

Brazoria County, TX

Risk-assessment baseline packet

County FIPS: 48039 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 2029-09-08. Plan: Brazoria County (FEMA plan 109176), approved 2024-09-09.
Since the plan was approved on 2024-09-09: no new federal declaration.
NOAA Storm Events records since that date: 18 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$78,210,369 a year), Hurricane (\$43,631,619) and Tornado (\$20,869,692).
Repetitive-loss flood properties now: FMA RL 448, SRL 443 (44 CFR 77.2); any definition: 2,126.
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; 48039 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 2029-09-08	Plan:	Brazoria County (FEMA plan 109176)
Approved:	2024-09-09	Days to expiry:	1,074

What changed since your last plan (approved 2024-09-09)

New federal declarations:	none	Storm Events records since approval:	18 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 448, SRL 443 (44 CFR 77.2); any definition: 2,126	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: 39 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
Brazoria County	County	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Alvin city	City	Approved, expires 2031-05-06	Alvin (FEMA plan 111138)	2026-05-07	2031-05-06	1,679		this jurisdiction approved 2026-05-20
Angleton city	City	Approved, expires 2030-04-27	Angleton (FEMA plan 109830)	2025-04-28	2030-04-27	1,305		
Bailey's Prairie village	Village	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Bonney village	Village	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Brazoria city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Brookside Village city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Clute city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Danbury city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Freeport city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Hillcrest village	Village	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Holiday Lakes town	Town	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Iowa Colony village	Village	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Jones Creek village	Village	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Lake Jackson city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Liverpool city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Manvel city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Oyster Creek city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Pearland city	City	Approved, expires 2029-04-28	Pearland (FEMA plan 109554)	2024-04-29	2029-04-28	941		
Quintana town	Town	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Richwood city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Surfside Beach city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Sweeny city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
West Columbia city	City	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Alvin Independent School District	School/School District	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Brazosport Independent School District	School/School District	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Damon Independent School District	School/School District	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Danbury Independent School District	School/School District	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Sweeny Independent School District	School/School District	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Brazoria County Drainage District #4	Flood Control District	Approved, expires 2031-03-30	Brazoria County Drainage District #4 (FEMA plan 110440)	2026-03-31	2031-03-30	1,642		
Brazoria County Drainage District #5	Flood Control District	Expired on 2025-01-20	Brazoria County Drainage District #5 (FEMA plan 106025)	2020-01-21	2025-01-20	-618		
Brazoria County Municipal Utility District #2	Water/Sewer Authority	No approved plan on record	none	none	none			FEMA tracker shows a plan in review
Brazoria County Municipal Utility District #3	Water/Sewer Authority	No approved plan on record	none	none	none			FEMA tracker shows a plan in review
Brazoria County Municipal Utility District #6	Water/Sewer Authority	No approved plan on record	none	none	none			FEMA tracker shows a plan in review
Brazosport College	College/University	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Drainage District 11	Flood Control District	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Gulf Coast Water Authority	Water/Sewer Authority	Approved, expires 2028-03-26	Gulf Coast Water Authority (FEMA plan 107113)	2023-03-27	2028-03-26	543		
Port Freeport	Highway/Port/Rail	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		
Velasco Drainage District	Flood Control District	Approved, expires 2029-09-08	Brazoria County (FEMA plan 109176)	2024-09-09	2029-09-08	1,074		

