

Sutton County, TX

Risk-assessment baseline packet

County FIPS: 48435 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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

Summary

Plan status as of 2026-09-30: Approved, expires 2031-02-12. Plan: Sutton County (FEMA plan 110367), approved 2026-02-13.

Since the plan was approved on 2026-02-13: 2 new hazard declarations (1 incident): EM-3649-TX (Flooding), DR-4935-TX (Severe Storms, Straight-Line Winds, Tornadoes, and Flooding).

NOAA Storm Events records since that date: 3 records (data through 2026-06-30).

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$1,534,362 a year), Wildfire (\$481,369) and Lightning (\$99,580).

Repetitive-loss flood properties now: FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0.

The tables that follow are organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B (B1-a to B2-c); each heading says which item its tables support.

TERMS USED

EAL: expected annual loss: FEMA's modeled average yearly loss from a hazard.

NRI: FEMA's National Risk Index (version 1.20, December 2025).

NFIP: National Flood Insurance Program.

RL, SRL: repetitive loss and severe repetitive loss: flood-insured properties with repeated claims (definitions in B2-c).

FMA, HMGP: Flood Mitigation Assistance and Hazard Mitigation Grant Program, FEMA mitigation grants.

PA: FEMA Public Assistance: disaster aid to governments and some nonprofits.

Zone-level: NOAA logged the event for a National Weather Service forecast zone, which may include parts of neighboring counties.

County-coded: NOAA logged the event to this county.

FIPS: the federal code for a place; 48435 is this area.

D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).

F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.

kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.

CFR: Code of Federal Regulations.

A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).

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

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Plan clock

Status:Approved, expires 2031-02-12

Approved:2026-02-13

Plan:Sutton County (FEMA plan 110367)

Days to expiry:1,596

What changed since your last plan (approved 2026-02-13)

New federal declarations:

2 new hazard declarations (1 incident): EM-3649-TX (Flooding), DR-4935-TX (Severe Storms, Straight-Line Winds, Tornadoes, and Flooding)

Repetitive loss now:

FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0

Storm Events records since approval:

3 records (data through 2026-06-30)

Repeat-flood change:

this release sets the baseline count.

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

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry
Sutton County	County	Approved, expires 2031-02-12	Sutton County (FEMA plan 110367)	2026-02-13	2031-02-12	1,596
Sonora city	City	Approved, expires 2031-02-12	Sutton County (FEMA plan 110367)	2026-02-13	2031-02-12	1,596
Sonora Independent School District	School/School District	Approved, expires 2031-02-12	Sutton County (FEMA plan 110367)	2026-02-13	2031-02-12	1,596
Sutton County Hospital District	Hospital/Medical Facility	Approved, expires 2031-02-12	Sutton County (FEMA plan 110367)	2026-02-13	2031-02-12	1,596

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

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Inland Flooding	Very Low	Very Low	\$1,439,109	\$48,097	\$47,156	\$1,534,362	44	
2	Wildfire	Relatively Low	Relatively Low	\$465,002	\$651	\$15,716	\$481,369	10	
3	Lightning	Relatively Low	Relatively Low	\$2,270	n/a	\$97,310	\$99,580	1	
4	Hail	Very Low	Very Low	\$69,883	\$8,177	\$7,831	\$85,891	56	
5	Tornado	Very Low	Very Low	\$42,051	\$433	\$40,341	\$82,825	4	
6	Drought	Relatively Low	Relatively Low	n/a	\$82,666	n/a	\$82,666	78	
7	Cold Wave	Very Low	Very Low	\$601	\$6,551	\$53,031	\$60,183	6	Includes 3 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
8	Strong Wind	Very Low	Very Low	\$32,254	\$743	\$7,727	\$40,724	12	Includes 2 High Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
9	Heat Wave	Very Low	Very Low	\$4	\$16	\$29,149	\$29,169	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
10	Winter Weather	Very Low	Relatively Low	\$3,401	\$162	\$10,050	\$13,613	20	Includes 1 Sleet record (outside NRI's Winter Weather definition).
11	Hurricane	Very Low	Very Low	\$6,965	\$1,835	\$87	\$8,887	1	Includes 1 Tropical Depression record (outside NRI's Hurricane definition).
12	Earthquake	Very Low	Very Low	\$1,985	n/a	\$499	\$2,484		Storm Events does not record earthquakes.

