

Harris County, TX

Risk-assessment baseline packet

County FIPS: 48201 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 2031-04-15. Plan: Harris County (FEMA plan 110989), approved 2026-04-16.
Since the plan was approved on 2026-04-16: no new federal declaration.
NOAA Storm Events records since that date: 17 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$1,122,079,278 a year), Hurricane (\$457,859,275) and Tornado (\$407,387,921).
Repetitive-loss flood properties now: FMA RL 6,975, SRL 5,353 (44 CFR 77.2); any definition: 19,904.
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; 48201 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.

CONTENTS

- 1. Summary and terms used, page 1
- 2. Plan clock, page 2
- 3. What changed since your last plan (approved 2026-04-16), page 2
- 4. Supports FEMA checklist item B1-a: hazard identification, page 8
- 5. Supports FEMA checklist item B1-b: hazard location, page 9
- 6. Supports FEMA checklist item B1-c: hazard extent, page 10
- 7. Supports FEMA checklist item B1-d: previous occurrences, page 13
- 8. Supports FEMA checklist item B1-e: probability of future events, page 18
- 9. Supports FEMA checklist item B1-f: hazards that vary across jurisdictions, page 21
- 10. Supports FEMA checklist items B2-a and B2-b: vulnerability and potential impacts, page 24
- 11. Supports FEMA checklist item B2-a: vulnerability (county context), page 26
- 12. Supports FEMA checklist item B2-c: repetitive loss properties, page 27
- 13. Sources, what the plan adds, disclaimer and citation, page 30

Plan clock

Status:	Approved, expires 2031-04-15	Plan:	Harris County (FEMA plan 110989)
Approved:	2026-04-16	Days to expiry:	1,658

What changed since your last plan (approved 2026-04-16)

New federal declarations:	none	Storm Events records since approval:	17 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 6,975, SRL 5,353 (44 CFR 77.2); any definition: 19,904	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: 56 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
Harris County	County	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-06-03
Baytown city	City	Approved, expires 2030-08-27	Baytown (FEMA plan 110814)	2025-08-28	2030-08-27	1,427		
Bellaire city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-06-11
Bunker Hill Village city	Village	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-06-29
Deer Park city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-07-23
El Lago city	City	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Friendswood city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		Also approved under plan 107112 (Galveston County, expires 2027-07-10). 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 2026-08-05
Galena Park city	City	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Hedwig Village city	Village	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-06-17
Hilshire Village city	Village	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-06-04

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Houston city	City	Approved, expires 2028-11-15	Houston (FEMA plan 108932)	2023-11-16	2028-11-15	777		
Humble city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-07-01
Hunters Creek Village city	City	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Jacinto City city	City	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Jersey Village city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-06-04
Katy city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-07-07
La Porte city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-07-20
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
Morgan's Point city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-07-23
Nassau Bay city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-06-11
Pasadena city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-07-28
Pearland city	City	Approved, expires 2029-04-28	Pearland (FEMA plan 109554)	2024-04-29	2029-04-28	941		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Piney Point Village city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-07-02
Seabrook city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		
South Houston city	City	Expired on 2021-07-07	South Houston (FEMA plan 100647)	2016-07-07	2021-07-07	-1,911		
Southside Place city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		Also approved under plan 107855 (Southside Place, expires 2027-01-18). 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 2026-06-29
Spring Valley Village 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
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
Taylor Lake Village city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-06-04
The Woodlands CDP	Unincorporated	Approved, expires 2029-05-01	Montgomery County (FEMA plan 109183)	2024-05-02	2029-05-01	944		
Tomball city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-07-16
Waller city	City	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Webster city	City	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-06-11
West University Place city	City	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Cypress-Fairbanks Independent School District	School/School District	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-08-25

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Katy Independent School District	School/School District	No approved plan on record	none	none	none		FEMA tracker shows a plan in review	
Spring Independent School District	School/School District	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Waller Independent School District	School/School District	Approved, expires 2030-04-08	Waller County (FEMA plan 110285)	2025-04-09	2030-04-08	1,286		this jurisdiction approved 2025-06-18
Cypress Creek Drainage Improvement District	Flood Control District	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Goose Creek Independent School District	School/School District	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Harris County Flood Control District	Flood Control District	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-06-04
Harris County Office of Administration	Community Services District	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-06-04
Harris County Water Control Improvement District 110	Water/Sewer Authority	Approved, expires 2030-01-14	Harris County Water Control Improvement District 110 (FEMA plan 110030)	2025-01-15	2030-01-14	1,202		
Harris Health System	Hospital/Medical Facility	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Houston Community College	College/University	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lee College	College/University	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-07-02
Metropolitan Transit Authority of Harris County (METRO)	Transit/Airport	No approved plan on record	none	none	none		FEMA tracker shows a plan awaiting revisions	
Port of Houston	Highway/Port/Rail	No approved plan on record. Approvable pending adoption, not yet eligible	none	none	none		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Rice University	College/ University	Approved, expires 2031-04-12	Rice University (FEMA plan 110272)	2026-04-13	2031-04-12	1,655		
San Jacinto College	College/ University	Approved, expires 2031-04-15	Harris County (FEMA plan 110989)	2026-04-16	2031-04-15	1,658		this jurisdiction approved 2026-08-19
St. Luke's Episcopal Hospital	Hospital/ Medical Facility	Expired on 2018-10-03	St. Luke's Episcopal Hospital (FEMA plan 69051)	2013-10-03	2018-10-03	-2,919		
University of Houston	College/ University	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
University of Houston Childrens Learning Center	College/ University	Expired on 2022-01-31	University of Houston Children's Learning Center (FEMA plan 102207)	2017-01-31	2022-01-31	-1,703		this jurisdiction approved 2017-01-25
University of Texas MD Anderson Cancer Center	Hospital/ Medical Facility	Approved, expires 2031-08-18	University of Texas MD Anderson Cancer Center (FEMA plan 110557)	2026-08-19	2031-08-18	1,783		
University of Texas Pan American	Hospital/ Medical Facility	Expired on 2021-01-11	University of Texas Pan American (FEMA plan 101610)	2016-01-11	2021-01-11	-2,088		
Varnett Public Schools	School/School District	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	Harris County (FEMA plan 110989), pending adoption here	2026-04-16 by FEMA; not yet adopted here	2031-04-15 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Plan 110989 covers 1 other participant: Shoreacres city (Chambers County).

