

# Fort Bend County, TX

## Risk-assessment baseline packet

Unit **County area 48157**    Release **2026-10**    As of **2026-09-28**    Storm Events data through **2026-06-30**

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

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

### OPENFEMA DISCLAIMER

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

## Plan clock

|          |                              |         |                                     |
|----------|------------------------------|---------|-------------------------------------|
| Status   | Approved, expires 2029-10-29 | Plan    | Fort Bend County (FEMA plan 109424) |
| Approved | 2024-10-30                   | Expires | 2029-10-29                          |
| As of    | 2026-09-28                   | Days    | 1,127 days to expiry                |

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

|                          |                                                       |                                     |                                             |
|--------------------------|-------------------------------------------------------|-------------------------------------|---------------------------------------------|
| New federal declarations | none (0 declaration rows; 0 counted incidents)        | Storm Events records since approval | 10 (data through 2026-06-30)                |
| Repetitive loss now      | FMA RL 174, SRL 85 (44 CFR 77.2); any definition: 637 | Repeat-flood change                 | First release: no prior release to compare. |

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

**Plan status for every jurisdiction listed in this county: 25 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.**

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

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Plan clock

Plan status for every jurisdiction listed in this county

| Jurisdiction        | Type    | Status                       | Plan                                | Approved   | Expires    | Days to expiry<br><small>negative = days since expiry</small> | Update underway | Notes                                                                                                                                                                                                                                      |
|---------------------|---------|------------------------------|-------------------------------------|------------|------------|---------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fort Bend County    | County  | Approved, expires 2029-10-29 | Fort Bend County (FEMA plan 109424) | 2024-10-30 | 2029-10-29 | 1,127                                                         |                 |                                                                                                                                                                                                                                            |
| Arcola city         | City    | Approved, expires 2029-10-29 | Fort Bend County (FEMA plan 109424) | 2024-10-30 | 2029-10-29 | 1,127                                                         |                 | member approved 2024-11-04                                                                                                                                                                                                                 |
| Beasley city        | City    | Approved, expires 2029-10-29 | Fort Bend County (FEMA plan 109424) | 2024-10-30 | 2029-10-29 | 1,127                                                         |                 |                                                                                                                                                                                                                                            |
| Fairchild's village | Village | Approved, expires 2029-10-29 | Fort Bend County (FEMA plan 109424) | 2024-10-30 | 2029-10-29 | 1,127                                                         |                 | member approved 2024-11-30                                                                                                                                                                                                                 |
| Fulshear city       | City    | Approved, expires 2029-10-29 | Fort Bend County (FEMA plan 109424) | 2024-10-30 | 2029-10-29 | 1,127                                                         |                 | member approved 2024-11-04                                                                                                                                                                                                                 |
| Houston city        | City    | Approved, expires 2028-11-15 | Houston (FEMA plan 108932)          | 2023-11-16 | 2028-11-15 | 779                                                           |                 |                                                                                                                                                                                                                                            |
| Kendleton city      | City    | Approved, expires 2029-10-29 | Fort Bend County (FEMA plan 109424) | 2024-10-30 | 2029-10-29 | 1,127                                                         |                 | member approved 2025-08-13                                                                                                                                                                                                                 |
| Meadows Place city  | City    | Approved, expires 2029-10-29 | Fort Bend County (FEMA plan 109424) | 2024-10-30 | 2029-10-29 | 1,127                                                         |                 |                                                                                                                                                                                                                                            |
| Missouri City city  | City    | Approved, expires 2031-04-15 | Harris County (FEMA plan 110989)    | 2026-04-16 | 2031-04-15 | 1,660                                                         |                 | 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. member approved 2026-08-25 |
| Needville city      | City    | Approved, expires 2029-10-29 | Fort Bend County (FEMA plan 109424) | 2024-10-30 | 2029-10-29 | 1,127                                                         |                 |                                                                                                                                                                                                                                            |
| Orchard city        | City    | Approved, expires 2029-10-29 | Fort Bend County (FEMA plan 109424) | 2024-10-30 | 2029-10-29 | 1,127                                                         |                 | member approved 2024-11-04                                                                                                                                                                                                                 |
| Pearland city       | City    | Approved, expires 2029-04-28 | Pearland (FEMA plan 109554)         | 2024-04-29 | 2029-04-28 | 943                                                           |                 |                                                                                                                                                                                                                                            |

| Jurisdiction                                   | Type                   | Status                                                                   | Plan                                                              | Approved                                 | Expires                 | Days to expiry<br><small>negative = days since expiry</small> | Update underway                                       | Notes                                      |
|------------------------------------------------|------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------|-------------------------|---------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| Pleak village                                  | Village                | Approved, expires 2029-10-29                                             | Fort Bend County (FEMA plan 109424)                               | 2024-10-30                               | 2029-10-29              | 1,127                                                         |                                                       | member approved 2024-11-30                 |
| Richmond city                                  | City                   | Approved, expires 2029-10-29                                             | Fort Bend County (FEMA plan 109424)                               | 2024-10-30                               | 2029-10-29              | 1,127                                                         |                                                       | member approved 2024-11-04                 |
| Rosenberg city                                 | City                   | Approved, expires 2029-10-29                                             | Fort Bend County (FEMA plan 109424)                               | 2024-10-30                               | 2029-10-29              | 1,127                                                         |                                                       |                                            |
| Simonton city                                  | City                   | Approved, expires 2029-10-29                                             | Fort Bend County (FEMA plan 109424)                               | 2024-10-30                               | 2029-10-29              | 1,127                                                         |                                                       | member approved 2024-11-04                 |
| Stafford city                                  | City                   | Approved, expires 2031-04-15                                             | Harris County (FEMA plan 110989)                                  | 2026-04-16                               | 2031-04-15              | 1,660                                                         |                                                       | member approved 2026-09-03                 |
| Sugar Land city                                | City                   | Approved, expires 2029-10-29                                             | Fort Bend County (FEMA plan 109424)                               | 2024-10-30                               | 2029-10-29              | 1,127                                                         |                                                       | member approved 2025-06-04                 |
| Thompsons town                                 | Town                   | Plan 109424 approved 2024-10-30, pending adoption here; not yet eligible | Fort Bend County (FEMA plan 109424), pending adoption here        | 2024-10-30 by FEMA; not yet adopted here | 2029-10-29 once adopted |                                                               | FEMA tracker shows a plan approvable pending adoption | Not yet eligible: adopt the approved plan. |
| Weston Lakes city                              | City                   | Approved, expires 2029-10-29                                             | Fort Bend County (FEMA plan 109424)                               | 2024-10-30                               | 2029-10-29              | 1,127                                                         |                                                       |                                            |
| Brazos Independent School District             | School/School District | Approved, expires 2030-04-09                                             | Austin County (FEMA plan 109771)                                  | 2025-04-10                               | 2030-04-09              | 1,289                                                         |                                                       |                                            |
| Katy Independent School District               | School/School District | No approved plan on record                                               | none                                                              | none                                     | none                    |                                                               | FEMA tracker shows a plan in review                   |                                            |
| Fort Bend County Levee Improvement District #7 | Flood Control District | Approved, expires 2029-07-23                                             | Fort Bend County Levee Improvement District #7 (FEMA plan 109232) | 2024-07-24                               | 2029-07-23              | 1,029                                                         |                                                       |                                            |
| San Jacinto River Authority                    | Flood Control District | Approved, expires 2030-04-08                                             | Waller County (FEMA plan 110285)                                  | 2025-04-09                               | 2030-04-08              | 1,288                                                         |                                                       |                                            |
| Sienna Parks & Levee Improvement District      | Flood Control District | No approved plan on record                                               | none                                                              | none                                     | none                    |                                                               | FEMA tracker shows a plan awaiting revisions          |                                            |

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

## Supports B1-a: hazards

Hazards NRI does not cover: check locally

- dam failure (incl. upstream dams)
  - levee failure
  - flash flood as its own subtype
  - ice jams
- debris flows
  - erosion (riverine and coastal)
  - land subsidence and sinkholes
  - expansive soils

