

Liberty County, FL

Risk-assessment baseline packet

County FIPS: 12077 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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Summary

Plan status as of 2026-09-30: Approved, expires 2031-07-24. Plan: Liberty County (FEMA plan 111878), approved 2026-07-24.
Since the plan was approved on 2026-07-24: no new hazard declaration; details under "What changed since your last plan".
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Hurricane (\$2,244,450 a year), Inland Flooding (\$1,052,211) and Lightning (\$493,351).
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; 12077 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 2031-07-24

Approved:

2026-07-24

Plan:

Liberty County (FEMA plan 111878)

Days to expiry:

1,758

What changed since your last plan (approved 2026-07-24)

New federal declarations:

none

Repetitive loss now:

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

Storm Events records since approval:

not yet covered: Storm Events data run through 2026-06-30, before the approval date, so there is no period to count yet

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
Liberty County (unincorporated area)	Unincorporated	Approved, expires 2031-07-24	Liberty County (FEMA plan 111878)	2026-07-24	2031-07-24	1,758
Bristol city	City	Approved, expires 2031-07-24	Liberty County (FEMA plan 111878)	2026-07-24	2031-07-24	1,758
Talquin Electric Cooperative	Electric/Power Authority	Approved, expires 2031-07-24	Liberty County (FEMA plan 111878)	2026-07-24	2031-07-24	1,758

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

Hazard Plain release 2026-10, as of 2026-09-30.

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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	Hurricane	Relatively Moderate	Relatively Moderate	\$2,155,370	\$29,443	\$59,637	\$2,244,450	23	
2	Inland Flooding	Very Low	Very Low	\$1,051,542	\$193	\$475	\$1,052,211	13	
3	Lightning	Relatively Moderate	Relatively Moderate	\$4,065	n/a	\$489,286	\$493,351	3	
4	Tornado	Relatively Low	Relatively Low	\$95,702	\$157	\$303,039	\$398,898	13	
5	Cold Wave	Relatively Low	Relatively Low	\$2,005	\$3,570	\$331,534	\$337,109	3	
6	Wildfire	Relatively Low	Relatively Low	\$125,815	\$43	\$14,155	\$140,013	6	
7	Heat Wave	Very Low	Very Low	\$5	\$9	\$79,242	\$79,256	8	
8	Strong Wind	Very Low	Very Low	\$11,399	\$14	\$25,944	\$37,358	71	
9	Earthquake	Very Low	Very Low	\$11,403	n/a	\$6,351	\$17,754		Storm Events does not record earthquakes.
10	Hail	Very Low	Very Low	\$609	\$687	\$2,414	\$3,710	20	
11	Coastal Flooding	Very Low	Very Low	\$3,225	n/a	\$73	\$3,298	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Winter Weather	Very Low	Very Low	\$927	under \$1	\$723	\$1,650	3	

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	Drought	Very Low	Very Low	n/a	\$139	n/a	\$139	28	
14	Landslide	Very Low	Very Low	\$48	n/a	\$7	\$55	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, ice storm, 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, Lightning, Strong Wind and Winter Weather.

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

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

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 9502.01 (Very Low, 25.3); tract 9501 (Very Low, 23.8); tract 9502.02 (Very Low, 16.9)
Hurricane	tract 9502.01 (Relatively High, 95.6); tract 9501 (Relatively High, 94.6); tract 9502.02 (Relatively Moderate, 89.8)
Landslide	tract 9502.02 (Very Low, 73.4); tract 9502.01 (Very Low, 66.3); tract 9501 (Very Low, 65.3)
Tornado	tract 9502.01 (Relatively Moderate, 72.9); tract 9501 (Relatively Moderate, 68.5); tract 9502.02 (Relatively Moderate, 61.6)
Wildfire	tract 9501 (Relatively Moderate, 93.9); tract 9502.01 (Relatively Moderate, 93.5); tract 9502.02 (Relatively Low, 87.7)