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	Very High	Very High	\$1,086,745,610	\$5,613	\$35,328,055	\$1,122,079,278	233	
2	Hurricane	Very High	Very High	\$428,046,822	\$515,186	\$29,297,267	\$457,859,275	11	
3	Tornado	Very High	Very High	\$62,944,461	\$1,561	\$344,441,903	\$407,387,921	96	
4	Cold Wave	Very High	Very High	\$637,335	\$24,282	\$117,466,837	\$118,128,454	7	
5	Heat Wave	Very High	Relatively High	\$2,344	\$262	\$80,361,182	\$80,363,788	72	
6	Lightning	Very High	Very High	\$513,793	n/a	\$8,073,214	\$8,587,007	72	
7	Strong Wind	Very High	Very High	\$3,781,988	\$3,328	\$3,933,495	\$7,718,811	529	Includes 1 High Wind and 4 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
8	Earthquake	Relatively Moderate	Relatively Moderate	\$4,098,919	n/a	\$1,810,180	\$5,909,099		Storm Events does not record earthquakes.
9	Ice Storm	Very High	Very High	\$3,488,827	n/a	\$638,102	\$4,126,929	2	
10	Coastal Flooding	Relatively High	Relatively Moderate	\$2,156,974	n/a	\$344,607	\$2,501,580	8	
11	Hail	Relatively Moderate	Relatively Moderate	\$1,540,077	\$12,625	\$43,004	\$1,595,707	480	
12	Wildfire	Relatively Low	Relatively Low	\$457,939	\$276	\$103,946	\$562,161	0	Declared 3 times; no Storm Events record of this type.
13	Drought	Relatively Moderate	Relatively Moderate	n/a	\$549,870	n/a	\$549,870	16	

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
14	Winter Weather	Relatively High	Relatively High	\$74,271	\$11	\$221,665	\$295,947	11	Includes 1 Sleet record (outside NRI's Winter Weather definition).
15	Landslide	Relatively Moderate	Relatively Low	\$36,539	n/a	\$16	\$36,555	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 9807 (Relatively Low, 64.4); tract 1000.01 (Relatively Low, 60.6); tract 9804 (Relatively Low, 59.7)
Hurricane	tract 3437 (Very High, 99.3); tract 5401.02 (Very High, 98.0); tract 2525 (Very High, 98.0)
Landslide	tract 2525 (Relatively Low, 94.8); tract 3436.01 (Relatively Low, 93.6); tract 3437 (Relatively Low, 93.1)
Tornado	tract 5429.02 (Very High, 99.9); tract 5430.06 (Very High, 99.8); tract 5430.07 (Very High, 99.8)
Tsunami	no tract has a National Risk Index rating for this hazard
Wildfire	tract 3402.02 (Relatively Moderate, 89.9); tract 5560 (Relatively Moderate, 88.7); tract 5556 (Relatively Moderate, 88.7)

