

Ector County, TX

Risk-assessment baseline packet

County FIPS: 48135 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 2031-01-22. Plan: Ector County (FEMA plan 111132), approved 2026-01-23.
Since the plan was approved on 2026-01-23: no new federal declaration.
NOAA Storm Events records since that date: 7 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$19,996,561 a year), Hail (\$13,004,505) and Tornado (\$4,165,383).
Repetitive-loss flood properties now: FMA RL 1, SRL 1 (44 CFR 77.2); any definition: 17.
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; 48135 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 2031-01-22

Approved:2026-01-23

Plan:Ector County (FEMA plan 111132)

Days to expiry:1,575

What changed since your last plan (approved 2026-01-23)

New federal declarations:none

Repetitive loss now:FMA RL 1, SRL 1 (44 CFR 77.2); any definition: 17

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

Storm Events records since approval:7 records (data through 2026-06-30)

Repeat-flood change:this release sets the baseline count.

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry
Ector County	County	Approved, expires 2031-01-22	Ector County (FEMA plan 111132)	2026-01-23	2031-01-22	1,575
Odessa city	City	Approved, expires 2031-01-22	Ector County (FEMA plan 111132)	2026-01-23	2031-01-22	1,575

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	Relatively Moderate	Relatively Moderate	\$19,293,954	\$32,323	\$670,284	\$19,996,561	166	
2	Hail	Relatively High	Relatively High	\$12,505,103	\$8,978	\$490,424	\$13,004,505	289	
3	Tornado	Relatively Moderate	Relatively Moderate	\$2,514,191	\$208	\$1,650,984	\$4,165,383	12	
4	Heat Wave	Relatively Moderate	Relatively Moderate	\$485	\$78	\$2,083,145	\$2,083,708	1	
5	Cold Wave	Relatively Moderate	Relatively Moderate	\$13,117	\$1,962	\$1,866,889	\$1,881,969	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
6	Strong Wind	Relatively High	Relatively High	\$390,764	\$532	\$1,276,498	\$1,667,794	176	Includes 26 High Wind and 3 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
7	Wildfire	Relatively Low	Relatively Moderate	\$865,060	\$53	\$138,404	\$1,003,517	2	
8	Winter Weather	Very High	Very High	\$236,977	\$6	\$744,267	\$981,250	14	
9	Lightning	Relatively High	Relatively High	\$39,188	n/a	\$875,020	\$914,208	3	
10	Ice Storm	Relatively Moderate	Relatively Moderate	\$187,999	n/a	\$102,749	\$290,748	5	
11	Drought	Relatively Low	Relatively Low	n/a	\$251,341	n/a	\$251,341	16	
12	Earthquake	Very Low	Very Low	\$118,373	n/a	\$33,781	\$152,155		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	Hurricane	Very Low	Very Low	\$21,390	\$128	\$305	\$21,824	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Landslide	Very Low	Very Low	\$2	n/a	under \$1	\$2	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.