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	\$69,062,443	\$4,997	\$9,142,929	\$78,210,369	65	
2	Hurricane	Relatively High	Relatively High	\$39,904,632	\$956,220	\$2,770,767	\$43,631,619	15	
3	Tornado	Relatively High	Relatively High	\$3,373,321	\$2,001	\$17,494,370	\$20,869,692	45	
4	Cold Wave	Relatively Moderate	Relatively High	\$38,057	\$34,376	\$4,981,984	\$5,054,417	1	
5	Heat Wave	Relatively Moderate	Relatively Moderate	\$640	\$409	\$4,950,577	\$4,951,627	13	
6	Lightning	Relatively High	Relatively High	\$70,858	n/a	\$2,211,475	\$2,282,333	19	
7	Coastal Flooding	Relatively Moderate	Relatively Moderate	\$1,798,248	n/a	\$191,537	\$1,989,786	13	
8	Drought	Relatively Moderate	Relatively Moderate	n/a	\$1,365,492	n/a	\$1,365,492	17	
9	Wildfire	Relatively Low	Relatively Low	\$697,428	\$1,269	\$187,927	\$886,624	0	Declared 2 times; no Storm Events record of this type.
10	Strong Wind	Relatively Moderate	Relatively Moderate	\$259,190	\$12,407	\$550,900	\$822,497	157	Includes 2 Strong Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
11	Ice Storm	Relatively High	Relatively High	\$16,187	n/a	\$675,099	\$691,287	2	

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
12	Hail	Relatively Low	Relatively Low	\$59,573	\$18,638	\$354,193	\$432,403	90	
13	Earthquake	Very Low	Very Low	\$187,039	n/a	\$67,299	\$254,337		Storm Events does not record earthquakes.
14	Winter Weather	Very Low	Relatively Low	\$11,618	\$19	\$11,248	\$22,885	4	
15	Landslide	Very Low	Very Low	\$986	n/a	\$3	\$988	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Tsunami	Insufficient Data	Insufficient Data	n/a	n/a	n/a	n/a	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, landslide and tsunami 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 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 6610 (Very Low, 24.3); tract 6607.03 (Very Low, 23.6); tract 6606.10 (Very Low, 21.8)
Hurricane	tract 6642 (Relatively High, 96.2); tract 6627 (Relatively High, 95.6); tract 6610 (Relatively High, 95.3)
Landslide	tract 6627 (Relatively Low, 84.0); tract 6621 (Relatively Low, 81.9); tract 6617 (Relatively Low, 81.0)
Tornado	tract 6610 (Very High, 97.7); tract 6619.02 (Very High, 96.4); tract 6619.01 (Relatively High, 92.8)
Tsunami	no tract has a National Risk Index rating for this hazard
Wildfire	tract 6641 (Relatively High, 96.9); tract 6645.01 (Relatively Moderate, 95.4); tract 6642 (Relatively Moderate, 94.8)