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

| Rank by EAL | Hazard           | NRI risk rating     | EAL rating          | EAL buildings modeled dollars per year | EAL agriculture modeled dollars per year | EAL population equivalence statistical value of life and injury, \$13.7M per life, not property damage | EAL total (see note) modeled dollars per year | Storm Events records since 1996 count | Evidence for an omission NRI Not Applicable, no declaration and no Storm Events record since 1996        | Storm Events coverage note                                                                                                                                     |
|-------------|------------------|---------------------|---------------------|----------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1           | Inland Flooding  | Relatively High     | Relatively High     | \$164,792,147                          | \$3,334                                  | \$3,991,962                                                                                            | \$168,787,443                                 | 58                                    |                                                                                                          |                                                                                                                                                                |
| 2           | Hurricane        | Relatively High     | Very High           | \$65,068,681                           | \$719,793                                | \$4,908,938                                                                                            | \$70,697,412                                  | 5                                     |                                                                                                          |                                                                                                                                                                |
| 3           | Tornado          | Very High           | Very High           | \$9,128,769                            | \$2,144                                  | \$50,246,880                                                                                           | \$59,377,794                                  | 33                                    |                                                                                                          |                                                                                                                                                                |
| 4           | Heat Wave        | Relatively High     | Relatively High     | \$1,509                                | \$427                                    | \$17,078,792                                                                                           | \$17,080,728                                  | 15                                    |                                                                                                          |                                                                                                                                                                |
| 5           | Cold Wave        | Relatively High     | Relatively High     | \$115,083                              | \$40,371                                 | \$14,945,952                                                                                           | \$15,101,406                                  | 1                                     |                                                                                                          |                                                                                                                                                                |
| 6           | Lightning        | Very High           | Very High           | \$141,178                              |                                          | \$6,546,788                                                                                            | \$6,687,966                                   | 24                                    |                                                                                                          |                                                                                                                                                                |
| 7           | Strong Wind      | Relatively High     | Relatively High     | \$541,717                              | \$80,625                                 | \$2,713,823                                                                                            | \$3,336,165                                   | 123                                   |                                                                                                          | Includes 1 Strong Wind record, event types the NRI definition of this hazard leaves out.                                                                       |
| 8           | Ice Storm        | Relatively High     | Relatively High     | \$77,351                               |                                          | \$1,541,132                                                                                            | \$1,618,483                                   | 3                                     |                                                                                                          |                                                                                                                                                                |
| 9           | Drought          | Relatively Moderate | Relatively Moderate |                                        | \$1,476,906                              |                                                                                                        | \$1,476,906                                   | 15                                    |                                                                                                          |                                                                                                                                                                |
| 10          | Hail             | Relatively Moderate | Relatively Moderate | \$378,223                              | \$25,614                                 | \$407,384                                                                                              | \$811,220                                     | 103                                   |                                                                                                          |                                                                                                                                                                |
| 11          | Earthquake       | Relatively Low      | Relatively Low      | \$426,702                              |                                          | \$190,805                                                                                              | \$617,507                                     |                                       |                                                                                                          | Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.                                                     |
| 12          | Wildfire         | Relatively Low      | Relatively Low      | \$412,210                              | \$349                                    | \$89,489                                                                                               | \$502,048                                     | 0                                     |                                                                                                          | Declared 3 times; no Storm Events record of this type. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.                   |
| 13          | Winter Weather   | Relatively Low      | Relatively Low      | \$49,013                               | \$29                                     | \$21,660                                                                                               | \$70,702                                      | 7                                     |                                                                                                          |                                                                                                                                                                |
| 14          | Landslide        | Very Low            | Very Low            | \$2,100                                |                                          | \$5                                                                                                    | \$2,104                                       | 0                                     |                                                                                                          | No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk. |
| 15          | Coastal Flooding | Very Low            | Very Low            | \$212                                  |                                          | \$11                                                                                                   | \$224                                         | 0                                     |                                                                                                          | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                                                       |
|             | Avalanche        | Not Applicable      | Not Applicable      |                                        |                                          |                                                                                                        |                                               | 0                                     | NRI rates avalanche Not Applicable for this county, and no federal declaration for this county names it. | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                                                       |

| Rank by EAL | Hazard            | NRI risk rating | EAL rating     | EAL buildings<br><i>modeled dollars per year</i> | EAL agriculture<br><i>modeled dollars per year</i> | EAL population equivalence<br><i>statistical value of life and injury, \$13.7M per life, not property damage</i> | EAL total (see note)<br><i>modeled dollars per year</i> | Storm Events records since 1996<br><i>count</i> | Evidence for an omission<br><i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>      | Storm Events coverage note                                                                                                                                     |
|-------------|-------------------|-----------------|----------------|--------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Tsunami           | Not Applicable  | Not Applicable |                                                  |                                                    |                                                                                                                  |                                                         | 0                                               | NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.           | No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk. |
|             | Volcanic Activity | Not Applicable  | Not Applicable |                                                  |                                                    |                                                                                                                  |                                                         | 0                                               | NRI rates volcanic activity Not Applicable for this county, and no federal declaration for this county names it. | No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk. |

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

**SOURCES**  
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_Counties.zip](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](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip) (download, 635 MB)  
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

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

## Supports B1-b: location

### Where each hazard occurs

| Hazard           | Location                                                                                                                                                                                                  | Census tracts rated<br><i>rated of all tracts</i> |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Avalanche        | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 0 of 133                                          |
| Coastal Flooding | The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center ( <a href="https://msc.fema.gov">https://msc.fema.gov</a> ) for this county. | 2 of 133                                          |
| Cold Wave        | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 133 of 133                                        |
| Drought          | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 62 of 133                                         |
| Earthquake       | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 133 of 133                                        |
| Hail             | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 133 of 133                                        |
| Heat Wave        | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 133 of 133                                        |
| Hurricane        | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 133 of 133                                        |
| Ice Storm        | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 133 of 133                                        |
| Inland Flooding  | The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center ( <a href="https://msc.fema.gov">https://msc.fema.gov</a> ) for this county. | 133 of 133                                        |
| Landslide        | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 124 of 133                                        |
| Lightning        | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 133 of 133                                        |
| Strong Wind      | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 133 of 133                                        |
| Tornado          | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.                                                                        | 133 of 133                                        |

| Hazard            | Location                                                                                                                           | Census tracts rated<br><i>rated of all tracts</i> |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Tsunami           | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet. | 0 of 133                                          |
| Volcanic Activity | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet. | 0 of 133                                          |
| Wildfire          | Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet. | 131 of 133                                        |
| Winter Weather    | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                    | 133 of 133                                        |

**SOURCE**

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_Counties.zip](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](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip) (download, 635 MB)

## Supports B1-c: extent

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

| Hazard                                          | Scale                          | Records<br><i>count, years</i>   | Observed range                                                | Worst recorded event                                                                                           | Most damaging<br>(when different)                                                                  | How it applies to members                                                                                                                                                                                                                                                                                                                                            | Note                                                                                                                                                                 |
|-------------------------------------------------|--------------------------------|----------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche                                       | none (count and damage)        | 0                                |                                                               |                                                                                                                |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                      | Physical measure: in event narratives only; local data required.                                                                                                     |
| Coastal Flood, Storm Surge/ Tide                | none in data (FIRM for depth)  | 0                                |                                                               |                                                                                                                |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                      | Flood depth: see the FEMA Flood Insurance Rate Map.                                                                                                                  |
| Cold/Wind Chill, Extreme Cold/Wind Chill        | wind chill                     | 1, 2021 to 2021 (1 zone-level)   | 2 days; 1 with a recorded value                               | 2 consecutive days, 2021-02-15 to 2021-02-16, 3 direct deaths, zone-level                                      |                                                                                                    | Zone-level records: applies countywide; national data do not locate these events within the county.                                                                                                                                                                                                                                                                  | Wind chill: in event narratives only; local data required.                                                                                                           |
| Frost/Freeze (outside NRI Cold Wave definition) | crop damage                    | 0                                |                                                               |                                                                                                                |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                      | Temperature: in event narratives only; local data required.                                                                                                          |
| Drought                                         | US Drought Monitor D-scale     | 15, 1996 to 2023 (15 zone-level) | 61 days to 123 days (median 91 days); 5 with a recorded value | 123 days (4 months), 1998-05-01 to 1998-08-31, a run of 4 consecutive Storm Events drought records, zone-level | Drought, 1998-08-01, \$1,000,000 property; \$7,300,000 crops, reported for the zone (1998 dollars) | Zone-level records: applies countywide; national data do not locate these events within the county.                                                                                                                                                                                                                                                                  | Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only. |
| Earthquake                                      | Modified Mercalli (local data) | 0                                |                                                               |                                                                                                                |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                      | No Storm Events record; local data required (e.g., USGS).                                                                                                            |
| Hail                                            | hail size (inches)             | 129, 1961 to 2026                | 0.75 in to 2.75 in (median 1 in); 129 with a recorded value   | 2.75 in hail, 2024-03-16; same size also recorded on 1999-05-30, 2001-04-16                                    | Hail, 2001-04-16, \$2,000,000 property; crops not reported (2001 dollars)                          | Event records naming member places: Needville city (12 records), Richmond city (11 records), Fulshear city (5 records), Missouri City city (5 records), Rosenberg city (5 records), Stafford city (4 records), Arcola city (3 records), Beasley city (3 records), Orchard city (2 records), Simonton city (2 records); and 2 more member places (see the XLSX file). |                                                                                                                                                                      |