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 9502.01 is Census Tract 9502.01). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Coastal Flood, Storm Surge/ Tide	none in data (flood depth: FIRM)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	3 records, 2022 to 2026 (3 zone-level)	1 day to 3 days (median 1 day); 3 with a recorded value	3 consecutive days, 2022-12-24 to 2022-12-26, zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					
Drought	U.S. Drought Monitor scale (D0 to D4)	28 records, 2011 to 2026 (28 zone-level)	23 days to 260 days (median 85 days); 7 with a recorded value	260 days (about 8.5 months), 2025-10-14 to 2026-06-30, a run of 9 consecutive Storm Events drought records, zone-level		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)	22 records, 1968 to 2024	0.75 in to 1.75 in (median 0.94 in); 22 with a recorded value	1.75 in hail, 2014-08-03; same size also recorded on 1968-05-29, 2003-04-05, 2012-05-22		Event records naming jurisdictions in the plan: Bristol city (8 records).	
Excessive Heat, Heat	heat index (in event narratives)	8 records, 2023 (8 zone-level)	1 day to 4 days (median 3 days); 3 with a recorded value	4 consecutive days, 2023-08-11 to 2023-08-14, zone-level		Countywide (zone-level records).	
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	23 records, 1996 to 2024 (23 zone-level)		Strongest recorded: Hurricane record (NOAA event type 'Hurricane (Typhoon)'), 2018-10-10, category 3, \$450,000,000 property; \$150,000,000 crops (2018 dollars) (as recorded; larger than this county's annual agriculture value in the National Risk Index (the county or state extension service keeps crop loss records)); NWS zone FLZ026		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.

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)	13 records, 1998 to 2025 (3 zone-level)		Flood, 1998-03-10, \$200,000 property; crops not reported (1998 dollars); NWS zone FLZ026		Event records naming jurisdictions in the plan: Bristol city (3 records). Zone-level records (3) 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					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	3 records, 1996 to 2008		Lightning, 2008-06-15, \$0 property; \$0 crops (2008 dollars), 1 direct death	Lightning, 2008-08-01, \$75,000 property; \$0 crops (2008 dollars)	Event records naming jurisdictions in the plan: Bristol city (1 record).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	0					
Thunderstorm Wind	wind speed (kt and mph)	76 records, 1962 to 2026	50 kt (58 mph) to 65 kt (75 mph) (median 50 kt (58 mph)); 63 with a recorded value	65 kt (75 mph) estimated gust, Thunderstorm Wind, 2017-01-22; same speed and measurement basis also recorded on 2015-07-07	Thunderstorm Wind, 2005-03-07, \$50,000 property; crops not reported (2005 dollars)	Event records naming jurisdictions in the plan: Bristol city (24 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	19 records, 1969 to 2023	F/EF0 to F/EF2 (median F/EF0); 19 with a recorded value	EF2 tornado, 2023-04-27, 2.5 mi within this county, 960 yd wide, \$500,000 property; \$0 crops (2023 dollars)		Event records naming jurisdictions in the plan: Bristol 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).
Wildfire	acres burned (local data)	6 records, 1998 to 2000		No damage reported in 6 records.		No event record names a jurisdiction in the plan.	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	3 records, 2014 to 2025 (3 zone-level)		Heavy Snow, 2025-01-21, \$0 property; \$500,000 crops (2025 dollars); NWS zone FLZ026		Countywide (zone-level records).	

In event narratives only (local data needed): wind chill, temperature, heat index, acres burned and snow depth; any physical measure of debris flow and lightning.

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records from zones that 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: 41 declarations covering 28 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Storm Events records since the plan: not yet covered: Storm Events data run through 2026-06-30, before the approval date, so there is no period to count yet.