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 6610 is Census Tract 6610). 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)	13 records, 1996 to 2024 (13 zone-level)		Storm Surge/Tide, 2008-09-12, \$1,000,000,000 property; crops not reported (2008 dollars); NWS zone TXZ237		Countywide (zone-level records).	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, 1 direct death, zone-level	Cold/Wind Chill, 2021-02-15, \$880,000 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)	17 records, 1996 to 2023 (17 zone-level)	61 days to 149 days (median 91 days); 5 with a recorded value	149 days (about 4.9 months), 2022-04-05 to 2022-08-31, a run of 6 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)	134 records, 1960 to 2026	0.75 in to 2.75 in (median 1 in); 133 with a recorded value	2.75 in hail, 2012-04-04	Hail, 2007-03-12, \$200,000 property; \$0 crops (2007 dollars)	Event records naming jurisdictions in the plan: Pearland city (15 records), Alvin city (14 records), Iowa Colony village (11 records), Angleton city (10 records), Manvel city (9 records), Brazoria city (6 records), Freeport city (5 records), Sweeny city (3 records), West Columbia city (3 records), Danbury city (2 records); and 4 more jurisdictions (see the Excel file).	
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).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	15 records, 1998 to 2024 (15 zone-level)		Strongest recorded: Hurricane (Typhoon) record (NOAA's event type name), 2008-09-12 to 2008-09-13, category 1, \$700,000,000 property; crops not reported (2008 dollars); NWS zone TXZ237		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.
Ice Storm	Sperry-Piltz ice scale (local data)	2 records, 1997 to 2011 (2 zone-level)		No damage reported in 2 records.		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)	65 records, 1997 to 2026 (2 zone-level)		Flash Flood, 2017-08-26, \$2,000,000,000 property; \$100,000 crops (2017 dollars)		Event records naming jurisdictions in the plan: Pearland city (9 records), Angleton city (5 records), Freeport city (5 records), Brazoria city (4 records), Sweeny city (4 records), Alvin city (3 records), Iowa Colony village (3 records), Manvel city (3 records), Lake Jackson city (2 records), West Columbia city (2 records); and 3 more jurisdictions (see the Excel file). 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)	19 records, 1997 to 2019		Lightning, 2007-10-07, \$0 property; \$0 crops (2007 dollars), 1 direct death	Lightning, 2007-06-15, \$210,000 property; \$0 crops (2007 dollars)	Event records naming jurisdictions in the plan: Pearland city (4 records), Iowa Colony village (3 records), Danbury city (2 records), Freeport city (2 records), Lake Jackson city (2 records), Manvel city (2 records), Angleton city (1 record), Liverpool city (1 record), Quintana town (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	2 records, 1997 to 2017 (2 zone-level)	38 kt (44 mph); 1 with a recorded value	38 kt (44 mph) measured gust, Strong Wind, 2017-01-22; NWS zone TXZ237	Strong Wind, 1997-02-20, \$2,000 property; crops not reported, reported for the zone (1997 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	200 records, 1965 to 2026	50 kt (58 mph) to 75 kt (86 mph) (median 53 kt (61 mph)); 126 with a recorded value	75 kt (86 mph), measurement type not recorded, Thunderstorm Wind, 1991-01-14	Thunderstorm Wind, 2000-05-02, \$1,000,000 property; crops not reported (2000 dollars)	Event records naming jurisdictions in the plan: Pearland city (18 records), Alvin city (16 records), Angleton city (13 records), Brazoria city (10 records), Freeport city (9 records), Lake Jackson city (9 records), Manvel city (8 records), Danbury city (7 records), Iowa Colony village (7 records), West Columbia city (6 records); and 8 more jurisdictions (see the Excel file).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Tornado	Enhanced Fujita (Fujita before Feb 2007)	96 records, 1950 to 2024	F/EF0 to F/EF3 (median F/EF0); 93 with a recorded value	F3 tornado, 1976-03-08, 13.4 mi path length (whole path, pre-1996), 200 yd wide, \$2,500,000 property; crops not recorded (1976 dollars), 18 direct injuries		Event records naming jurisdictions in the plan: Manvel city (5 records), Brazoria city (4 records), Pearland city (4 records), Angleton city (3 records), Danbury city (3 records), Liverpool city (3 records), Oyster Creek city (3 records), Iowa Colony village (2 records), Lake Jackson city (2 records), Alvin city (1 record); and 4 more jurisdictions (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).
Tsunami	none (count and damage only)	0					Physical measure: in event narratives only (local data needed).
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, 2009 to 2025 (4 zone-level)		No damage reported in 4 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: 34 declarations covering 27 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	\$32,512,022.72	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	\$940,296.19		
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	\$127,347.79		
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	\$1,856,111.12		
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	\$27,422,202.77		
2016-06-11	2016-05-22	DR-4272-TX	Major disaster	Severe Storms and Flooding	Inland Flooding	\$1,582,396.43		
2015-11-25	2015-10-22	DR-4245-TX	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind; Tornado	PA not declared for this county		
2015-05-29	2015-05-04	DR-4223-TX	Major disaster	Severe Storms, Tornadoes, Straight-Line Winds and Flooding	Inland Flooding; Strong Wind; Tornado	\$261,460.96		
2008-09-13	2008-09-07	DR-1791-TX	Major disaster	Hurricane Ike	Hurricane (primary); also designated: Inland Flooding	\$37,792,462.94		
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	no Public Assistance recorded		
2007-08-18	2007-08-17	EM-3277-TX	Emergency	Hurricane Dean	Hurricane	no Public Assistance recorded		
2006-01-11	2005-11-27	DR-1624-TX	Major disaster	Extreme Wildfire Threat	Wildfire	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>		
2005-09-24	2005-09-23	DR-1606-TX	Major disaster	Hurricane Rita	Hurricane	\$1,996,209.68		
2005-09-21	2005-09-20	EM-3261-TX	Emergency	Hurricane Rita	Hurricane	\$505,746.34		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	\$18,050.50		
2003-07-17	2003-07-15	DR-1479-TX	Major disaster	Hurricane Claudette	Hurricane	\$1,763,072.27		
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		
2002-09-26	2002-09-06	DR-1434-TX	Major disaster	Tropical Storm Fay	Hurricane	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	\$423,112.80		
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	PA not declared for this county		
1998-09-23	1998-09-09	DR-1245-TX	Major disaster	Hurricane Georges - Texas	Hurricane; Inland Flooding	no Public Assistance recorded		
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	no Public Assistance recorded		
1991-04-12	1991-04-05	DR-900-TX	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	PA not declared for this county		
1983-08-19	1983-08-18	DR-689-TX	Major disaster	Hurricane Alicia	Hurricane	no Public Assistance recorded		
1979-09-25	1979-09-25	DR-603-TX	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1979-07-28	1979-07-28	DR-595-TX	Major disaster	Storms & Flash Floods	Inland Flooding	no Public Assistance recorded		
1973-07-11	1973-07-11	DR-398-TX	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		