| Hazard                                         | Scale                                  | Records<br><i>count, years</i>   | Observed range                                              | Worst recorded event                                                                                                                                                                                                                                                                                                                                          | Most damaging<br>(when different) | How it applies to members                                                                                                                                                                                                                                                                                                      | Note                                                                                                                                                                                                                                                      |
|------------------------------------------------|----------------------------------------|----------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Excessive Heat, Heat                           | heat index (narratives)                | 15, 1999 to 2023 (15 zone-level) | 2 days to 31 days (median 5 days); 13 with a recorded value | 31 days, 1999-08-01 to 1999-08-31, from 1 monthly summary record (a monthly summary record covers most or all of a month; it does not count days at wave conditions), zone-level                                                                                                                                                                              |                                   | Zone-level records: applies countywide; national data do not locate these events within the county.                                                                                                                                                                                                                            | Heat index: in event narratives only; local data required.                                                                                                                                                                                                |
| Hurricane, Tropical Storm, Tropical Depression | Saffir-Simpson                         | 5, 1998 to 2021 (5 zone-level)   |                                                             | Strongest recorded (records with damage, a wind speed or direct casualties first, then storm type, category and wind): Hurricane (Typhoon) record, 2008-09-12 to 2008-09-13, category 1, \$400,000,000 property; crops not reported, reported for the zone (2008 dollars); NWS zone TXZ227 (FORT BEND), zone-level: may include parts of neighboring counties |                                   | Zone-level records: applies countywide; national data do not locate these events within the county.                                                                                                                                                                                                                            | Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns. |
| Ice Storm                                      | Sperry-Piltz (local data)              | 3, 1997 to 2011 (3 zone-level)   |                                                             | Ice Storm, 2007-01-16, \$2,000 property; \$0 crops, reported for the zone (2007 dollars); NWS zone TXZ227 (FORT BEND), zone-level: may include parts of neighboring counties                                                                                                                                                                                  |                                   | Zone-level records: applies countywide; national data do not locate these events within the county.                                                                                                                                                                                                                            | Ice thickness: in event narratives only; local data required.                                                                                                                                                                                             |
| Flash Flood, Flood, Lakeshore Flood            | damage and flood days (FIRM for depth) | 58, 1997 to 2021 (2 zone-level)  |                                                             | Flash Flood, 2017-08-26, \$8,000,000,000 property; \$50,000 crops (2017 dollars), 3 direct deaths                                                                                                                                                                                                                                                             |                                   | Event records naming member places: Rosenberg city (8 records), Richmond city (7 records), Fulshear city (4 records), Kendleton city (3 records), Stafford city (3 records), Arcola city (2 records), Needville city (2 records), Simonton city (2 records), Beasley city (1 record). Zone-level records (2) apply countywide. | Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.                           |
| Debris Flow                                    | none (count and damage)                | 0                                |                                                             |                                                                                                                                                                                                                                                                                                                                                               |                                   |                                                                                                                                                                                                                                                                                                                                | Physical measure: in event narratives only; local data required.                                                                                                                                                                                          |

| Hazard                                                         | Scale                                                                              | Records<br><i>count, years</i> | Observed range                                                                     | Worst recorded event                                                                                                                                                                                                                                               | Most damaging<br>(when different)                                                                    | How it applies to members                                                                                                                                                                                                                                                                                                                                                    | Note                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lightning                                                      | annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names) | 24, 1996 to 2026               |                                                                                    | Lightning, 2003-07-23, damage not reported, 1 direct death, 2 direct injuries                                                                                                                                                                                      | Lightning, 2013-05-10, \$130,000 property; \$0 crops (2013 dollars)                                  | Event records naming member places: Stafford city (4 records), Richmond city (3 records), Needville city (2 records), Rosenberg city (2 records), Kendleton city (1 record).                                                                                                                                                                                                 | Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.                                                                                                                                                                                                                                                                                                       |
| High Wind and Strong Wind (outside NRI Strong Wind definition) | wind speed (kt and mph)                                                            | 1, 1997 to 1997 (1 zone-level) |                                                                                    | No wind speed recorded in 1 records.                                                                                                                                                                                                                               | Strong Wind, 1997-02-20, \$15,000 property; crops not reported, reported for the zone (1997 dollars) | Zone-level records: applies countywide; national data do not locate these events within the county.                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Thunderstorm Wind                                              | wind speed (kt and mph)                                                            | 163, 1955 to 2026              | 50 kt (58 mph) to 70 kt (81 mph) (median 52 kt (60 mph)); 98 with a recorded value | 70 kt (81 mph) estimated gust, Thunderstorm Wind, 2009-09-03                                                                                                                                                                                                       | Thunderstorm Wind, 2000-05-02, \$0 property; \$2,000,000 crops (2000 dollars)                        | Event records naming member places: Richmond city (12 records), Rosenberg city (12 records), Needville city (10 records), Fulshear city (8 records), Missouri City city (5 records), Orchard city (5 records), Stafford city (5 records), Beasley city (4 records), Simonton city (3 records), Fairchilds village (2 records); and 5 more member places (see the XLSX file). |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tornado                                                        | Enhanced Fujita (F before Feb 2007)                                                | 60, 1950 to 2023               | F/EF0 to F/EF3 (median F/EF0); 57 with a recorded value                            | F3 tornado, 1965-04-19, 0.2 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 150 yd wide, \$25,000 property; crops not recorded (1965 dollars), 1 direct death, 3 direct injuries | Tornado, 1998-02-16, \$3,700,000 property; crops not reported (1998 dollars)                         | Event records naming member places: Needville city (4 records), Stafford city (4 records), Rosenberg city (2 records), Arcola city (1 record), Beasley city (1 record), Fairchilds village (1 record), Fulshear city (1 record), Kendleton city (1 record), Missouri City city (1 record), Pleak village (1 record); and 1 more member place (see the XLSX file).            | From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes. |
| Tsunami                                                        | none (count and damage)                                                            | 0                              |                                                                                    |                                                                                                                                                                                                                                                                    |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                              | Physical measure: in event narratives only; local data required.                                                                                                                                                                                                                                                                                                                                                              |
| Volcanic Ash, Volcanic Ashfall                                 | Volcanic Explosivity Index (local data)                                            | 0                              |                                                                                    |                                                                                                                                                                                                                                                                    |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                              | Physical measure: in event narratives only; local data required.                                                                                                                                                                                                                                                                                                                                                              |
| Wildfire                                                       | acres burned (local data)                                                          | 0                              |                                                                                    |                                                                                                                                                                                                                                                                    |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                              | Acres burned: in event narratives only; local data required.                                                                                                                                                                                                                                                                                                                                                                  |

| Hazard                                                                      | Scale                         | Records<br><i>count, years</i> | Observed range | Worst recorded event             | Most damaging<br>(when different) | How it applies to members                                                                           | Note                                                       |
|-----------------------------------------------------------------------------|-------------------------------|--------------------------------|----------------|----------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet | none in data (snowfall local) | 7, 2004 to 2025 (7 zone-level) |                | No damage reported in 7 records. |                                   | Zone-level records: applies countywide; national data do not locate these events within the county. | Snow depth: in event narratives only; local data required. |

Where a hazard names more than 10 member places, the table lists the 10 with the most records; every place is in the XLSX 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 are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

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

SOURCES

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

Supports B1-d: previous occurrences

Declaration rows28Counted incidents21

Federal disaster declarations for this county

| Declared   | Incident began | FEMA number | Type           | Title                           | Mapped hazard            | County Public Assistance<br><i>federal share obligated, nominal dollars</i> | Flags                                                                             | Notes                    |
|------------|----------------|-------------|----------------|---------------------------------|--------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------|
| 2024-07-09 | 2024-07-05     | DR-4798-TX  | Major disaster | HURRICANE BERYL                 | Hurricane                | \$17,722,052.98                                                             | during plan review, check whether your last plan included it; within last 5 years |                          |
| 2021-02-19 | 2021-02-11     | DR-4586-TX  | Major disaster | SEVERE WINTER STORMS            | Ice Storm                | \$1,257,600.90                                                              |                                                                                   |                          |
| 2021-02-14 | 2021-02-11     | EM-3554-TX  | Emergency      | SEVERE WINTER STORM             | Ice Storm                | none found                                                                  |                                                                                   | same incident as DR-4586 |
| 2020-08-24 | 2020-08-23     | EM-3540-TX  | Emergency      | TROPICAL STORMS MARCO AND LAURA | Hurricane                | \$34,610.16                                                                 |                                                                                   |                          |
| 2020-07-26 | 2020-07-25     | EM-3530-TX  | Emergency      | HURRICANE HANNA                 | Hurricane                | none found                                                                  |                                                                                   |                          |
| 2020-03-25 | 2020-01-20     | DR-4485-TX  | Major disaster | COVID-19 PANDEMIC               | Non-natural, not counted | \$31,445,212.72                                                             |                                                                                   |                          |
| 2020-03-13 | 2020-01-20     | EM-3458-TX  | Emergency      | COVID-19                        | Non-natural, not counted | none found                                                                  |                                                                                   | same incident as DR-4485 |
| 2017-08-25 | 2017-08-23     | DR-4332-TX  | Major disaster | HURRICANE HARVEY                | Hurricane                | \$46,615,701                                                                |                                                                                   |                          |