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2024-09-28	2024-09-23	DR-4828-FL	Major disaster	Hurricane Helene	Hurricane	\$61,224.17	within last 5 years	
2024-09-24	2024-09-23	EM-3615-FL	Emergency	Tropical Storm Helene	Hurricane (primary); also designated: Inland Flooding, Strong Wind	no Public Assistance recorded	within last 5 years	same incident as DR-4828
2024-08-10	2024-08-01	DR-4806-FL	Major disaster	Hurricane Debby	Hurricane	no Public Assistance recorded	within last 5 years	
2024-08-03	2024-08-01	EM-3605-FL	Emergency	Tropical Storm Debby	Hurricane (primary); also designated: Inland Flooding, Strong Wind, Tornado	no Public Assistance recorded	within last 5 years	same incident as DR-4806
2024-06-17	2024-05-10	DR-4794-FL	Major disaster	Severe Storms, Straight-Line Winds, and Tornadoes	Inland Flooding; Strong Wind; Tornado	no Public Assistance recorded	within last 5 years	
2023-08-31	2023-08-27	DR-4734-FL	Major disaster	Hurricane Idalia	Hurricane	\$9,827.11	within last 5 years	
2023-08-28	2023-08-27	EM-3596-FL	Emergency	Tropical Storm Idalia	Hurricane	no Public Assistance recorded	within last 5 years	same incident as DR-4734
2022-12-13	2022-11-07	DR-4680-FL	Major disaster	Hurricane Nicole	Hurricane	no Public Assistance recorded	within last 5 years	
2022-09-29	2022-09-23	DR-4673-FL	Major disaster	Hurricane Ian	Hurricane	no Public Assistance recorded	within last 5 years	
2022-09-24	2022-09-23	EM-3584-FL	Emergency	Tropical Storm Ian	Hurricane	no Public Assistance recorded	within last 5 years	same incident as DR-4673
2021-08-16	2021-08-13	EM-3562-FL	Emergency	Tropical Storm Fred	Hurricane	no Public Assistance recorded		
2020-09-23	2020-09-14	DR-4564-FL	Major disaster	Hurricane Sally	Hurricane	\$113,529.78		
2020-09-15	2020-09-14	EM-3546-FL	Emergency	Hurricane Sally	Hurricane	no Public Assistance recorded		same incident as DR-4564
2020-03-25	2020-01-20	DR-4486-FL	Major disaster	COVID-19 Pandemic	Non-natural, not counted	no Public Assistance recorded		
2020-03-13	2020-01-20	EM-3432-FL	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4486
2019-08-30	2019-08-28	EM-3419-FL	Emergency	Hurricane Dorian	Hurricane	no Public Assistance recorded		
2018-10-11	2018-10-07	DR-4399-FL	Major disaster	Hurricane Michael	Hurricane	\$1,590,516.79		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2018-10-09	2018-10-07	EM-3405-FL	Emergency	Hurricane Michael	Hurricane	no Public Assistance recorded		same incident as DR-4399
2017-09-10	2017-09-04	DR-4337-FL	Major disaster	Hurricane Irma	Hurricane	\$44,802.41		
2017-09-05	2017-09-04	EM-3385-FL	Emergency	Hurricane Irma	Hurricane	no Public Assistance recorded		same incident as DR-4337
2016-09-28	2016-08-31	DR-4280-FL	Major disaster	Hurricane Hermine	Hurricane	\$11,695.79		
2012-07-03	2012-06-23	DR-4068-FL	Major disaster	Tropical Storm Debby	Hurricane	\$180,242.82		