School districts and special districts in this county: \$6,877,022.11 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan participants in this county. They have no row of their own in the jurisdiction table, so their total is listed here. These dollars are already included in the county PA column of the declarations table (the FEMA record places each applicant in this county), so this line is not added to it.

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	13	0	1	1	0	0	1996 to 2026-06-30	
Cold Wave	1	0	0	0	0	0	1996 to 2026-06-30	
Drought	17	0	1	8	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	134	7	3	11	0	0	1955 to 2026-06-30	
Heat Wave	13	0	0	6	0	0	1996 to 2026-06-30	
Hurricane	15	0	1	1	13	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
Ice Storm	2	0	0	0	1	0	1996 to 2026-06-30	
Inland Flooding	65	2	0	2	13	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	19	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	202	7	14	25	2	0	1955 to 2026-06-30	Includes 2 Strong Wind records.
Tornado	96	1	1	4	5	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0	0	0	0	2	0	1996 to 2026-06-30	No Storm Events records of this type; 2 federal declared incidents (see declarations table)
Winter Weather	4	1	0	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	Flags	Why listed
2024-12-28	Tornado	EF2, 8.9 mi within this county, 300 yd wide	\$0 property; \$0 crops (2024 dollars)	1, 5	LIVERPOOL	new since last plan; within last 5 years	deaths or injuries recorded
2022-04-05	Drought		\$0 property; \$0 crops, reported for the zone (2022 dollars)	0, 0	NWS zone TXZ437 (BRAZORIA ISLANDS), zone-level	within last 5 years	B1-c worst recorded: Drought
2021-02-15	Cold/Wind Chill		\$880,000 property; \$0 crops, reported for the zone (2021 dollars)	1, 0	NWS zone TXZ237 (INLAND BRAZORIA), zone-level		deaths or injuries recorded
2017-08-26	Flash Flood		\$2,000,000,000 property; \$100,000 crops (2017 dollars)	0, 0	PEARLAND to DAMON		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2017-01-22	Strong Wind	38 kt (44 mph) measured gust	\$1,500 property; \$0 crops, reported for the zone (2017 dollars)	0, 0	NWS zone TXZ237 (BRAZORIA), zone-level		B1-c worst recorded: High Wind and Strong Wind
2012-04-04	Hail	2.75 in	\$5,000 property; \$0 crops (2012 dollars)	0, 0	ALVIN ARPK		B1-c worst recorded: Hail
2008-09-12	Hurricane (Typhoon), NOAA's event type name	category 1	\$700,000,000 property; crops not reported, reported for the zone (2008 dollars)	0, 0	NWS zone TXZ237 (BRAZORIA), zone-level		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2008-09-12	Storm Surge/Tide		\$1,000,000,000 property; crops not reported, reported for the zone (2008 dollars)	0, 0	NWS zone TXZ237 (BRAZORIA), zone-level		B1-c worst recorded: Coastal Flood, Storm Surge/Tide
2007-10-07	Lightning		\$0 property; \$0 crops (2007 dollars)	1, 0	DANBURY		deaths or injuries recorded
1999-08-01	Heat		\$0 property; crops not reported, reported for the zone (1999 dollars)	0, 0	NWS zone TXZ237 (BRAZORIA), zone-level		B1-c worst recorded: Excessive Heat, Heat
1991-01-14	Thunderstorm Wind	75 kt (86 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind
1976-03-08	Tornado	F3, 13.4 mi path length (whole path, pre-1996), 200 yd wide	\$2,500,000 property; crops not recorded (1976 dollars)	0, 18	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (581 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	3.74	events per year at a location (modeled)	about 3.7 per year at a given location in the county	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	Descriptor from NRI: the rate at a location is 1 or more a year, so the county rate is at least that.