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
13	Ice Storm	Very Low	Very Low	\$45	n/a	\$282	\$327	3	
14	Landslide	Very Low	Very Low	\$39	n/a	\$42	\$81	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

NRI risk rating combines expected annual loss with social vulnerability and community resilience; EAL rating rates expected annual loss alone. Both compare this county with all U.S. counties.

Local data needed: state and local landslide records (Storm Events records this hazard only in part).

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

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

Supports FEMA checklist item B1-b: hazard location

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

Inland Flooding: The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (<https://msc.fema.gov>) for this county.

NRI rating of the county's single census tract

Source: 5

Hazard	Census tract <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 9503 (Very Low, 14.8)
Hurricane	tract 9503 (Relatively Low, 54.1)
Landslide	tract 9503 (Relatively Low, 82.3)
Tornado	tract 9503 (Relatively Moderate, 63.1)
Wildfire	tract 9503 (Relatively High, 98.5)

A tract number is the Census tract number (for example 9503 is Census Tract 9503). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	3 records, 2007 to 2021 (3 zone-level)	1 day to 3 days (median 2 days); 3 with a recorded value	3 consecutive days, 2007-04-06 to 2007-04-08, zone-level		Countywide (zone-level records).	Wind chill: in event narratives only (local data needed).
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	3 records, 2009 to 2014 (3 zone-level)		No crop damage reported in 3 records.		Countywide (zone-level records).	Temperature: in event narratives only (local data needed).
Drought	U.S. Drought Monitor scale (D0 to D4)	78 records, 1998 to 2025 (78 zone-level)	28 days to 427 days (median 106 days); 20 with a recorded value	427 days (14 months), 2012-07-01 to 2013-08-31, a run of 14 consecutive Storm Events drought records, zone-level	Drought, 1998-08-01, property not reported; \$300,000 crops, reported for the zone (1998 dollars)	Countywide (zone-level records).	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	68 records, 1968 to 2026	0.75 in to 2.75 in (median 1.25 in); 68 with a recorded value	2.75 in hail, 2019-05-08; same size also recorded on 2014-05-07, 2016-05-17	Hail, 1997-06-16, \$100,000 property; \$80,000 crops (1997 dollars)	Event records naming jurisdictions in the plan: Sonora city (56 records).	
Excessive Heat, Heat	heat index (in event narratives)	0					Heat index: in event narratives only (local data needed).
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	1 record, 2007 (1 zone-level)		Strongest recorded: Tropical Depression record, 2007-08-16 to 2007-08-18, \$0 property; \$0 crops (2007 dollars); NWS zone TXZ078		Countywide (zone-level records).	Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	3 records, 1996 to 2013 (3 zone-level)		Ice Storm, 2007-01-14, \$1,000 property; \$0 crops (2007 dollars); NWS zone TXZ078		Countywide (zone-level records).	Ice thickness: in event narratives only (local data needed).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	44 records, 1996 to 2025		Flash Flood, 2018-09-21, \$8,000,000 property; \$0 crops (2018 dollars)		Event records naming jurisdictions in the plan: Sonora city (30 records).	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	0					Physical measure: in event narratives only (local data needed).
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1 record, 1999		Lightning, 1999-08-28, \$20,000 property; crops not reported (1999 dollars)		Event records naming jurisdictions in the plan: Sonora city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	2 records, 2000 to 2007 (2 zone-level)	35 kt (40 mph) to 55 kt (63 mph) (median 45 kt (52 mph)); 2 with a recorded value	55 kt (63 mph) estimated, High Wind, 2000-03-21; NWS zone TXZ078		Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	18 records, 1957 to 2026	50 kt (58 mph) to 80 kt (92 mph) (median 58 kt (67 mph)); 14 with a recorded value	80 kt (92 mph), measurement type not recorded, Thunderstorm Wind, 1978-06-02	Thunderstorm Wind, 2009-04-26, \$50,000 property; \$0 crops (2009 dollars)	Event records naming jurisdictions in the plan: Sonora city (10 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	5 records, 1991 to 2007	F/EF0 to F/EF1 (median F/EF0); 5 with a recorded value	F1 tornado, 1991-05-02, 0.8 mi path length (whole path, pre-1996), 77 yd wide, \$250 property; crops not recorded (1991 dollars)	Tornado, 2000-10-28, \$5,000 property; crops not reported (2000 dollars)	Event records naming jurisdictions in the plan: Sonora city (3 records).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Wildfire	acres burned (local data)	10 records, 2006 to 2017 (10 zone-level)		No damage reported in 10 records.		Countywide (zone-level records).	Acres burned: in event narratives only (local data needed).
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	20 records, 1996 to 2022 (20 zone-level)		Winter Storm, 2007-01-16, \$12,000 property; \$0 crops (2007 dollars); NWS zone TXZ078		Countywide (zone-level records).	Snow depth: in event narratives only (local data needed).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records whose zone no NWS zone-county file places in this county (mostly before 2020) are not counted here (the Methods page explains the zone matching).