2009-04-21	2009-03-26	DR-1831-FL	Major disaster	Severe Storms, Flooding, Tornadoes, and Straight-Line Winds	Inland Flooding; Strong Wind; Tornado	\$253,127.08		
2008-08-24	2008-08-18	DR-1785-FL	Major disaster	Tropical Storm Fay	Hurricane; Inland Flooding	\$36,684.53		
2008-08-21	2008-08-18	EM-3288-FL	Emergency	Tropical Storm Fay	Hurricane; Inland Flooding	no Public Assistance recorded		same incident as DR-1785
2005-09-05	2005-08-29	EM-3220-FL	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2005-07-10	2005-07-07	DR-1595-FL	Major disaster	Hurricane Dennis	Hurricane	\$269,548.38		
2004-09-16	2004-09-13	DR-1551-FL	Major disaster	Hurricane Ivan	Hurricane	\$2,370,648.39		
2004-09-04	2004-09-03	DR-1545-FL	Major disaster	Hurricane Frances	Hurricane	\$11,044.32		
2004-08-13	2004-08-11	DR-1539-FL	Major disaster	Tropical Storm Bonnie and Hurricane Charley	Hurricane	\$5,845.10		
2001-06-17	2001-06-11	DR-1381-FL	Major disaster	Tropical Storm Allison	Hurricane	\$263,305.44		
1999-04-27	1999-04-15	EM-3139-FL	Emergency	FI-Fires 04/15/99	Wildfire	no Public Assistance recorded		
1999-04-17	1999-04-13	FM-2255-FL	Fire management	FI-Fires 04/13/99	Wildfire	no Public Assistance recorded		
1998-09-28	1998-09-25	DR-1249-FL	Major disaster	Hurricane Georges	Hurricane	no Public Assistance recorded		
1998-09-25	1998-09-25	EM-3131-FL	Emergency	Hurricane Gorges	Hurricane	no Public Assistance recorded		same incident as DR-1249
1998-06-18	1998-05-25	DR-1223-FL	Major disaster	Extreme Fire Hazard	Wildfire	no Public Assistance recorded		
1998-01-06	1997-12-25	DR-1195-FL	Major disaster	Severe Storms, High Winds, Tornadoes, and Flooding	Inland Flooding; Strong Wind; Tornado	no Public Assistance recorded		
1994-07-10	1994-07-02	DR-1035-FL	Major disaster	Severe Storms and Flooding (Tropical Storm Alberto)	Hurricane; Inland Flooding	no Public Assistance recorded		
1994-07-08	1994-07-02	EM-3114-FL	Emergency	Tropical Storm Alberto	Inland Flooding (primary); also designated: Hurricane	no Public Assistance recorded		same incident as DR-1035
1990-04-03	1990-03-16	DR-862-FL	Major disaster	Severe Storms & Flooding	Inland Flooding	PA not declared for this county		
1985-12-03	1985-11-21	DR-756-FL	Major disaster	Hurricane Kate	Hurricane	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
1995-08-03	1995-08-02	EM-3116-FL	Emergency	Hurricane Erin	Hurricane
1964-09-10	1964-09-10	DR-176-FL	Major disaster	Hurricane Dora	Hurricane (primary); also designated: Inland Flooding
1964-09-08	1964-09-08	DR-175-FL	Major disaster	Hurricane Cleo	Hurricane (primary); also designated: Inland Flooding
1962-12-17	1962-12-17	DR-141-FL	Major disaster	Abnormally High Tides	Inland Flooding
1960-09-12	1960-09-12	DR-106-FL	Major disaster	Hurricane Donna	Hurricane (primary); also designated: Inland Flooding
1960-03-23	1960-03-23	DR-97-FL	Major disaster	Severe Weather Conditions	Other, not an NRI hazard; not counted
1953-10-22	1953-10-22	DR-12-FL	Major disaster	Flood	Inland Flooding

