

Fort Bend County, TX

Risk-assessment baseline packet

County FIPS: 48157 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 2029-10-29. Plan: Fort Bend County (FEMA plan 109424), approved 2024-10-30.
Since the plan was approved on 2024-10-30: no new federal declaration.
NOAA Storm Events records since that date: 10 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$168,787,443 a year), Hurricane (\$70,697,412) and Tornado (\$59,377,794).
Repetitive-loss flood properties now: FMA RL 174, SRL 85 (44 CFR 77.2); any definition: 637.
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; 48157 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 2029-10-29	Plan:	Fort Bend County (FEMA plan 109424)
Approved:	2024-10-30	Days to expiry:	1,125

What changed since your last plan (approved 2024-10-30)

New federal declarations:	none	Storm Events records since approval:	10 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 174, SRL 85 (44 CFR 77.2); any definition: 637	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: 25 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Fort Bend County	County	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		
Arcola city	City	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		this jurisdiction approved 2024-11-04
Beasley city	City	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		
Fairchilds village	Village	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		this jurisdiction approved 2024-11-30
Fulshear city	City	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		this jurisdiction approved 2024-11-04
Houston city	City	Approved, expires 2028-11-15	Houston (FEMA plan 108932)	2023-11-16	2028-11-15	777		
Kendleton city	City	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		this jurisdiction approved 2025-08-13
Meadows Place city	City	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		
Missouri City city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		Also approved under plan 109424 (Fort Bend County, expires 2029-10-29). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last. this jurisdiction approved 2026-08-25
Needville city	City	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		
Orchard city	City	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		this jurisdiction approved 2024-11-04
Pearland city	City	Approved, expires 2029-04-28	Pearland (FEMA plan 109554)	2024-04-29	2029-04-28	941		
Pleak village	Village	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		this jurisdiction approved 2024-11-30
Richmond city	City	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		this jurisdiction approved 2024-11-04

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Rosenberg city	City	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		
Simonton city	City	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		this jurisdiction approved 2024-11-04
Stafford city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-09-03
Sugar Land city	City	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		this jurisdiction approved 2025-06-04
Thompsons town	Town	Plan 109424 approved 2024-10-30, pending adoption here; not yet eligible	Fort Bend County (FEMA plan 109424), pending adoption here	2024-10-30 by FEMA; not yet adopted here	2029-10-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Weston Lakes city	City	Approved, expires 2029-10-29	Fort Bend County (FEMA plan 109424)	2024-10-30	2029-10-29	1,125		
Brazos Independent School District	School/School District	Approved, expires 2030-04-09	Austin County (FEMA plan 109771)	2025-04-10	2030-04-09	1,287		
Katy Independent School District	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Fort Bend County Levee Improvement District #7	Flood Control District	Approved, expires 2029-07-23	Fort Bend County Levee Improvement District #7 (FEMA plan 109232)	2024-07-24	2029-07-23	1,027		
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		
Sienna Parks & Levee Improvement District	Flood Control District	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	

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 High	Relatively High	\$164,792,147	\$3,334	\$3,991,962	\$168,787,443	58	
2	Hurricane	Relatively High	Very High	\$65,068,681	\$719,793	\$4,908,938	\$70,697,412	5	
3	Tornado	Very High	Very High	\$9,128,769	\$2,144	\$50,246,880	\$59,377,794	33	
4	Heat Wave	Relatively High	Relatively High	\$1,509	\$427	\$17,078,792	\$17,080,728	15	
5	Cold Wave	Relatively High	Relatively High	\$115,083	\$40,371	\$14,945,952	\$15,101,406	1	
6	Lightning	Very High	Very High	\$141,178	n/a	\$6,546,788	\$6,687,966	24	
7	Strong Wind	Relatively High	Relatively High	\$541,717	\$80,625	\$2,713,823	\$3,336,165	123	Includes 1 Strong Wind record (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
8	Ice Storm	Relatively High	Relatively High	\$77,351	n/a	\$1,541,132	\$1,618,483	3	
9	Drought	Relatively Moderate	Relatively Moderate	n/a	\$1,476,906	n/a	\$1,476,906	15	
10	Hail	Relatively Moderate	Relatively Moderate	\$378,223	\$25,614	\$407,384	\$811,220	103	
11	Earthquake	Relatively Low	Relatively Low	\$426,702	n/a	\$190,805	\$617,507		Storm Events does not record earthquakes.
12	Wildfire	Relatively Low	Relatively Low	\$412,210	\$349	\$89,489	\$502,048	0	Declared 3 times; no Storm Events record of this type.