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 18 declarations covering 10 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2026-09-01	2026-07-12	DR-4935-TX	Major disaster	Severe Storms, Straight-Line Winds, Tornadoes, and Flooding	Inland Flooding	not yet in FEMA's PA summaries (they cover declarations through 2026-06-30)	new since last plan; within last 5 years	
2026-07-18	2026-07-12	EM-3649-TX	Emergency	Flooding	Inland Flooding (primary); also designated: Strong Wind, Tornado	not yet in FEMA's PA summaries (they cover declarations through 2026-06-30)	new since last plan; within last 5 years	same incident as DR-4935
2025-07-06	2025-07-02	DR-4879-TX	Major disaster	Severe Storms, Straight-Line Winds, and Flooding	Inland Flooding (primary); also designated: Strong Wind	\$907,226.52	in the 12 months before plan approval; within last 5 years	
2021-02-19	2021-02-11	DR-4586-TX	Major disaster	Severe Winter Storms	Ice Storm	\$20,360.03		
2021-02-14	2021-02-11	EM-3554-TX	Emergency	Severe Winter Storm	Ice Storm	no Public Assistance recorded		same incident as DR-4586
2020-03-25	2020-01-20	DR-4485-TX	Major disaster	COVID-19 Pandemic	Non-natural, not counted	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2020-03-13	2020-01-20	EM-3458-TX	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4485
2019-02-25	2018-09-10	DR-4416-TX	Major disaster	Severe Storms and Flooding	Inland Flooding	\$362,973.70		
2011-09-09	2011-08-30	DR-4029-TX	Major disaster	Wildfires	Wildfire	no Public Assistance recorded		
2011-07-01	2011-04-06	DR-1999-TX	Major disaster	Wildfires	Wildfire	\$30,268.75		
2008-03-14	2008-03-14	EM-3284-TX	Emergency	Wildfires	Wildfire	no Public Assistance recorded		
2006-01-11	2005-11-27	DR-1624-TX	Major disaster	Extreme Wildfire Threat	Wildfire	no Public Assistance recorded		
2005-09-24	2005-09-23	DR-1606-TX	Major disaster	Hurricane Rita	Hurricane: evacuation support (county designated for sheltering evacuees, no Individual Assistance), not a local hazard event; not counted	no Public Assistance recorded		
2005-09-21	2005-09-20	EM-3261-TX	Emergency	Hurricane Rita	Hurricane: evacuation support (county designated for sheltering evacuees, no Individual Assistance), not a local hazard event; not counted	no Public Assistance recorded		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	no Public Assistance recorded		
1999-09-01	1999-08-01	EM-3142-TX	Emergency	Extreme Fire Hazards	Wildfire	no Public Assistance recorded		
1998-08-26	1998-08-22	DR-1239-TX	Major disaster	Tropical Storm Charley	Hurricane; Inland Flooding: designated for Hazard Mitigation only (no Public or Individual Assistance for this county); not counted	PA not declared for this county		
1993-09-10	1993-08-30	EM-3113-TX	Emergency	Extreme Fire Hazard	Drought (primary); also designated: Wildfire	no Public Assistance recorded		