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 9807 is Census Tract 9807). 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)	8 records, 1997 to 2024 (8 zone-level)		Storm Surge/Tide, 2008-09-12, \$3,000,000,000 property; crops not reported (2008 dollars); NWS zone TXZ213		Countywide (zone-level records).	Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	7 records, 1997 to 2026 (7 zone-level)	1 day to 5 days (median 1 day); 5 with a recorded value	5 consecutive days, 2021-02-12 to 2021-02-16, 33 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)	16 records, 1996 to 2023 (16 zone-level)	7 days to 123 days (median 61 days); 7 with a recorded value	123 days (4 months), 1998-05-01 to 1998-08-31, a run of 4 consecutive Storm Events drought records, zone-level	Drought, 1998-08-01, \$1,000,000 property; \$7,300,000 crops, reported for the zone (1998 dollars)	Countywide (zone-level records).	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	607 records, 1956 to 2026	0.75 in to 3 in (median 1 in); 607 with a recorded value	3 in hail, 2006-05-04	Hail, 2001-04-16, \$20,000,000 property; crops not reported (2001 dollars)	Event records naming jurisdictions in the plan: Houston city (92 records), Katy city (24 records), Jersey Village city (21 records), Tomball city (18 records), Humble city (12 records), Bellaire city (10 records), Pasadena city (9 records), Deer Park city (8 records), Webster city (7 records), Baytown city (6 records); and 10 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	72 records, 1998 to 2023 (72 zone-level)	1 day to 31 days (median 1 day); 53 with a recorded value	August 1999 (1 monthly summary record), 6 direct deaths, 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	11 records, 1998 to 2021 (11 zone-level)		Strongest recorded: Hurricane (Typhoon) record (NOAA's event type name), 2008-09-12 to 2008-09-14, category 2, \$2,000,000,000 property; crops not reported (2008 dollars); NWS zone TXZ213	Most damaging recorded: Tropical Storm, 2001-06-05, \$5,030,000,000 property; crops not reported, reported for the zone (2001 dollars)	Countywide (zone-level records).	Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	2 records, 1997 to 2007 (2 zone-level)		Ice Storm, 2007-01-16, \$5,000 property; \$0 crops (2007 dollars); NWS zone TXZ213		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)	233 records, 1996 to 2026 (2 zone-level)		Flash Flood, 2017-08-26, \$10,000,000,000 property; \$100,000 crops (2017 dollars), 36 direct deaths		Event records naming jurisdictions in the plan: Houston city (25 records), Katy city (7 records), Pasadena city (6 records), Webster city (6 records), La Porte city (5 records), Humble city (4 records), Tomball city (4 records), Bellaire city (3 records), Jersey Village city (3 records), Missouri City city (3 records); and 8 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)	72 records, 1996 to 2024		Lightning, 2012-07-15, \$0 property; \$0 crops (2012 dollars), 2 direct deaths, 1 direct injury	Lightning, 1997-07-28, \$5,000,000 property; crops not reported (1997 dollars)	Event records naming jurisdictions in the plan: Houston city (12 records), Baytown city (2 records), Deer Park city (2 records), Humble city (2 records), Pasadena city (2 records), Tomball city (2 records), Bellaire city (1 record), Galena Park city (1 record), Katy city (1 record), Webster 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)	5 records, 1997 to 2025 (5 zone-level)	40 kt (46 mph) to 53 kt (61 mph) (median 44 kt (51 mph)); 4 with a recorded value	53 kt (61 mph) estimated gust, High Wind, 2025-03-04; NWS zone TXZ213	Strong Wind, 2006-01-17, \$40,000 property; crops not reported, reported for the zone (2006 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	716 records, 1955 to 2026	43 kt (49 mph) to 90 kt (104 mph) (median 52 kt (60 mph)); 453 with a recorded value	90 kt (104 mph) estimated gust, Thunderstorm Wind, 2024-05-16	Thunderstorm Wind, 2024-05-16, \$70,000,000 property; \$0 crops (2024 dollars)	Event records naming jurisdictions in the plan: Houston city (117 records), Humble city (16 records), Pasadena city (16 records), Katy city (15 records), Tomball city (12 records), Bellaire city (10 records), Baytown city (8 records), Deer Park city (8 records), La Porte city (8 records), Jersey Village city (7 records); and 7 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)	253 records, 1950 to 2025	F/EF0 to F/EF4 (median F/EF0); 250 with a recorded value	F4 tornado, 1992-11-21, 20 mi path length (whole path, pre-1996), 1,800 yd wide, \$250,000,000 property; crops not recorded (1992 dollars), 15 direct injuries		Event records naming jurisdictions in the plan: Houston city (7 records), Baytown city (6 records), La Porte city (6 records), Pasadena city (6 records), Tomball city (5 records), Bellaire city (3 records), Deer Park city (3 records), Friendswood city (2 records), Humble city (2 records), Jersey Village city (2 records); 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)	11 records, 2004 to 2025 (11 zone-level)		No damage reported in 11 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: 41 declarations covering 34 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	\$107,327,783.17	within last 5 years	
2024-05-17	2024-04-26	DR-4781-TX	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, and Flooding	Inland Flooding (primary); also designated: Strong Wind, Tornado	\$51,870,632.34	within last 5 years	
2021-02-19	2021-02-11	DR-4586-TX	Major disaster	Severe Winter Storms	Ice Storm	\$10,056,704.90		
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	\$1,309,350.36		
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	\$623,499,222.35		
2020-03-13	2020-01-20	EM-3458-TX	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4485
2019-10-04	2019-09-17	DR-4466-TX	Major disaster	Tropical Storm Imelda	Inland Flooding (primary); also designated: Hurricane	PA not declared for this county		
2017-08-25	2017-08-23	DR-4332-TX	Major disaster	Hurricane Harvey	Hurricane	\$1,162,699,901.72		
2016-06-11	2016-05-22	DR-4272-TX	Major disaster	Severe Storms and Flooding	Inland Flooding	\$423,112.62		FEMA's declaration record does not list Public Assistance, but FEMA's PA project summaries show obligations for this county
2016-04-25	2016-04-17	DR-4269-TX	Major disaster	Severe Storms and Flooding	Inland Flooding	\$20,616,206.62		
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	\$12,040,710.40		
2011-06-17	2011-06-17	FM-2924-TX	Fire management	Forest Brook Fire	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>		
2008-09-13	2008-09-07	DR-1791-TX	Major disaster	Hurricane Ike	Hurricane (primary); also designated: Inland Flooding	\$395,961,021		
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		
2007-10-02	2007-08-14	DR-1730-TX	Major disaster	Tropical Storm Erin	Hurricane	PA not declared for this county		
2007-08-18	2007-08-17	EM-3277-TX	Emergency	Hurricane Dean	Hurricane	\$14,914.86		
2006-01-11	2005-11-27	DR-1624-TX	Major disaster	Extreme Wildfire Threat	Wildfire	\$2,469.13		
2005-09-24	2005-09-23	DR-1606-TX	Major disaster	Hurricane Rita	Hurricane	\$18,244,930.28		
2005-09-21	2005-09-20	EM-3261-TX	Emergency	Hurricane Rita	Hurricane	\$844,855.52		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	\$323,699,736.65		
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	\$357,642,908.89		
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	\$382,040.61		
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	no Public Assistance recorded		
1992-12-04	1992-11-21	DR-970-TX	Major disaster	Severe Thunderstorms & Tornadoes	Tornado	PA not declared for this county		
1992-03-20	1992-03-04	DR-937-TX	Major disaster	Severe Storms & Flooding	Inland Flooding	PA not declared for this county		
1989-07-18	1989-06-25	DR-836-TX	Major disaster	Tropical Storm Allison	Inland Flooding (primary); also designated: Hurricane	PA not declared for this county		
1989-05-19	1989-05-04	DR-828-TX	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	no Public Assistance recorded		
1984-10-30	1984-10-30	DR-727-TX	Major disaster	Severe Storms & Flooding	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		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1979-09-25	1979-09-25	DR-603-TX	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1979-04-26	1979-04-26	DR-580-TX	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	PA not declared for this county		
1976-06-19	1976-06-19	DR-510-TX	Major disaster	Severe Storms & Flooding	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: \$287,295,188.66 (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 filed under this county for declarations that do not list it: 1 row, \$2,667.75

