its plan	

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

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

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

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

Local data needed

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

- Critical facilities and lifelines per hazard
- A problem statement per jurisdiction per hazard
- Changes in development in hazard-prone areas since the last approval, or a statement of none (E1-a)
- Future assets
- Texas A&M Forest Service TxWRAP for wildfire risk; Texas State Hazard Mitigation Plan hazard list for B1-a exclusions.

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2025-09-10 <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
Coastal Flooding	\$26,228,015	n/a	193	\$298	n/a	\$25	0.00114%				
Cold Wave	\$11,525,175,322	\$38,530,743	91,492	\$9,253	\$15,034	\$2,613,008	under 0.0001%				
Drought	n/a	\$11,444,762	n/a	n/a	\$621,815	n/a	5.43% (agriculture)				NRI has no building exposure for this hazard; agriculture shown

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2025-09-10 <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
Earthquake	\$20,006,047,474	n/a	91,628	\$45,347	n/a	\$17,561	0.000227%				
Hail	\$11,525,175,322	\$38,530,743	91,492	\$39,617	\$32	\$117,104	0.000344%	\$0			
Heat Wave	\$11,525,175,322	\$38,530,743	91,492	\$110	\$157	\$1,495,177	under 0.0001%				
Hurricane	\$11,525,175,322	\$38,459,291	91,492	\$5,242,614	\$296,764	\$524,448	0.0455%				
Ice Storm	\$11,525,134,906	n/a	91,492	\$65,177	n/a	\$220,883	0.000566%				
Inland Flooding	\$11,518,158,530	\$7,354,034	7,531	\$9,301,444	\$2,771	\$592,473	n/a (see note)	\$0			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	\$10,008,285	n/a	84	\$76	n/a	\$3	0.000761%				
Lightning	\$11,525,175,322	n/a	91,492	\$15,220	n/a	\$1,820,614	0.000132%				
Strong Wind	\$11,525,175,322	\$38,530,743	91,492	\$48,458	\$40,400	\$170,076	0.00042%	\$3,000			
Tornado	\$11,525,175,322	\$38,530,743	91,492	\$1,656,810	\$1,177	\$7,053,737	0.0144%	\$29,000			
Wildfire	\$1,445,675,251	\$26,027,766	28,765	\$369,357	\$785	\$107,286	0.0255%				
Winter Weather	\$11,525,175,322	\$38,530,743	91,492	\$26,491	\$3	\$2,050	0.00023%				

Totals since 2025-09-10 (Storm Events through 2026-06-30): 6 county-coded records, 6 with a damage value recorded (including \$0), \$32,000; 0 zone-level records, 0 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: no counted declaration since the plan.

FEMA does not split Public Assistance by hazard. A declaration mapped to several hazards is listed under each of them with its full amount, so the per-hazard column does not add up to the total; the unit total counts each declaration once.

NRI computes earthquake exposure on its own basis, so it exceeds the county building value in B2-a.

Supports FEMA checklist item B2-a: vulnerability (county context)

County context

Source: 5

Measure	Value
Population	91,492
Building value (total, not at risk)	\$11,525,175,322
Agriculture value (total, not at risk)	\$38,530,743
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$17,799,209
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)	\$14,734,446
Social vulnerability rating	Relatively 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)	95	Severe repetitive loss, FMA definition (44 CFR 77.2)	119
Repetitive loss, NFIP insurance definition	379	Severe repetitive loss, NFIP insurance definition	94

The state NFIP coordinator's list, the source FEMA's Handbook names, often uses the NFIP insurance definition (second row).

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	95	119	379	94	403	19	125
of which: Ames city	2	1	5	1	5	0	2
of which: Mont Belvieu city	0	0	1	0	1	0	0
of which: Liberty County (unincorporated area)	56	67	237	52	252	12	76
of which: Cleveland city	1	4	20	4	20	0	12

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>
of which: Dayton city	10	14	36	10	40	4	6
of which: Liberty city	22	32	63	27	67	2	24
of which: Daisetta city	1	0	1	0	1	0	0
of which: Plum Grove city	1	0	7	0	7	0	4
of which: Hardin city	0	0	1	0	1	0	0
of which: Kenefick city	1	0	1	0	1	0	1
of which: Dayton Lakes city (community ID not in plan data)	0	1	5	0	6	1	0
of which: Old River-Winfree city	0	0	1	0	1	0	0
of which: Baytown city (plan jurisdiction listed on the Harris County page)	1	0	1	0	1	0	0
Statewide, no county in FEMA's file	3	8	12	7	13	1	9

1 of the county's repeat-flood properties belong to NFIP communities whose plan jurisdiction is not listed on this page (the community rows above name the page that lists it).

The statewide row counts properties FEMA's file gives with no county in this state; they are listed for reference and are not in this county's counts.

Repeat-flood properties by jurisdiction in the plan (NFIP community)

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>	Note
Liberty County	480438	56	67	237	52	252	12	76	
Ames city	480044	2	1	5	1	5	0	2	
Cleveland city	480439	1	4	20	4	20	0	12	
Daisetta city	481101	1	0	1	0	1	0	0	
Dayton city	480440	10	14	36	10	40	4	6	
Devers city	481514	0	0	0	0	0	0	0	
Hardin city	481270	0	0	1	0	1	0	0	
Kenefick town	481523	1	0	1	0	1	0	1	
Liberty city	480441	22	32	63	27	67	2	24	
Mont Belvieu city	480122	0	0	5	0	5	0	1	Whole community, including the part in Chambers County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 1, NFIP SRL 0, any category 1.
North Cleveland city	481083	0	0	0	0	0	0	0	
Old River-Winfree city	481637	0	0	1	0	1	0	0	
Plum Grove city	481269	1	0	7	0	7	0	4	

Counts by occupancy group for each jurisdiction are in the Excel file, sheet "B2-c Jurisdictions".

Jurisdiction rows are whole NFIP communities and need not add up to the county total: a community that extends into another county is counted in full on each jurisdiction row, while the county table counts only its part in this county.

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	89	101	344	79	368	19	105
2 to 4 unit residential	0	0	7	0	7	0	7
other residential	0	3	9	1	9	0	7
non-residential	6	15	19	14	19	0	6
not reported	0	0	0	0	0	0	0

FEMA's occupancy groups have no institutional class; institutional properties are counted in non-residential or other residential in the table by occupancy group.

FMA RL and FMA SRL are the Flood Mitigation Assistance definitions (44 CFR 77.2), the ones the FEMA Local Mitigation Planning Policy Guide cites. NFIP repetitive loss (the FEMA insurance definition) is 2 or more claims over \$1,000 in 10 years, and a property can leave that group once it is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured. The Methods page gives the OpenFEMA field details.

Counts are aggregates of FEMA's public NFIP Multiple Loss Properties file (FEMA's data date 2026-08-02; file version 2026-08-04). No property is identified. County assignment is FEMA's geocode.

In this county 7 properties are FMA repetitive loss but not NFIP repetitive loss, and 291 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)

What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment, 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.

OpenFEMA disclaimer

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

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Liberty County, TX: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 48291). Automated baseline. <https://hazardplain.org/tx/48291/> 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.