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

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
1998-06-23	1998-06-04	EM-3127-TX	Emergency	Fire	Wildfire
1963-09-24	1963-09-24	DR-159-TX	Major disaster	Hurricane Cindy	Hurricane (primary); also designated: Inland Flooding
1961-09-16	1961-09-16	DR-118-TX	Major disaster	Hurricane Carla	Hurricane (primary); also designated: Inland Flooding
1960-07-15	1960-07-15	DR-103-TX	Major disaster	Heavy Rains, Hail, Floods & Tornadoes	Hail; Inland Flooding; Tornado
1959-07-08	1959-07-08	DR-93-TX	Major disaster	Floods	Inland Flooding
1958-06-06	1958-06-06	DR-85-TX	Major disaster	Tornadoes, Rain, Hail & Floods	Tornado (primary); also designated: Hail, Inland Flooding
1957-04-29	1957-04-29	DR-72-TX	Major disaster	Hurricane, Rain, Wind, Hail & Floods	Hurricane (primary); also designated: Hail, Inland Flooding
1954-07-01	1954-07-01	DR-18-TX	Major disaster	Flood	Inland Flooding
1953-06-19	1953-06-19	DR-9-TX	Major disaster	Flood	Inland Flooding
1953-05-15	1953-05-15	DR-2-TX	Major disaster	Tornado & Heavy Rainfall	Tornado

FEMA recorded these with designated area Statewide and no county, so they are listed on every county page in the state and not counted with county rows. Local data needed: whether each one affected this county.

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

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

Source: 3

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval records	In the 12 months before plan approval records	Last 5 years records	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Cold Wave	6	0	0	0	0	0	1996 to 2026-06-30	Includes 3 Frost/Freeze records.
Drought	78	0	4	18	1	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	68	2	1	4	0	0	1955 to 2026-06-30	
Heat Wave	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Hurricane	1	0	0	0	0	0	1996 to 2026-06-30	Includes 1 Tropical Depression record.
Ice Storm	3	0	0	0	1	0	1996 to 2026-06-30	

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Inland Flooding	44	0	6	7	3	1	1996 to 2026-06-30	
Landslide	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	1	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	20	1	2	5	2	1	1955 to 2026-06-30	Includes 2 High Wind records.
Tornado	5	0	0	0	1	1	1950 to 2026-06-30	
Wildfire	10	0	0	0	6	0	1996 to 2026-06-30	
Winter Weather	20	0	0	1	0	0	1996 to 2026-06-30	Includes 1 Sleet record.

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Why listed
2019-05-08	Hail	2.75 in	\$0 property; \$0 crops (2019 dollars)	0, 0	SONORA	B1-c worst recorded: Hail
2018-09-21	Flash Flood		\$8,000,000 property; \$0 crops (2018 dollars)	0, 0	SONORA	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2018-02-22	Winter Weather		\$0 property; \$0 crops, reported for the zone (2018 dollars)	0, 2	NWS zone TXZ078 (SUTTON), zone-level	deaths or injuries recorded
2012-07-01	Drought		\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone TXZ078 (SUTTON), zone-level	B1-c worst recorded: Drought
2007-08-16	Tropical Depression		\$0 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone TXZ078 (SUTTON), zone-level	B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2007-04-06	Cold/Wind Chill		\$0 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone TXZ078 (SUTTON), zone-level	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2007-01-16	Winter Storm		\$12,000 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone TXZ078 (SUTTON), zone-level	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2007-01-14	Ice Storm		\$1,000 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone TXZ078 (SUTTON), zone-level	B1-c worst recorded: Ice Storm
2000-03-21	High Wind	55 kt (63 mph) estimated	\$6,000 property; crops not reported, reported for the zone (2000 dollars)	0, 0	NWS zone TXZ078 (SUTTON), zone-level	B1-c worst recorded: High Wind and Strong Wind
1999-08-28	Lightning		\$20,000 property; crops not reported (1999 dollars)	0, 0	SONORA	B1-c worst recorded: Lightning
1991-05-02	Tornado	F1, 0.8 mi path length (whole path, pre-1996), 77 yd wide	\$250 property; crops not recorded (1991 dollars)	0, 0	location not recorded	B1-c worst recorded: Tornado
1978-06-02	Thunderstorm Wind	80 kt (92 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded	B1-c worst recorded: Thunderstorm Wind

