

Yuma County, AZ

Risk-assessment baseline packet

County FIPS: 04027 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: Expired on 2024-07-01. Plan: Yuma County (FEMA plan 105542), approved 2019-07-02.
Since the plan was approved on 2019-07-02: no new hazard declaration; 2 COVID-19 declarations (not counted).
NOAA Storm Events records since that date: 143 records (data through 2026-06-30).
Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Earthquake (\$52,006,465 a year), Inland Flooding (\$31,603,156) and Heat Wave (\$6,434,337).
Repetitive-loss flood properties now: FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 1.
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; 04027 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:	Expired on 2024-07-01	Plan:	Yuma County (FEMA plan 105542)
Approved:	2019-07-02	Days since expiry:	821
Update underway:	none recorded in FEMA's plan tracker		

Until a new plan is approved, FEMA mitigation project grants (HMGP, FMA) need a FEMA exception (44 CFR 201.6(a)(3)).

What changed since your last plan (approved 2019-07-02)

New federal declarations:no new hazard declaration; 2 COVID-19 declarations (not counted)

Repetitive loss now:FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 1

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

Storm Events records since approval:143 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
Yuma County	County	Expired on 2024-07-01	Yuma County (FEMA plan 105542)	2019-07-02	2024-07-01	-821
San Luis city	City	Expired on 2024-07-01	Yuma County (FEMA plan 105542)	2019-07-02	2024-07-01	-821
Somerton city	City	Expired on 2024-07-01	Yuma County (FEMA plan 105542)	2019-07-02	2024-07-01	-821
Wellton town	Town	Expired on 2024-07-01	Yuma County (FEMA plan 105542)	2019-07-02	2024-07-01	-821
Yuma city	City	Expired on 2024-07-01	Yuma County (FEMA plan 105542)	2019-07-02	2024-07-01	-821

Plan 105542 lists 1 other participant: Cocopah Tribe of Arizona.

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	Earthquake	Relatively High	Relatively High	\$31,155,279	n/a	\$20,851,186	\$52,006,465		Storm Events does not record earthquakes.
2	Inland Flooding	Relatively Moderate	Relatively Moderate	\$31,104,951	\$390,274	\$107,931	\$31,603,156	72	
3	Heat Wave	Relatively High	Relatively Moderate	\$219	\$452,361	\$5,981,757	\$6,434,337	45	
4	Strong Wind	Relatively Moderate	Relatively Moderate	\$202,615	\$3,147	\$356,200	\$561,962	157	Includes 3 High Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
5	Drought	Relatively Moderate	Relatively Moderate	n/a	\$513,249	n/a	\$513,249	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
6	Lightning	Relatively Low	Relatively Low	\$5,181	n/a	\$131,260	\$136,441	2	
7	Tornado	Very Low	Very Low	\$47,849	\$935	\$41,852	\$90,637	2	
8	Wildfire	Very Low	Very Low	\$47,398	\$284	\$10,780	\$58,462	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
9	Hail	Very Low	Very Low	\$39,381	\$92	\$3,458	\$42,931	15	
10	Hurricane	Very Low	Very Low	\$1,382	\$4,192	\$0	\$5,574	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
11	Landslide	Very Low	Very Low	\$732	n/a	\$30	\$762	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Volcanic Activity	Very Low	Very Low	under \$1	n/a	\$23	\$23	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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	Winter Weather	Very Low	Very Low	\$0	under \$1	\$0	under \$1	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Cold Wave	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

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

Local data needed: state and local wildfire, landslide and volcanic activity records (Storm Events records these hazards only in part).

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: avalanche, coastal flooding, ice storm and tsunامي. 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.

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 10.04 (Very High, 99.6); tract 10.01 (Very High, 98.4); tract 8 (Very High, 98.4)
Hurricane	tract 112.02 (Very Low, 37.1); tract 112.04 (Very Low, 32.5); tract 109.14 (Very Low, 31.5)
Landslide	tract 121 (Relatively Low, 90.7); tract 109.14 (Relatively Low, 81.6); tract 112.04 (Very Low, 79.8)
Tornado	tract 109.07 (Very Low, 10.1); tract 8 (Very Low, 8.4); tract 9.07 (Very Low, 8.0)
Volcanic Activity	tract 9.07 (Very Low, 75.9); tract 8 (Very Low, 75.4); tract 4.02 (Very Low, 71.8)
Wildfire	tract 109.14 (Relatively Moderate, 89.2); tract 118.02 (Relatively Low, 84.2); tract 118.01 (Relatively Low, 80.7)