Hazards that vary within the county: highest-rated census tracts

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 13 (Very Low, 36.6); tract 31 (Very Low, 31.9); tract 8 (Very Low, 28.4)
Hurricane	tract 22 (Very Low, 36.3); tract 31 (Very Low, 35.6); tract 1 (Very Low, 35.5)
Landslide	tract 22 (Very Low, 46.0); tract 30.03 (Very Low, 33.7); tract 8 (Very Low, 18.3)
Tornado	tract 27.01 (Relatively High, 75.7); tract 22 (Relatively High, 75.0); tract 1 (Relatively Moderate, 74.1)
Wildfire	tract 22 (Relatively High, 96.5); tract 30.03 (Relatively Moderate, 94.8); tract 30.04 (Relatively Moderate, 94.7)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 13 is Census Tract 13). 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	0					Wind chill: in event narratives only (local data needed).
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					Temperature: in event narratives only (local data needed).
Drought	U.S. Drought Monitor scale (D0 to D4)	16 records, 1996 to 2006 (16 zone-level)	22 days to 394 days (median 31 days); 4 with a recorded value	394 days (about 12.9 months), 1998-04-01 to 1999-04-29, a run of 13 consecutive Storm Events drought records, zone-level	Drought, 1996-08-01, property not reported; \$240,000 crops, reported for the zone (1996 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)	395 records, 1958 to 2026	0.75 in to 5 in (median 1.25 in); 395 with a recorded value	5 in hail, 2017-06-14; same size also recorded on 2017-06-14	Hail, 2017-06-14, \$100,000,000 property; crops not reported (2017 dollars)	Event records naming jurisdictions in the plan: Odessa city (147 records).	
Excessive Heat, Heat	heat index (in event narratives)	1 record, 2019 (1 zone-level)	1 day; 1 with a recorded value	1 consecutive day, 2019-08-26, zone-level		Countywide (zone-level records).	Heat index: in event narratives only (local data needed).
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					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)	5 records, 2007 to 2015 (5 zone-level)		No damage reported in 5 records.		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)	166 records, 1996 to 2026 (1 zone-level)		Flash Flood, 2004-09-27, \$2,000,000 property; \$0 crops (2004 dollars)		Event records naming jurisdictions in the plan: Odessa city (100 records). Zone-level records (1) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	0					Physical measure: in event narratives only (local data needed).
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	3 records, 2003 to 2005		Lightning, 2005-05-15, \$75,000 property; \$0 crops (2005 dollars)		Event records naming jurisdictions in the plan: Odessa city (3 records).	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)	29 records, 1997 to 2025 (29 zone-level)	35 kt (40 mph) to 61 kt (70 mph) (median 52 kt (60 mph)); 27 with a recorded value	61 kt (70 mph) estimated gust, High Wind, 2018-01-10; NWS zone TXZ061	High Wind, 2007-02-24, \$40,000 property; \$0 crops, reported for the zone (2007 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	196 records, 1958 to 2025	50 kt (58 mph) to 104 kt (120 mph) (median 56 kt (64 mph)); 168 with a recorded value	104 kt (120 mph) estimated gust, Thunderstorm Wind, 2025-06-03, 2 direct injuries; same speed and measurement basis also recorded on 2025-06-03	Thunderstorm Wind, 2017-06-14, \$1,000,000 property; crops not reported (2017 dollars)	Event records naming jurisdictions in the plan: Odessa city (73 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	45 records, 1957 to 2019	F/EF0 to F/EF3 (median F/EF0); 45 with a recorded value	EF3 tornado, 2019-05-20, 1.29 mi within this county, 225 yd wide, \$200,000 property; crops not reported (2019 dollars)	Tornado, 2012-03-18, \$1,000,000 property; crops not reported (2012 dollars)	Event records naming jurisdictions in the plan: Odessa city (1 record).	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)	2 records, 2011 (2 zone- level)		Wildfire, 2011-04-26, \$100,000 property; crops not reported (2011 dollars); NWS zone TXZ061		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)	14 records, 1998 to 2026 (14 zone-level)		No damage reported in 14 records.		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: 15 declarations covering 8 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>	Notes
2021-02-19	2021-02-11	DR-4586-TX	Major disaster	Severe Winter Storms	Ice Storm	\$29,091.84	
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	\$550,036.41	
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
2011-04-27	2011-04-26	FM-2901-TX	Fire management	Pleasant Farms Fire	Wildfire	no Public Assistance recorded	
2011-04-03	2011-04-03	FM-2881-TX	Fire management	Bates Field Fire	Wildfire	no Public Assistance recorded	
2008-03-14	2008-03-14	EM-3284-TX	Emergency	Wildfires	Wildfire	no Public Assistance recorded	
2008-02-25	2008-02-25	FM-2745-TX	Fire management	South Odessa Fire	Wildfire	no Public Assistance recorded	
2006-01-11	2005-11-27	DR-1624-TX	Major disaster	Extreme Wildfire Threat	Wildfire	no Public Assistance recorded	
2005-09-24	2005-09-23	DR-1606-TX	Major disaster	Hurricane Rita	Hurricane: evacuation support (county designated for sheltering evacuees, no Individual Assistance), not a local hazard event; 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>	Notes
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	\$155,129	
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	
1989-05-19	1989-05-04	DR-828-TX	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	PA not declared for this county	