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-4029-TX	2011-09-09	Wildfires	BASTROP COUNTY MUNICIPAL UTILITY DISTRICT NUMBER 1	\$2,667.75

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	8	0	0	1	0	0	1996 to 2026-06-30	
Cold Wave	7	0	1	1	0	0	1996 to 2026-06-30	
Drought	16	0	0	7	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	607	7	8	71	0	0	1955 to 2026-06-30	
Heat Wave	72	0	0	12	0	0	1996 to 2026-06-30	
Hurricane	11	0	0	0	14	0	1996 to 2026-06-30	
Ice Storm	2	0	0	0	1	0	1996 to 2026-06-30	
Inland Flooding	233	7	3	32	19	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	72	0	0	9	0	0	1996 to 2026-06-30	
Strong Wind	721	3	15	105	3	0	1955 to 2026-06-30	Includes 1 High Wind and 4 Strong Wind records.
Tornado	253	0	2	12	8	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	3	0	1996 to 2026-06-30	No Storm Events records of this type; 3 federal declared incidents (see declarations table)
Winter Weather	11	0	0	2	0	0	1996 to 2026-06-30	Includes 1 Sleet record.

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
2025-03-04	High Wind	53 kt (61 mph) estimated gust	\$0 property; \$0 crops, reported for the zone (2025 dollars)	0, 0	NWS zone TXZ213 (INLAND HARRIS), zone-level	within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2024-05-16	Thunderstorm Wind	90 kt (104 mph) estimated gust	\$300,000 property; crops not reported (2024 dollars)	0, 0	CYPRESS	within last 5 years	B1-c worst recorded: Thunderstorm Wind
2021-02-12	Cold/Wind Chill		\$33,700,000 property; crops not reported, reported for the zone (2021 dollars)	33, 0	NWS zone TXZ213 (INLAND HARRIS), zone-level		deaths or injuries recorded
2017-08-26	Flash Flood		\$10,000,000,000 property; \$100,000 crops (2017 dollars)	36, 0	JOYCE to MINNETEX		deaths or injuries recorded
2012-07-15	Lightning		\$0 property; \$0 crops (2012 dollars)	2, 1	LITTLE YORK		B1-c worst recorded: Lightning
2008-09-12	Hurricane (Typhoon), NOAA's event type name	category 2	\$2,000,000,000 property; crops not reported, reported for the zone (2008 dollars)	0, 0	NWS zone TXZ213 (HARRIS), zone-level		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2008-09-12	Storm Surge/Tide		\$3,000,000,000 property; crops not reported, reported for the zone (2008 dollars)	0, 0	NWS zone TXZ213 (HARRIS), zone-level		B1-c worst recorded: Coastal Flood, Storm Surge/Tide
2007-01-16	Ice Storm		\$5,000 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone TXZ213 (HARRIS), zone-level		B1-c worst recorded: Ice Storm
2006-05-04	Hail	3 in	\$100,000 property; crops not reported (2006 dollars)	0, 0	HOUSTON HOOKS ARPT		B1-c worst recorded: Hail
2005-09-21	Heat		damage not reported	34, 0	NWS zone TXZ213 (HARRIS), zone-level		deaths or injuries recorded
1999-08-01	Heat		damage not reported	6, 0	NWS zone TXZ213 (HARRIS), zone-level		B1-c worst recorded: Excessive Heat, Heat
1992-11-21	Tornado	F4, 20 mi path length (whole path, pre-1996), 1,800 yd wide	\$250,000,000 property; crops not recorded (1992 dollars)	0, 15	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (2,013 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	3.76	events per year at a location (modeled)	about 3.8 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	0.481	event-days per year	about 0.481 days per year	Likely (from Storm Events: 3 of 30 years)	event-days in 3 of 30 years, 1996 to 2025 (10%)	9.1	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	15.9	event-days per year	about 15.9 days per year	Likely (from Storm Events: 5 of 30 years)	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	861	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00053	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.053%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	2.35	events per year	about 2.35 per year	Highly likely	FEMA annualized frequency (modeled)	89.6 (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: 12 of 30 years)	event-days in 12 of 30 years, 1996 to 2025 (40%)	250	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.184	events per year	about 1 in 5 years	Likely	FEMA annualized frequency (modeled)	75	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	0.905	event-days per year	about 0.905 days per year	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	61	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	5.14	event-days per year	about 5.14 days per year	Highly likely (from Storm Events: 29 of 30 years)	event-days in 29 of 30 years, 1996 to 2025 (96.7%)	144	1996 to 2023 (28 years)	see B1-f	
Landslide	0.238	events per year (modeled)	about 1 in 4 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	74.6	days per year with a strike	about 74.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	1.52	events per year	about 1.52 per year	Highly likely	FEMA annualized frequency (modeled)	58	1986 to 2023 (38 years)	countywide	
Tornado	1.61	events per year	about 1.61 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	0.00112	annual probability at a location	chance a given location in the county burns in a year: 0.112%		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	1.12	event-days per year	about 1.12 days per year	Likely (from Storm Events: 8 of 30 years)	event-days in 8 of 30 years, 1996 to 2025 (26.7%)	21.3	2005-11-12 to 2024-11-12 (19 years)	countywide	