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
13	Winter Weather	Relatively Low	Relatively Low	\$49,013	\$29	\$21,660	\$70,702	7	
14	Landslide	Very Low	Very Low	\$2,100	n/a	\$5	\$2,104	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Coastal Flooding	Very Low	Very Low	\$212	n/a	\$11	\$224	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 6718 (Relatively Low, 51.4); tract 6720.03 (Very Low, 40.9); tract 6721 (Very Low, 38.7)
Hurricane	tract 6718 (Very High, 98.0); tract 6732.02 (Relatively High, 97.0); tract 6747.02 (Relatively High, 96.6)
Landslide	tract 6733 (Relatively Low, 89.1); tract 6755.03 (Relatively Low, 84.3); tract 6732.02 (Relatively Low, 82.3)
Tornado	tract 6732.02 (Very High, 99.8); tract 6747.02 (Very High, 99.7); tract 6731.08 (Very High, 99.5)
Wildfire	tract 6732.02 (Relatively Moderate, 91.2); tract 6756 (Relatively Moderate, 90.7); tract 6731.08 (Relatively Moderate, 90.6)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 6718 is Census Tract 6718). 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, 3 direct deaths, zone-level		Countywide (zone-level records).	Wind chill: in event narratives only (local data needed).
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					Temperature: in event narratives only (local data needed).
Drought	U.S. Drought Monitor scale (D0 to D4)	15 records, 1996 to 2023 (15 zone-level)	61 days to 123 days (median 91 days); 5 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)	129 records, 1961 to 2026	0.75 in to 2.75 in (median 1 in); 129 with a recorded value	2.75 in hail, 2024-03-16; same size also recorded on 1999-05-30, 2001-04-16	Hail, 2001-04-16, \$2,000,000 property; crops not reported (2001 dollars)	Event records naming jurisdictions in the plan: Needville city (12 records), Richmond city (11 records), Fulshear city (5 records), Missouri City city (5 records), Rosenberg city (5 records), Stafford city (4 records), Arcola city (3 records), Beasley city (3 records), Orchard city (2 records), Simonton city (2 records); and 2 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	15 records, 1999 to 2023 (15 zone-level)	2 days to 31 days (median 5 days); 13 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	5 records, 1998 to 2021 (5 zone-level)		Strongest recorded: Hurricane (Typhoon) record (NOAA's event type name), 2008-09-12 to 2008-09-13, category 1, \$400,000,000 property; crops not reported (2008 dollars); NWS zone TXZ227		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 TXZ227		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)	58 records, 1997 to 2021 (2 zone-level)		Flash Flood, 2017-08-26, \$8,000,000,000 property; \$50,000 crops (2017 dollars), 3 direct deaths		Event records naming jurisdictions in the plan: Rosenberg city (8 records), Richmond city (7 records), Fulshear city (4 records), Kendleton city (3 records), Stafford city (3 records), Arcola city (2 records), Needville city (2 records), Simonton city (2 records), Beasley city (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)	24 records, 1996 to 2026		Lightning, 2003-07-23, damage not reported, 1 direct death, 2 direct injuries	Lightning, 2013-05-10, \$130,000 property; \$0 crops (2013 dollars)	Event records naming jurisdictions in the plan: Stafford city (4 records), Richmond city (3 records), Needville city (2 records), Rosenberg city (2 records), Kendleton 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)	1 record, 1997 (1 zone-level)		No wind speed recorded in 1 record.	Strong Wind, 1997-02-20, \$15,000 property; crops not reported, reported for the zone (1997 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	163 records, 1955 to 2026	50 kt (58 mph) to 70 kt (81 mph) (median 52 kt (60 mph)); 98 with a recorded value	70 kt (81 mph) estimated gust, Thunderstorm Wind, 2009-09-03	Thunderstorm Wind, 2000-05-02, \$0 property; \$2,000,000 crops (2000 dollars)	Event records naming jurisdictions in the plan: Richmond city (12 records), Rosenberg city (12 records), Needville city (10 records), Fulshear city (8 records), Missouri City city (5 records), Orchard city (5 records), Stafford city (5 records), Beasley city (4 records), Simonton city (3 records), Fairchilds village (2 records); and 5 more jurisdictions (see the Excel file).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	60 records, 1950 to 2023	F/EF0 to F/EF3 (median F/EF0); 57 with a recorded value	F3 tornado, 1965-04-19, 0.2 mi path length (whole path, pre-1996), 150 yd wide, \$25,000 property; crops not recorded (1965 dollars), 1 direct death, 3 direct injuries	Tornado, 1998-02-16, \$3,700,000 property; crops not reported (1998 dollars)	Event records naming jurisdictions in the plan: Needville city (4 records), Stafford city (4 records), Rosenberg city (2 records), Arcola city (1 record), Beasley city (1 record), Fairchilds village (1 record), Fulshear city (1 record), Kendleton city (1 record), Missouri City city (1 record), Pleak village (1 record); and 1 more jurisdiction (see the Excel file).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).