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

Statewide declarations

Source: 2

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

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

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

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

Source: 3

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Cold Wave	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Drought	16	0	0	0	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	395	1	23	55	0	0	1955 to 2026-06-30	
Heat Wave	1	0	0	0	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	5	0	0	0	1	0	1996 to 2026-06-30	
Inland Flooding	166	6	6	28	1	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	3	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	225	0	19	45	0	0	1955 to 2026-06-30	Includes 26 High Wind and 3 Strong Wind records.
Tornado	45	0	0	0	1	0	1950 to 2026-06-30	
Wildfire	2	0	0	0	6	0	1996 to 2026-06-30	
Winter Weather	14	0	2	2	0	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2025-06-03	Thunderstorm Wind	104 kt (120 mph) estimated gust	\$40,000 property; \$0 crops (2025 dollars)	0, 2	PLEASANT FARMS	in the 12 months before plan approval; within last 5 years	deaths or injuries recorded
2019-08-26	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2019 dollars)	0, 0	NWS zone TXZ061 (ECTOR), zone-level		B1-c worst recorded: Excessive Heat, Heat
2019-05-20	Tornado	EF3, 1.29 mi within this county, 225 yd wide	\$200,000 property; crops not reported (2019 dollars)	0, 0	PLEASANT FARMS		B1-c worst recorded: Tornado
2018-01-10	High Wind	61 kt (70 mph) estimated gust	\$0 property; \$0 crops, reported for the zone (2018 dollars)	0, 0	NWS zone TXZ061 (ECTOR), zone-level		B1-c worst recorded: High Wind and Strong Wind
2017-06-14	Hail	5 in	\$100,000,000 property; crops not reported (2017 dollars)	0, 0	ODESSA ECTOR CO ARPT		B1-c most damaging: Hail
2017-06-14	Hail	5 in	\$1,000,000 property; crops not reported (2017 dollars)	0, 0	ODESSA ECTOR CO ARPT		B1-c worst recorded: Hail
2012-03-18	Tornado	EF2, 1 mi within this county, 40 yd wide	\$1,000,000 property; crops not reported (2012 dollars)	0, 3	GARDENDALE		deaths or injuries recorded
2011-04-26	Wildfire		\$100,000 property; crops not reported, reported for the zone (2011 dollars)	0, 0	NWS zone TXZ061 (ECTOR), zone-level		B1-c worst recorded: Wildfire
2005-05-15	Lightning		\$75,000 property; \$0 crops (2005 dollars)	0, 0	ODESSA		B1-c worst recorded: Lightning
2004-09-27	Flash Flood		\$2,000,000 property; \$0 crops (2004 dollars)	0, 0	WEST ODESSA		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2003-05-24	Flash Flood		\$300,000 property; \$0 crops (2003 dollars)	1, 0	ODESSA		deaths or injuries recorded
1998-04-01	Drought		damage not reported	0, 0	NWS zone TXZ061 (ECTOR), zone-level		B1-c worst recorded: Drought

The full list is in the Excel file, sheet "B1-d Storm Events history" (872 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	0.579	event-days per year	about 0.579 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	11	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events cold wave record, 1996 to 2025.
Drought	71.6	event-days per year	about 71.6 days per year	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	2,156	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000301	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0301%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	3.86	events per year	about 3.86 per year	Highly likely	FEMA annualized frequency (modeled)	146.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	6.11	event-days per year	about 6.11 days per year	Possible (from Storm Events: 1 of 30 years)	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	107	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.00575	events per year	about 1 in 174 years	Unlikely	FEMA annualized frequency (modeled)	2	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	0.422	event-days per year	about 0.422 days per year	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	29	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	3.93	event-days per year	about 3.93 days per year	Highly likely (from Storm Events: 27 of 30 years)	event-days in 27 of 30 years, 1996 to 2025 (90%)	110	1996 to 2023 (28 years)	see B1-f	
Landslide	0.0785	events per year (modeled)	about 1 in 13 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	43.5	days per year with a strike	about 43.5 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	1.51	events per year	about 1.51 per year	Highly likely	FEMA annualized frequency (modeled)	58	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	0.365	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.00218	annual probability at a location	chance a given location in the county burns in a year: 0.218%	Possible (from Storm Events: 1 of 30 years)	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	5.74	event-days per year	about 5.74 days per year	Likely (from Storm Events: 12 of 30 years)	event-days in 12 of 30 years, 1996 to 2025 (40%)	109	2005-11-12 to 2024-11-12 (19 years)	countywide	

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

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

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	190	30	6.33
Hail	2.00 in+	1996 to 2025	47	30	1.57
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	104	30	3.47
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	33	30	1.1
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	10	30	0.333
Tornado	EF0-1	1996 to 2025	9	30	0.3
Tornado	EF2-3	1996 to 2025	3	30	0.1
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Cold Wave	33 of 33	28.7	54.2	66.9	Relatively Moderate 25, Relatively Low 8
Drought	5 of 33	73.3	89.0	96.9	Relatively Moderate 2, Relatively Low 2, Very Low 1, No Rating 28
Earthquake	33 of 33	7.6	16.7	36.6	Very Low 33
Hail	33 of 33	95.2	98.8	99.6	Very High 26, Relatively High 7
Heat Wave	33 of 33	25.1	67.8	81.0	Relatively Moderate 28, Relatively Low 5
Hurricane	33 of 33	26.2	31.5	36.3	Very Low 33
Ice Storm	33 of 33	40.9	70.3	78.4	Relatively Moderate 18, Relatively Low 15
Inland Flooding	33 of 33	7.8	53.8	87.8	Relatively High 4, Relatively Moderate 16, Relatively Low 11, Very Low 2
Landslide	19 of 33	9.6	11.6	46.0	Very Low 19, No Rating 14
Lightning	33 of 33	39.1	80.3	90.7	Relatively High 20, Relatively Moderate 11, Relatively Low 2
Strong Wind	33 of 33	49.4	81.8	88.4	Relatively High 16, Relatively Moderate 15, Relatively Low 2

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	33 of 33	45.4	67.4	75.7	Relatively High 2, Relatively Moderate 28, Relatively Low 3
Wildfire	32 of 33	24.3	80.1	96.5	Relatively High 1, Relatively Moderate 11, Relatively Low 11, Very Low 9, No Rating 1
Winter Weather	33 of 33	80.9	96.6	98.3	Very High 22, Relatively High 11

Drought: Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

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

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

Frequency data for cold wave, drought, hail, heat wave, ice storm, lightning, strong wind and winter weather are county-wide or coarse (49 km grid or NWS zone), the same for every jurisdiction; the tract range mostly reflects where buildings and people are (crop and livestock value where a line above names agriculture).