Cold Wave	0.438	event-days per year	about 0.438 days per year	Possible (from Storm Events: 1 of 30 years)	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	7.79	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	28.5	event-days per year	about 28.5 days per year	Likely (from Storm Events: 5 of 30 years)	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	1,134	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000474	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0474%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	1.59	events per year	about 1.59 per year	Highly likely	FEMA annualized frequency (modeled)	61.5 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	14.9	event-days per year	about 14.9 days per year	Likely (from Storm Events: 5 of 30 years)	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	245	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.218	events per year	about 1 in 5 years	Likely	FEMA annualized frequency (modeled)	87	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	0.691	event-days per year	about 0.691 days per year	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	43	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.86	event-days per year	about 1.86 days per year	Likely (from Storm Events: 16 of 30 years)	event-days in 16 of 30 years, 1996 to 2025 (53.3%)	52	1996 to 2023 (28 years)	see B1-f	
Landslide	0.134	events per year (modeled)	about 1 in 7 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area- weighted, so can be fractional)	NRI period	Location	Note
Lightning	70	days per year with a strike	about 70 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	1.03	events per year	about 1.03 per year	Highly likely	FEMA annualized frequency (modeled)	36	1986 to 2023 (38 years)	countywide	
Tornado	1.11	events per year	about 1.11 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)			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
Wildfire	0.00415	annual probability at a location	chance a given location in the county burns in a year: 0.415%		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	0.893	event-days per year	about 0.893 days per year	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	16.8	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	37	30	1.23
Hail	2.00 in+	1996 to 2025	5	30	0.167
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	100	30	3.33
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	3	30	0.1
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	46	30	1.53
Tornado	EF0-1	1996 to 2025	42	30	1.4
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	44 of 77	71.7	83.9	99.7	Very High 1, Relatively High 1, Relatively Moderate 8, Relatively Low 30, Very Low 4, No Rating 33
Cold Wave	77 of 77	29.6	52.8	76.3	Relatively Moderate 54, Relatively Low 23
Drought	46 of 77	68.0	82.9	98.4	Relatively High 1, Relatively Moderate 9, Relatively Low 16, Very Low 20, No Rating 31
Earthquake	77 of 77	5.9	12.5	24.3	Very Low 77
Hail	77 of 77	25.3	43.4	62.4	Relatively Low 65, Very Low 12
Heat Wave	77 of 77	25.1	62.4	86.5	Relatively High 1, Relatively Moderate 52, Relatively Low 24
Hurricane	77 of 77	80.8	90.2	96.2	Relatively High 41, Relatively Moderate 36
Ice Storm	77 of 77	27.6	62.2	86.3	Relatively Moderate 18, Relatively Low 58, Very Low 1
Inland Flooding	77 of 77	6.0	70.7	96.6	Very High 1, Relatively High 24, Relatively Moderate 37, Relatively Low 14, Very Low 1
Landslide	70 of 77	10.7	53.8	84.0	Relatively Low 3, Very Low 67, No Rating 7
Lightning	77 of 77	41.6	76.4	96.1	Very High 1, Relatively High 32, Relatively Moderate 42, Relatively Low 2
Strong Wind	77 of 77	16.6	34.7	62.4	Relatively Moderate 2, Relatively Low 73, Very Low 2
Tornado	77 of 77	52.8	78.8	97.7	Very High 2, Relatively High 51, Relatively Moderate 23, Relatively Low 1
Tsunami	0 of 77				Insufficient Data 77
Wildfire	75 of 77	24.9	70.0	96.9	Relatively High 1, Relatively Moderate 10, Relatively Low 28, Very Low 36, No Rating 2
Winter Weather	77 of 77	16.0	19.7	26.7	Relatively Low 61, Very Low 16