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)	7 records, 2004 to 2025 (7 zone-level)		No damage reported in 7 records.		Countywide (zone-level records).	Snow depth: in event narratives only (local data needed).

Where a hazard names more than 10 jurisdictions, the table lists the 10 with the most records; every one is in the Excel file, sheet "B1-c Extent".

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: 28 declarations covering 21 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	\$17,722,052.98	in the 12 months before plan approval; within last 5 years	
2021-02-19	2021-02-11	DR-4586-TX	Major disaster	Severe Winter Storms	Ice Storm	\$1,257,600.90		
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	\$34,610.16		
2020-07-26	2020-07-25	EM-3530-TX	Emergency	Hurricane Hanna	Hurricane	no Public Assistance recorded		
2020-03-25	2020-01-20	DR-4485-TX	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$31,445,212.72		
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
2017-08-25	2017-08-23	DR-4332-TX	Major disaster	Hurricane Harvey	Hurricane	\$46,615,701		
2016-06-11	2016-05-22	DR-4272-TX	Major disaster	Severe Storms and Flooding	Inland Flooding	\$2,668,808.01		
2016-04-25	2016-04-17	DR-4269-TX	Major disaster	Severe Storms and Flooding	Inland Flooding	\$254,921.23		

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	PA not declared for this county		
2008-09-13	2008-09-07	DR-1791-TX	Major disaster	Hurricane Ike	Hurricane (primary); also designated: Inland Flooding	\$23,117,682.41		
2008-09-10	2008-09-07	EM-3294-TX	Emergency	Hurricane Ike	Hurricane	\$0		same incident as DR-1791
2008-08-29	2008-08-27	EM-3290-TX	Emergency	Hurricane Gustav	Hurricane	no Public Assistance recorded		
2007-08-18	2007-08-17	EM-3277-TX	Emergency	Hurricane Dean	Hurricane	no Public Assistance recorded		
2006-05-26	2006-05-26	FM-2639-TX	Fire management	Lake Olympia Fire	Wildfire	no Public Assistance recorded		
2006-01-11	2005-11-27	DR-1624-TX	Major disaster	Extreme Wildfire Threat	Wildfire	no Public Assistance recorded		
2005-09-24	2005-09-23	DR-1606-TX	Major disaster	Hurricane Rita	Hurricane	\$606,324.75		
2005-09-21	2005-09-20	EM-3261-TX	Emergency	Hurricane Rita	Hurricane	\$159,722.09		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	\$90,383.36		
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	\$63,293.81		
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	\$17,376.64		
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		
1994-10-18	1994-10-14	DR-1041-TX	Major disaster	Severe Thunderstorms and Flooding	Inland Flooding	PA not declared for this county		
1991-12-26	1991-12-20	DR-930-TX	Major disaster	Severe Thunderstorms	Inland Flooding	PA not declared for this county		
1983-08-19	1983-08-18	DR-689-TX	Major disaster	Hurricane Alicia	Hurricane	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 filed under this county for declarations that do not list it: 1 row, \$5,196.96