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
Ector County	County	Approved, expires 2031-01-22	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	0 total; 0 since its plan	
Odessa city	City	Approved, expires 2031-01-22	FMA RL 1, SRL 1; any 16	\$184,220.84	324 total; 2 since its plan	Includes \$155,129 for declarations not counted as hazard incidents (EM-3216-TX).

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

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

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

Local data needed

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

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

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

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

Hazard	Building exposure modeled dollars	Agriculture exposure modeled dollars	Population exposed people	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	Cost of expected deaths and injuries FEMA's dollar value per year; not property damage	EAL as % of exposure buildings; agriculture where noted	Storm Events damage since 2026-01-23 county-coded records, property plus crops, nominal dollars	Zone-level damage since plan property plus crops, reported for the zone	Public Assistance since plan nominal dollars; see note	Note
Cold Wave	\$32,351,418,988	\$4,354,507	165,100	\$13,117	\$1,962	\$1,866,889	under 0.0001%				
Drought	n/a	\$251,341	n/a	n/a	\$251,341	n/a	100% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$58,336,094,441	n/a	165,171	\$118,373	n/a	\$33,781	0.000203%				
Hail	\$32,351,418,988	\$4,354,507	165,100	\$12,505,103	\$8,978	\$490,424	0.0387%	\$0			
Heat Wave	\$32,351,418,988	\$4,354,507	165,100	\$485	\$78	\$2,083,145	under 0.0001%				
Hurricane	\$31,994,411,950	\$4,354,507	163,227	\$21,390	\$128	\$305	under 0.0001%				
Ice Storm	\$32,306,661,740	n/a	164,743	\$187,999	n/a	\$102,749	0.000582%				
Inland Flooding	\$32,317,995,746	\$545,237	17,452	\$19,293,954	\$32,323	\$670,284	n/a (see note)	\$35,000			NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$2,423,608	n/a	9	\$2	n/a	under \$1	under 0.0001%				
Lightning	\$32,351,418,988	n/a	165,100	\$39,188	n/a	\$875,020	0.000121%				
Strong Wind	\$32,351,418,988	\$4,354,507	165,100	\$390,764	\$532	\$1,276,498	0.00121%				
Tornado	\$32,351,418,988	\$4,354,507	165,100	\$2,514,191	\$208	\$1,650,984	0.00777%				

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 2026-01-23 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Wildfire	\$4,320,884,600	\$2,361,492	43,053	\$865,060	\$53	\$138,404	0.02%				
Winter Weather	\$32,351,418,988	\$4,354,507	165,100	\$236,977	\$6	\$744,267	0.000733%				

Totals since 2026-01-23 (Storm Events through 2026-06-30): 7 county-coded records, 7 with a damage value recorded (including \$0), \$35,000; 0 zone-level records, 0 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: no counted declaration since the plan.

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

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

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

County context

Source: 5

Measure	Value
Population	165,100
Building value (total, not at risk)	\$32,351,418,988
Agriculture value (total, not at risk)	\$4,354,507
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$36,482,213
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)	\$9,932,749
Social vulnerability rating	Relatively Moderate
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)	1	Severe repetitive loss, FMA definition (44 CFR 77.2)	1
Repetitive loss, NFIP insurance definition	16	Severe repetitive loss, NFIP insurance definition	1

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	1	1	16	1	17	0	7
of which: Odessa city	1	1	15	1	16	0	7
of which: Ector County (unincorporated area)	0	0	1	0	1	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>
Ector County	480796	0	0	1	0	1	0	0
Odessa city	480206	1	1	15	1	16	0	7

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

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

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	1	0	13	0	14	0	5
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	1	0	1	0	0
non-residential	0	1	2	1	2	0	2
not reported	0	0	0	0	0	0	0

FEMA's occupancy groups have no institutional class; institutional properties are counted in non-residential or other residential in the table by occupancy group.

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

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

In this county 1 property is FMA repetitive loss but not NFIP repetitive loss, and 16 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
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5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_place_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_scsd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)

What this packet is and what the plan adds

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

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

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

OpenFEMA disclaimer

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Cite this: Hazard Plain (2026). Ector County, TX: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 48135). Automated baseline. <https://hazardplain.org/tx/48135/> 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.