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
Brazoria County	County	Approved, expires 2029-09-08	FMA RL 192, SRL 178; any 1,024	\$29,204,368.22	0 total; 0 since its plan	Includes \$1,027,154.73 for declarations not counted as hazard incidents (DR-4485-TX).
Alvin city	City	Approved, expires 2031-05-06	FMA RL 25, SRL 30; any 133	\$6,707,790.13	34 total; 1 since its plan	
Angleton city	City	Approved, expires 2030-04-27	FMA RL 2, SRL 16; any 98	\$4,339,373.91	32 total; 0 since its plan	Includes \$18,604.97 for declarations not counted as hazard incidents (DR-4485-TX).
Bailey's Prairie village	Village	Approved, expires 2029-09-08	FMA RL 13, SRL 6; any 33	\$12,887.10	0 total; 0 since its plan	
Bonney village	Village	Approved, expires 2029-09-08	FMA RL 0, SRL 0; any 0	\$7,132.85	3 total; 0 since its plan	
Brazoria city	City	Approved, expires 2029-09-08	FMA RL 6, SRL 5; any 26	\$1,075,848.71	24 total; 0 since its plan	
Brookside Village city	City	Approved, expires 2029-09-08	FMA RL 21, SRL 12; any 57	\$1,189,552.21	0 total; 0 since its plan	
Clute city	City	Approved, expires 2029-09-08	FMA RL 2, SRL 2; any 24	\$2,755,195.70	7 total; 0 since its plan	
Danbury city	City	Approved, expires 2029-09-08	FMA RL 0, SRL 1; any 9	\$496,320.36	15 total; 1 since its plan	
Freeport city	City	Approved, expires 2029-09-08	FMA RL 2, SRL 4; any 45	\$2,256,374.91	21 total; 0 since its plan	
Hillcrest village	Village	Approved, expires 2029-09-08	FMA RL 0, SRL 0; any 7	no Public Assistance recorded	0 total; 0 since its plan	
Holiday Lakes town	Town	Approved, expires 2029-09-08	FMA RL 4, SRL 3; any 18	\$938,880.11	0 total; 0 since its plan	
Iowa Colony village	Village	Approved, expires 2029-09-08	FMA RL 4, SRL 2; any 7	\$263,929.21	26 total; 3 since its plan	
Jones Creek village	Village	Approved, expires 2029-09-08	FMA RL 1, SRL 1; any 19	\$1,757,077.04	3 total; 0 since its plan	
Lake Jackson city	City	Approved, expires 2029-09-08	FMA RL 1, SRL 3; any 19	\$9,515,399.32	17 total; 1 since its plan	Includes \$1,421.31 for declarations not counted as hazard incidents (EM-3216-TX).
Liverpool city	City	Approved, expires 2029-09-08	FMA RL 2, SRL 1; any 7	\$195,188.17	5 total; 2 since its plan	
Manvel city	City	Approved, expires 2029-09-08	FMA RL 4, SRL 13; any 33	\$1,561,755.03	27 total; 0 since its plan	