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-1709-TX	2007-06-29	Severe Storms, Tornadoes, and Flooding	Stafford Municipal School District	\$5,196.96

FEMA's Public Assistance summaries file these applicants under this county, but FEMA's declaration rows for these disasters do not designate it (an electric cooperative or district serving several counties, for example). Not in any declaration row above and not counted.

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	

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
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	129	4	11	18	0	0	1955 to 2026-06-30	
Heat Wave	15	0	0	7	0	0	1996 to 2026-06-30	
Hurricane	5	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	58	0	0	1	8	0	1996 to 2026-06-30	
Landslide	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	24	1	0	1	0	0	1996 to 2026-06-30	
Strong Wind	164	4	5	12	1	0	1955 to 2026-06-30	Includes 1 Strong Wind record.
Tornado	60	0	0	2	3	0	1950 to 2026-06-30	
Wildfire	0	0	0	0	3	0	1996 to 2026-06-30	No Storm Events records of this type; 3 federal declared incidents (see declarations table)
Winter Weather	7	1	0	2	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	Flags	Why listed
2024-03-16	Hail	2.75 in	\$0 property; \$0 crops (2024 dollars)	0, 0	NEEDVILLE	in the 12 months before plan approval; within last 5 years	B1-c worst recorded: Hail
2021-02-15	Cold/Wind Chill		\$1,600,000 property; crops not reported, reported for the zone (2021 dollars)	3, 0	NWS zone TXZ227 (FORT BEND), zone-level		deaths or injuries recorded
2017-08-26	Flash Flood		\$8,000,000,000 property; \$50,000 crops (2017 dollars)	3, 0	KENDLETON to KATY		deaths or injuries recorded
2013-05-10	Lightning		\$130,000 property; \$0 crops (2013 dollars)	0, 0	CLODINE		B1-c most damaging: Lightning
2009-09-03	Thunderstorm Wind	70 kt (81 mph) estimated gust	\$3,000 property; \$0 crops (2009 dollars)	0, 0	CLODINE		B1-c worst recorded: Thunderstorm Wind
2008-09-12	Hurricane (Typhoon), NOAA's event type name	category 1	\$400,000,000 property; crops not reported, reported for the zone (2008 dollars)	0, 0	NWS zone TXZ227 (FORT BEND), zone-level		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2007-01-16	Ice Storm		\$2,000 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone TXZ227 (FORT BEND), zone-level		B1-c worst recorded: Ice Storm
2003-07-23	Lightning		damage not reported	1, 2	SUGARLAND		B1-c worst recorded: Lightning
1999-08-01	Heat		damage not reported	0, 0	NWS zone TXZ227 (FORT BEND), zone-level		B1-c worst recorded: Excessive Heat, Heat
1998-05-01	Drought		damage not reported	0, 0	NWS zone TXZ227 (FORT BEND), zone-level		B1-c worst recorded: Drought
1998-02-16	Tornado	F1, 1.2 mi within this county, 200 yd wide	\$3,700,000 property; crops not reported (1998 dollars)	0, 4	SUGARLAND		B1-c most damaging: Tornado
1965-04-19	Tornado	F3, 0.2 mi path length (whole path, pre-1996), 150 yd wide	\$25,000 property; crops not recorded (1965 dollars)	1, 3	location not recorded		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (481 rows).