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.

17 Fire Management declarations (1985-05-17 to 1998-06-28) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

Public Assistance not placed in any Florida county: 4 rows, \$9,327,951.42; listed on the Florida 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
Coastal Flooding	0		0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	3		1	3	0	0	1996 to 2026-06-30	
Drought	28		9	12	0	0	1996 to 2026-06-30	
Earthquake	0		0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	22		0	2	0	0	1955 to 2026-06-30	
Heat Wave	8		0	8	0	0	1996 to 2026-06-30	
Hurricane	23		0	3	21	0	1996 to 2026-06-30	
Inland Flooding	13		0	5	8	0	1996 to 2026-06-30	
Landslide	0		0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events

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
Lightning	3		0	0	0	0	1996 to 2026-06-30	
Strong Wind	76		10	19	5	0	1955 to 2026-06-30	
Tornado	19		0	3	4	0	1950 to 2026-06-30	
Wildfire	6		0	0	3	0	1996 to 2026-06-30	
Winter Weather	3		0	1	0	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2025-10-14	Drought		damage not reported	0, 0	NWS zone FLZ326 (NORTHERN LIBERTY COUNTY), zone-level	in the 12 months before plan approval; within last 5 years	B1-c worst recorded: Drought
2025-01-21	Heavy Snow		\$0 property; \$500,000 crops (zone total, 2025 dollars)	0, 0	NWS zone FLZ026 (LIBERTY), zone-level	within last 5 years	B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2023-08-11	Excessive Heat		\$0 property; \$0 crops (zone total, 2023 dollars)	0, 0	NWS zone FLZ026 (LIBERTY), zone-level	within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2023-04-27	Tornado	EF2, 2.5 mi within this county, 960 yd wide	\$500,000 property; \$0 crops (2023 dollars)	0, 0	HOSFORD	within last 5 years	B1-c worst recorded: Tornado
2022-12-24	Cold/Wind Chill		\$50,000 property; \$0 crops (zone total, 2022 dollars)	0, 0	NWS zone FLZ026 (LIBERTY), zone-level	within last 5 years	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2018-10-10	Hurricane (NOAA event type 'Hurricane (Typhoon)')	category 3	\$450,000,000 property; \$150,000,000 crops (zone total, 2018 dollars) (as recorded; larger than this county's annual agriculture value in the National Risk Index (the county or state extension service keeps crop loss records))	0, 0	NWS zone FLZ026 (LIBERTY), zone-level		B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression
2017-01-22	Thunderstorm Wind	65 kt (75 mph) estimated gust	\$20,000 property; \$0 crops (2017 dollars)	0, 0	BRISTOL		B1-c worst recorded: Thunderstorm Wind
2014-08-03	Hail	1.75 in	damage not reported	0, 0	HOSFORD		B1-c worst recorded: Hail
2008-08-01	Lightning		\$75,000 property; \$0 crops (2008 dollars)	0, 0	SWEETWATER		B1-c most damaging: Lightning
2008-06-15	Lightning		\$0 property; \$0 crops (2008 dollars)	1, 0	ROCK BLUFF		deaths or injuries recorded
2005-03-07	Thunderstorm Wind	55 kt (63 mph) estimated gust	\$50,000 property; crops not reported (2005 dollars)	0, 0	SUMATRA		B1-c most damaging: Thunderstorm Wind
1998-03-10	Flood		\$200,000 property; crops not reported (zone total, 1998 dollars)	0, 0	NWS zone FLZ026 (LIBERTY), zone-level		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood

The full list is in the Excel file, sheet "B1-d Storm Events history" (204 rows).

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

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

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

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

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Coastal Flooding	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 descriptor: no Storm Events record 1996 to 2025
Cold Wave	1.47	event-days per year	about 1.47 days per year	Possible	Storm Events event-days in 2 of 30 years, 1996 to 2025 (6.67%)	28	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	20.5	event-days per year	about 20.5 days per year	Likely	Storm Events event-days in 7 of 30 years, 1996 to 2025 (23.3%)	588	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000851	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0851%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.719	events per year	about 0.72 per year	Likely	FEMA annualized frequency (modeled)	27.3 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	6.74	event-days per year	about 6.74 days per year	Possible	Storm Events event-days in 1 of 30 years, 1996 to 2025 (3.33%)	110	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.263	events per year	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	98	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.
Inland Flooding	0.143	event-days per year	about 0.143 days per year	Likely	Storm Events event-days in 8 of 30 years, 1996 to 2025 (26.7%)	4	1996 to 2023 (28 years)	see B1-f	
Landslide	0.123	events per year (modeled)	about 1 in 8 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	85.7	days per year with a strike	about 85.7 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	1.23	events per year	about 1.23 per year	Highly likely	FEMA annualized frequency (modeled)	47	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	0.481	events per year	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.00284	annual probability at a location	chance a given location in the county burns in a year: 0.284%	Possible	Storm Events records in 2 of 30 years, 1996 to 2025 (6.67%)	not shown	modeled	see B1-f	
Winter Weather	0.211	event-days per year	about 0.211 days per year	Likely	Storm Events event-days in 3 of 30 years, 1996 to 2025 (10%)	4	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	10	30	0.333
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	50	30	1.67
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	9	30	0.3
Tornado	EF0-1	1996 to 2025	12	30	0.4
Tornado	EF2-3	1996 to 2025	1	30	0.0333
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Coastal Flooding	2 of 4	75.1	78.6	82.1	Relatively Low 1, Very Low 1, No Rating 2
Cold Wave	4 of 4	24.0	70.3	78.2	Relatively High 1, Relatively Moderate 2, Relatively Low 1
Drought	4 of 4	67.7	70.8	72.6	Very Low 4
Earthquake	4 of 4	3.9	20.4	25.3	Very Low 4
Hail	4 of 4	2.7	24.4	28.3	Very Low 4
Heat Wave	4 of 4	3.3	38.0	49.0	Relatively Low 3, Very Low 1
Hurricane	4 of 4	62.4	92.2	95.6	Relatively High 2, Relatively Moderate 1, Relatively Low 1
Inland Flooding	4 of 4	0.4	23.7	48.1	Relatively Low 2, Very Low 2
Landslide	4 of 4	9.9	65.8	73.4	Very Low 4
Lightning	4 of 4	57.0	99.4	99.8	Very High 3, Relatively Moderate 1
Strong Wind	4 of 4	11.1	42.5	51.0	Relatively Low 3, Very Low 1