| Declared   | Incident began | FEMA number | Type            | Title                                                      | Mapped hazard                                                                                                                       | County Public Assistance                        | Flags | Notes                    |
|------------|----------------|-------------|-----------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------|--------------------------|
|            |                |             |                 |                                                            |                                                                                                                                     | <i>federal share obligated, nominal dollars</i> |       |                          |
| 2016-06-11 | 2016-05-22     | DR-4272-TX  | Major disaster  | SEVERE STORMS AND FLOODING                                 | Inland Flooding                                                                                                                     | \$2,668,808.01                                  |       |                          |
| 2016-04-25 | 2016-04-17     | DR-4269-TX  | Major disaster  | SEVERE STORMS AND FLOODING                                 | Inland Flooding                                                                                                                     | \$254,921.23                                    |       |                          |
| 2015-05-29 | 2015-05-04     | DR-4223-TX  | Major disaster  | SEVERE STORMS, TORNADOES, STRAIGHT-LINE WINDS AND FLOODING | Inland Flooding; Strong Wind; Tornado                                                                                               | PA not declared for this county                 |       |                          |
| 2008-09-13 | 2008-09-07     | DR-1791-TX  | Major disaster  | HURRICANE IKE                                              | Hurricane (primary); also designated: Inland Flooding                                                                               | \$23,117,682.41                                 |       |                          |
| 2008-09-10 | 2008-09-07     | EM-3294-TX  | Emergency       | HURRICANE IKE                                              | Hurricane                                                                                                                           | \$0                                             |       | same incident as DR-1791 |
| 2008-08-29 | 2008-08-27     | EM-3290-TX  | Emergency       | HURRICANE GUSTAV                                           | Hurricane                                                                                                                           | none found                                      |       |                          |
| 2007-08-18 | 2007-08-17     | EM-3277-TX  | Emergency       | HURRICANE DEAN                                             | Hurricane                                                                                                                           | none found                                      |       |                          |
| 2006-05-26 | 2006-05-26     | FM-2639-TX  | Fire management | LAKE OLYMPIA FIRE                                          | Wildfire                                                                                                                            | none found                                      |       |                          |
| 2006-01-11 | 2005-11-27     | DR-1624-TX  | Major disaster  | EXTREME WILDFIRE THREAT                                    | Wildfire                                                                                                                            | none found                                      |       |                          |
| 2005-09-24 | 2005-09-23     | DR-1606-TX  | Major disaster  | HURRICANE RITA                                             | Hurricane                                                                                                                           | \$606,324.75                                    |       |                          |
| 2005-09-21 | 2005-09-20     | EM-3261-TX  | Emergency       | HURRICANE RITA                                             | Hurricane                                                                                                                           | \$159,722.09                                    |       | same incident as DR-1606 |
| 2005-09-02 | 2005-08-29     | EM-3216-TX  | Emergency       | HURRICANE KATRINA EVACUATION                               | Hurricane: evacuation support, not a local hazard event; not counted                                                                | \$90,383.36                                     |       |                          |
| 2002-11-05 | 2002-10-24     | DR-1439-TX  | Major disaster  | SEVERE STORMS, TORNADOES AND FLOODING                      | Inland Flooding; Tornado                                                                                                            | PA not declared for this county                 |       |                          |
| 2001-06-09 | 2001-06-05     | DR-1379-TX  | Major disaster  | TX-TROPICAL STORM ALLISON-06-06-2001                       | Hurricane                                                                                                                           | \$63,293.81                                     |       |                          |
| 1999-09-01 | 1999-08-01     | EM-3142-TX  | Emergency       | EXTREME FIRE HAZARDS                                       | Wildfire                                                                                                                            | none found                                      |       |                          |
| 1998-10-21 | 1998-10-17     | DR-1257-TX  | Major disaster  | TX-FLOODING 10/18/98                                       | Inland Flooding (primary); also designated: Tornado                                                                                 | \$17,376.64                                     |       |                          |
| 1998-08-26 | 1998-08-22     | DR-1239-TX  | Major disaster  | TROPICAL STORM CHARLEY                                     | Hurricane; Inland Flooding: designated for Hazard Mitigation only (no Public or Individual Assistance for this county); not counted | PA not declared for this county                 |       |                          |
| 1994-10-18 | 1994-10-14     | DR-1041-TX  | Major disaster  | SEVERE THUNDERSTORMS AND FLOODING                          | Inland Flooding                                                                                                                     | PA not declared for this county                 |       |                          |
| 1991-12-26 | 1991-12-20     | DR-930-TX   | Major disaster  | SEVERE THUNDERSTORMS                                       | Inland Flooding                                                                                                                     | PA not declared for this county                 |       |                          |
| 1983-08-19 | 1983-08-18     | DR-689-TX   | Major disaster  | HURRICANE ALICIA                                           | Hurricane                                                                                                                           | none found                                      |       |                          |

County Public Assistance: applicants the FEMA record places in this county, including any state agencies FEMA files there; statewide rows are listed on the state page; federal share obligated, nominal dollars. Dollars are nominal (as reported), labeled with the year; not adjusted for inflation.

SOURCES

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)  
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)  
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Statewide declarations

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

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

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

SOURCE

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

Public Assistance filed under this county for declarations that do not list it: 1 row, \$5,196.96

| FEMA number | Declared   | Title                                  | Applicant                          | PA obligated<br><i>federal share obligated, nominal dollars</i> |
|-------------|------------|----------------------------------------|------------------------------------|-----------------------------------------------------------------|
| DR-1709-TX  | 2007-06-29 | SEVERE STORMS, TORNADOES, AND FLOODING | Stafford Municipal School District | \$5,196.96                                                      |

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

SOURCES

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)  
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

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

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

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

**SOURCE**

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

**Previous occurrences by hazard, with explicit no-event rows**

| <b>Hazard</b>     | <b>Storm Events<br/>records<br/><i>full period</i></b> | <b>Since plan<br/>approval<br/>records</b> | <b>During plan<br/>review<br/>records</b> | <b>Last 5<br/>years<br/>records</b> | <b>Declared<br/>incidents<br/><i>distinct incidents</i></b> | <b>Declared since<br/>approval<br/><i>distinct incidents</i></b> | <b>Period</b>      | <b>Statement</b>                                                                            |
|-------------------|--------------------------------------------------------|--------------------------------------------|-------------------------------------------|-------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------|
| Avalanche         | 0                                                      | 0                                          | 0                                         | 0                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                              |
| Coastal Flooding  | 0                                                      | 0                                          | 0                                         | 0                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                              |
| Cold Wave         | 1                                                      | 0                                          | 0                                         | 0                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 |                                                                                             |
| Drought           | 15                                                     | 0                                          | 0                                         | 6                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 |                                                                                             |
| Earthquake        | 0                                                      | 0                                          | 0                                         | 0                                   | 0                                                           | 0                                                                |                    | No Storm Events record; local data required (e.g., USGS).                                   |
| Hail              | 129                                                    | 4                                          | 11                                        | 18                                  | 0                                                           | 0                                                                | 1955 to 2026-06-30 |                                                                                             |
| Heat Wave         | 15                                                     | 0                                          | 0                                         | 7                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 |                                                                                             |
| Hurricane         | 5                                                      | 0                                          | 0                                         | 0                                   | 10                                                          | 0                                                                | 1996 to 2026-06-30 |                                                                                             |
| Ice Storm         | 3                                                      | 0                                          | 0                                         | 0                                   | 1                                                           | 0                                                                | 1996 to 2026-06-30 |                                                                                             |
| Inland Flooding   | 58                                                     | 0                                          | 0                                         | 1                                   | 8                                                           | 0                                                                | 1996 to 2026-06-30 |                                                                                             |
| Landslide         | 0                                                      | 0                                          | 0                                         | 0                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                              |
| Lightning         | 24                                                     | 1                                          | 0                                         | 1                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 |                                                                                             |
| Strong Wind       | 164                                                    | 4                                          | 5                                         | 12                                  | 1                                                           | 0                                                                | 1955 to 2026-06-30 | Includes 1 Strong Wind record, event types the NRI definition of this hazard leaves out.    |
| Tornado           | 60                                                     | 0                                          | 0                                         | 2                                   | 3                                                           | 0                                                                | 1950 to 2026-06-30 |                                                                                             |
| Tsunami           | 0                                                      | 0                                          | 0                                         | 0                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                              |
| Volcanic Activity | 0                                                      | 0                                          | 0                                         | 0                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                              |
| Wildfire          | 0                                                      | 0                                          | 0                                         | 0                                   | 3                                                           | 0                                                                | 1996 to 2026-06-30 | No Storm Events records of this type; 3 federal declared incidents (see declarations table) |
| Winter Weather    | 7                                                      | 1                                          | 0                                         | 2                                   | 0                                                           | 0                                                                | 1996 to 2026-06-30 |                                                                                             |

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

| Date       | Event type             | Magnitude or extent                                                                                                                                   | Damage<br><i>nominal dollars</i>                                                 | Direct<br>deaths,<br>injuries<br><i>indirect not<br/>counted</i> | Location                                                                           | Flags                                                                             | Why listed                                                          |
|------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 2024-03-16 | Hail                   | 2.75 in                                                                                                                                               | \$0 property; \$0 crops (2024 dollars)                                           | 0, 0                                                             | NEEDVILLE                                                                          | during plan review, check whether your last plan included it; within last 5 years | B1-c worst recorded: Hail                                           |
| 2021-02-15 | Cold/Wind<br>Chill     |                                                                                                                                                       | \$1,600,000 property; crops not reported, reported for the zone (2021 dollars)   | 3, 0                                                             | NWS zone TXZ227 (FORT BEND), zone-level: may include parts of neighboring counties |                                                                                   | deaths or injuries recorded                                         |
| 2017-08-26 | Flash Flood            |                                                                                                                                                       | \$8,000,000,000 property; \$50,000 crops (2017 dollars)                          | 3, 0                                                             | KENDLETON to KATY                                                                  |                                                                                   | deaths or injuries recorded                                         |
| 2013-05-10 | Lightning              |                                                                                                                                                       | \$130,000 property; \$0 crops (2013 dollars)                                     | 0, 0                                                             | CLODINE                                                                            |                                                                                   | B1-c most damaging: Lightning                                       |
| 2009-09-03 | Thunderstorm<br>Wind   | 70 kt (81 mph) estimated gust                                                                                                                         | \$3,000 property; \$0 crops (2009 dollars)                                       | 0, 0                                                             | CLODINE                                                                            |                                                                                   | B1-c worst recorded: Thunderstorm Wind                              |
| 2008-09-12 | Hurricane<br>(Typhoon) | category 1                                                                                                                                            | \$400,000,000 property; crops not reported, reported for the zone (2008 dollars) | 0, 0                                                             | NWS zone TXZ227 (FORT BEND), zone-level: may include parts of neighboring counties |                                                                                   | B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression |
| 2007-01-16 | Ice Storm              |                                                                                                                                                       | \$2,000 property; \$0 crops, reported for the zone (2007 dollars)                | 0, 0                                                             | NWS zone TXZ227 (FORT BEND), zone-level: may include parts of neighboring counties |                                                                                   | B1-c worst recorded: Ice Storm                                      |
| 2003-07-23 | Lightning              |                                                                                                                                                       | damage not reported                                                              | 1, 2                                                             | SUGARLAND                                                                          |                                                                                   | B1-c worst recorded: Lightning                                      |
| 1999-08-01 | Heat                   |                                                                                                                                                       | damage not reported                                                              | 0, 0                                                             | NWS zone TXZ227 (FORT BEND), zone-level: may include parts of neighboring counties |                                                                                   | B1-c worst recorded: Excessive Heat, Heat                           |
| 1998-05-01 | Drought                |                                                                                                                                                       | damage not reported                                                              | 0, 0                                                             | NWS zone TXZ227 (FORT BEND), zone-level: may include parts of neighboring counties |                                                                                   | B1-c worst recorded: Drought                                        |
| 1998-02-16 | Tornado                | F1, 1.2 mi within this county, 200 yd wide                                                                                                            | \$3,700,000 property; crops not reported (1998 dollars)                          | 0, 4                                                             | SUGARLAND                                                                          |                                                                                   | B1-c most damaging: Tornado                                         |
| 1965-04-19 | Tornado                | F3, 0.2 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 150 yd wide | \$25,000 property; crops not recorded (1965 dollars)                             | 1, 3                                                             | location not recorded                                                              |                                                                                   | deaths or injuries recorded                                         |