Location is the place NOAA recorded, as written in its data; it need not be a jurisdiction in this plan.

Local data needed: state-declared emergencies, from your state emergency management agency (federal data do not include them).

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

Supports FEMA checklist item B1-e: probability of future events

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
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	0.474	event-days per year	about 0.474 days per year	Possible (from Storm Events: 1 of 30 years)	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	9	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	26.2	event-days per year	about 26.2 days per year	Likely (from Storm Events: 5 of 30 years)	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	917	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000464	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0464%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	2.11	events per year	about 2.11 per year	Highly likely	FEMA annualized frequency (modeled)	80.0 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	14.3	event-days per year	about 14.3 days per year	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	241	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.175	events per year	about 1 in 6 years	Likely	FEMA annualized frequency (modeled)	59	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	0.825	event-days per year	about 0.825 days per year	Likely (from Storm Events: 3 of 30 years)	event-days in 3 of 30 years, 1996 to 2025 (10%)	56	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.68	event-days per year	about 1.68 days per year	Likely (from Storm Events: 21 of 30 years)	event-days in 21 of 30 years, 1996 to 2025 (70%)	47	1996 to 2023 (28 years)	see B1-f	
Landslide	0.0949	events per year (modeled)	about 1 in 11 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	74.3	days per year with a strike	about 74.3 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	1.36	events per year	about 1.36 per year	Highly likely	FEMA annualized frequency (modeled)	52	1986 to 2023 (38 years)	countywide	
Tornado	0.766	events per year	about 0.77 per year	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.00161	annual probability at a location	chance a given location in the county burns in a year: 0.161%		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	1.11	event-days per year	about 1.11 days per year	Likely (from Storm Events: 6 of 30 years)	event-days in 6 of 30 years, 1996 to 2025 (20%)	21	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	52	30	1.73
Hail	2.00 in+	1996 to 2025	8	30	0.267
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	84	30	2.8
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	33	30	1.1
Tornado	EF0-1	1996 to 2025	30	30	1
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

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	2 of 133	72.2	73.0	73.8	Very Low 2, Not Applicable 131
Cold Wave	133 of 133	36.7	66.2	90.4	Relatively High 12, Relatively Moderate 110, Relatively Low 11
Drought	62 of 133	67.0	76.9	98.7	Relatively High 2, Relatively Moderate 5, Relatively Low 17, Very Low 38, No Rating 71
Earthquake	133 of 133	3.1	13.9	51.4	Relatively Low 1, Very Low 132
Hail	133 of 133	24.4	43.9	70.3	Relatively Moderate 1, Relatively Low 96, Very Low 36
Heat Wave	133 of 133	43.5	80.8	95.5	Relatively High 48, Relatively Moderate 77, Relatively Low 8
Hurricane	133 of 133	70.4	88.5	98.0	Very High 1, Relatively High 47, Relatively Moderate 83, Relatively Low 2
Ice Storm	133 of 133	36.6	70.8	90.9	Relatively High 2, Relatively Moderate 71, Relatively Low 60
Inland Flooding	133 of 133	7.2	71.9	99.7	Very High 17, Relatively High 31, Relatively Moderate 50, Relatively Low 32, Very Low 3
Landslide	124 of 133	12.3	51.8	89.1	Relatively Low 4, Very Low 120, No Rating 9
Lightning	133 of 133	52.6	89.2	99.1	Very High 13, Relatively High 88, Relatively Moderate 32

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	133 of 133	23.8	56.1	88.7	Relatively High 3, Relatively Moderate 70, Relatively Low 60
Tornado	133 of 133	59.7	90.1	99.8	Very High 48, Relatively High 70, Relatively Moderate 15
Wildfire	131 of 133	19.8	47.7	91.2	Relatively Moderate 4, Relatively Low 40, Very Low 87, No Rating 2
Winter Weather	133 of 133	16.3	22.9	41.5	Relatively Low 125, Very Low 8