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	4 of 4	27.9	65.1	72.9	Relatively Moderate 3, Very Low 1
Wildfire	4 of 4	57.1	90.6	93.9	Relatively Moderate 2, Relatively Low 1, Very Low 1
Winter Weather	4 of 4	14.4	25.1	29.5	Relatively Low 3, Very Low 1

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, 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
			<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>
Liberty County (unincorporated area)	Unincorporated	Approved, expires 2031-07-24	FMA RL 0, SRL 0; any 0	\$3,915,972.35	0 total; not yet covered
Bristol city	City	Approved, expires 2031-07-24	FMA RL 0, SRL 0; any 0	\$512,910.31	37 total; not yet covered

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

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

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

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

Local data needed

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

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

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 2026-07-24 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Coastal Flooding	\$131,118,695	n/a	270	\$3,225	n/a	\$73	0.00246%				
Cold Wave	\$1,157,185,285	\$3,162,560	6,344	\$2,005	\$3,570	\$331,534	0.000173%				
Drought	n/a	\$152,343	n/a	n/a	\$139	n/a	0.0914% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$2,096,172,058	n/a	7,974	\$11,403	n/a	\$6,351	0.000544%				
Hail	\$1,157,185,285	\$3,162,560	6,344	\$609	\$687	\$2,414	under 0.0001%				
Heat Wave	\$1,157,185,285	\$3,162,560	6,344	\$5	\$9	\$79,242	under 0.0001%				
Hurricane	\$1,157,185,285	\$3,162,560	6,344	\$2,155,370	\$29,443	\$59,637	0.186%				
Inland Flooding	\$1,148,223,466	\$128,901	237	\$1,051,542	\$193	\$475	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.
Landslide	\$7,165,648	n/a	36	\$48	n/a	\$7	0.00067%				
Lightning	\$1,157,185,285	n/a	6,344	\$4,065	n/a	\$489,286	0.000351%				
Strong Wind	\$1,157,185,285	\$3,162,560	6,344	\$11,399	\$14	\$25,944	0.000985%				
Tornado	\$1,157,185,285	\$3,162,560	6,344	\$95,702	\$157	\$303,039	0.00827%				

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 2026-07-24 <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	\$399,480,445	\$1,993,644	3,376	\$125,815	\$43	\$14,155	0.0315%				
Winter Weather	\$1,157,185,285	\$3,162,560	6,344	\$927	under \$1	\$723	under 0.0001%				

Totals since 2026-07-24: Storm Events not yet covered: Storm Events data run through 2026-06-30, before the approval date, so there is no period to count yet; 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	6,344
Building value (total, not at risk)	\$1,157,185,285
Agriculture value (total, not at risk)	\$3,162,560
NRI risk rating (all hazards)	Very Low
Expected annual loss, buildings and agriculture, all hazards	\$3,496,371
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)	\$1,312,880
Social vulnerability rating	Relatively Moderate
Community resilience rating	Relatively 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	0	1	9	0	10	0	1

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>
Liberty County (unincorporated area)	120148	0	0	0	0	0	0	0
Bristol city	120324	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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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_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)

What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment (the summary on page 1 says how it is organized); the plan and FEMA's review decide whether each 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.

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