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 10.04 is Census Tract 10.04). 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)	0					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, 1963 to 2022	0.25 in to 1.5 in (median 0.81 in); 22 with a recorded value	1.5 in hail, 1964-04-28	Hail, 2007-09-02, \$50,000 property; \$0 crops (2007 dollars)	Event records naming jurisdictions in the plan: Yuma city (3 records), Wellton town (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	45 records, 2018 to 2024 (45 zone-level)	1 day to 12 days (median 3 days); 42 with a recorded value	12 consecutive days, 2023-07-11 to 2023-07-22, 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.

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)	72 records, 1996 to 2025		Flash Flood, 2015-09-08, \$100,000 property; \$0 crops (2015 dollars)		Event records naming jurisdictions in the plan: Yuma city (9 records), Wellton town (6 records), Somerton city (2 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)	2 records, 2000 to 2009		Lightning, 2009-09-05, \$20,000 property; \$0 crops (2009 dollars)		Event records naming jurisdictions in the plan: Yuma city (2 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)	3 records, 2022 to 2023 (3 zone-level)	50 kt (58 mph) to 60 kt (69 mph) (median 53 kt (61 mph)); 3 with a recorded value	60 kt (69 mph) measured gust, High Wind, 2023-08-20; NWS zone AZZ532	High Wind, 2023-08-20, \$50,000 property; \$0 crops, reported for the zone (2023 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	211 records, 1957 to 2025	39 kt (45 mph) to 80 kt (92 mph) (median 55 kt (63 mph)); 178 with a recorded value	80 kt (92 mph), measurement type not recorded, Thunderstorm Wind, 1959-08-10; same speed and measurement basis also recorded on 1959-08-10	Thunderstorm Wind, 2010-08-26, \$5,000,000 property; \$0 crops (2010 dollars)	Event records naming jurisdictions in the plan: Yuma city (30 records), Wellton town (11 records), Somerton city (8 records), San Luis city (1 record).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	12 records, 1959 to 2018	F/EF0 to F/EF2 (median F/EF0); 9 with a recorded value	F2 tornado, 1959-08-17, 200 yd wide, \$250,000 property; crops not recorded (1959 dollars), 1 direct injury		No event record names a jurisdiction in the plan.	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).
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: 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
Wildfire	acres burned (local data)	0					Acres burned: in event narratives only (local data needed).
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	0					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: 6 declarations covering 3 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
2020-04-04	2020-01-20	DR-4524-AZ	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$1,886,308.82	new since last plan	
2020-03-13	2020-01-20	EM-3442-AZ	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded	new since last plan	same incident as DR-4524
2005-09-12	2005-08-29	EM-3241-AZ	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
1993-01-19	1993-01-05	DR-977-AZ	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding (primary); also designated: Tornado	no Public Assistance recorded		
1985-01-15	1985-01-15	DR-730-AZ	Major disaster	Heavy Rain & High Winds	Strong Wind	no Public Assistance recorded		
1983-07-01	1983-06-16	DR-686-AZ	Major disaster	Flooding	Inland Flooding	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
2000-10-27	2000-10-21	DR-1347-AZ	Major disaster	Severe Storms and Flooding	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.

15 Fire Management declarations (1990-06-27 to 1996-06-24) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

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	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Drought	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	22	1	0	1	0	0	1955 to 2026-06-30	
Heat Wave	45	39	5	13	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
Inland Flooding	72	46	6	44	2	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	2	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	214	57	4	48	1	0	1955 to 2026-06-30	Includes 3 High Wind records.
Tornado	12	0	1	0	1	0	1950 to 2026-06-30	
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events