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
Fort Bend County	County	Approved, expires 2029-10-29	FMA RL 71, SRL 29; any 276	\$78,014,110.86	0 total; 0 since its plan	Includes \$31,332,451.86 for declarations not counted as hazard incidents (DR-4485-TX, EM-3216-TX).
Arcola city	City	Approved, expires 2029-10-29	FMA RL 2, SRL 0; any 5	\$1,070,859.15	7 total; 0 since its plan	
Beasley city	City	Approved, expires 2029-10-29	FMA RL 0, SRL 0; any 0	\$2,505.60	9 total; 0 since its plan	
Fairchilds village	Village	Approved, expires 2029-10-29	FMA RL 1, SRL 1; any 4	no Public Assistance recorded	3 total; 0 since its plan	
Fulshear city	City	Approved, expires 2029-10-29	FMA RL 0, SRL 2; any 4	\$500,170.28	18 total; 0 since its plan	
Houston city	City	Approved, expires 2028-11-15	FMA RL 3,923, SRL 2,948; any 11,098	no Public Assistance recorded	0 total; 0 since its plan	Whole community, including the part in Comal County, Galveston County, Harris County, Montgomery County, Smith County and Trinity County, plus 8 properties with no county in FEMA's file; in-county portion (county table): FMA RL 4, FMA SRL 6, NFIP RL 21, NFIP SRL 2, any category 25.
Kendleton city	City	Approved, expires 2029-10-29	FMA RL 0, SRL 0; any 1	\$272,503.55	7 total; 0 since its plan	
Meadows Place city	City	Approved, expires 2029-10-29	FMA RL 0, SRL 0; any 5	\$212,344.49	0 total; 0 since its plan	
Missouri City city	City	Approved, expires 2031-04-15	FMA RL 2, SRL 8; any 56	\$2,052,975.06	11 total; 0 since its plan	Also approved under plan 109424 (Fort Bend County, expires 2029-10-29). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last. Whole community, including the part in Harris County; in-county portion (county table): FMA RL 2, FMA SRL 8, NFIP RL 47, NFIP SRL 8, any category 47.

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
Needville city	City	Approved, expires 2029-10-29	FMA RL 1, SRL 0; any 6	no Public Assistance recorded	30 total; 0 since its plan	
Orchard city	City	Approved, expires 2029-10-29	FMA RL 1, SRL 0; any 1	no Public Assistance recorded	7 total; 0 since its plan	
Pearland city	City	Approved, expires 2029-04-28	FMA RL 160, SRL 135; any 400	no Public Assistance recorded	1 total; 0 since its plan	Whole community, including the part in Angelina County, Brazoria County and Harris County; none of its repeat-flood properties are in this county.
Pleak village	Village	Approved, expires 2029-10-29	FMA RL 5, SRL 1; any 15	\$5,827.87	4 total; 0 since its plan	
Richmond city	City	Approved, expires 2029-10-29	FMA RL 3, SRL 6; any 27	\$1,115,313.99	34 total; 0 since its plan	
Rosenberg city	City	Approved, expires 2029-10-29	FMA RL 0, SRL 1; any 12	\$1,948,150.74	29 total; 0 since its plan	
Simonton city	City	Approved, expires 2029-10-29	FMA RL 83, SRL 29; any 136	\$247,924.02	7 total; 0 since its plan	
Stafford city	City	Approved, expires 2031-04-15	FMA RL 0, SRL 0; any 12	\$1,484,252.72	20 total; 0 since its plan	Whole community, including the part in Harris County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 9, NFIP SRL 0, any category 9.
Sugar Land city	City	Approved, expires 2029-10-29	FMA RL 0, SRL 0; any 18	\$13,889,542.18	0 total; 0 since its plan	Includes \$194,960.54 for declarations not counted as hazard incidents (DR-4485-TX, EM-3216-TX).
Thompsons town	Town	Plan 109424 approved 2024-10-30, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 7	no Public Assistance recorded	1 total; no approved plan	
Weston Lakes city	City	Approved, expires 2029-10-29	FMA RL 0, SRL 0; any 0	\$56,357.87	0 total; 0 since its plan	