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

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

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	237	30	7.9
Hail	2.00 in+	1996 to 2025	22	30	0.733
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	339	30	11.3
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	31	30	1.03
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	147	30	4.9
Tornado	EF0-1	1996 to 2025	88	30	2.93
Tornado	EF2-3	1996 to 2025	8	30	0.267
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	266 of 1,115	68.0	81.7	97.8	Relatively High 3, Relatively Moderate 25, Relatively Low 171, Very Low 67, No Rating 849
Cold Wave	1,115 of 1,115	15.9	70.2	95.7	Very High 1, Relatively High 251, Relatively Moderate 817, Relatively Low 41, Very Low 5
Drought	71 of 1,115	69.0	78.1	96.5	Relatively Moderate 4, Relatively Low 28, Very Low 39, No Rating 1044
Earthquake	1,115 of 1,115	3.1	17.8	64.4	Relatively Low 23, Very Low 1092
Hail	1,115 of 1,115	4.7	24.5	54.3	Relatively Low 63, Very Low 1052
Heat Wave	1,115 of 1,115	1.5	72.0	95.5	Relatively High 122, Relatively Moderate 800, Relatively Low 188, Very Low 5
Hurricane	1,115 of 1,115	70.9	88.1	99.3	Very High 11, Relatively High 364, Relatively Moderate 722, Relatively Low 18
Ice Storm	1,115 of 1,115	6.5	41.0	86.9	Relatively Moderate 35, Relatively Low 756, Very Low 324
Inland Flooding	1,115 of 1,115	1.0	73.9	99.8	Very High 73, Relatively High 402, Relatively Moderate 400, Relatively Low 219, Very Low 21
Landslide	1,035 of 1,115	8.9	60.8	94.8	Relatively Low 82, Very Low 953, No Rating 80
Lightning	1,115 of 1,115	0.5	39.9	85.3	Relatively High 3, Relatively Moderate 251, Relatively Low 818, Very Low 43
Strong Wind	1,115 of 1,115	7.3	28.2	72.4	Relatively Moderate 20, Relatively Low 952, Very Low 143
Tornado	1,115 of 1,115	24.4	90.6	99.9	Very High 404, Relatively High 602, Relatively Moderate 105, Relatively Low 3, Very Low 1
Tsunami	0 of 1,115				Insufficient Data 1115
Wildfire	858 of 1,115	18.5	33.2	89.9	Relatively Moderate 3, Relatively Low 83, Very Low 772, No Rating 257
Winter Weather	1,115 of 1,115	12.6	20.2	36.0	Relatively Low 873, Very Low 242

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
Harris County	County	Approved, expires 2031-04-15	FMA RL 2,231, SRL 1,696; any 6,051	\$501,386,557.03	0 total; 0 since its plan	Includes \$245,882,703.53 for declarations not counted as hazard incidents (DR-4485-TX, EM-3216-TX).
Baytown city	City	Approved, expires 2030-08-27	FMA RL 38, SRL 48; any 179	\$31,004,887.10	24 total; 0 since its plan	Whole community, including the part in Chambers County and Liberty County, plus 1 property with no county in FEMA's file; in-county portion (county table): FMA RL 36, FMA SRL 45, NFIP RL 148, NFIP SRL 22, any category 171. Includes \$3,209,876.52 for declarations not counted as hazard incidents (EM-3216-TX).
Bellaire city	City	Approved, expires 2031-04-15	FMA RL 95, SRL 31; any 235	\$6,245,499.24	27 total; 0 since its plan	Includes \$117,531.51 for declarations not counted as hazard incidents (DR-4485-TX).
Bunker Hill Village city	Village	Approved, expires 2031-04-15	FMA RL 3, SRL 11; any 48	\$517,028.69	0 total; 0 since its plan	
Deer Park city	City	Approved, expires 2031-04-15	FMA RL 56, SRL 18; any 133	\$6,216,912.22	23 total; 0 since its plan	Includes \$40,002.49 for declarations not counted as hazard incidents (DR-4485-TX).
El Lago city	City	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	FMA RL 4, SRL 12; any 45	\$817,196.10	0 total; no approved plan	
Friendswood city	City	Approved, expires 2031-04-15	FMA RL 114, SRL 179; any 394	no Public Assistance recorded	12 total; 0 since its plan	Also approved under plan 107112 (Galveston County, expires 2027-07-10). 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 Brazoria County and Galveston County; in-county portion (county table): FMA RL 41, FMA SRL 19, NFIP RL 49, NFIP SRL 10, any category 83.
Galena Park city	City	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	FMA RL 4, SRL 2; any 17	\$820,170.19	5 total; no approved plan	
Hedwig Village city	Village	Approved, expires 2031-04-15	FMA RL 1, SRL 5; any 21	\$715,021.27	0 total; 0 since its plan	
Hilshire Village city	Village	Approved, expires 2031-04-15	FMA RL 1, SRL 0; any 2	\$12,017.16	0 total; 0 since its plan	
Houston city	City	Approved, expires 2028-11-15	FMA RL 3,923, SRL 2,948; any 11,098	\$1,095,752,344.32	253 total; 3 since its plan	Whole community, including the part in Comal County, Fort Bend County, Galveston 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 3,915, FMA SRL 2,935, NFIP RL 9,449, NFIP SRL 2,191, any category 11,053. Includes \$319,105,457.41 for declarations not counted as hazard incidents (DR-4485-TX, EM-3216-TX).