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

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

SOURCES

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

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

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

| Hazard           | FEMA annualized frequency (modeled)<br><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                                                                                                                                                                                                                                                                                                                                                                |
|------------------|------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche        |                                                            | events per year                         |                                                                                            |               |                                                          |                                                                                                          | 1994 to 2023 (30 years)                    | see B1-f   | Not Applicable in NRI for this county; no descriptor.                                                                                                                                                                                                                                                                                                               |
| Coastal Flooding | 0.012                                                      | events per year at a location (modeled) | about 0.012 per year at a given location in the county                                     |               | Storm Events records in 0 of 30 years, 1996 to 2025 (0%) | not shown                                                                                                | modeled                                    | see B1-f   | No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)                                                                                                                                                                                 |
| Cold Wave        | 0.474                                                      | event-days per year                     | about 0.474 days per year                                                                  | Possible      | event-days in 1 of 30 years, 1996 to 2025 (3.33%)        | 9                                                                                                        | 2005-11-12 to 2024-11-12 (19 years)        | countywide | Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.                                                                                                                                                                                                                                                                  |
| Drought          | 26.2                                                       | event-days per year                     | about 26.2 days per year                                                                   | Likely        | event-days in 5 of 30 years, 1996 to 2025 (16.7%)        | 917                                                                                                      | 2000 to 2025 (25.25 years; D3 and D4 only) | countywide | NRI gives about 26.2 drought event-days a year here (its annualized frequency over 25.25 years; not its event count divided by the years), but Storm Events has a record in only 5 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together. |
| Earthquake       | 0.000464                                                   | annual probability at a location        | chance a given location in the county has at least minor-damage shaking in a year: 0.0464% |               |                                                          | not shown                                                                                                | modeled                                    | see B1-f   | Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.                                                                                                                                                                                        |
| Hail             | 2.11                                                       | events per year                         | about 2.11 per year                                                                        | Highly likely | FEMA annualized frequency (modeled)                      | 80.0 (modeled)                                                                                           | 1986 to 2023 (38 years)                    | countywide |                                                                                                                                                                                                                                                                                                                                                                     |

| Hazard            | FEMA<br>annualized<br>frequency<br>(modeled)<br><i>unit per row</i> | Unit                                                                              | In plain terms                                                | Descriptor    | Descriptor<br>basis                                      | NRI events or days in<br>its record period (hail,<br>wind and tornado are<br>area-weighted, so can<br>be fractional) | NRI period                                | Location   | Note                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------|---------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Heat Wave         | 14.3                                                                | event-days per year                                                               | about 14.3 days per year                                      | Likely        | event-days in 4 of 30 years, 1996 to 2025 (13.3%)        | 241                                                                                                                  | 2005-11-12 to 2024-11-12 (19 years)       | countywide | NRI gives about 14.3 heat wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 4 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together. |
| Hurricane         | 0.175                                                               | events per year                                                                   | about 1 in 6 years                                            | Likely        | FEMA annualized frequency (modeled)                      | 59                                                                                                                   | 1851 to 2024 (Atlantic)                   | see B1-f   | NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are counted separately in B1-d and need not match.                                                                                                                                                                                                      |
| Ice Storm         | 0.825                                                               | event-days per year                                                               | about 0.825 days per year                                     | Likely        | event-days in 3 of 30 years, 1996 to 2025 (10%)          | 56                                                                                                                   | 1946-12-31 to 2014-02-12 (67 years)       | countywide |                                                                                                                                                                                                                                                                                                                                                                    |
| Inland Flooding   | 1.68                                                                | event-days per year                                                               | about 1.68 days per year                                      | Likely        | event-days in 21 of 30 years, 1996 to 2025 (70%)         | 47                                                                                                                   | 1996 to 2023 (28 years)                   | see B1-f   |                                                                                                                                                                                                                                                                                                                                                                    |
| Landslide         | 0.0949                                                              | events per year (modeled)                                                         | about 1 in 11 years                                           | Possible      | FEMA annualized frequency (modeled)                      | not shown                                                                                                            | modeled                                   | see B1-f   |                                                                                                                                                                                                                                                                                                                                                                    |
| Lightning         | 74.3                                                                | days per year with a strike                                                       | about 74.3 days per year                                      | Highly likely | FEMA annualized frequency (modeled)                      | not shown                                                                                                            | 1995 to 2023 (29 years; CONUS)            | countywide |                                                                                                                                                                                                                                                                                                                                                                    |
| Strong Wind       | 1.36                                                                | events per year                                                                   | about 1.36 per year                                           | Highly likely | FEMA annualized frequency (modeled)                      | 52                                                                                                                   | 1986 to 2023 (38 years)                   | countywide |                                                                                                                                                                                                                                                                                                                                                                    |
| Tornado           | 0.766                                                               | events per year                                                                   | about 0.77 per year                                           | Likely        | FEMA annualized frequency (modeled)                      | not shown                                                                                                            | 1950 to 2023 (EF2+); 1986 to 2023 (EF0-1) | see B1-f   |                                                                                                                                                                                                                                                                                                                                                                    |
| Tsunami           |                                                                     | annual probability at the most exposed location (used in place of a county value) |                                                               |               |                                                          | not shown                                                                                                            | modeled                                   | see B1-f   | Not Applicable in NRI for this county; no descriptor.                                                                                                                                                                                                                                                                                                              |
| Volcanic Activity |                                                                     | annual probability                                                                |                                                               |               |                                                          | not shown                                                                                                            | modeled                                   | see B1-f   | Not Applicable in NRI for this county; no descriptor.                                                                                                                                                                                                                                                                                                              |
| Wildfire          | 0.00161                                                             | annual probability at a location                                                  | chance a given location in the county burns in a year: 0.161% |               | Storm Events records in 0 of 30 years, 1996 to 2025 (0%) | not shown                                                                                                            | modeled                                   | see B1-f   | No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)                                                                                                                                                                                |

| Hazard            | FEMA<br>annualized<br>frequency<br>(modeled)<br><i>unit per row</i> | Unit                   | In plain terms              | Descriptor | Descriptor<br>basis                                      | NRI events or days in<br>its record period (hail,<br>wind and tornado are<br>area-weighted, so can<br>be fractional) | NRI period                                | Location   | Note                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|---------------------------------------------------------------------|------------------------|-----------------------------|------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Winter<br>Weather | 1.11                                                                | event-days per<br>year | about 1.11 days<br>per year | Likely     | event-days in 6<br>of 30 years,<br>1996 to 2025<br>(20%) | 21                                                                                                                   | 2005-11-12 to<br>2024-11-12<br>(19 years) | countywide | NRI gives about 1.11 winter weather event-days a<br>year here (its annualized frequency over 19 years;<br>not its event count divided by the years), but Storm<br>Events has a record in only 6 of 30 years. NRI<br>counts from a different source that records far more<br>events than Storm Events, so this descriptor reads<br>much lower than NRI's frequency; read the two<br>together. |

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

**SOURCES**  
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_Counties.zip](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](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip) (download, 635 MB)  
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Descriptor scale used in this packet (defined per unit)

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

**SOURCES**  
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_Counties.zip](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](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip) (download, 635 MB)  
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Intensity bands: historical frequency (Storm Events)

| Hazard                                  | Band                      | Years        | Events<br><i>county-coded records</i> | Years in period | Events per year<br><i>events / years</i> |
|-----------------------------------------|---------------------------|--------------|---------------------------------------|-----------------|------------------------------------------|
| Hail                                    | 1.00-1.99 in              | 1996 to 2025 | 52                                    | 30              | 1.73                                     |
| Hail                                    | 2.00 in+                  | 1996 to 2025 | 8                                     | 30              | 0.267                                    |
| Strong Wind (Thunderstorm Wind records) | 50-64 kt                  | 1996 to 2025 | 84                                    | 30              | 2.8                                      |
| Strong Wind (Thunderstorm Wind records) | 65 kt+                    | 1996 to 2025 | 2                                     | 30              | 0.0667                                   |
| Strong Wind (Thunderstorm Wind records) | unmeasured or below 50 kt | 1996 to 2025 | 33                                    | 30              | 1.1                                      |
| Tornado                                 | EF0-1                     | 1996 to 2025 | 30                                    | 30              | 1                                        |
| Tornado                                 | EF2-3                     | 1996 to 2025 | 3                                     | 30              | 0.1                                      |
| Tornado                                 | EF4-5                     | 1996 to 2025 | 0                                     | 30              | 0                                        |
| Tornado                                 | unrated (EFU)             | 1996 to 2025 | 0                                     | 30              | 0                                        |