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

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

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

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

Local data needed

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

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

- Changes in development in hazard-prone areas since the last approval, or a statement of none (E1-a)
- Future assets
- 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 2024-10-30 <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	\$6,201,071	n/a	9	\$212	n/a	\$11	0.00343%				
Cold Wave	\$155,989,229,508	\$109,493,651	822,580	\$115,083	\$40,371	\$14,945,952	under 0.0001%				
Drought	n/a	\$75,425,383	n/a	n/a	\$1,476,906	n/a	1.96% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$257,618,182,816	n/a	822,779	\$426,702	n/a	\$190,805	0.000166%				
Hail	\$155,989,354,452	\$109,493,651	822,581	\$378,223	\$25,614	\$407,384	0.000242%	\$0			
Heat Wave	\$155,989,229,508	\$109,493,651	822,580	\$1,509	\$427	\$17,078,792	under 0.0001%				
Hurricane	\$155,978,241,755	\$107,908,853	822,483	\$65,068,681	\$719,793	\$4,908,938	0.0417%				
Ice Storm	\$155,951,535,093	n/a	822,268	\$77,351	n/a	\$1,541,132	under 0.0001%				
Inland Flooding	\$155,873,026,181	\$19,069,579	26,850	\$164,792,147	\$3,334	\$3,991,962	n/a (see note)				NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$405,094,915	n/a	2,078	\$2,100	n/a	\$5	0.000518%				
Lightning	\$155,989,354,452	n/a	822,581	\$141,178	n/a	\$6,546,788	under 0.0001%	\$25,000			
Strong Wind	\$155,989,354,452	\$109,493,651	822,581	\$541,717	\$80,625	\$2,713,823	0.000347%	\$3,000			
Tornado	\$155,989,354,452	\$109,493,651	822,581	\$9,128,769	\$2,144	\$50,246,880	0.00585%				
Wildfire	\$11,971,136,740	\$27,164,515	93,642	\$412,210	\$349	\$89,489	0.00344%				
Winter Weather	\$155,989,229,508	\$109,493,651	822,580	\$49,013	\$29	\$21,660	under 0.0001%		\$0		

Totals since 2024-10-30 (Storm Events through 2026-06-30): 9 county-coded records, 9 with a damage value recorded (including \$0), \$28,000; 1 zone-level records, 1 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	822,581
Building value (total, not at risk)	\$155,989,354,452
Agriculture value (total, not at risk)	\$109,493,651
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$243,484,488
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)	\$102,683,621
Social vulnerability rating	Very Low
Community resilience rating	Relatively High
NRI version	December 2025

FEMA's all-hazard expected annual loss adds buildings, agriculture and population equivalence; this table gives the property part and the population-equivalence part as separate rows.

Social vulnerability: higher means people are more likely to be harmed and slower to recover. Community resilience: lower means the community is less able to recover. High social vulnerability and low resilience both raise the NRI risk rating.

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	174	Severe repetitive loss, FMA definition (44 CFR 77.2)	85
Repetitive loss, NFIP insurance definition	614	Severe repetitive loss, NFIP insurance definition	69

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	174	85	614	69	637	18	307
of which: Fort Bend County (unincorporated area)	71	29	271	25	276	5	151
of which: Richmond city	3	6	27	6	27	0	6
of which: Rosenberg city	0	1	12	1	12	0	1
of which: Stafford city	0	0	9	0	9	0	3