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>	
Oyster Creek city	City	Approved, expires 2029-09-08	FMA RL 0, SRL 0; any 4	\$419,193.87	6 total; 0 since its plan	
Pearland city	City	Approved, expires 2029-04-28	FMA RL 160, SRL 135; any 400	\$18,348,282.86	50 total; 3 since its plan	Whole community, including the part in Angelina County and Harris County; in-county portion (county table): FMA RL 152, FMA SRL 125, NFIP RL 263, NFIP SRL 84, any category 357. Includes \$440,821.89 for declarations not counted as hazard incidents (DR-4485-TX, EM-3216-TX).
Quintana town	Town	Approved, expires 2029-09-08	FMA RL 0, SRL 0; any 1	\$277,990.69	3 total; 1 since its plan	
Richwood city	City	Approved, expires 2029-09-08	FMA RL 1, SRL 4; any 12	\$1,564,027.62	1 total; 0 since its plan	Includes \$115,698.68 for declarations not counted as hazard incidents (DR-4485-TX).
Surfside Beach city	City	Approved, expires 2029-09-08	FMA RL 11, SRL 27; any 152	\$5,487,250.70	0 total; 0 since its plan	
Sweeny city	City	Approved, expires 2029-09-08	FMA RL 4, SRL 5; any 10	\$770,675.16	11 total; 0 since its plan	
West Columbia city	City	Approved, expires 2029-09-08	FMA RL 1, SRL 4; any 25	\$1,443,075.27	12 total; 2 since its plan	Includes \$1,201.80 for declarations not counted as hazard incidents (EM-3216-TX).

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 2024-09-09 <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	\$22,187,943,781	n/a	127,797	\$1,798,248	n/a	\$191,537	0.0081%				
Cold Wave	\$64,563,706,129	\$102,413,713	371,473	\$38,057	\$34,376	\$4,981,984	under 0.0001%				
Drought	n/a	\$46,472,826	n/a	n/a	\$1,365,492	n/a	2.94% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$110,630,406,515	n/a	372,031	\$187,039	n/a	\$67,299	0.000169%				
Hail	\$64,563,736,724	\$102,413,713	371,474	\$59,573	\$18,638	\$354,193	under 0.0001%	\$0			
Heat Wave	\$64,563,706,129	\$102,413,713	371,473	\$640	\$409	\$4,950,577	under 0.0001%				
Hurricane	\$64,562,321,891	\$102,147,836	371,465	\$39,904,632	\$956,220	\$2,770,767	0.0618%				
Ice Storm	\$64,472,410,572	n/a	371,278	\$16,187	n/a	\$675,099	under 0.0001%				
Inland Flooding	\$64,502,944,013	\$43,086,764	73,934	\$69,062,443	\$4,997	\$9,142,929	n/a (see note)	\$21,000			NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$145,013,383	n/a	811	\$986	n/a	\$3	0.00068%				
Lightning	\$64,563,736,724	n/a	371,474	\$70,858	n/a	\$2,211,475	0.00011%				
Strong Wind	\$64,563,736,724	\$102,413,713	371,474	\$259,190	\$12,407	\$550,900	0.000401%	\$12,000			
Tornado	\$64,563,736,724	\$102,413,713	371,474	\$3,373,321	\$2,001	\$17,494,370	0.00522%	\$0			

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 2024-09-09 <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
Tsunami	n/a	n/a	n/a	n/a	n/a	n/a					NRI publishes no building exposure for this county
Wildfire	\$4,204,412,610	\$41,039,419	46,328	\$697,428	\$1,269	\$187,927	0.0166%				
Winter Weather	\$64,563,706,129	\$102,413,713	371,473	\$11,618	\$19	\$11,248	under 0.0001%		\$0		

Totals since 2024-09-09 (Storm Events through 2026-06-30): 17 county-coded records, 17 with a damage value recorded (including \$0), \$33,000; 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	371,474
Building value (total, not at risk)	\$64,563,736,724
Agriculture value (total, not at risk)	\$102,413,713
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$117,876,050
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)	\$43,590,308
Social vulnerability rating	Relatively Low
Community resilience rating	Very 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)	448	Severe repetitive loss, FMA definition (44 CFR 77.2)	443
Repetitive loss, NFIP insurance definition	1,963	Severe repetitive loss, NFIP insurance definition	355