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
Humble city	City	Approved, expires 2031-04-15	FMA RL 19, SRL 28; any 87	\$4,095,073.56	36 total; 2 since its plan	Includes \$250,702.13 for declarations not counted as hazard incidents (DR-4485-TX, EM-3216-TX).
Hunters Creek Village city	City	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	FMA RL 1, SRL 6; any 29	\$1,600,215.28	0 total; no approved plan	
Jacinto City city	City	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	FMA RL 3, SRL 1; any 17	\$1,831,855.11	6 total; no approved plan	
Jersey Village city	City	Approved, expires 2031-04-15	FMA RL 105, SRL 59; any 161	\$1,877,444.38	33 total; 1 since its plan	
Katy city	City	Approved, expires 2031-04-15	FMA RL 27, SRL 8; any 86	\$2,721,004.42	48 total; 0 since its plan	Whole community, including the part in Fort Bend County and Waller County; in-county portion (county table): FMA RL 24, FMA SRL 6, NFIP RL 67, NFIP SRL 6, any category 67.
La Porte city	City	Approved, expires 2031-04-15	FMA RL 87, SRL 84; any 345	\$10,884,942.06	24 total; 0 since its plan	Includes \$87,488.64 for declarations not counted as hazard incidents (DR-4485-TX, EM-3216-TX).
Missouri City city	City	Approved, expires 2031-04-15	FMA RL 2, SRL 8; any 56	no Public Assistance recorded	3 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 Fort Bend County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 9, NFIP SRL 0, any category 9.
Morgan's Point city	City	Approved, expires 2031-04-15	FMA RL 0, SRL 0; any 1	\$743,611.65	1 total; 0 since its plan	
Nassau Bay city	City	Approved, expires 2031-04-15	FMA RL 44, SRL 68; any 171	\$3,389,946.65	3 total; 0 since its plan	Includes \$3,059.46 for declarations not counted as hazard incidents (EM-3216-TX).
Pasadena city	City	Approved, expires 2031-04-15	FMA RL 183, SRL 138; any 520	\$26,007,835.90	39 total; 0 since its plan	Includes \$179,574.55 for declarations not counted as hazard incidents (DR-4485-TX, EM-3216-TX).
Pearland city	City	Approved, expires 2029-04-28	FMA RL 160, SRL 135; any 400	no Public Assistance recorded	4 total; 1 since its plan	Whole community, including the part in Angelina County and Brazoria County; in-county portion (county table): FMA RL 8, FMA SRL 10, NFIP RL 32, NFIP SRL 4, any category 42.
Piney Point Village city	City	Approved, expires 2031-04-15	FMA RL 1, SRL 16; any 55	\$1,197,716.32	0 total; 0 since its plan	
Seabrook city	City	Approved, expires 2031-04-15	FMA RL 19, SRL 50; any 167	\$5,824,094.91	5 total; 0 since its plan	Whole community, including the part in Galveston County and Nueces County, plus 1 property with no county in FEMA's file; in-county portion (county table): FMA RL 19, FMA SRL 49, NFIP RL 132, NFIP SRL 18, any category 163.