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

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

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

Supports B1-f: variation across the planning area

Range of census tract risk within the county

| Hazard              | Tracts<br><i>rated of all</i> | Risk<br>score<br>min<br><i>NRI score,<br/>0 to 100</i> | Median | Max  | Tracts by rating                                                                       | Note                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-------------------------------|--------------------------------------------------------|--------|------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche           | 0 of 133                      |                                                        |        |      | Not Applicable 133                                                                     |                                                                                                                                                                                                                                                                                                                                                                |
| Coastal<br>Flooding | 2 of 133                      | 72.2                                                   | 73.0   | 73.8 | Very Low 2, Not Applicable 131                                                         |                                                                                                                                                                                                                                                                                                                                                                |
| Cold Wave           | 133 of 133                    | 36.7                                                   | 66.2   | 90.4 | Relatively High 12, Relatively Moderate 110, Relatively Low 11                         | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.                                                                                                                           |
| Drought             | 62 of 133                     | 67.0                                                   | 76.9   | 98.7 | Relatively High 2, Relatively Moderate 5, Relatively Low 17, Very Low 38, No Rating 71 | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally. |
| Earthquake          | 133 of 133                    | 3.1                                                    | 13.9   | 51.4 | Relatively Low 1, Very Low 132                                                         |                                                                                                                                                                                                                                                                                                                                                                |
| Hail                | 133 of 133                    | 24.4                                                   | 43.9   | 70.3 | Relatively Moderate 1, Relatively Low 96, Very Low 36                                  | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.                                                                                                                           |
| Heat Wave           | 133 of 133                    | 43.5                                                   | 80.8   | 95.5 | Relatively High 48, Relatively Moderate 77, Relatively Low 8                           | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.                                                                                                                           |

| Hazard            | Tracts<br><i>rated of all</i> | Risk<br>score<br>min<br><i>NRI score,<br/>0 to 100</i> | Median | Max  | Tracts by rating                                                                        | Note                                                                                                                                                                                                                                 |
|-------------------|-------------------------------|--------------------------------------------------------|--------|------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hurricane         | 133 of 133                    | 70.4                                                   | 88.5   | 98.0 | Very High 1, Relatively High 47, Relatively Moderate 83, Relatively Low 2               |                                                                                                                                                                                                                                      |
| Ice Storm         | 133 of 133                    | 36.6                                                   | 70.8   | 90.9 | Relatively High 2, Relatively Moderate 71, Relatively Low 60                            | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Inland Flooding   | 133 of 133                    | 7.2                                                    | 71.9   | 99.7 | Very High 17, Relatively High 31, Relatively Moderate 50, Relatively Low 32, Very Low 3 |                                                                                                                                                                                                                                      |
| Landslide         | 124 of 133                    | 12.3                                                   | 51.8   | 89.1 | Relatively Low 4, Very Low 120, No Rating 9                                             |                                                                                                                                                                                                                                      |
| Lightning         | 133 of 133                    | 52.6                                                   | 89.2   | 99.1 | Very High 13, Relatively High 88, Relatively Moderate 32                                | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Strong Wind       | 133 of 133                    | 23.8                                                   | 56.1   | 88.7 | Relatively High 3, Relatively Moderate 70, Relatively Low 60                            | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |
| Tornado           | 133 of 133                    | 59.7                                                   | 90.1   | 99.8 | Very High 48, Relatively High 70, Relatively Moderate 15                                |                                                                                                                                                                                                                                      |
| Tsunami           | 0 of 133                      |                                                        |        |      | Not Applicable 133                                                                      |                                                                                                                                                                                                                                      |
| Volcanic Activity | 0 of 133                      |                                                        |        |      | Not Applicable 133                                                                      |                                                                                                                                                                                                                                      |
| Wildfire          | 131 of 133                    | 19.8                                                   | 47.7   | 91.2 | Relatively Moderate 4, Relatively Low 40, Very Low 87, No Rating 2                      |                                                                                                                                                                                                                                      |
| Winter Weather    | 133 of 133                    | 16.3                                                   | 22.9   | 41.5 | Relatively Low 125, Very Low 8                                                          | National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally. |

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

#### SOURCE

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_Counties.zip](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](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip) (download, 635 MB)

#### Per-member block (Starter, confirm locally)

| Member           | Type   | Plan status                  | Repetitive<br>loss<br><i>FMA RL and<br/>SRL (44 CFR<br/>77.2); repeat-<br/>flood, any<br/>definition</i> | Public Assistance<br>matched<br><i>federal share obligated,<br/>nominal dollars</i> | Event records<br>naming this<br>place<br><i>all years; since the<br/>member's plan</i> | Notes                                                                                               |
|------------------|--------|------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Fort Bend County | County | Approved, expires 2029-10-29 | FMA RL 71, SRL 29; any 276                                                                               | \$78,014,110.86                                                                     | 0; 0                                                                                   | Includes \$31,332,451.86 for declarations not counted as hazard incidents (DR-4485-TX, EM-3216-TX). |
| Arcola city      | City   | Approved, expires 2029-10-29 | FMA RL 2, SRL 0; any 5                                                                                   | \$1,070,859.15                                                                      | 7; 0                                                                                   |                                                                                                     |

| Member             | Type    | Plan status                  | Repetitive loss<br><i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i> | Public Assistance matched<br><i>federal share obligated, nominal dollars</i> | Event records naming this place<br><i>all years; since the member's plan</i> | Notes                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|---------|------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Beasley city       | City    | Approved, expires 2029-10-29 | FMA RL 0, SRL 0; any 0                                                               | \$2,505.60                                                                   | 9; 0                                                                         |                                                                                                                                                                                                                                                                                                                                                                       |
| Fairchilds village | Village | Approved, expires 2029-10-29 | FMA RL 1, SRL 1; any 4                                                               | none found                                                                   | 3; 0                                                                         |                                                                                                                                                                                                                                                                                                                                                                       |
| Fulshear city      | City    | Approved, expires 2029-10-29 | FMA RL 0, SRL 2; any 4                                                               | \$500,170.28                                                                 | 18; 0                                                                        |                                                                                                                                                                                                                                                                                                                                                                       |
| Houston city       | City    | Approved, expires 2028-11-15 | FMA RL 3,923, SRL 2,948; any 11,098                                                  | none found                                                                   | 0; 0                                                                         | Whole community, including the part in Comal County, Galveston County, Harris County, Montgomery County, Smith County and Trinity County, plus 8 properties with no county in FEMA's file; in-county portion (county table): FMA RL 4, FMA SRL 6, NFIP RL 21, NFIP SRL 2, any category 25.                                                                            |
| Kendleton city     | City    | Approved, expires 2029-10-29 | FMA RL 0, SRL 0; any 1                                                               | \$272,503.55                                                                 | 7; 0                                                                         |                                                                                                                                                                                                                                                                                                                                                                       |
| Meadows Place city | City    | Approved, expires 2029-10-29 | FMA RL 0, SRL 0; any 5                                                               | \$212,344.49                                                                 | 0; 0                                                                         |                                                                                                                                                                                                                                                                                                                                                                       |
| Missouri City city | City    | Approved, expires 2031-04-15 | FMA RL 2, SRL 8; any 56                                                              | \$2,052,975.06                                                               | 11; 0                                                                        | Also approved under plan 109424 (Fort Bend County, expires 2029-10-29). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last. Whole community, including the part in Harris County; in-county portion (county table): FMA RL 2, FMA SRL 8, NFIP RL 47, NFIP SRL 8, any category 47. |
| Needville city     | City    | Approved, expires 2029-10-29 | FMA RL 1, SRL 0; any 6                                                               | none found                                                                   | 30; 0                                                                        |                                                                                                                                                                                                                                                                                                                                                                       |
| Orchard city       | City    | Approved, expires 2029-10-29 | FMA RL 1, SRL 0; any 1                                                               | none found                                                                   | 7; 0                                                                         |                                                                                                                                                                                                                                                                                                                                                                       |
| Pearland city      | City    | Approved, expires 2029-04-28 | FMA RL 160, SRL 135; any 400                                                         | none found                                                                   | 1; 0                                                                         | Whole community, including the part in Angelina County, Brazoria County and Harris County; none of its repeat-flood properties are in this county.                                                                                                                                                                                                                    |
| Pleak village      | Village | Approved, expires 2029-10-29 | FMA RL 5, SRL 1; any 15                                                              | \$5,827.87                                                                   | 4; 0                                                                         |                                                                                                                                                                                                                                                                                                                                                                       |
| Richmond city      | City    | Approved, expires 2029-10-29 | FMA RL 3, SRL 6; any 27                                                              | \$1,115,313.99                                                               | 34; 0                                                                        |                                                                                                                                                                                                                                                                                                                                                                       |
| Rosenberg city     | City    | Approved, expires 2029-10-29 | FMA RL 0, SRL 1; any 12                                                              | \$1,948,150.74                                                               | 29; 0                                                                        |                                                                                                                                                                                                                                                                                                                                                                       |
| Simonton city      | City    | Approved, expires 2029-10-29 | FMA RL 83, SRL 29; any 136                                                           | \$247,924.02                                                                 | 7; 0                                                                         |                                                                                                                                                                                                                                                                                                                                                                       |
| Stafford city      | City    | Approved, expires 2031-04-15 | FMA RL 0, SRL 0; any 12                                                              | \$1,484,252.72                                                               | 20; 0                                                                        | Whole community, including the part in Harris County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 9, NFIP SRL 0, any category 9.                                                                                                                                                                                                                   |
| Sugar Land city    | City    | Approved, expires 2029-10-29 | FMA RL 0, SRL 0; any 18                                                              | \$13,889,542.18                                                              | 0; 0                                                                         | Includes \$194,960.54 for declarations not counted as hazard incidents (DR-4485-TX, EM-3216-TX).                                                                                                                                                                                                                                                                      |

| Member            | Type | Plan status                                                              | Repetitive loss                                                   | Public Assistance matched                       | Event records naming this place           | Notes |
|-------------------|------|--------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|-------|
|                   |      |                                                                          | <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i> | <i>federal share obligated, nominal dollars</i> | <i>all years; since the member's plan</i> |       |
| Thompsons town    | Town | Plan 109424 approved 2024-10-30, pending adoption here; not yet eligible | FMA RL 0, SRL 0; any 7                                            | none found                                      | 1; no approved plan                       |       |
| Weston Lakes city | City | Approved, expires 2029-10-29                                             | FMA RL 0, SRL 0; any 0                                            | \$56,357.87                                     | 0; 0                                      |       |