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: Sugar Land city	0	0	18	0	18	0	5
of which: Houston city	4	6	21	2	25	1	8
of which: Katy city (plan jurisdiction listed on the Harris County page)	0	1	12	1	12	0	8
of which: Missouri City city	2	8	47	8	47	0	12
of which: Needville city	1	0	6	0	6	0	4
of which: Fort Bend County M.u.d. #2 (community ID not in plan data)	0	0	1	0	1	0	0
of which: Fort Bend County L.i.d. #2 (community ID not in plan data)	0	1	4	1	5	0	1
of which: Pecan Grove M.u.d. (community ID not in plan data)	0	0	10	0	10	0	3
of which: Fulshear city	0	2	4	2	4	0	0
of which: Kendleton city	0	0	1	0	1	0	0
of which: Meadows Place city	0	0	5	0	5	0	1
of which: Simonton city	83	29	124	21	136	12	78
of which: Kingsbridge M.u.d. (community ID not in plan data)	1	0	4	0	4	0	0
of which: Chelford M.u.d. city (community ID not in plan data)	0	0	2	0	2	0	0
of which: First Colony L.i.d. (community ID not in plan data)	0	0	2	0	2	0	2
of which: Fort Bend County M.u.d. #30 (community ID not in plan data)	0	0	1	0	1	0	0
of which: West Keegans Bayou Improvement District (community ID not in plan data)	0	0	2	0	2	0	1
of which: Pleak village	5	1	14	1	15	0	13
of which: Arcola City of	2	0	5	0	5	0	4
of which: Thompsons town	0	0	7	0	7	0	5
of which: Orchard city	1	0	1	0	1	0	0
of which: Fairchilds village	1	1	4	1	4	0	1
Statewide, no county in FEMA's file	3	8	12	7	13	1	9

12 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
Fort Bend County	480228	71	29	271	25	276	5	151	
Arcola city	481619	2	0	5	0	5	0	4	
Beasley city	481654	0	0	0	0	0	0	0	
Fairchilds village	481675	1	1	4	1	4	0	1	

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
Fulshear city	481488	0	2	4	2	4	0	0	
Houston city	480296	3,923	2,948	9,489	2,199	11,098	499	5,362	Whole community, including the part in Comal County, Galveston County, Harris County, Montgomery County, Smith County and Trinity County, plus 8 properties with no county in FEMA's file; in-county portion (county table): FMA RL 4, FMA SRL 6, NFIP RL 21, NFIP SRL 2, any category 25.
Kendleton city	481551	0	0	1	0	1	0	0	
Meadows Place city	481563	0	0	5	0	5	0	1	
Missouri City city	480304	2	8	56	8	56	0	16	Whole community, including the part in Harris County; in-county portion (county table): FMA RL 2, FMA SRL 8, NFIP RL 47, NFIP SRL 8, any category 47.
Needville city	480820	1	0	6	0	6	0	4	
Orchard city	481655	1	0	1	0	1	0	0	
Pearland city	480077	160	135	296	88	400	37	210	Whole community, including the part in Angelina County, Brazoria County and Harris County; none of its repeat-flood properties are in this county.
Pleak village	481615	5	1	14	1	15	0	13	
Richmond city	480231	3	6	27	6	27	0	6	
Rosenberg city	480232	0	1	12	1	12	0	1	
Simonton city	481564	83	29	124	21	136	12	78	
Stafford city	480233	0	0	12	0	12	0	3	Whole community, including the part in Harris County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 9, NFIP SRL 0, any category 9.
Sugar Land city	480234	0	0	18	0	18	0	5	
Thompsons town	481642	0	0	7	0	7	0	5	
Weston Lakes city	481197	0	0	0	0	0	0	0	

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

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

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	169	75	560	60	582	17	285
2 to 4 unit residential	1	0	4	0	4	0	2
other residential	1	7	22	7	22	0	5
non-residential	3	3	28	2	29	1	15
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 15 properties are FMA repetitive loss but not NFIP repetitive loss, and 455 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_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_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). Fort Bend County, TX: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 48157). Automated baseline. <https://hazardplain.org/tx/48157/> 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.