The full list is in the Excel file, sheet "B1-d Storm Events history" (256 rows).

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

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

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

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

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Cold Wave	0.632	event-days per year	about 0.632 days per year	Likely (from Storm Events: 3 of 30 years)	event-days in 3 of 30 years, 1996 to 2025 (10%)	12	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	88.1	event-days per year	about 88.1 days per year	Likely (from Storm Events: 17 of 30 years)	event-days in 17 of 30 years, 1996 to 2025 (56.7%)	2,226	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000188	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0188%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	1.85	events per year	about 1.85 per year	Highly likely	FEMA annualized frequency (modeled)	70.1 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	4.32	event-days per year	about 4.32 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	73	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events heat wave record, 1996 to 2025
Hurricane	0.0117	events per year	about 1 in 85 years	Possible	FEMA annualized frequency (modeled)	4	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	0.0382	event-days per year	about 0.0382 days per year	Likely (from Storm Events: 3 of 30 years)	event-days in 3 of 30 years, 1996 to 2025 (10%)	3	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.07	event-days per year	about 1.07 days per year	Likely (from Storm Events: 17 of 30 years)	event-days in 17 of 30 years, 1996 to 2025 (56.7%)	30	1996 to 2023 (28 years)	see B1-f	
Landslide	0.24	events per year (modeled)	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	44.6	days per year with a strike	about 44.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.569	events per year	about 0.57 per year	Likely	FEMA annualized frequency (modeled)	22	1986 to 2023 (38 years)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Tornado	0.226	events per year	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.00845	annual probability at a location	chance a given location in the county burns in a year: 0.845%	Likely (from Storm Events: 4 of 30 years)	Storm Events records in 4 of 30 years, 1996 to 2025 (13.3%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	3.16	event-days per year	about 3.16 days per year	Likely (from Storm Events: 10 of 30 years)	event-days in 10 of 30 years, 1996 to 2025 (33.3%)	60	2005-11-12 to 2024-11-12 (19 years)	countywide	

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

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

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	32	30	1.07
Hail	2.00 in+	1996 to 2025	5	30	0.167
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	6	30	0.2
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	3	30	0.1
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	4	30	0.133
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

NRI risk score of the county's single census tract

Source: 5

Hazard	Tract score <i>NRI score, 0 to 100</i>	Rating
Cold Wave	64.6	Relatively Moderate
Drought	96.3	Relatively Moderate
Earthquake	14.8	Very Low
Hail	93.1	Relatively High
Heat Wave	54.2	Relatively Low
Hurricane	54.1	Relatively Low
Ice Storm	5.4	Very Low
Inland Flooding	96.0	Very High
Landslide	82.3	Relatively Low
Lightning	99.3	Very High
Strong Wind	82.9	Relatively High
Tornado	63.1	Relatively Moderate

Hazard	Tract score	Rating
	<i>NRI score, 0 to 100</i>	
Wildfire	98.5	Relatively High
Winter Weather	92.8	Relatively High

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

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>
Sutton County	County	Approved, expires 2031-02-12	FMA RL 0, SRL 0; any 0	\$216,823.46	0 total; 0 since its plan
Sonora city	City	Approved, expires 2031-02-12	FMA RL 0, SRL 0; any 0	\$1,104,005.54	100 total; 3 since its plan