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

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

SOURCES

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)  
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)  
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)  
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

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

Local data required

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

- Critical facilities and lifelines per hazard
  - A problem statement per participant per hazard
- Changes in development in hazard-prone areas since the last approval, or a statement of none (E1-a)
  - Future assets

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

| Hazard           | Building exposure<br><i>modeled dollars</i> | Agriculture exposure<br><i>modeled dollars</i> | Population exposed<br><i>people</i> | EAL buildings<br><i>modeled dollars per year</i> | EAL agriculture<br><i>modeled dollars per year</i> | EAL population equivalence<br><i>statistical value of life and injury, \$13.7M per life, not property damage</i> | EAL as % of exposure<br><i>buildings; agriculture where noted</i> | Storm Events damage since 2024-10-30<br><i>county-coded records, property plus crops, nominal dollars</i> | Zone-level damage since plan<br><i>property plus crops, reported for the zone</i> | Public Assistance since plan<br><i>nominal dollars; see note</i> | Note                                                            |
|------------------|---------------------------------------------|------------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|
| Avalanche        |                                             |                                                |                                     |                                                  |                                                    |                                                                                                                  |                                                                   |                                                                                                           |                                                                                   |                                                                  | Not Applicable in NRI for this county                           |
| Coastal Flooding | \$6,201,071                                 |                                                | 9                                   | \$212                                            |                                                    | \$11                                                                                                             | 0.00343%                                                          |                                                                                                           |                                                                                   |                                                                  |                                                                 |
| Cold Wave        | \$155,989,229,508                           | \$109,493,651                                  | 822,580                             | \$115,083                                        | \$40,371                                           | \$14,945,952                                                                                                     | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                 |
| Drought          |                                             | \$75,425,383                                   |                                     |                                                  | \$1,476,906                                        |                                                                                                                  | 1.96% (agriculture)                                               |                                                                                                           |                                                                                   |                                                                  | NRI has no building exposure for this hazard; agriculture shown |

| Hazard            | Building exposure<br><i>modeled dollars</i> | Agriculture exposure<br><i>modeled dollars</i> | Population exposed<br><i>people</i> | EAL buildings<br><i>modeled dollars per year</i> | EAL agriculture<br><i>modeled dollars per year</i> | EAL population equivalence<br><i>statistical value of life and injury, \$13.7M per life, not property damage</i> | EAL as % of exposure<br><i>buildings; agriculture where noted</i> | Storm Events damage since 2024-10-30<br><i>county-coded records, property plus crops, nominal dollars</i> | Zone-level damage since plan<br><i>property plus crops, reported for the zone</i> | Public Assistance since plan<br><i>nominal dollars; see note</i> | Note                                                                                                                                                                                                 |
|-------------------|---------------------------------------------|------------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Earthquake        | \$257,618,182,816                           |                                                | 822,779                             | \$426,702                                        |                                                    | \$190,805                                                                                                        | 0.000166%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Hail              | \$155,989,354,452                           | \$109,493,651                                  | 822,581                             | \$378,223                                        | \$25,614                                           | \$407,384                                                                                                        | 0.000242%                                                         | \$0                                                                                                       |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Heat Wave         | \$155,989,229,508                           | \$109,493,651                                  | 822,580                             | \$1,509                                          | \$427                                              | \$17,078,792                                                                                                     | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Hurricane         | \$155,978,241,755                           | \$107,908,853                                  | 822,483                             | \$65,068,681                                     | \$719,793                                          | \$4,908,938                                                                                                      | 0.0417%                                                           |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Ice Storm         | \$155,951,535,093                           |                                                | 822,268                             | \$77,351                                         |                                                    | \$1,541,132                                                                                                      | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Inland Flooding   | \$155,873,026,181                           | \$19,069,579                                   | 26,850                              | \$164,792,147                                    | \$3,334                                            | \$3,991,962                                                                                                      | n/a (see note)                                                    |                                                                                                           |                                                                                   |                                                                  | NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. EAL as % of exposure: n/a. |
| Landslide         | \$405,094,915                               |                                                | 2,078                               | \$2,100                                          |                                                    | \$5                                                                                                              | 0.000518%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Lightning         | \$155,989,354,452                           |                                                | 822,581                             | \$141,178                                        |                                                    | \$6,546,788                                                                                                      | under 0.0001%                                                     | \$25,000                                                                                                  |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Strong Wind       | \$155,989,354,452                           | \$109,493,651                                  | 822,581                             | \$541,717                                        | \$80,625                                           | \$2,713,823                                                                                                      | 0.000347%                                                         | \$3,000                                                                                                   |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Tornado           | \$155,989,354,452                           | \$109,493,651                                  | 822,581                             | \$9,128,769                                      | \$2,144                                            | \$50,246,880                                                                                                     | 0.00585%                                                          |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Tsunami           |                                             |                                                |                                     |                                                  |                                                    |                                                                                                                  |                                                                   |                                                                                                           |                                                                                   |                                                                  | Not Applicable in NRI for this county                                                                                                                                                                |
| Volcanic Activity |                                             |                                                |                                     |                                                  |                                                    |                                                                                                                  |                                                                   |                                                                                                           |                                                                                   |                                                                  | Not Applicable in NRI for this county                                                                                                                                                                |
| Wildfire          | \$11,971,136,740                            | \$27,164,515                                   | 93,642                              | \$412,210                                        | \$349                                              | \$89,489                                                                                                         | 0.00344%                                                          |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Winter Weather    | \$155,989,229,508                           | \$109,493,651                                  | 822,580                             | \$49,013                                         | \$29                                               | \$21,660                                                                                                         | under 0.0001%                                                     |                                                                                                           | \$0                                                                               |                                                                  |                                                                                                                                                                                                      |

Totals since 2024-10-30 (Storm Events through 2026-06-30): 9 county-coded records, 9 with a damage value recorded (including \$0), \$28,000; 1 zone-level records, 1 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance on counted declarations none found (0 declarations, 0 with PA).

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

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

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

#### SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_Counties.zip](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](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip) (download, 635 MB)

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

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

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

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

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

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

## Supports B2-a: context

### County context

| Measure                                                                                                                                                                       | Value             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Population                                                                                                                                                                    | 822,581           |
| Building value (total, not at risk)                                                                                                                                           | \$155,989,354,452 |
| Agriculture value (total, not at risk)                                                                                                                                        | \$109,493,651     |
| NRI risk rating (all hazards)                                                                                                                                                 | Relatively High   |
| Expected annual loss, buildings and agriculture, all hazards                                                                                                                  | \$243,484,488     |
| Expected annual loss, population equivalence, all hazards (NRI values each statistical life at \$13.7M; a modeled value of expected deaths and injuries, not property damage) | \$102,683,621     |
| Social vulnerability rating                                                                                                                                                   | Very Low          |
| Community resilience rating                                                                                                                                                   | Relatively High   |
| NRI version                                                                                                                                                                   | December 2025     |

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

**SOURCE**  
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_Counties.zip](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](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip) (download, 635 MB)