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
2023-08-20	High Wind	60 kt (69 mph) measured gust	\$0 property; \$0 crops, reported for the zone (2023 dollars)	0, 0	NWS zone AZZ532 (YUMA), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2023-07-11	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2023 dollars)	0, 0	NWS zone AZZ531 (KOFA), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2015-09-08	Flash Flood		\$100,000 property; \$0 crops (2015 dollars)	0, 0	GADSDEN to SOMERTON		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2010-08-26	Thunderstorm Wind	75 kt (86 mph) estimated gust	\$5,000,000 property; \$0 crops (2010 dollars)	0, 0	YUMA		B1-c most damaging: Thunderstorm Wind
2009-09-05	Lightning		\$20,000 property; \$0 crops (2009 dollars)	0, 0	YUMA		B1-c worst recorded: Lightning
2007-09-02	Hail	1 in	\$50,000 property; \$0 crops (2007 dollars)	0, 0	YUMA		B1-c most damaging: Hail
1996-08-14	Thunderstorm Wind	52 kt (60 mph), measurement type not recorded	damage not reported	0, 8	DATELAND		deaths or injuries recorded
1991-09-04	Thunderstorm Wind	63 kt (72 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 2	location not recorded		deaths or injuries recorded
1989-07-27	Thunderstorm Wind	53 kt (61 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 2	location not recorded		deaths or injuries recorded
1964-04-28	Hail	1.5 in	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Hail
1959-08-17	Tornado	F2, 200 yd wide	\$250,000 property; crops not recorded (1959 dollars)	0, 1	location not recorded		B1-c worst recorded: Tornado
1959-08-10	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" (367 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	event-days per year	none modeled		event-days in 0 of 30 years, 1996 to 2025 (0%)	0	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events cold wave record, 1996 to 2025.
Drought	40.1	event-days per year	about 40.1 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	1,337	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.0902	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 9.02%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.036	events per year	about 1 in 28 years	Possible	FEMA annualized frequency (modeled)	1.4 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	15.8	event-days per year	about 15.8 days per year	Likely (from Storm Events: 7 of 30 years)	event-days in 7 of 30 years, 1996 to 2025 (23.3%)	106	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0246	events per year	about 1 in 41 years	Possible	FEMA annualized frequency (modeled)	6	1851 to 2024 (Atlantic); 1949 to 2024 (Pacific)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Inland Flooding	1.32	event-days per year	about 1.32 days per year	Likely (from Storm Events: 19 of 30 years)	event-days in 19 of 30 years, 1996 to 2025 (63.3%)	37	1996 to 2023 (28 years)	see B1-f	
Landslide	3.67	events per year (modeled)	about 3.67 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	19.7	days per year with a strike	about 19.7 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.326	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	13	1986 to 2023 (38 years)	countywide	
Tornado	0.071	events per year	about 1 in 14 years	Possible	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Volcanic Activity	0.0001	annual probability	about 1 in 10,000 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.000544	annual probability at a location	chance a given location in the county burns in a year: 0.0544%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Winter Weather	0.00000847	event-days per year	about 0.00000847 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	0.000161	2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events winter weather record, 1996 to 2025

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	5	30	0.167
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	134	30	4.47
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	12	30	0.4
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	8	30	0.267
Tornado	EF0-1	1996 to 2025	2	30	0.0667
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

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	0 of 67				No Rating 67
Drought	43 of 67	66.8	81.5	97.0	Relatively Moderate 7, Relatively Low 19, Very Low 17, No Rating 24
Earthquake	65 of 67	59.0	87.8	99.6	Very High 5, Relatively High 25, Relatively Moderate 33, Relatively Low 2, No Rating 2
Hail	67 of 67	0.1	18.5	30.6	Very Low 67
Heat Wave	67 of 67	1.6	81.7	95.5	Relatively High 25, Relatively Moderate 38, Relatively Low 1, Very Low 3
Hurricane	67 of 67	9.3	15.0	37.1	Very Low 67
Inland Flooding	65 of 67	0.5	46.7	96.4	Very High 1, Relatively High 6, Relatively Moderate 24, Relatively Low 28, Very Low 6, No Rating 2
Landslide	50 of 67	8.9	13.9	90.7	Relatively Low 2, Very Low 48, No Rating 17
Lightning	65 of 67	0.6	15.3	35.9	Relatively Low 12, Very Low 53, No Rating 2
Strong Wind	67 of 67	0.2	36.4	61.0	Relatively Moderate 4, Relatively Low 60, Very Low 3
Tornado	67 of 67	0.2	4.1	10.1	Very Low 67

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Volcanic Activity	36 of 67	40.2	55.9	75.9	Very Low 36, No Rating 31
Wildfire	65 of 67	19.1	51.3	89.2	Relatively Moderate 1, Relatively Low 9, Very Low 55, No Rating 2
Winter Weather	1 of 67	10.5	10.5	10.5	Very Low 1, No Rating 66

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.