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

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2026-02-13 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Cold Wave	\$1,359,011,072	\$13,326,100	3,362	\$601	\$6,551	\$53,031	under 0.0001%				
Drought	n/a	\$82,666	n/a	n/a	\$82,666	n/a	100% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$2,472,082,009	n/a	3,372	\$1,985	n/a	\$499	under 0.0001%				
Hail	\$1,359,011,072	\$13,326,100	3,362	\$69,883	\$8,177	\$7,831	0.00514%	\$0			
Heat Wave	\$1,359,011,072	\$13,326,100	3,362	\$4	\$16	\$29,149	under 0.0001%				
Hurricane	\$1,359,011,072	\$13,326,100	3,362	\$6,965	\$1,835	\$87	0.000513%				
Ice Storm	\$1,359,011,072	n/a	3,362	\$45	n/a	\$282	under 0.0001%				
Inland Flooding	\$1,357,812,248	\$2,787,579	661	\$1,439,109	\$48,097	\$47,156	n/a (see note)			no Public Assistance recorded (2 declarations)	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.

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2026-02-13 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Landslide	\$17,162,348	n/a	43	\$39	n/a	\$42	0.000228%				
Lightning	\$1,359,011,072	n/a	3,362	\$2,270	n/a	\$97,310	0.000167%				
Strong Wind	\$1,359,011,072	\$13,326,100	3,362	\$32,254	\$743	\$7,727	0.00237%	\$0		no Public Assistance recorded (1 declaration)	
Tornado	\$1,359,011,072	\$13,326,100	3,362	\$42,051	\$433	\$40,341	0.00309%			no Public Assistance recorded (1 declaration)	
Wildfire	\$534,543,055	\$12,440,741	1,355	\$465,002	\$651	\$15,716	0.087%				
Winter Weather	\$1,359,011,072	\$13,326,100	3,362	\$3,401	\$162	\$10,050	0.00025%				

Totals since 2026-02-13 (Storm Events through 2026-06-30): 3 county-coded records, 3 with a damage value recorded (including \$0), \$0; 0 zone-level records, 0 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: none recorded on the 2 counted declarations.

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

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

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

County context

Source: 5

Measure	Value
Population	3,362
Building value (total, not at risk)	\$1,359,011,072
Agriculture value (total, not at risk)	\$13,326,100
NRI risk rating (all hazards)	Very Low
Expected annual loss, buildings and agriculture, all hazards	\$2,212,940
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)	\$309,221
Social vulnerability rating	Very High
Community resilience rating	Very Low
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	0	Severe repetitive loss, NFIP insurance definition	0

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	0	0	0	0	0	0	0
Statewide, no county in FEMA's file	3	8	12	7	13	1	9

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

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

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Sutton County	481247	0	0	0	0	0	0	0
Sonora city	480580	0	0	0	0	0	0	0

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

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

County repeat-flood properties by occupancy group: 0 in every occupancy group.

Sources: 1, 4

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

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

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 0 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

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 3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
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 7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
 8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scscd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scscd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)
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What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment, organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B. Each section heading names the item its tables support; the plan and FEMA's review decide whether the item is met.

The plan adds what only the community has: local data on assets, critical facilities, development and each jurisdiction's impacts; local hazard history, including state-declared emergencies; the mitigation strategy; and adoption.

How the federal data are built: National Risk Index values are FEMA's model, not counts of events. Storm Events is more complete from 1996; zone-level records are placed by forecast zone, not by location in the county. Public Assistance for a jurisdiction is matched by applicant name. The Methods page gives every rule and the known edge cases.

OpenFEMA disclaimer

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Cite this: Hazard Plain (2026). Sutton County, TX: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 48435). Automated baseline. <https://hazardplain.org/tx/48435/> Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

Corrections: to report an error, name the packet, the table and what your records show. Contact: contact@hazardplain.org

Hazard Plain release 2026-10. As of 2026-09-30; Storm Events data through 2026-06-30. Automated baseline.