## Supports B2-c: repetitive loss

### Repetitive loss in this county, both definitions

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

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

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

### Repeat-flood properties: county and state-level rows

| Scope              | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> |
|--------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|
| County total       | 174                          | 85                            | 614                           | 69                             | 637                               | 18                             | 307                                    |
| FORT BEND COUNTY * | 71                           | 29                            | 271                           | 25                             | 276                               | 5                              | 151                                    |
| RICHMOND, CITY OF  | 3                            | 6                             | 27                            | 6                              | 27                                | 0                              | 6                                      |
| ROSENBERG, CITY OF | 0                            | 1                             | 12                            | 1                              | 12                                | 0                              | 1                                      |

| Scope                                                                   | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> |
|-------------------------------------------------------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|
| STAFFORD, CITY OF                                                       | 0                            | 0                             | 9                             | 0                              | 9                                 | 0                              | 3                                      |
| SUGAR LAND, CITY OF                                                     | 0                            | 0                             | 18                            | 0                              | 18                                | 0                              | 5                                      |
| HOUSTON, CITY OF                                                        | 4                            | 6                             | 21                            | 2                              | 25                                | 1                              | 8                                      |
| KATY, CITY OF (plan member listed on the Harris County page)            | 0                            | 1                             | 12                            | 1                              | 12                                | 0                              | 8                                      |
| MISSOURI CITY, CITY OF                                                  | 2                            | 8                             | 47                            | 8                              | 47                                | 0                              | 12                                     |
| NEEDVILLE, CITY OF                                                      | 1                            | 0                             | 6                             | 0                              | 6                                 | 0                              | 4                                      |
| FORT BEND COUNTY M.U.D. #2 (community ID not in plan data)              | 0                            | 0                             | 1                             | 0                              | 1                                 | 0                              | 0                                      |
| FORT BEND COUNTY L.I.D. #2 (community ID not in plan data)              | 0                            | 1                             | 4                             | 1                              | 5                                 | 0                              | 1                                      |
| PECAN GROVE M.U.D. (community ID not in plan data)                      | 0                            | 0                             | 10                            | 0                              | 10                                | 0                              | 3                                      |
| FULSHEAR, CITY OF                                                       | 0                            | 2                             | 4                             | 2                              | 4                                 | 0                              | 0                                      |
| KENDLETON, CITY OF                                                      | 0                            | 0                             | 1                             | 0                              | 1                                 | 0                              | 0                                      |
| MEADOWS PLACE, CITY OF                                                  | 0                            | 0                             | 5                             | 0                              | 5                                 | 0                              | 1                                      |
| SIMONTON, CITY OF                                                       | 83                           | 29                            | 124                           | 21                             | 136                               | 12                             | 78                                     |
| KINGSBRIDGE M.U.D. (community ID not in plan data)                      | 1                            | 0                             | 4                             | 0                              | 4                                 | 0                              | 0                                      |
| CHELFORD M.U.D., CITY (community ID not in plan data)                   | 0                            | 0                             | 2                             | 0                              | 2                                 | 0                              | 0                                      |
| FIRST COLONY L.I.D. (community ID not in plan data)                     | 0                            | 0                             | 2                             | 0                              | 2                                 | 0                              | 2                                      |
| FORT BEND COUNTY M.U.D. #30 (community ID not in plan data)             | 0                            | 0                             | 1                             | 0                              | 1                                 | 0                              | 0                                      |
| WEST KEEGANS BAYOU IMPROVEMENT DISTRICT (community ID not in plan data) | 0                            | 0                             | 2                             | 0                              | 2                                 | 0                              | 1                                      |
| PLEAK, VILLAGE OF                                                       | 5                            | 1                             | 14                            | 1                              | 15                                | 0                              | 13                                     |
| ARCOLA CITY OF                                                          | 2                            | 0                             | 5                             | 0                              | 5                                 | 0                              | 4                                      |
| THOMPSONS, TOWN OF                                                      | 0                            | 0                             | 7                             | 0                              | 7                                 | 0                              | 5                                      |
| ORCHARD, CITY OF                                                        | 1                            | 0                             | 1                             | 0                              | 1                                 | 0                              | 0                                      |
| FAIRCHILDS, VILLAGE OF                                                  | 1                            | 1                             | 4                             | 1                              | 4                                 | 0                              | 1                                      |
| State level, not in this county: county not reported                    | 3                            | 8                             | 12                            | 7                              | 13                                | 1                              | 9                                      |

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

#### SOURCES

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

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

#### Repeat-flood properties by plan member (NFIP community)

| Member              | NFIP<br>community<br>ID | RL,<br>FMA<br><i>properties</i> | SRL,<br>FMA<br><i>properties</i> | RL,<br>NFIP<br><i>properties</i> | SRL,<br>NFIP<br><i>properties</i> | Any<br>category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently<br>insured<br><i>properties</i> | Note |
|---------------------|-------------------------|---------------------------------|----------------------------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------|-------------------------------------------|------|
| Fort Bend<br>County | 480228                  | 71                              | 29                               | 271                              | 25                                | 276                                  | 5                              | 151                                       |      |
| Arcola city         | 481619                  | 2                               | 0                                | 5                                | 0                                 | 5                                    | 0                              | 4                                         |      |
| Beasley city        | 481654                  | 0                               | 0                                | 0                                | 0                                 | 0                                    | 0                              | 0                                         |      |

| Member             | NFIP<br>community<br>ID | RL,<br>FMA<br><i>properties</i> | SRL,<br>FMA<br><i>properties</i> | RL,<br>NFIP<br><i>properties</i> | SRL,<br>NFIP<br><i>properties</i> | Any<br>category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently<br>insured<br><i>properties</i> | Note                                                                                                                                                                                                                                                                                       |
|--------------------|-------------------------|---------------------------------|----------------------------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fairchilds village | 481675                  | 1                               | 1                                | 4                                | 1                                 | 4                                    | 0                              | 1                                         |                                                                                                                                                                                                                                                                                            |
| Fulshear city      | 481488                  | 0                               | 2                                | 4                                | 2                                 | 4                                    | 0                              | 0                                         |                                                                                                                                                                                                                                                                                            |
| Houston city       | 480296                  | 3,923                           | 2,948                            | 9,489                            | 2,199                             | 11,098                               | 499                            | 5,362                                     | Whole community, including the part in Comal County, Galveston County, Harris County, Montgomery County, Smith County and Trinity County, plus 8 properties with no county in FEMA's file; in-county portion (county table): FMA RL 4, FMA SRL 6, NFIP RL 21, NFIP SRL 2, any category 25. |
| Kendleton city     | 481551                  | 0                               | 0                                | 1                                | 0                                 | 1                                    | 0                              | 0                                         |                                                                                                                                                                                                                                                                                            |
| Meadows Place city | 481563                  | 0                               | 0                                | 5                                | 0                                 | 5                                    | 0                              | 1                                         |                                                                                                                                                                                                                                                                                            |
| Missouri City city | 480304                  | 2                               | 8                                | 56                               | 8                                 | 56                                   | 0                              | 16                                        | Whole community, including the part in Harris County; in-county portion (county table): FMA RL 2, FMA SRL 8, NFIP RL 47, NFIP SRL 8, any category 47.                                                                                                                                      |
| Needville city     | 480820                  | 1                               | 0                                | 6                                | 0                                 | 6                                    | 0                              | 4                                         |                                                                                                                                                                                                                                                                                            |
| Orchard city       | 481655                  | 1                               | 0                                | 1                                | 0                                 | 1                                    | 0                              | 0                                         |                                                                                                                                                                                                                                                                                            |
| Pearland city      | 480077                  | 160                             | 135                              | 296                              | 88                                | 400                                  | 37                             | 210                                       | Whole community, including the part in Angelina County, Brazoria County and Harris County; none of its repeat-flood properties are in this county.                                                                                                                                         |
| Pleak village      | 481615                  | 5                               | 1                                | 14                               | 1                                 | 15                                   | 0                              | 13                                        |                                                                                                                                                                                                                                                                                            |
| Richmond city      | 480231                  | 3                               | 6                                | 27                               | 6                                 | 27                                   | 0                              | 6                                         |                                                                                                                                                                                                                                                                                            |
| Rosenberg city     | 480232                  | 0                               | 1                                | 12                               | 1                                 | 12                                   | 0                              | 1                                         |                                                                                                                                                                                                                                                                                            |
| Simonton city      | 481564                  | 83                              | 29                               | 124                              | 21                                | 136                                  | 12                             | 78                                        |                                                                                                                                                                                                                                                                                            |
| Stafford city      | 480233                  | 0                               | 0                                | 12                               | 0                                 | 12                                   | 0                              | 3                                         | Whole community, including the part in Harris County; in-county portion (county table): FMA RL 0, FMA SRL 0, NFIP RL 9, NFIP SRL 0, any category 9.                                                                                                                                        |
| Sugar Land city    | 480234                  | 0                               | 0                                | 18                               | 0                                 | 18                                   | 0                              | 5                                         |                                                                                                                                                                                                                                                                                            |
| Thompsons town     | 481642                  | 0                               | 0                                | 7                                | 0                                 | 7                                    | 0                              | 5                                         |                                                                                                                                                                                                                                                                                            |
| Weston Lakes city  | 481197                  | 0                               | 0                                | 0                                | 0                                 | 0                                    | 0                              | 0                                         |                                                                                                                                                                                                                                                                                            |

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

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

**SOURCES**

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

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

County repeat-flood properties by occupancy group

| Occupancy group           | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> |
|---------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|
| single-family residential | 169                          | 75                            | 560                           | 60                             | 582                               | 17                             | 285                                    |
| 2 to 4 unit residential   | 1                            | 0                             | 4                             | 0                              | 4                                 | 0                              | 2                                      |
| other residential         | 1                            | 7                             | 22                            | 7                              | 22                                | 0                              | 5                                      |
| non-residential           | 3                            | 3                             | 28                            | 2                              | 29                                | 1                              | 15                                     |
| not reported              | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |

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

SOURCES

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

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

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

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

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

In this county 15 properties are FMA repetitive loss but not NFIP repetitive loss, and 455 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_Counties.zip](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](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip) (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-28, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_counties\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_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_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_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_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_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/codes2020/national_place_by_county2020.txt), [https://www2.census.gov/geo/docs/reference/ct\\_change/ct\\_cou\\_to\\_cousub\\_crosswalk.xlsx](https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx)

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Cite this: Hazard Plain (2026). Fort Bend County, TX: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 48157). Preview: automated baseline. 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: to be added

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain\_2026-10\_TX\_48157. Preview: automated baseline.