Winter Weather: 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 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 <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Yuma County	County	Expired on 2024-07-01	FMA RL 0, SRL 0; any 1	\$989,431.23	0 total; 0 since its plan	Includes \$989,431.23 for declarations not counted as hazard incidents (DR-4524-AZ).
San Luis city	City	Expired on 2024-07-01	FMA RL 0, SRL 0; any 0	\$170,459.90	1 total; 0 since its plan	Includes \$170,459.90 for declarations not counted as hazard incidents (DR-4524-AZ).
Somerton city	City	Expired on 2024-07-01	FMA RL 0, SRL 0; any 0	\$4,319.35	10 total; 1 since its plan	Includes \$4,319.35 for declarations not counted as hazard incidents (DR-4524-AZ).
Wellton town	Town	Expired on 2024-07-01	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	18 total; 6 since its plan	
Yuma city	City	Expired on 2024-07-01	FMA RL 0, SRL 0; any 0	\$44,459.83	44 total; 4 since its plan	Includes \$44,459.83 for declarations not counted as hazard incidents (DR-4524-AZ).

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

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 2019-07-02 <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	\$0	\$0	0	\$0	\$0	\$0					building exposure is 0 in NRI
Drought	n/a	\$755,011,107	n/a	n/a	\$513,249	n/a	0.068% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$56,549,404,950	n/a	203,881	\$31,155,279	n/a	\$20,851,186	0.0551%				
Hail	\$33,157,083,720	\$929,576,806	203,299	\$39,381	\$92	\$3,458	0.000119%	\$0			
Heat Wave	\$33,157,067,788	\$929,576,806	203,299	\$219	\$452,361	\$5,981,757	under 0.0001%		\$0		
Hurricane	\$33,113,125,275	\$918,299,458	203,112	\$1,382	\$4,192	\$0	under 0.0001%				
Inland Flooding	\$33,153,408,476	\$379,422,667	4,630	\$31,104,951	\$390,274	\$107,931	n/a (see note)	\$128,500			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	\$67,685,910	n/a	224	\$732	n/a	\$30	0.00108%				
Lightning	\$33,157,083,720	n/a	203,299	\$5,181	n/a	\$131,260	under 0.0001%				
Strong Wind	\$33,157,083,720	\$929,576,806	203,299	\$202,615	\$3,147	\$356,200	0.000611%	\$1,302,000	\$50,000		Storm Events damage since the plan includes 1 zone-level High Wind record (\$50,000): a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition.
Tornado	\$33,157,083,720	\$929,576,806	203,299	\$47,849	\$935	\$41,852	0.000144%				
Volcanic Activity	\$33,157,083,720	n/a	203,299	under \$1	n/a	\$23	under 0.0001%				
Wildfire	\$3,096,723,527	\$158,470,951	26,021	\$47,398	\$284	\$10,780	0.00153%				
Winter Weather	\$0	\$63,679	0	\$0	under \$1	\$0					building exposure is 0 in NRI

Totals since 2019-07-02 (Storm Events through 2026-06-30): 101 county-coded records, 101 with a damage value recorded (including \$0), \$1,430,500; 42 zone-level records, 42 with a damage value recorded (including \$0), \$50,000 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	203,299
Building value (total, not at risk)	\$33,157,083,720
Agriculture value (total, not at risk)	\$929,576,806
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$63,969,524
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)	\$27,484,477
Social vulnerability rating	Relatively High
Community resilience rating	Very Low
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	1	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	1	0	1	0	0
of which: Yuma County (unincorporated area)	0	0	1	0	1	0	0
Statewide, no county in FEMA's file	0	1	0	0	1	1	0

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>
Yuma County	040099	0	0	1	0	1	0	0
San Luis city	040136	0	0	0	0	0	0	0
Somerton city	040114	0	0	0	0	0	0	0
Wellton town	040112	0	0	0	0	0	0	0
Yuma city	040102	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

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	0	0	1	0	1	0	0
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	0	0	0	0	0	0
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 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 1 property is NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_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

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

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Yuma County, AZ: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 04027). Automated baseline. <https://hazardplain.org/az/04027/> 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.