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
South Houston city	City	Expired on 2021-07-07	FMA RL 35, SRL 20; any 94	\$948,394.04	9 total; 1 since its plan	
Southside Place city	City	Approved, expires 2031-04-15	FMA RL 0, SRL 1; any 1	\$126,950.34	0 total; 0 since its plan	Also approved under plan 107855 (Southside Place, expires 2027-01-18). 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. Includes \$13,276.46 for declarations not counted as hazard incidents (DR-4485-TX).
Spring Valley Village city	City	Approved, expires 2031-04-15	FMA RL 2, SRL 1; any 8	\$461,568.44	0 total; 0 since its plan	Includes \$13,962.36 for declarations not counted as hazard incidents (DR-4485-TX).
Stafford city	City	Approved, expires 2031-04-15	FMA RL 0, SRL 0; any 12	no Public Assistance recorded	3 total; 0 since its plan	Whole community, including the part in Fort Bend County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 3, NFIP SRL 0, any category 3.
Taylor Lake Village city	City	Approved, expires 2031-04-15	FMA RL 10, SRL 33; any 71	\$1,873,085.04	0 total; 0 since its plan	
The Woodlands CDP	Unincorporated	Approved, expires 2029-05-01		no Public Assistance recorded	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Tomball city	City	Approved, expires 2031-04-15	FMA RL 4, SRL 6; any 16	\$1,168,305.41	41 total; 0 since its plan	Includes \$10,521.19 for declarations not counted as hazard incidents (EM-3216-TX).
Waller city	City	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	FMA RL 2, SRL 1; any 9	no Public Assistance recorded	1 total; no approved plan	Whole community, including the part in Waller County; none of its repeat-flood properties are in this county.
Webster city	City	Approved, expires 2031-04-15	FMA RL 2, SRL 5; any 24	\$1,581,672.42	21 total; 0 since its plan	
West University Place city	City	Plan 110989 approved 2026-04-16, pending adoption here; not yet eligible	FMA RL 9, SRL 5; any 35	\$2,195,888.49	0 total; no approved plan	Includes \$30,691.23 for declarations not counted as hazard incidents (DR-4485-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 2026-04-16 <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	\$197,921,460,022	n/a	1,129,955	\$2,156,974	n/a	\$344,607	0.00109%				
Cold Wave	\$838,837,591,781	\$65,130,587	4,726,190	\$637,335	\$24,282	\$117,466,837	under 0.0001%				
Drought	n/a	\$40,788,101	n/a	n/a	\$549,870	n/a	1.35% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$1,483,764,763,548	n/a	4,731,145	\$4,098,919	n/a	\$1,810,180	0.000276%				
Hail	\$838,838,945,279	\$65,130,587	4,726,200	\$1,540,077	\$12,625	\$43,004	0.000184%	\$0			
Heat Wave	\$838,837,591,781	\$65,130,587	4,726,190	\$2,344	\$262	\$80,361,182	under 0.0001%				
Hurricane	\$838,732,368,396	\$65,123,763	4,725,305	\$428,046,822	\$515,186	\$29,297,267	0.051%				
Ice Storm	\$838,692,640,583	n/a	4,724,954	\$3,488,827	n/a	\$638,102	0.000416%				
Inland Flooding	\$838,543,904,795	\$18,101,603	504,158	\$1,086,745,610	\$5,613	\$35,328,055	n/a (see note)	\$33,000			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	\$2,808,205,218	n/a	14,965	\$36,539	n/a	\$16	0.0013%				
Lightning	\$838,838,945,279	n/a	4,726,200	\$513,793	n/a	\$8,073,214	under 0.0001%				
Strong Wind	\$838,838,945,279	\$65,130,587	4,726,200	\$3,781,988	\$3,328	\$3,933,495	0.000451%	\$43,000			
Tornado	\$838,838,945,279	\$65,130,587	4,726,200	\$62,944,461	\$1,561	\$344,441,903	0.0075%				
Tsunami	n/a	n/a	n/a	n/a	n/a	n/a					NRI publishes no building exposure for this county

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 2026-04-16 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Wildfire	\$44,824,244,705	\$19,380,128	286,997	\$457,939	\$276	\$103,946	0.00102%				
Winter Weather	\$838,837,591,781	\$65,130,587	4,726,190	\$74,271	\$11	\$221,665	under 0.0001%				

Totals since 2026-04-16 (Storm Events through 2026-06-30): 17 county-coded records, 17 with a damage value recorded (including \$0), \$76,000; 0 zone-level records, 0 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: no counted declaration since the plan.

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

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

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

County context

Source: 5

Measure	Value
Population	4,726,200
Building value (total, not at risk)	\$838,838,945,279
Agriculture value (total, not at risk)	\$65,130,587
NRI risk rating (all hazards)	Very High
Expected annual loss, buildings and agriculture, all hazards	\$1,595,638,915
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)	\$622,063,473
Social vulnerability rating	Relatively High
Community resilience rating	Very Low
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	6,975	Severe repetitive loss, FMA definition (44 CFR 77.2)	5,353
Repetitive loss, NFIP insurance definition	16,612	Severe repetitive loss, NFIP insurance definition	3,720

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 properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties
County total	6,975	5,353	16,612	3,720	19,904	1,214	9,171
of which: Pearland city	8	10	32	4	42	5	20
of which: Stafford city	0	0	3	0	3	0	0
of which: Harris County (unincorporated area)	2,231	1,696	4,978	1,136	6,051	474	2,439
of which: Bellaire city	95	31	186	23	235	4	157
of which: Bunker Hill Village city	3	11	45	8	48	3	20
of which: Deer Park city	56	18	96	14	133	10	58
of which: Galena Park city	4	2	14	2	17	0	3
of which: Hedwig Village city	1	5	20	4	21	1	9
of which: Hilshire Village city	1	0	2	0	2	0	1
of which: Houston city	3,915	2,935	9,449	2,191	11,053	497	5,344
of which: Humble city	19	28	65	11	87	9	22
of which: Hunter's Creek Village city	1	6	28	5	29	1	15
of which: Jacinto City city	3	1	14	1	17	0	4
of which: Jersey Village city	105	59	126	41	161	23	127
of which: Katy city	24	6	67	6	67	0	51
of which: Lomax city (community ID not in plan data)	0	0	3	0	3	0	0
of which: Missouri City city	0	0	9	0	9	0	4
of which: Morgans Point city	0	0	1	0	1	0	1
of which: Pasadena city	183	138	339	60	520	41	166
of which: Piney Point Village city	1	16	53	14	55	2	32
of which: South Houston city	35	20	81	16	94	0	39
of which: Southside Place city	0	1	1	1	1	0	1