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	448	443	1,963	355	2,126	59	762
of which: Angleton city	2	16	98	16	98	0	24
of which: Bailey's Prairie village	13	6	33	5	33	0	20
of which: Brazoria city	6	5	26	4	26	0	6
of which: Brookside Village city	21	12	48	9	57	2	29
of which: Clute city	2	2	24	2	24	0	2
of which: Danbury city	0	1	9	1	9	0	4
of which: Sandy Point city (community ID not in plan data)	0	1	1	1	1	0	1
of which: Jones Creek village	1	1	19	1	19	0	4
of which: Liverpool city	2	1	7	1	7	0	2
of which: Manvel city	4	13	33	13	33	0	5
of which: Pearland city	152	125	263	84	357	32	190
of which: Quintana city (community ID not in plan data)	0	0	2	0	2	0	0
of which: West Columbia city	1	4	24	4	25	0	6
of which: Iowa Colony city	4	2	6	2	7	0	4
of which: Oyster Creek city	0	0	4	0	4	0	0
of which: Surfside Beach city	11	27	146	22	152	3	57
of which: Quintana town	0	0	1	0	1	0	0
of which: Alvin city	25	30	131	28	133	2	32
of which: Brazoria County (unincorporated area)	192	178	977	146	1,024	17	354
of which: Freeport city	2	4	43	2	45	1	6
of which: Friendswood city (plan jurisdiction listed on the Galveston County and Harris County page)	0	0	3	0	3	0	0
of which: Hillcrest Village city	0	0	7	0	7	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: Lake Jackson city	1	3	19	3	19	2	2
of which: Richwood city	1	4	12	4	12	0	3
of which: Sweeny city	4	5	9	5	10	0	5
of which: Holiday Lakes town	4	3	18	2	18	0	3
Statewide, no county in FEMA's file	3	8	12	7	13	1	9

3 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
Brazoria County	485458	192	178	977	146	1,024	17	354	
Alvin city	485451	25	30	131	28	133	2	32	
Angleton city	480064	2	16	98	16	98	0	24	
Bailey's Prairie village	480065	13	6	33	5	33	0	20	
Bonney village	481300	0	0	0	0	0	0	0	
Brazoria city	480066	6	5	26	4	26	0	6	
Brookside Village city	480067	21	12	48	9	57	2	29	
Clute city	480068	2	2	24	2	24	0	2	
Danbury city	480069	0	1	9	1	9	0	4	
Freeport city	485467	2	4	43	2	45	1	6	
Hillcrest village	485478	0	0	7	0	7	0	3	
Holiday Lakes town	485517	4	3	18	2	18	0	3	
Iowa Colony village	481071	4	2	6	2	7	0	4	
Jones Creek village	480072	1	1	19	1	19	0	4	
Lake Jackson city	485484	1	3	19	3	19	2	2	
Liverpool city	480075	2	1	7	1	7	0	2	
Manvel city	480076	4	13	33	13	33	0	5	
Oyster Creek city	481255	0	0	4	0	4	0	0	

Jurisdiction	NFIP community ID	RL, FMA properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties	Note
Pearland city	480077	160	135	296	88	400	37	210	Whole community, including the part in Angelina County and Harris County; in-county portion (county table): FMA RL 152, FMA SRL 125, NFIP RL 263, NFIP SRL 84, any category 357.
Quintana town	481301	0	0	1	0	1	0	0	
Richwood city	485502	1	4	12	4	12	0	3	
Surfside Beach city	481266	11	27	146	22	152	3	57	
Sweeny city	485512	4	5	9	5	10	0	5	
West Columbia city	480081	1	4	24	4	25	0	6	

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 properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties
single-family residential	442	424	1,836	337	1,999	59	740
2 to 4 unit residential	0	1	12	1	12	0	4
other residential	1	3	24	3	24	0	1
non-residential	5	15	89	14	89	0	17
not reported	0	0	2	0	2	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 119 properties are FMA repetitive loss but not NFIP repetitive loss, and 1,634 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). Brazoria County, TX: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 48039). Automated baseline. <https://hazardplain.org/tx/48039/> 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.