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: Spring Valley Village city	2	1	8	1	8	0	3
of which: Tomball city	4	6	16	5	16	1	8
of which: West University Place city	9	5	28	2	35	3	27
of which: Baytown city	36	45	148	22	171	13	67
of which: El Lago city	4	12	40	7	45	2	21
of which: Friendswood city	41	19	49	10	83	2	51
of which: La Porte city	87	84	269	47	345	22	133
of which: League City city (plan jurisdiction listed on the Galveston County page)	2	7	9	5	11	2	8
of which: Nassau Bay city	44	68	122	22	171	37	115
of which: San Marcos city (plan jurisdiction listed on the Hays County page)	0	0	1	0	1	0	0
of which: Seabrook city	19	49	132	18	163	28	91
of which: Shoreacres city (plan jurisdiction listed on the Chambers County page)	30	36	100	25	108	16	72
of which: Taylor Lake Village city	10	33	52	15	71	17	50
of which: Webster city	2	5	23	4	24	0	12
of which: Unknown (community ID Unknown in FEMA data)	0	0	3	0	3	1	0
Statewide, no county in FEMA's file	3	8	12	7	13	1	9

120 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
Harris County	480287	2,231	1,696	4,978	1,136	6,051	474	2,439	
Baytown city	485456	38	48	156	25	179	13	71	Whole community, including the part in Chambers County and Liberty County, plus 1 property with no county in FEMA's file; in-county portion (county table): FMA RL 36, FMA SRL 45, NFIP RL 148, NFIP SRL 22, any category 171.
Bellaire city	480289	95	31	186	23	235	4	157	
Bunker Hill Village city	480290	3	11	45	8	48	3	20	
Deer Park city	480291	56	18	96	14	133	10	58	
El Lago city	485466	4	12	40	7	45	2	21	
Friendswood city	485468	114	179	221	57	394	59	177	Whole community, including the part in Brazoria County and Galveston County; in-county portion (county table): FMA RL 41, FMA SRL 19, NFIP RL 49, NFIP SRL 10, any category 83.
Galena Park city	480293	4	2	14	2	17	0	3	
Hedwig Village city	480294	1	5	20	4	21	1	9	

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
Hilshire Village city	480295	1	0	2	0	2	0	1	
Houston city	480296	3,923	2,948	9,489	2,199	11,098	499	5,362	Whole community, including the part in Comal County, Fort Bend County, Galveston 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 3,915, FMA SRL 2,935, NFIP RL 9,449, NFIP SRL 2,191, any category 11,053.
Humble city	480297	19	28	65	11	87	9	22	
Hunters Creek Village city	480298	1	6	28	5	29	1	15	
Jacinto City city	480299	3	1	14	1	17	0	4	
Jersey Village city	480300	105	59	126	41	161	23	127	
Katy city	480301	27	8	86	8	86	0	66	Whole community, including the part in Fort Bend County and Waller County; in-county portion (county table): FMA RL 24, FMA SRL 6, NFIP RL 67, NFIP SRL 6, any category 67.
La Porte city	485487	87	84	269	47	345	22	133	
Missouri City city	480304	2	8	56	8	56	0	16	Whole community, including the part in Fort Bend County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 9, NFIP SRL 0, any category 9.
Morgan's Point city	480305	0	0	1	0	1	0	1	
Nassau Bay city	485491	44	68	122	22	171	37	115	
Pasadena city	480307	183	138	339	60	520	41	166	
Pearland city	480077	160	135	296	88	400	37	210	Whole community, including the part in Angelina County and Brazoria County; in-county portion (county table): FMA RL 8, FMA SRL 10, NFIP RL 32, NFIP SRL 4, any category 42.
Piney Point Village city	480308	1	16	53	14	55	2	32	
Seabrook city	485507	19	50	136	19	167	28	91	Whole community, including the part in Galveston County and Nueces County, plus 1 property with no county in FEMA's file; in-county portion (county table): FMA RL 19, FMA SRL 49, NFIP RL 132, NFIP SRL 18, any category 163.
South Houston city	480311	35	20	81	16	94	0	39	
Southside Place city	480312	0	1	1	1	1	0	1	
Spring Valley Village city	480313	2	1	8	1	8	0	3	
Stafford city	480233	0	0	12	0	12	0	3	Whole community, including the part in Fort Bend County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 3, NFIP SRL 0, any category 3.
Taylor Lake Village city	485513	10	33	52	15	71	17	50	
Tomball city	480315	4	6	16	5	16	1	8	
Waller city	480641	2	1	9	1	9	0	6	Whole community, including the part in Waller County; none of its repeat-flood properties are in this county.

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
Webster city	485516	2	5	23	4	24	0	12	
West University Place city	480318	9	5	28	2	35	3	27	

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	6,784	4,867	15,013	3,302	18,230	1,162	8,531
2 to 4 unit residential	33	48	156	36	171	9	49
other residential	51	110	378	96	398	9	160
non-residential	107	328	1,064	286	1,104	34	431
not reported	0	0	1	0	1	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 2,433 properties are FMA repetitive loss but not NFIP repetitive loss, and 12,070 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_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_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/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

Reuse and citation: Hazard Plain text and tables are licensed under Creative Commons Attribution 4.0 International (CC BY 4.0, <https://creativecommons.org/licenses/by/4.0/>); credit Hazard Plain and the release. The underlying federal data are public domain; OpenFEMA data are also subject to the OpenFEMA terms and conditions.

Cite this: Hazard Plain (2026). Harris County, TX: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 48201). Automated baseline. <https://hazardplain.org/tx/48201/> 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.